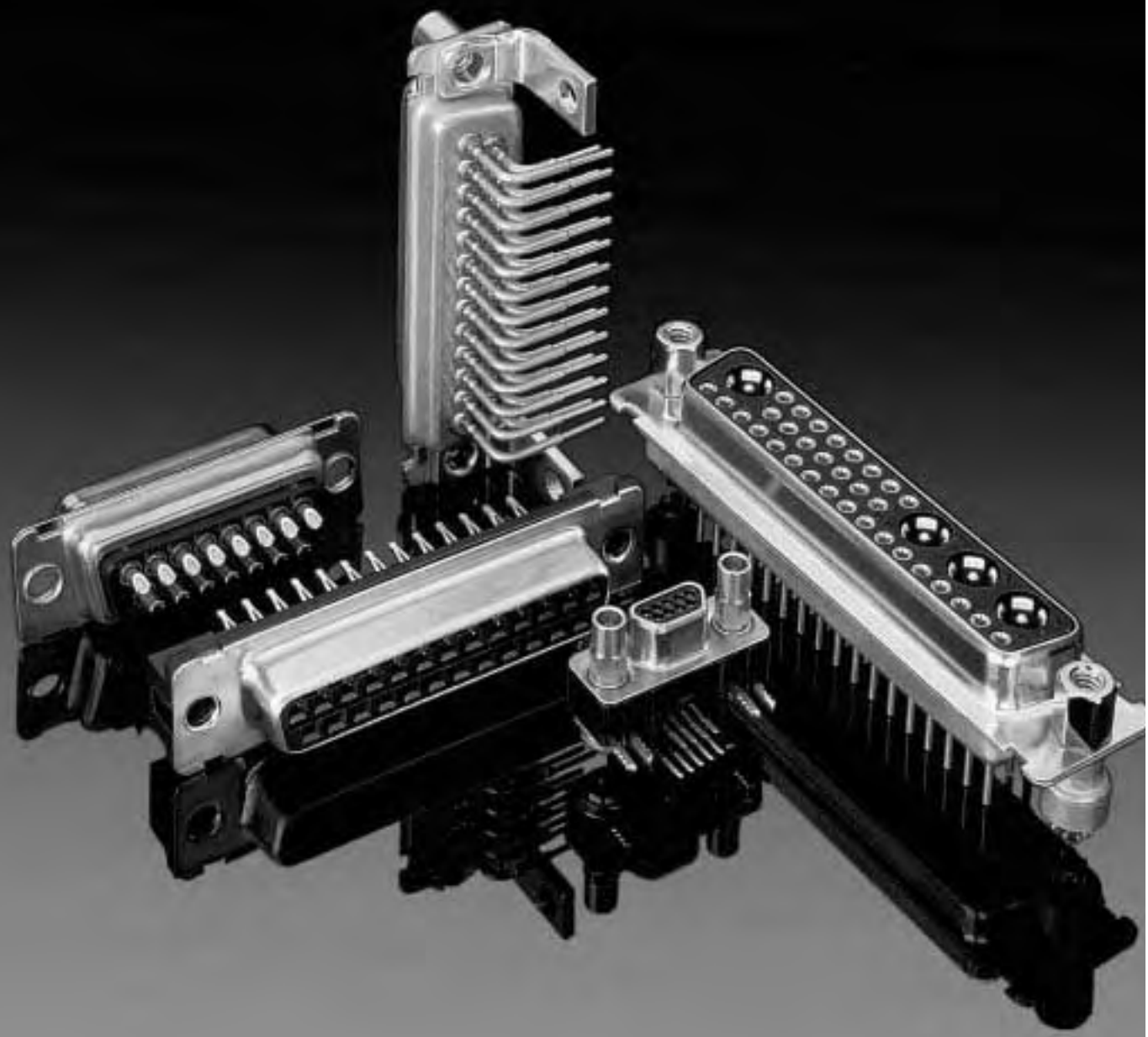
D Subminiature Connectors



Contents

The ITT Cannon D Subminiature family of connectors has grown to include a wide variety of styles, options and accessories and is often the most economical solution to any interconnect problem. Ideally suited for both commercial/industrial applications and military/ aerospace applications, ITT Cannon D Subminiature connectors have found worldwide acceptance in a multitude of applications ranging from office equipment to satellites.

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On the Cover ◄
Filter D, Combo D®, Commercial Micro D (MDSM), Pressfit D, and Standard D

Combo D® is a registered trademark of ITT Cannon in the United States.
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

D*NG - Straight Pressfit Termination

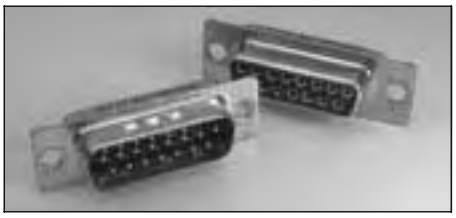
See pages 4-5.

The D*NG is based upon the specification CECC75-301-802. These connectors provide a low-cost alternative to traditional through hole solder contacts. Utilizing stamped ''Eye of the Needle'' compliant contact tails per IEC-352-5, the parts are quickly and easily mounted onto PCBs without soldering, crimping or specialized tooling. The socket contact engaging area utilizes a ''spoon'' shape with four points of interconnection. Hardware options provide flexibility and ensure that the final product fits the electrical requirements of any application.

Product Features

Quick and easy press-in installation without specialized tooling
''Spoon'' socket contact provides improved interface compared to ''Tuning Fork''
Closed-entry socket for secure blind mating
Front-shell only design based on CECC 75-301-802
''Eye of the Needle'' compliant contact tails
Press-in bolt for ground continuity
#4-40 UNC and M3 hardware options

D*M Straight Solder Termination (Machined) — Standard PC Tails



See pages 6-7.

D*M straight PCB connectors, equivalent to MIL-C-24308 qualified versions (except for finishes) for printed circuit boards and backplanes in demanding applications. Additional contact lengths, hardware and finish options available; consult factory for details.

Product Features

7.5 A current capacity
Machined contacts
2 contact finishes
Optional vertical standoffs, screw locks, and boardlocks (4 prongs)
UL file number E8572
Dimensionally compatible with Combo D®

ZD* - Straight Solder Termination (Stamped)

See pages 8-9.

ZD* straight connectors are available for applications where price is the primary driver. They are available with or without boardlocks and screw locks.

Product Features

Stamped contacts with 5 A current capacity
Economical
Optional vertical standoffs with optional harpoon style boardlocks or screw locks

D* - Straight Solder Termination (Machined) — European PC Tails

See pages 10-11.

D* straight connectors are available for high performance uses according to DIN 41652. Available with European length OL contacts.

Select contact finish from 2 performance classes.

Product Features

High performance commercial connectors
Two contact finish performance classes
Optional vertical standoffs, threaded inserts and pushfits/boardlocks
OL2 contact length, other lengths available
Tin plated contact PC tails (pin & socket)
Machined contacts

D* - Wrap Post Termination

See pages 12-13.

D* straight connectors are available for high performance uses according to DIN 41652. Contacts available in two popular lengths.

Product Features

High performance commercial class connectors
Two contact lengths for 2 or 3 wraps
Machined contacts

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Dimensions are shown in mm (inch)
Dimensions subject to change

Specifications

Current Rating	5 A / 25°C, 3.5 A / 70°C ambient
Temperature Rating	−55°C to 125°C
Contact Resistance	10 mΩ
Test Voltage	1200 Vrms at Sea Level
∅ Plated Through Hole	1,09 - 0,94 (.043 - .037)
PC Tail Press-in Force	100N/contact max.
PC Tail Push-out Force	30N/contact min.
PC Board Thickness	3,20 - 1,60 (.125 - .062)

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: black)
Contact	Copper Alloy	Gold over Nickel (Standard) or Gold over PdNi (-408)
Hardware	Steel/Copper Alloy	Tin/Zinc

Specifications

Temperature Rating	−55°C to 125°C
Current Rating	7.5 A
Contact Resistance	55 millivolt max at 7.5 A test current
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: dark green)
Contact	Copper Alloy	Gold over Nickel. Terminating end Tin (Socket only)
Hardware	Steel/Copper Alloy	Tin/Zinc

Specifications

Temperature Rating	−55°C to 105°C
Current Rating	5 A
Contact Resistance	15 mΩ
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94-0	None (color: black)
Contacts	Copper Alloy	Gold over Nickel
Hardware	Steel/Copper Alloy	Tin/Zinc

Specifications

Temperature Rating	−55°C to 125°C
Current Rating	5 A
Contact Resistance	10 mΩ
Dielectric Withstanding Voltage	1250 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: dark green)
Contacts	Copper Alloy	Gold over Nickel in mating area, Tin on balance
Hardware	Steel/Copper Alloy	Tin/Zinc

Specifications

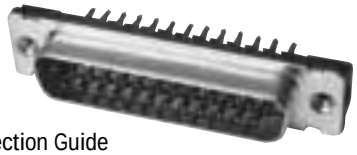
Temperature Rating	−55°C to 125°C
Current Rating	5 A
Contact Resistance	10 mΩ
Dielectric Withstanding Voltage	1250 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: dark green)
Contact	Socket: Copper Alloy	Gold over Nickel. Terminating end Tin (Socket)
Hardware	Steel/Copper Alloy	Tin/Zinc

Straight Pressfit Termination

Plug



Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 2-3.

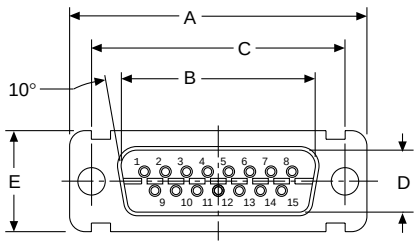
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.

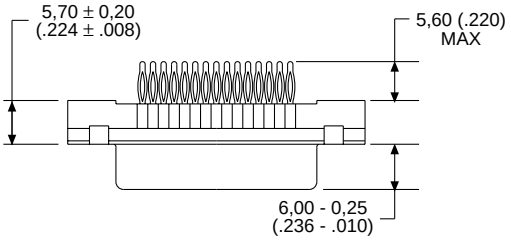
Part Numbers

Shell Size	Layout	Through Hole	Clinch Nut # 4-40 UNC	Clinch Nut M3	Press-In Bolt # 4-40 UNC	Press-In Bolt M3
DE	9	DENG9P-P1	DENGE9P-P1	DENGX9P-P1	DENGZ9P-P1	DENGL9P-P1
DA	15	DANG15P-P1	DANGE15P-P1	DANGX15P-P1	DANGZ15P-P1	DANGL15P-P1
DB	25	DBNG25P-P1	DBNGE25P-P1	DBNGX25P-P1	DBNGZ25P-P1	DBNGL25P-P1
DC	37	DCNG37P-P1	DCNGE37P-P1	DCNGX37P-P1	DCNGZ37P-P1	DCNGL37P-P1
DD	50	DDNG50P-P1	DDNGE50P-P1	DDNGX50P-P1	DDNGZ50P-P1	DDNGL50P-P1

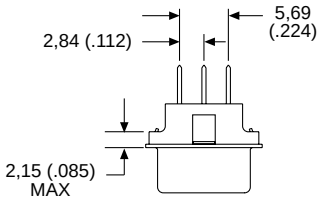
Note: For performance class 1 (gold over PdNi finish) add -408. Example: DENG9P-P1-408.

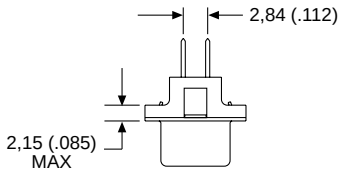
Engaging Face





DD Configuration

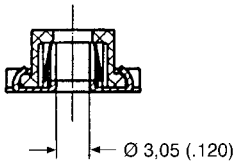




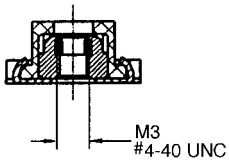
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)

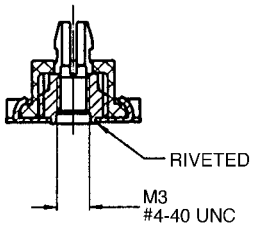
Mounting Types



Through Hole



Clinch Nut



Press-In Bolt

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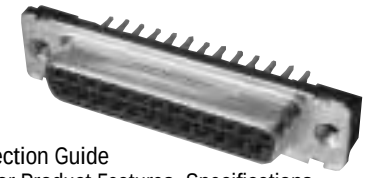
Dimensions are shown in mm (inch)
Dimensions subject to change

Straight Pressfit Termination

Receptacle



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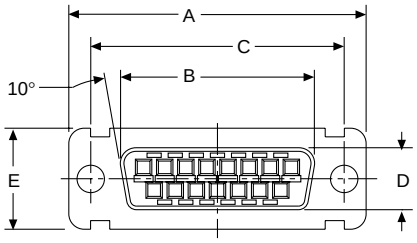
Part Numbers

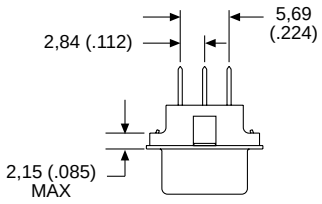
Shell Size	Layout	Through Hole	Clinch Nut # 4-40 UNC	Clinch Nut M3	Press-In Bolt # 4-40 UNC	Press-In Bolt M3
DE	9	DENG9S-P1	DENGE9S-P1	DENGX9S-P1	DENGZ9S-P1	DENGL9S-P1
DA	15	DANG15S-P1	DANGE15S-P1	DANGX15S-P1	DANGZ15S-P1	DANGL15S-P1
DB	25	DBNG25S-P1	DBNGE25S-P1	DBNGX25S-P1	DBNGZ25S-P1	DBNGL25S-P1
DC	37	DCNG37S-P1	DCNGE37S-P1	DCNGX37S-P1	DCNGZ37S-P1	DCNGL37S-P1
DD	50	DDNG50S-P1	DDNGE50S-P1	DDNGX50S-P1	DDNGZ50S-P1	DDNGL50S-P1

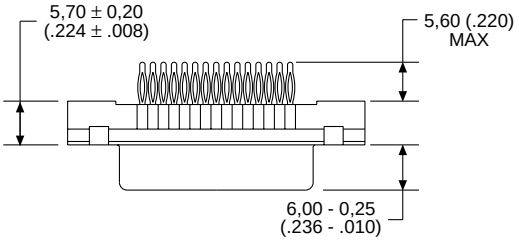
Note: For performance class 1 (gold over PdNi finish) add -408. Example: DENG9S-P1-408.

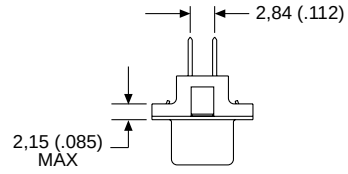
Engaging Face



DD Configuration



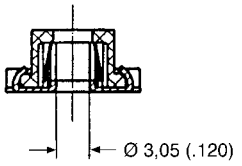




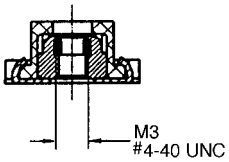
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)

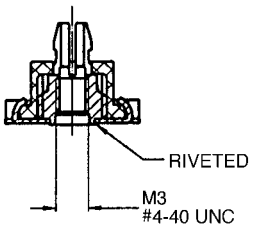
Mounting Types



Through Hole



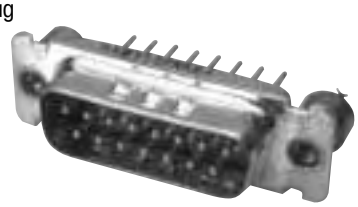
Clinch Nut



Press-In Bolt

Straight Solder Termination (Machined) — Standard PC Tails

Plug



Selection Guide
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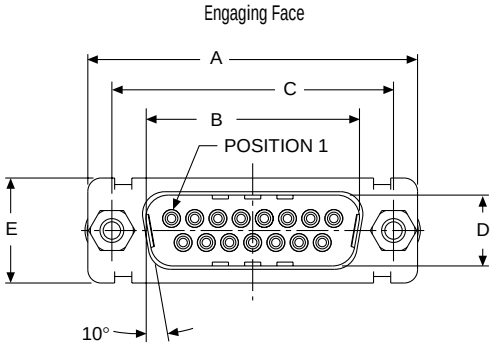
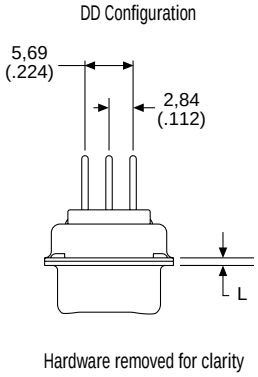
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

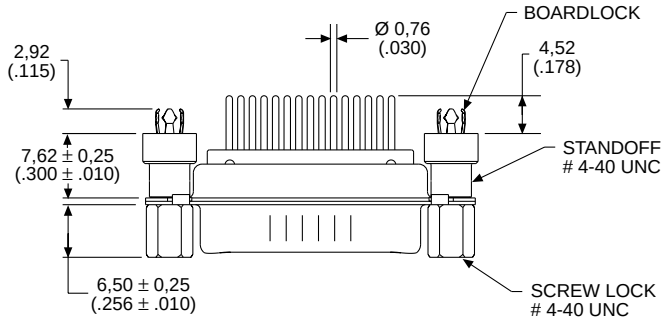
Shell Size	Layout	Standoff	Standoff & Boardlock	Standoff, Boardlock & Screw Lock
DE	9	DEMV9PNK87	DEMZ9PNK87	DEMN9PNK87
DA	15	DAMV15PNK87	DAMZ15PNK87	DAMN15PNK87
DB	25	DBMV25PNK87	DBMZ25PNK87	DBMN25PNK87
DC	37	DCMV37PNK87	DCMZ37PNK87	DCMN37PNK87
DD	50	DDMV50PNK87	DDMZ50PNK87	DDMN50PNK87

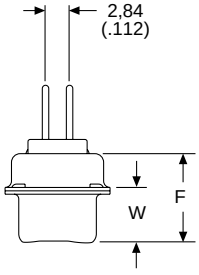
Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DEMN9PNK127





Hardware removed for clarity





Hardware removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

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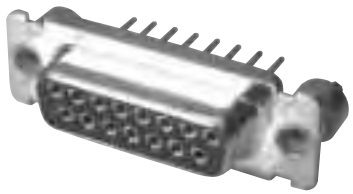
Dimensions are shown in mm (inch)
Dimensions subject to change

Straight Solder Termination (Machined) — Standard PC Tails

Receptacle



Part Numbers

Shell Size	Layout	Standoff	Standoff & Boardlock	Standoff, Boardlock & Screw Lock
DE	9	DEMV9SNA197	DEMZ9SNA197	DEMN9SNA197
DA	15	DAMV15SNA197	DAMZ15SNA197	DAMN15SNA197
DB	25	DBMV25SNA197	DBMZ25SNA197	DBMN25SNA197
DC	37	DCMV37SNA197	DCMZ37SNA197	DCMN37SNA197
DD	50	DDMV50SNA197	DDMZ50SNA197	DDMN50SNA197

Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DEMN9SNK126

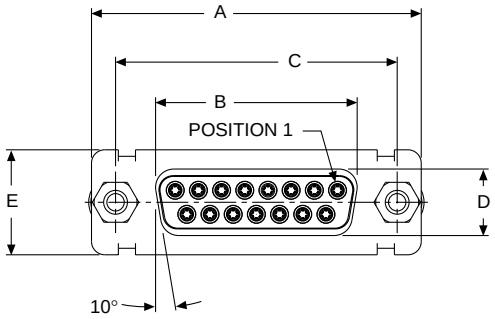
Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

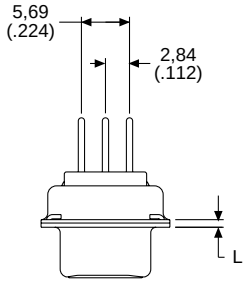
Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

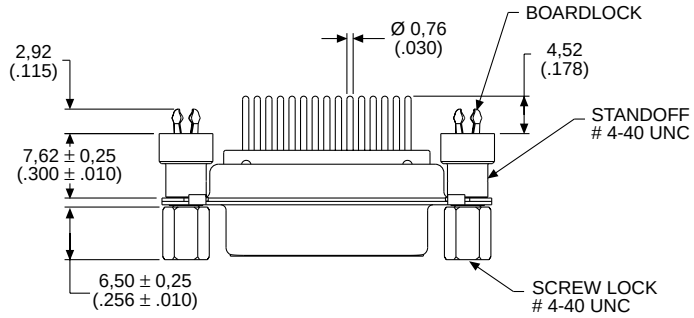
Engaging Face

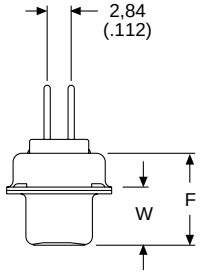


DD Configuration



Hardware removed for clarity





Hardware removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Straight Solder Termination (Stamped)

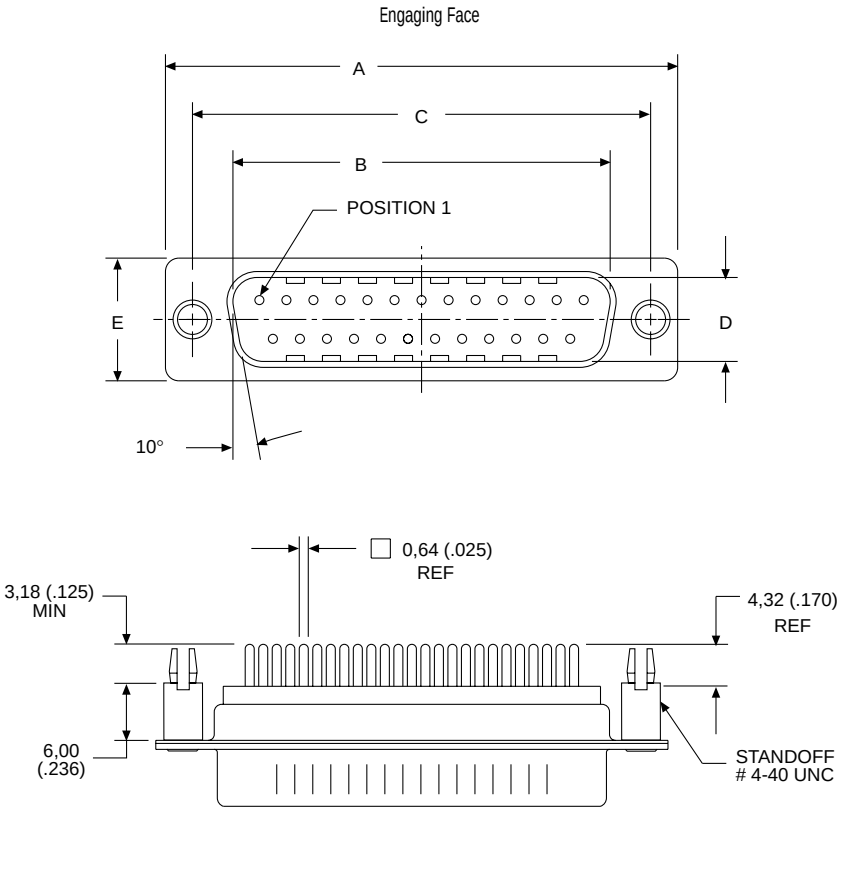
Plug

Part Numbers

Shell Size	Layout	Through Hole	Standoff With Boardlock
DE	9	ZDE9P-OL2	ZDEE9P-OL2-146
DA	15	ZDA15P-OL2	ZDAE15P-OL2-146
DB	25	ZDB25P-OL2	ZDBE25P-OL2-146
DC	37	ZDC37P-OL2	ZDCE37P-OL2-146
DD	50	ZDD50P-OL2	ZDDE50P-OL2-146

Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.



Hardware removed for clarity

Dimensions

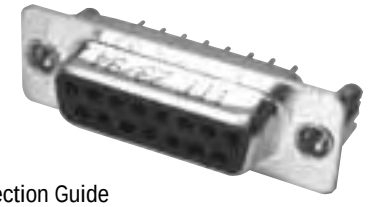
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Straight Solder Termination (Stamped)

Receptacle

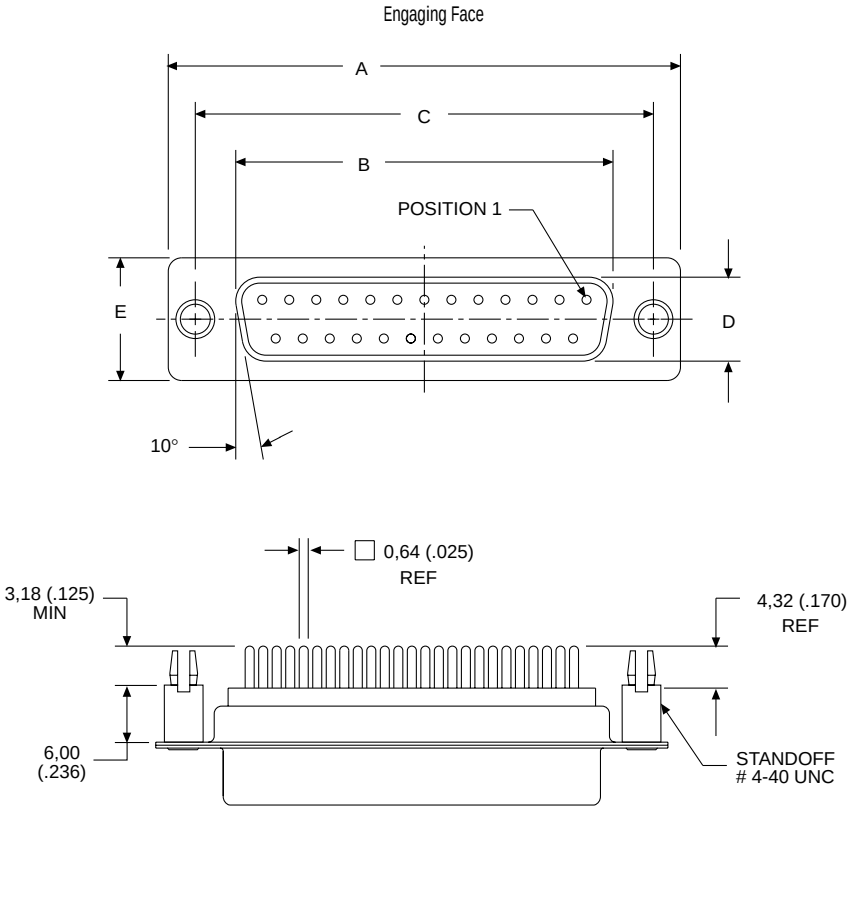


Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

Shell Size	Layout	Through Hole	Standoff With Boardlock
DE	9	ZDE9S-0L2	ZDEE9S-OL2-146
DA	15	ZDA15S-0L2	ZDAE15S-OL2-146
DB	25	ZDB25S-0L2	ZDBE25S-OL2-146
DC	37	ZDC37S-0L2	ZDCE37S-OL2-146
DD	50	ZDD50S-0L2	ZDDE50S-OL2-146



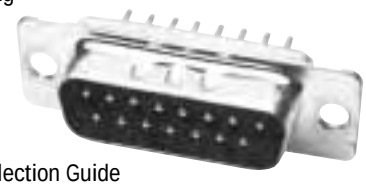
Hardware removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)
DD	66,93 (2.635)	52,42 (2,064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)

Straight Solder Termination (Machined) — European PC Tails

Plug



Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

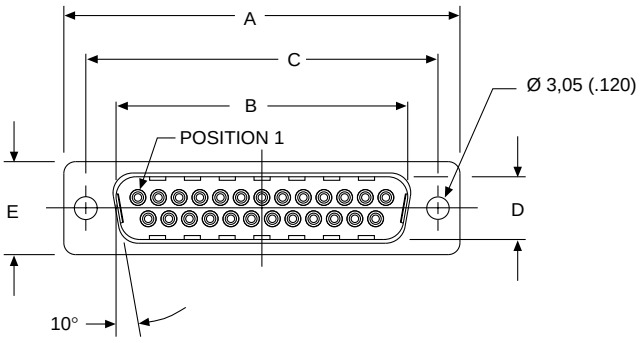
Part Numbers

Shell Size	Layout	Through Hole	Standoff #4-40 UNC With Pushfit/Boardlock	Standoff M3 With Pushfit/Boardlock
DE	9	DE9P-0L2-K87	DEE9P-0L2-K87-146	DEX9P-0L2-K87-146
DA	15	DA15P-0L2-K87	DAE15P-0L2-K87-146	DAX15P-0L2-K87-146
DB	25	DB25P-0L2-K87	DBE25P-0L2-K87-146	DBX25P-0L2-K87-146
DC	37	DC37P-0L2-K87	DCE37P-0L2-K87-146	DCX37P-0L2-K87-146
DD	50	DD50P-0L2-K87	DDE50P-0L2-K87-146	DDX50P-0L2-K87-146

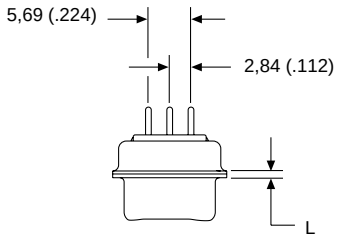
Note: For performance class 2 add -A191. Example DA15P-OL2-A191-K87.

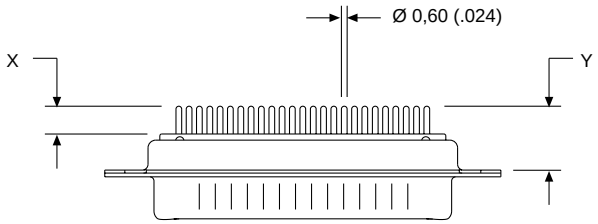
PC Tail Modifier	X ±0,30 (.012)	Y ±0,30 (.012)
OL2	5,20 (.205)	10,20 (.401)
OL4	6,75 (.266)	11,80 (.465)

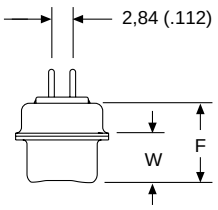
Engaging Face



DD Configuration







Dimensions

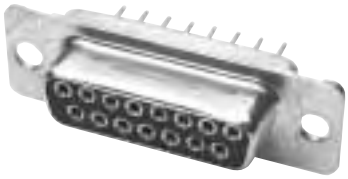
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0.25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Straight Solder Termination (Machined) — European PC Tails

Receptacle



Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

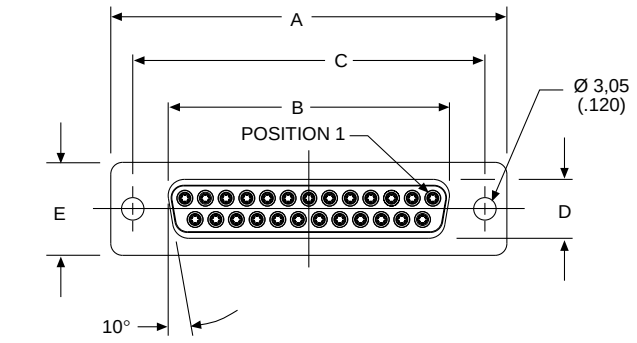
Part Numbers

Shell Size	Layout	Through Hole	Standoff #4-40 UNC With Pushfit/Boardlock	Standoff M3 With Pushfit/Boardlock
DE	9	DE9S-0L2-A197	DEE9S-0L2-A197-146	DEX9S-0L2-A197-146
DA	15	DA15S-0L2-A197	DAE15S-0L2-A197-146	DAX15S-0L2-A197-146
DB	25	DB25S-0L2-A197	DBE25S-0L2-A197-146	DBX25S-0L2-A197-146
DC	37	DC37S-0L2-A197	DCE37S-0L2-A197-146	DCX37S-0L2-A197-146
DD	50	DD50S-0L2-A197	DDE50S-0L2-A197-146	DDX50S-0L2-A197-146

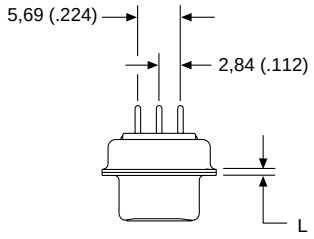
Note: For performance class 2 add -A191. Example DA15S-0L2-A191-A197

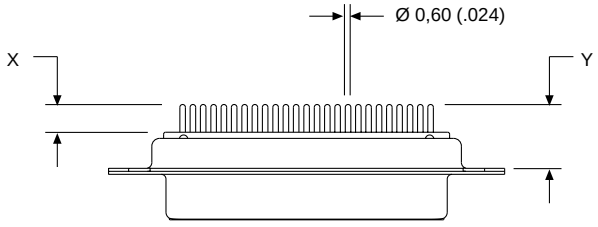
PC Tail Modifier	X ±0,30 (.012)	Y ±0,30 (.012)
0L2	5,20 (.205)	10,20 (.401)
0L4	6,75 (.266)	11,80 (.465)

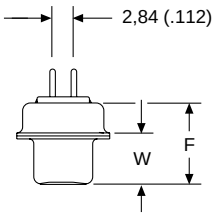
Engaging Face



DD Configuration





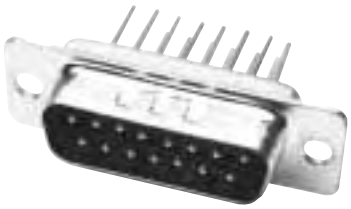


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Wrap Post Termination

Plug



Part Numbers

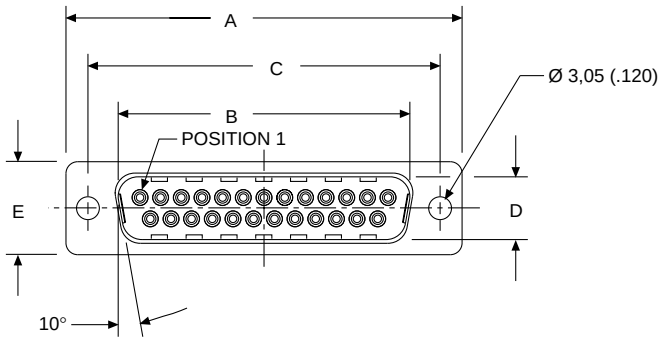
Shell Size	Layout	Through Hole
DE	9	DE9P-F179A-K87
DA	15	DA15P-F179A-K87
DB	25	DB25P-F179A-K87
DC	37	DC37P-F179A-K87
DD	50	DD50P-F179A-K87

Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 2-3.

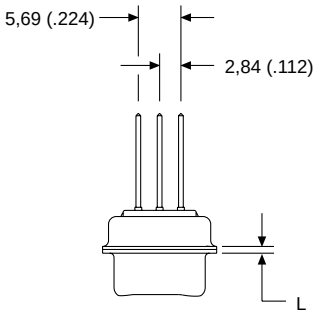
Modification Code	Number of Wraps	X max.	Y ±0,89 (.035)
F179	2	10,21 (.402)	15,20 (.598)
F179A	3	13,61 (.536)	18,60 (.732)

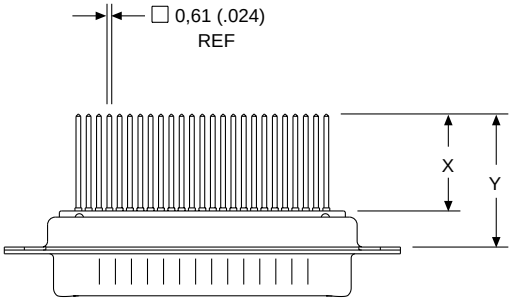
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

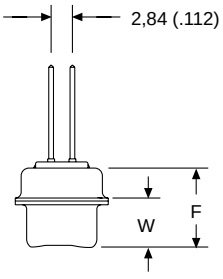
Engaging Face



DD Configuration







Dimensions

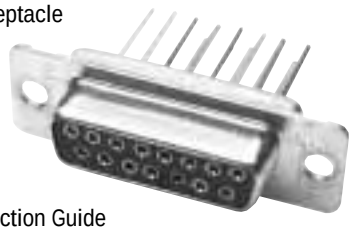
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,64 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,64 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,64 (.269)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Wrap Post Termination

Receptacle



Selection Guide
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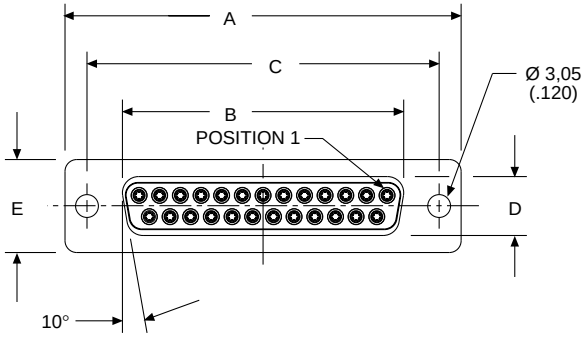
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

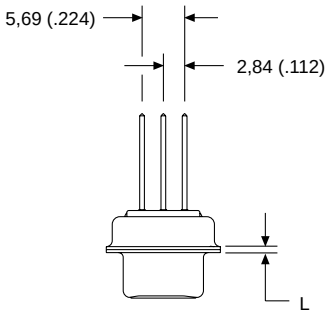
Shell Size	Layout	Through Hole
DE	9	DE9S-F179A-A197
DA	15	DA15S-F179A-A197
DB	25	DB25S-F179A-A197
DC	37	DC37S-F179A-A197
DD	50	DD50S-F179A-A197

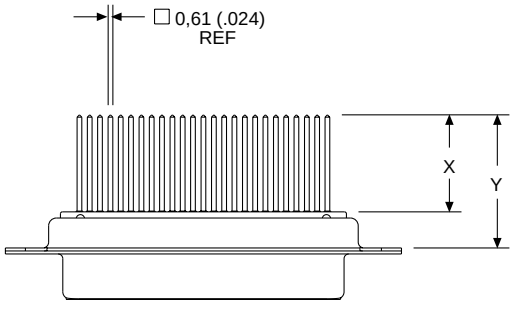
Modification Code	Number of Wraps	X max.	Y ±0,89 (.035)
F179	2	10,21 (.402)	15,20 (.598)
F179A	3	13,61 (.536)	18,60 (.732)

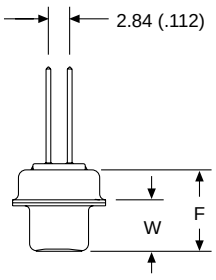
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,13 (.005)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

D*M — 90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦

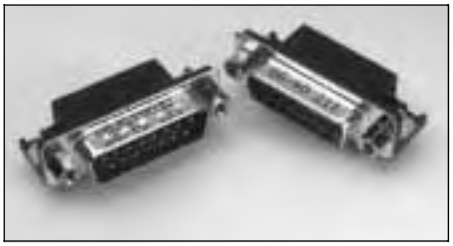
See pages 16-17.

D*M 90° PCB connectors, equivalent to MIL-C-24308 qualified versions (except for finishes), for use with printed circuit boards in demanding applications. Additional contact lengths, hardware and finish options available; consult factory for details.

Product Features

7.5 A current capacity
Machined contacts
Two contact finishes
Metal bracket with threaded insert standard
Optional screw locks and boardlocks
UL file number E8572
Dimensionally compatible with Combo D®

ZED* — 90° Solder Termination (Stamped) — Standard Footprint .318 inch♦



See pages 18-19.

ZED* 90° connectors are available for applications where price is the primary driver. They are available with integrated plastic brackets with Standard footprints.

Product Features

Stamped contacts with 5 A current capacity
Economical
Plastic bracket with integrated boardlocks and grounding strap
Optional screw locks

D* — 90° Solder Termination (Machined) — European Footprint 10,2♦ or 9,4 mm♦♦

See pages 20-27.

D* 90° connectors are available for high performance uses according to DIN 41652. Available with European footprint 1AON contacts, plastic and metal brackets, #4-40 or M3 threads and stamped pushfits/boardlocks. Contact finish available in 2 performance classes.

Product Features

High performance commercial class connectors
Two contact performance classes
Optional metal and plastic brackets, threaded standoffs, clinch nuts, and stamped pushfits/boardlocks
Tin plated contact PC tails (pin & socket)

ZD* — 90° Solder Termination (Stamped) — European Footprint 10,2 mm♦

See pages 28-29.

ZD* 90° connectors are available for applications where price is the primary driver. They are available with integrated plastic brackets with European footprints.

Product Features

Stamped contacts with 5 A current capacity
Economical
Plastic bracket with integrated boardlocks and grounding strap
Optional screw locks

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

Dimensions are shown in mm (inch)
Dimensions subject to change

Specifications

Temperature Rating	−55°C to 125°C
Current Rating	7.5 A
Contact Resistance	55 millivolt max. at 7.5 A test current
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (Color: dark green)
Pin Contact	Copper Alloy	Gold over Nickel
Socket Contact	Copper Alloy	Gold over Nickel in mating area, Tin on balance
Hardware (except Boardlocks)	Steel	Tin
Boardlocks	Copper Alloy	Tin

Specifications

Temperature Rating	−55°C to 105°C
Current Rating	5 A
Contact Resistance	15 mΩ
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None
Contacts	Copper Alloy	Gold over Nickel in mating area, Tin on balance

Specifications

Temperature Rating	−55°C to +125°C
Current Rating	5 A
Contact Resistance	10 mΩ
Dielectric Withstanding Voltage	1250 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (Color: dark green)
Contacts	Copper Alloy	Gold over Nickel in mating area, Tin on balance
Hardware	Steel or Plastic	Tin or None
Boardlocks	Copper Alloy	Tin

Specifications

Temperature Rating	−55°C to 105°C
Current Rating	5 A
Contact Resistance	15 mΩ
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None
Contacts	Copper Alloy	Gold over Nickel in mating area, Tin on balance

90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦

Plug

Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

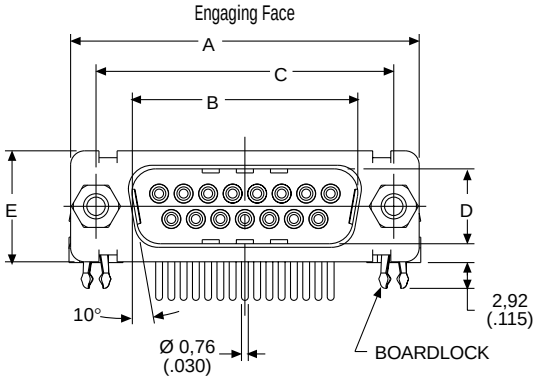
Reader's Resource

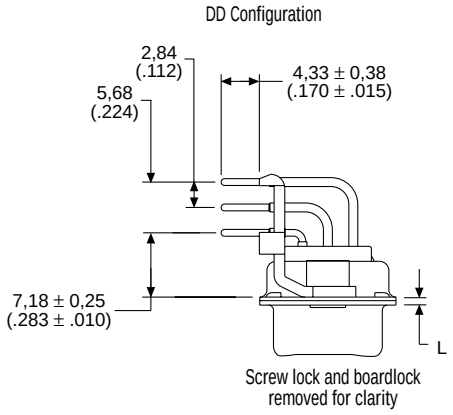
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

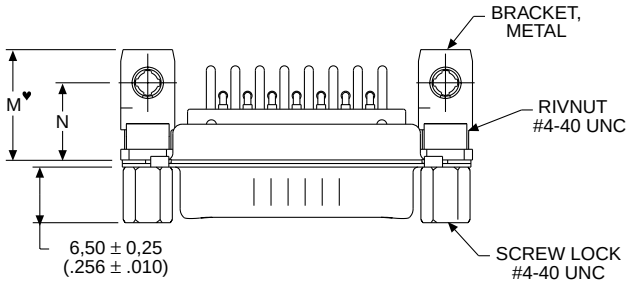
Part Numbers

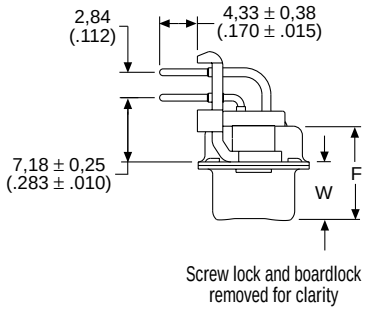
Shell Size	Layout	Bracket	Bracket & Boardlock	Bracket & Screw Lock #4-40 UNC	Bracket, Boardlock & Screw Lock #4-40 UNC
DE	9	DEMP9PJK87	DEMCP9PJK87	DEMD9PJK87	DEMG9PJK87
DA	15	DAMP15PJK87	DAMC15PJK87	DAMD15PJK87	DAMG15PJK87
DB	25	DBMP25PJK87	DBMC25PJK87	DBMD25PJK87	DBMG25PJK87
DC	37	DCMP37PJK87	DCMC37PJK87	DCMD37PJK87	DCMG37PJK87
DD	50	DDMP50PJK87	DDMC50PJK87	DDMD50PJK87	DDMG50PJK87

Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DAMG15PJK127









Note: ♥ Dimension varies with alternate bracket configuration. See Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)	M ±0,25 (.010)	N ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)	12,34 (.486)	8,64 (.340)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)	12,34 (.486)	8,64 (.340)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	12,34 (.486)	8,64 (.340)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	12,34 (.486)	8,64 (.340)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	13,74 (.541)	10,06 (.396)

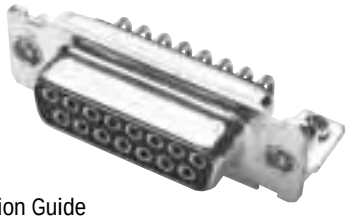
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦

Receptacle



Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

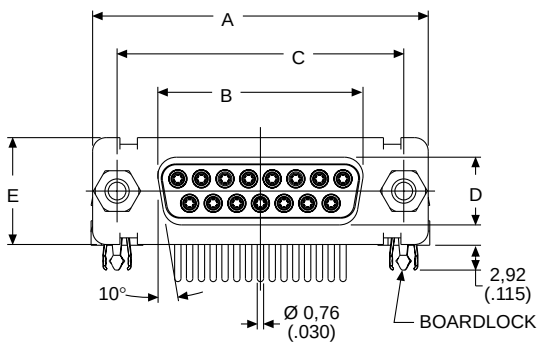
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

Part Numbers

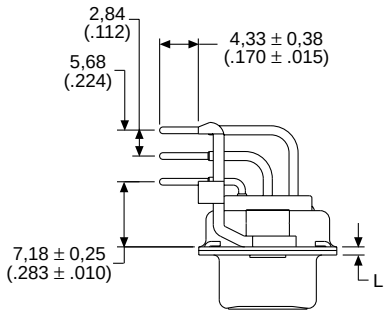
Shell Size	Layout	Bracket	Bracket & Boardlock	Bracket & Screw Lock #4-40 UNC	Bracket, Boardlock & Screw Lock #4-40 UNC
DE	9	DEMP9SJA197	DEMC9SJA197	DEMD9SJA197	DEMG9SJA197
DA	15	DAMP15SJA197	DAMC15SJA197	DAMD15SJA197	DAMG15SJA197
DB	25	DBMP25SJA197	DBMC25SJA197	DBMD25SJA197	DBMG25SJA197
DC	37	DCMP37SJA197	DCMC37SJA197	DCMD37SJA197	DCMG37SJA197
DD	50	DDMP50SJA197	DDMC50SJA197	DDMD50SJA197	DDMG50SJA197

Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DAMG15SJK126

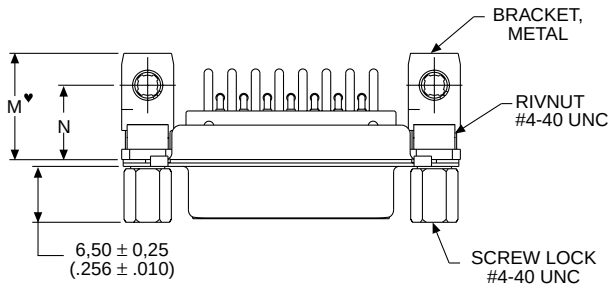
Engaging Face

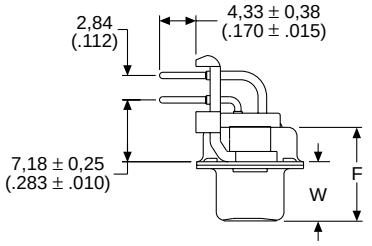


DD Configuration



Screw lock and boardlock removed for clarity





Screw lock and boardlock removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration. See Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)	M ±0,25 (.010)	N ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,34 (.486)	8,64 (.340)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,34 (.486)	8,64 (.340)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,34 (.486)	8,64 (.340)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,34 (.486)	8,64 (.340)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)	13,74 (.541)	10,06 (.396)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Stamped) — Standard Footprint .318 inch

Plug

Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

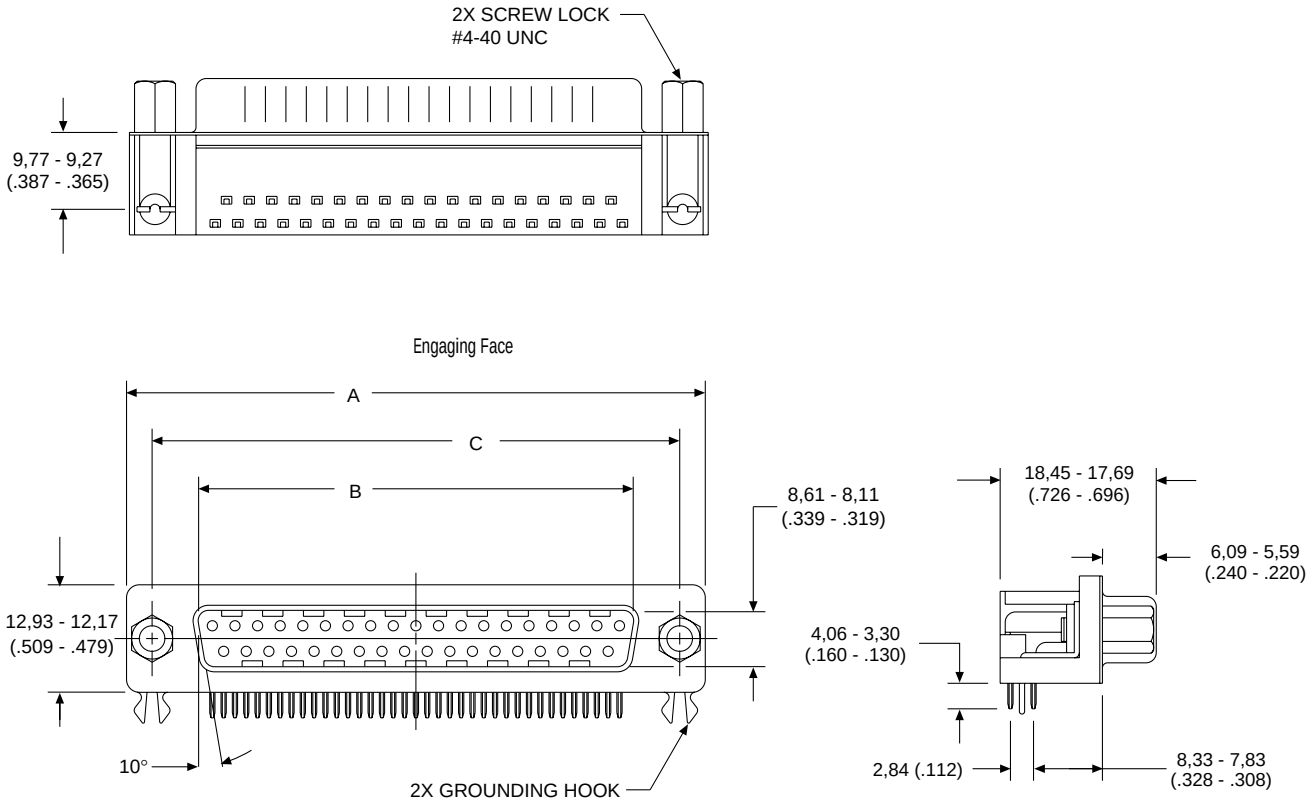
Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

Shell Size	Layout	Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC
DE	9	ZEDEL9PBA	ZEDE9PBA
DA	15	ZEDAL15PBA	ZEDA15PBA
DB	25	ZEDBL25PBA	ZEDB25PBA
DC	37	ZEDCL37PBA	ZEDC37PBA

Note: For contacts with 30 microinches of gold add -30. Example: ZEDEL9PBA-30



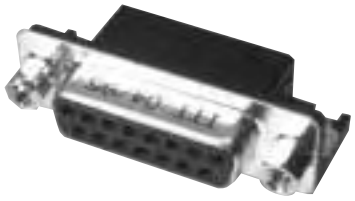
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,25 (.010)
DE	30,89 (1.216)	16,92 (.666)	24,99 (.984)
DA	39,09 (1.539)	25,25 (.994)	33,32 (1.312)
DB	53,09 (2.090)	38,96 (1.534)	47,04 (1.852)
DC	69,40 (2.732)	55,42 (2.182)	63,50 (2.500)

Dimensions are shown in mm (inch)
Dimensions subject to change

90° Solder Termination (Stamped) — Standard Footprint .318 inch

Receptacle



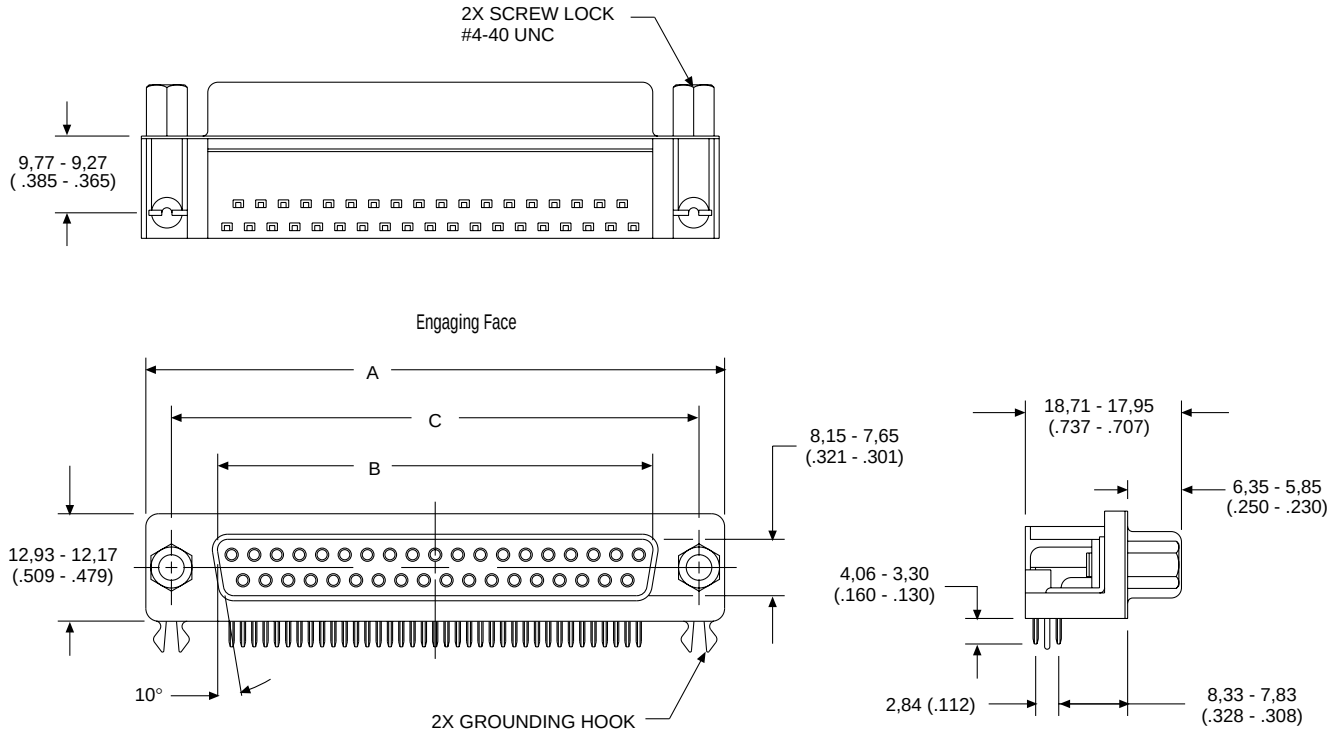
Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

Shell Size	Layout	Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC
DE	9	ZEDEL9SBA	ZEDE9SBA
DA	15	ZEDAL15SBA	ZEDA15SBA
DB	25	ZEDBL25SBA	ZEDB25SBA
DC	37	ZEDCL37SBA	ZEDC37SBA

Note: For contacts with 30 microinches gold add -30. Example: ZEDEL9SBA-30

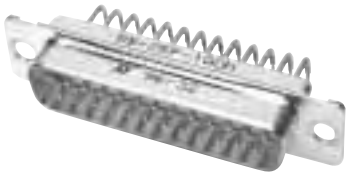


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,25 (.010)
DE	30,89 (1.216)	16,28 (.641)	24,99 (.984)
DA	39,09 (1.539)	24,66 (.971)	33,32 (1.312)
DB	53,09 (2.090)	38,38 (1.511)	47,04 (1.852)
DC	69,40 (2.732)	54,84 (2.159)	63,50 (2.500)

90° Solder Termination (Machined) — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Part Numbers

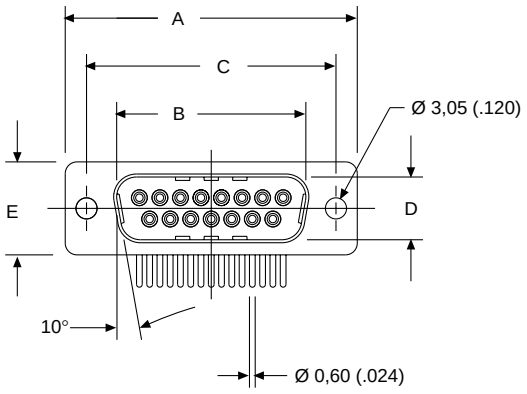
Shell Size	Layout	Through Hole
DE	9	DE9P-1AON-K87
DA	15	DA15P-1AON-K87
DB	25	DB25P-1AON-K87
DC	37	DC37P-1AON-K87
DD	50	DD50P-1AON-K87

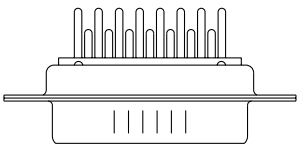
Note: For performance class 2 add -A191. Example: DE9P-1A0N-A191-K87

Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 14-15.

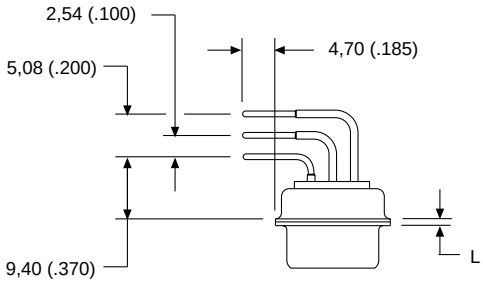
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

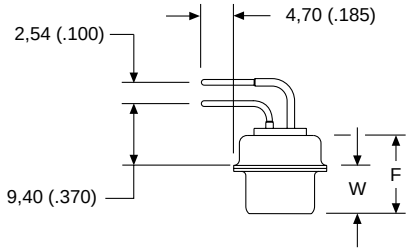
Engaging Face





DD Configuration





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

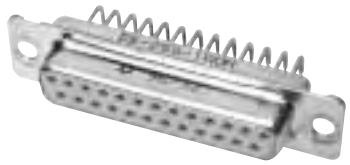
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

90° Solder Termination (Machined) — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle



Part Numbers

Shell Size	Layout	Through Hole
DE	9	DE9S-1AON-A197
DA	15	DA15S-1AON-A197
DB	25	DB25S-1AON-A197
DC	37	DC37S-1AON-A197
DD	50	DD50S-1AON-A197

Note: For performance class 2 add -A191. Example: DE9S-1AON-A191-A197

Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
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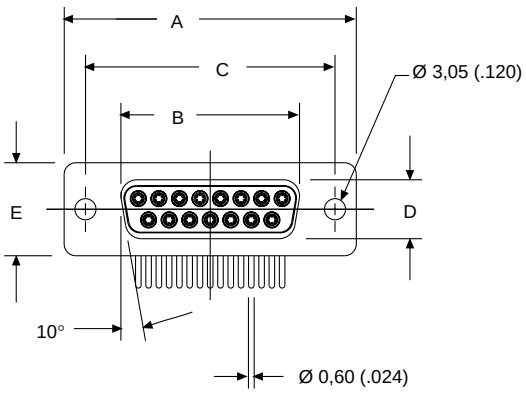
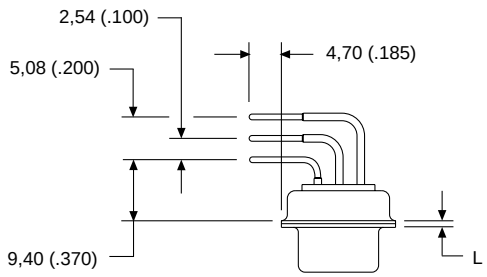
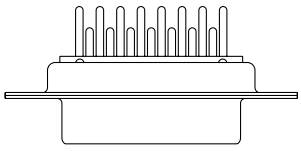
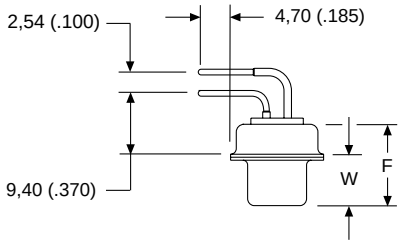
Engaging Face



DD Configuration







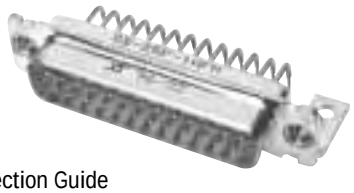
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

Plug



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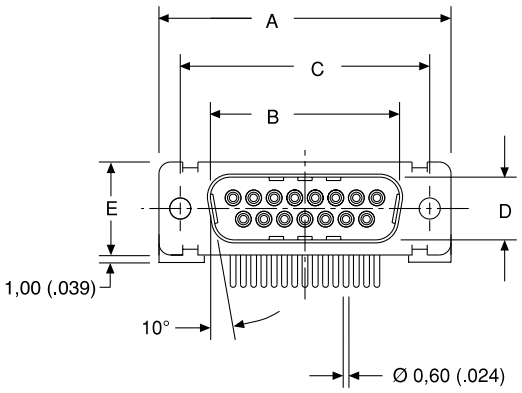
Part Numbers

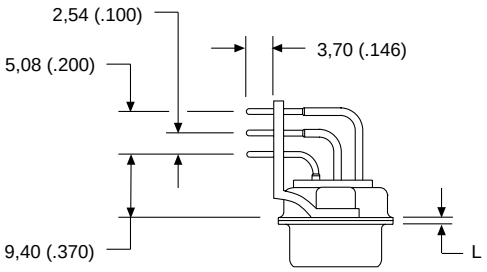
Shell Size	Layout	Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9P-1AFN-K87	DE9P-1A7N-K87	DE9P-1A9N-K87	DE9P-1A8N-K87
DA	15	DA15P-1AFN-K87	DA15P-1A7N-K87	DA15P-1A9N-K87	DA15P-1A8N-K87
DB	25	DB25P-1AFN-K87	DB25P-1A7N-K87	DB25P-1A9N-K87	DB25P-1A8N-K87
DC	37	DC37P-1AFN-K87	DC37P-1A7N-K87	DC37P-1A9N-K87	DC37P-1A8N-K87
DD	50	DD50P-1AFN-K87	DD50P-1A7N-K87	DD50P-1A9N-K87	DD50P-1A8N-K87

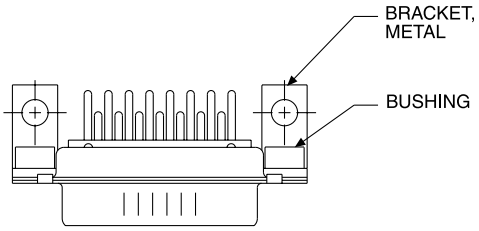
Notes: For pushfit/boardlock option add -146. Example: DE9P-1AFN-K87-146
For performance class 2 add -A191. Example: DE9P-1AFN-A191-K87

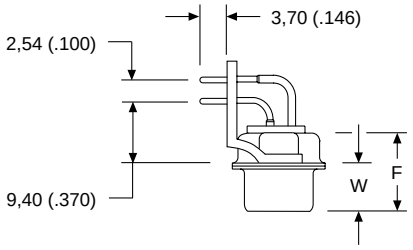
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0.38 (.015)	F ±0.25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

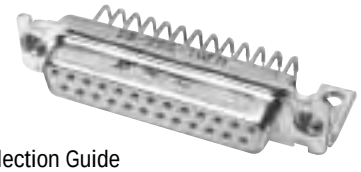
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

Receptacle



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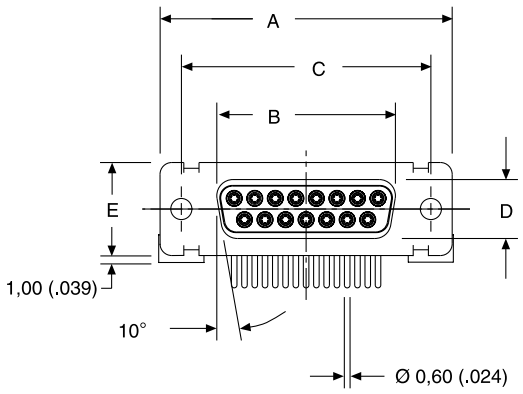
Part Numbers

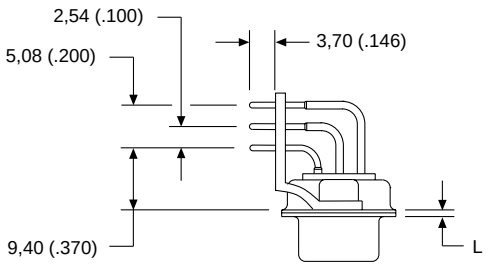
Shell Size	Layout	Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9S-1AFN-A197	DE9S-1A7N-A197	DE9S-1A9N-A197	DE9S-1A8N-A197
DA	15	DA15S-1AFN-A197	DA15S-1A7N-A197	DA15S-1A9N-A197	DA15S-1A8N-A197
DB	25	DB25S-1AFN-A197	DB25S-1A7N-A197	DB25S-1A9N-A197	DB25S-1A8N-A197
DC	37	DC37S-1AFN-A197	DC37S-1A7N-A197	DC37S-1A9N-A197	DC37S-1A8N-A197
DD	50	DD50S-1AFN-A197	DD50S-1A7N-A197	DD50S-1A9N-A197	DD50S-1A8N-A197

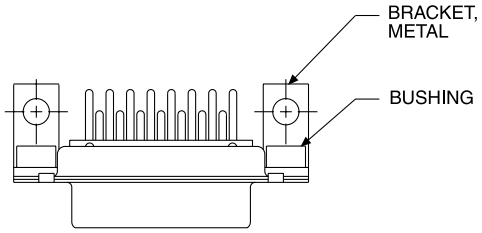
Notes: For pushfit/boardlock option add -146. Example: DE9S-1AFN-A197-146
For performance class 2 add -A191. Example: DE9S-1AFN-A191-A197

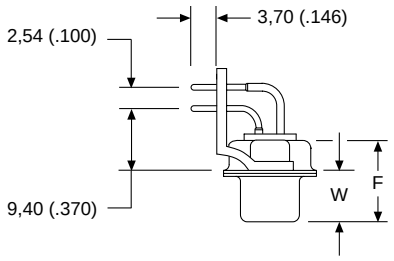
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
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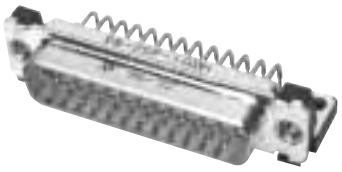
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Plastic Bracket and Grounding Strap — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



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Reader's Resource
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Part Numbers

Shell Size	Layout	Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
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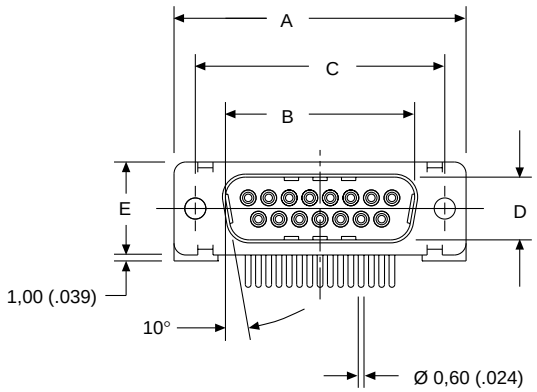
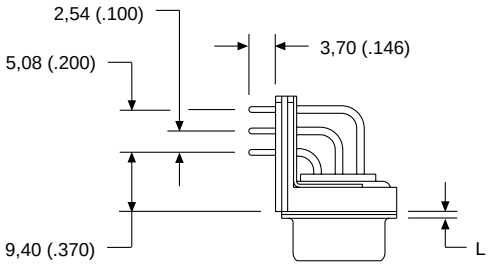
DA	15	DA15P-1ADN-K87	DA15P-1AWN-K87	DA15P-1AVN-K87	DA15P-1AJN-K87
DB	25	DB25P-1ADN-K87	DB25P-1AWN-K87	DB25P-1AVN-K87	DB25P-1AJN-K87
DC	37	DC37P-1ADN-K87	DC37P-1AWN-K87	DC37P-1AVN-K87	DC37P-1AJN-K87
DD	50	DD50P-1ADN-K87	DD50P-1AWN-K87	DD50P-1AVN-K87	DD50P-1AJN-K87

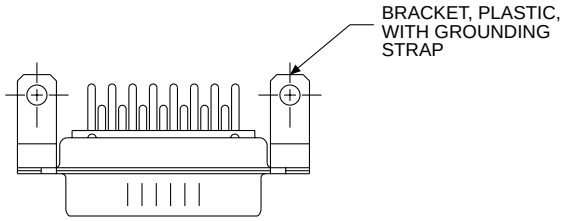
Notes: For pushfit/boardlock option add -146. Example: DE9P-1ADN-K87-146
For performance class 2 add -A191. Example: DE9P-1ADN-A191-K87

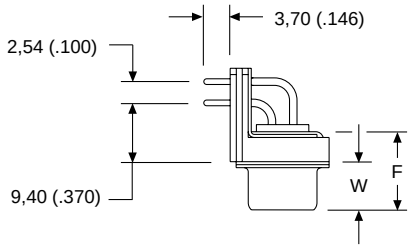
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0.38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
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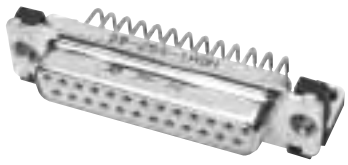
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

Dimensions are shown in mm (inch)
Dimensions subject to change

90° Solder Termination (Machined) with Plastic Bracket and Grounding Strap — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle



Part Numbers

Shell Size	Layout	Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9S-1ADN-A197	DE9S-1AWN-A197	DE9S-1AVN-A197	DE9S-1AJN-A197
DA	15	DA15S-1ADN-A197	DA15S-1AWN-A197	DA15S-1AVN-A197	DA15S-1AJN-A197
DB	25	DB25S-1ADN-A197	DB25S-1AWN-A197	DB25S-1AVN-A197	DB25S-1AJN-A197
DC	37	DC37S-1ADN-A197	DC37S-1AWN-A197	DC37S-1AVN-A197	DC37S-1AJN-A197
DD	50	DD50S-1ADN-A197	DD50S-1AWN-A197	DD50S-1AVN-A197	DD50S-1AJN-A197

Notes: For pushfit/boardlock option add -146. Example: DE9S-1ADN-A197-146
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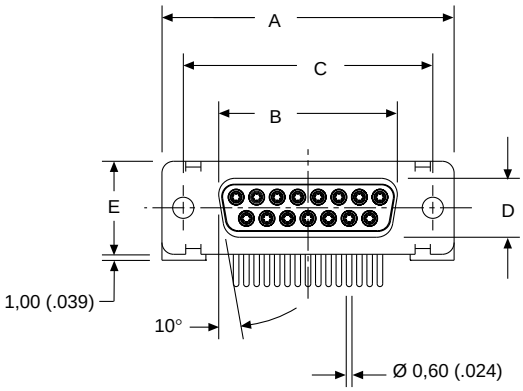
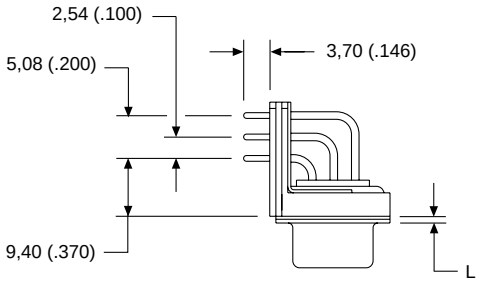
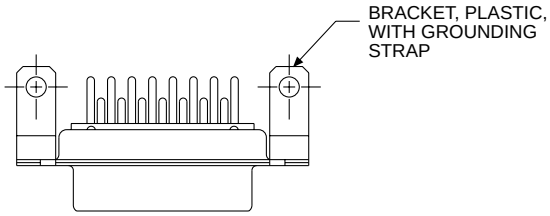
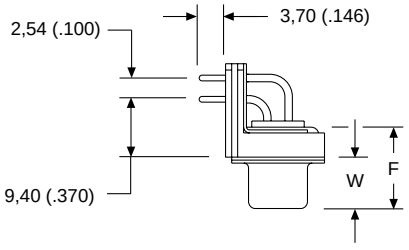
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0.38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
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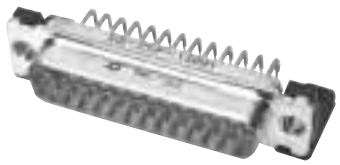
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Plastic Bracket — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Part Numbers

Shell Size	Layout	Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9P-1A5N-K87	DE9P-1AUN-K87	DE9P-1ATN-K87	DE9P-1A6N-K87
DA	15	DA15P-1A5N-K87	DA15P-1AUN-K87	DA15P-1ATN-K87	DA15P-1A6N-K87
DB	25	DB25P-1A5N-K87	DB25P-1AUN-K87	DB25P-1ATN-K87	DB25P-1A6N-K87
DC	37	DC37P-1A5N-K87	DC37P-1AUN-K87	DC37P-1ATN-K87	DC37P-1A6N-K87
DD	50	DD50P-1A5N-K87	DD50P-1AUN-K87	DD50P-1ATN-K87	DD50P-1A6N-K87

Notes: For pushfit/boardlock option add -146. Example: DE9P-1A5N-K87-146
For performance class 2 add -A191. Example: DE9P-1A5N-A191-K87

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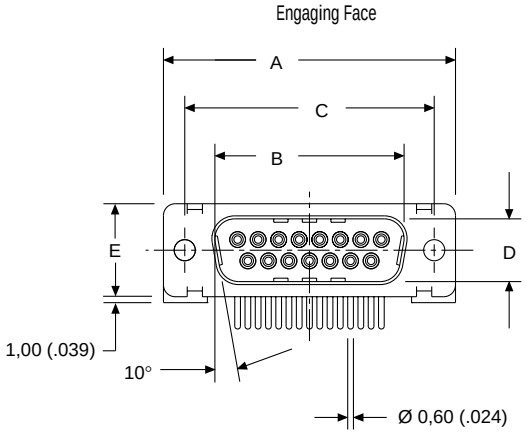
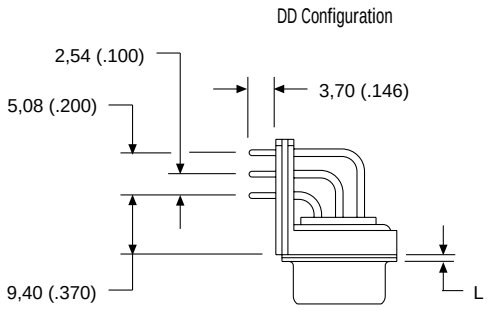
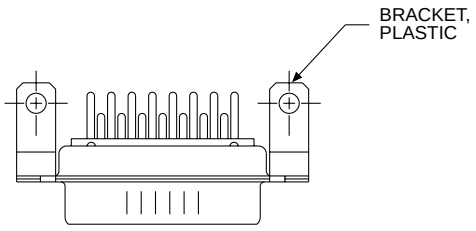
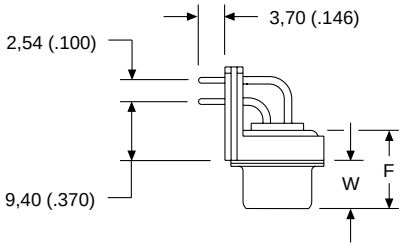
For panel cutouts, see page 221.
For hardware views (European), see page 227.









Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

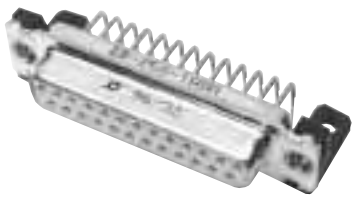
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

90° Solder Termination (Machined) with Plastic Bracket — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle



Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 14-15.

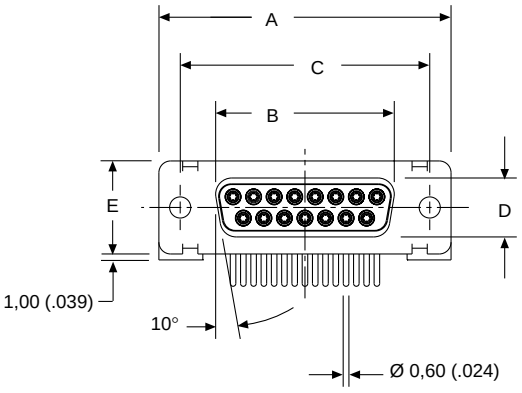
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

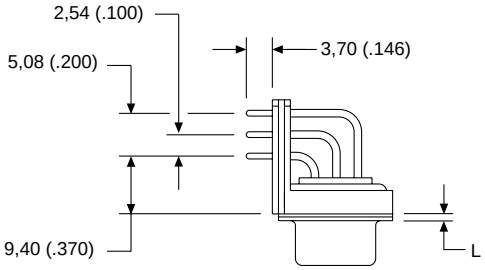
Shell Size	Layout	Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9S-1A5N-A197	DE9S-1AUN-A197	DE9S-1ATN-A197	DE9S-1A6N-A197
DA	15	DA15S-1A5N-A197	DA15S-1AUN-A197	DA15S-1ATN-A197	DA15S-1A6N-A197
DB	25	DB25S-1A5N-A197	DB25S-1AUN-A197	DB25S-1ATN-A197	DB25S-1A6N-A197
DC	37	DC37S-1A5N-A197	DC37S-1AUN-A197	DC37S-1ATN-A197	DC37S-1A6N-A197
DD	50	DD50S-1A5N-A197	DD50S-1AUN-A197	DD50S-1ATN-A197	DD50S-1A6N-A197

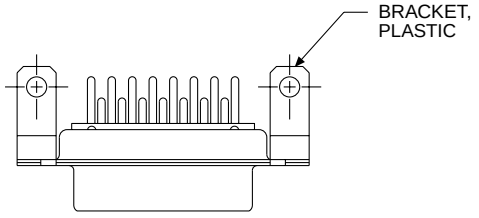
Notes: For push/boardlock option add -146. Example: DE9S-1A5N-A197-146
For performance class 2 add -A191. Example: DE9S-1A5N-A191-A197

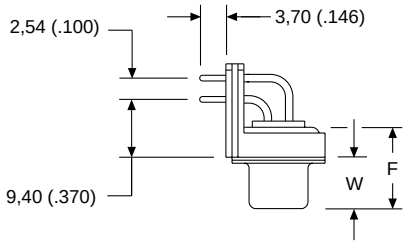
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Stamped) — European Footprint 10,2 mm

Plug

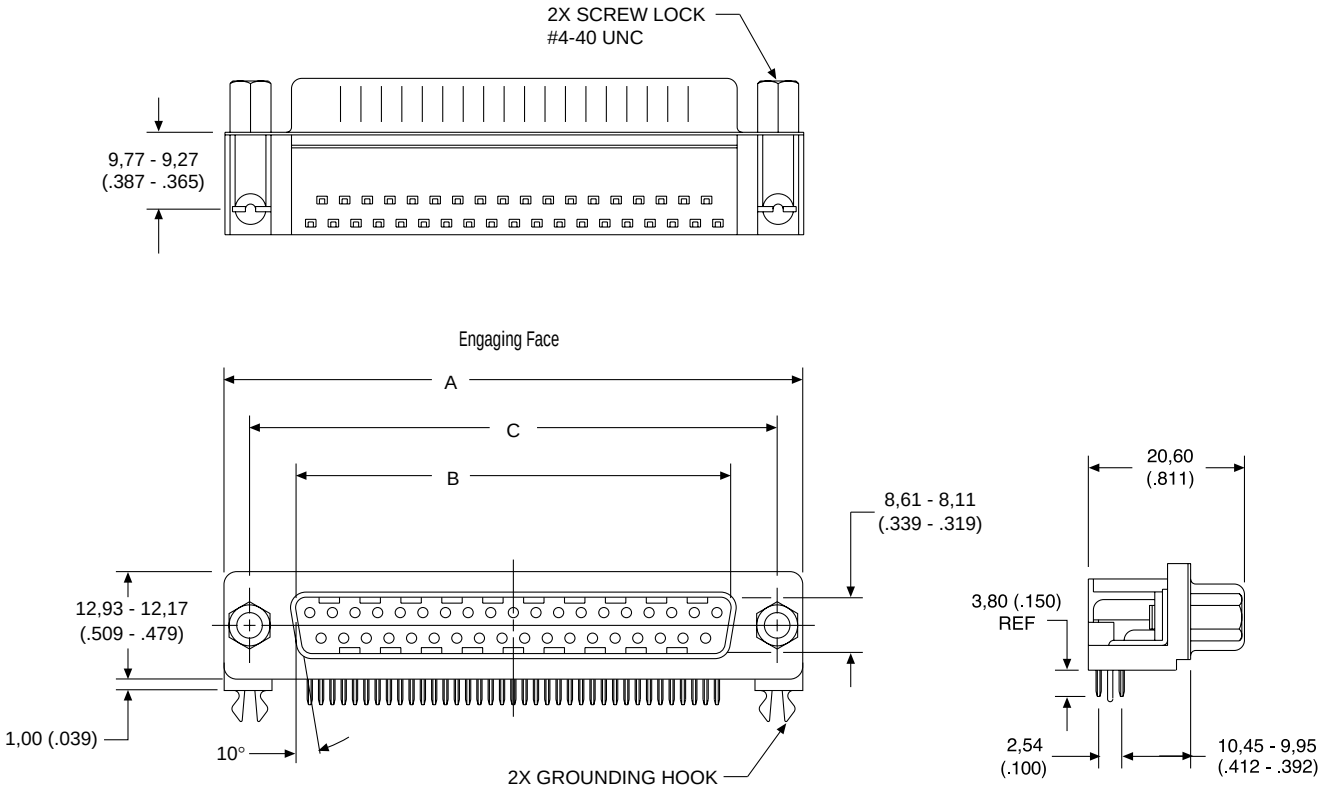
Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

Shell Size	Layout	Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC
DE	9	ZDEL9P-1AKN-146	ZDE9P-1AKN-146
DA	15	ZDAL15P-1AKN-146	ZDA15P-1AKN-146
DB	25	ZDBL25P-1AKN-146	ZDB25P-1AKN-146
DC	37	ZDCL37P-1AKN-146	ZDC37P-1AKN-146

Note: For contacts with 30 microinches gold add -A191. Example: ZDEL9P-1AKN-A191-146



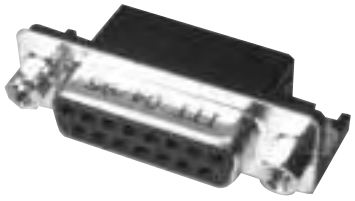
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,13 (.005)
DE	30,89 (1.216)	16,92 (.666)	24,99 (.984)
DA	39,09 (1.539)	25,25 (.994)	33,32 (1.312)
DB	53,09 (2.090)	38,96 (1.534)	47,04 (1.852)
DC	69,40 (2.732)	55,42 (2.182)	63,50 (2.500)

Dimensions are shown in mm (inch)
Dimensions subject to change

90° Solder Termination (Stamped) — European Footprint 10,2 mm

Receptacle



Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

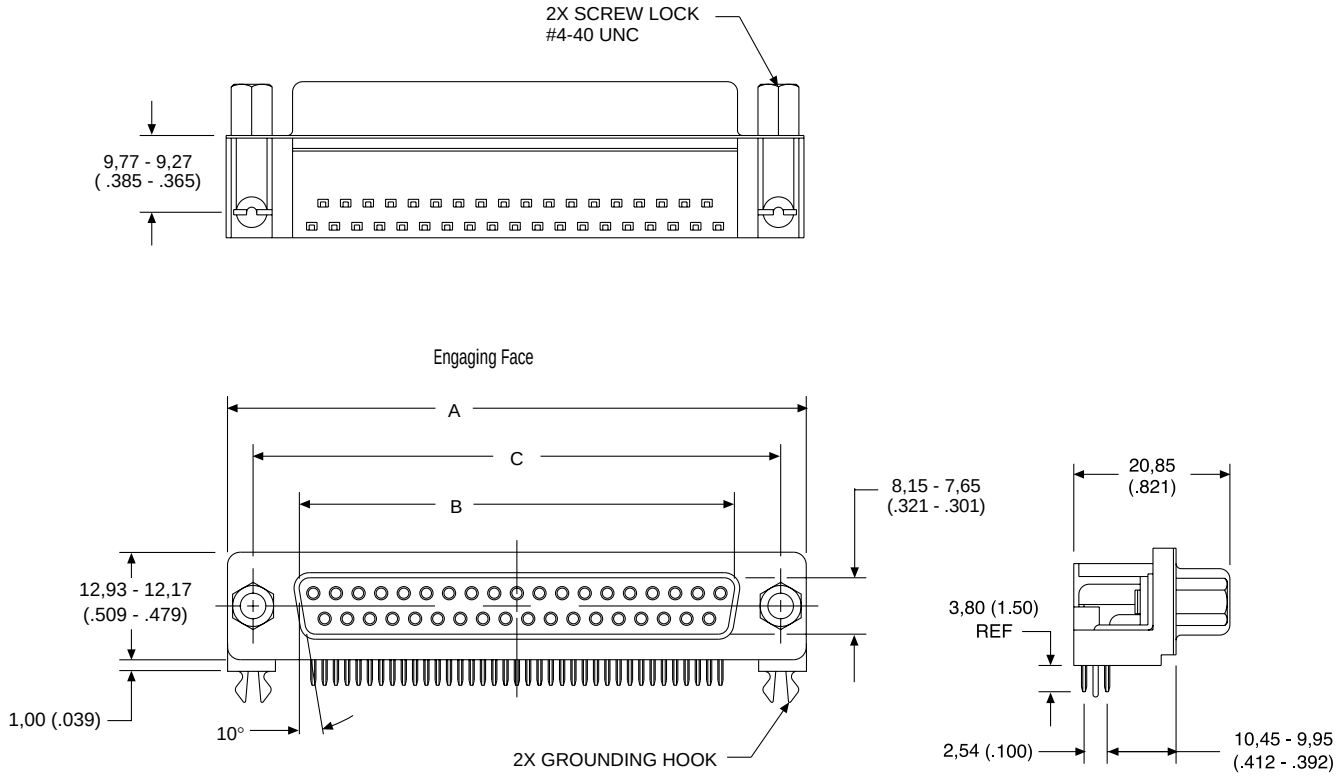
Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

Shell Size	Layout	Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC
DE	9	ZDEL9S-1AKN-146	ZDE9S-1AKN-146
DA	15	ZDAL15S-1AKN-146	ZDA15S-1AKN-146
DB	25	ZDBL25S-1AKN-146	ZDB25S-1AKN-146
DC	37	ZDCL37S-1AKN-146	ZDC37S-1AKN-146

Note: For contacts with -A191 microinches gold add -A191. Example: ZDEL9S-1AKN-A191-146



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,13 (.005)
DE	30,89 (1.216)	16,33 (.643)	24,99 (.984)
DA	39,09 (1.539)	24,66 (.971)	33,32 (1.312)
DB	53,09 (2.090)	38,38 (1.511)	47,04 (1.852)
DC	69,40 (2.732)	54,84 (2.159)	63,50 (2.500)

D* — Solder Cup Termination (Machined) with Tin Shells

D* solder cup connectors are used for cable or panel mount wiring applications. Solder cup connectors provide maximum flexibility and performance for applications requiring discrete solder terminations and field repair without termination tooling.

Product Features

Machined solder cup termination, 5 A current capacity
High performance commercial class connectors
Two contact performance classes
Optional clinch nuts with #4-40 UNC or M3 threads

See pages 32-33.

ZD* — Solder Cup Termination (Stamped) with Tin Shells

ZD* solder cup connectors are used for cable or panel mount wiring applications. Solder cup connectors provide maximum flexibility and performance for applications requiring discrete solder terminations.

Product Features

Stamped solder cup termination, 5 A current capacity
Economical

See pages 34-35.

D*A — Crimp Connectors without Contacts

D*A crimp contact connectors are designed for reliable, fast cabling. Available in the industry standard D*A housing, the connectors provide a low-cost, quick cabling alternative compared to soldering.

Product Features

Crimp contacts available in reels of 5,000
Application tooling:
- – Hand or automatic
- – Stripper crimper

See pages 36-37.

D*W — Discrete Wire IDC

The D*W connector provides insulation displacement connection technology for either solid or stranded wires. With D*W, speed of cabling is increased significantly over solder cup or crimp solutions. Contacts are easily removable and replaceable. Several specialized accessories (including shield cans, ferrules, and plastic boots) are available to provide a complete product solution.

Product Features

Quick harnessing capability with simple hand or semi-automatic tooling
Accepts 30 AWG to 20 AWG wire; sizes can be mixed
Shield cans insure reliable shielding continuity

See pages 38-41.

Dimensions are shown in mm (inch)
Dimensions subject to change

Specifications

Temperature Rating	−55°C to 125°C
Current Rating	5 A
Contact Resistance	10 mΩ
Dielectric Withstanding Voltage	1250 VAC

Materials and Finishes

Description	Material	Finish
Shell/Hardware	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None
Contacts	Copper Alloy	Gold over Nickel

Specifications

Temperature Rating	−55°C to 105°C
Current Rating	5 A
Contact Resistance	15 mΩ
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None
Contacts	Copper Alloy	Gold over Nickel

Specifications

Temperature Rating	−55°C to 105°C
Current Rating	5 A (20 AWG)
Contact Resistance	15 mΩ
Dielectric Withstanding Voltage	500 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell/Hardware	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None
Contacts	Copper Alloy	Gold over Nickel

Specifications

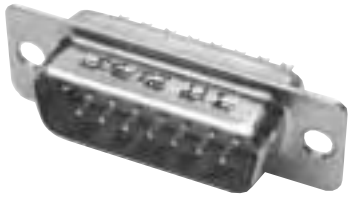
Temperature Rating	−55°C to 125°C
Current Rating	3 A (20 AWG) 2 A (22 AWG) 1,4 A (24 AWG) 1,2 A (26 AWG) 1 A (28 AWG) 0,8 A (30 AWG)
Contact Resistance	15 mΩ
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell/Hardware	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None
Contacts	Copper Alloy	Gold over Nickel in mating area, Tin on balance

Solder Cup Termination (Machined) with Tin Shells

Plug



Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 30-31.

Reader's Resource

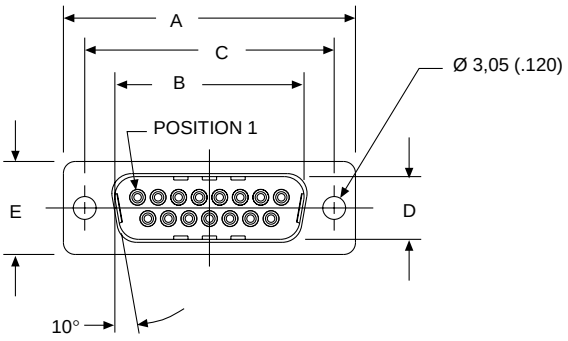
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

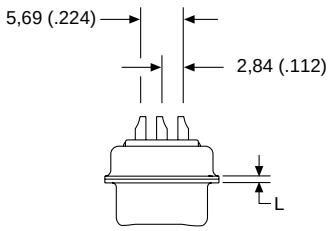
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
DE	9	DE9PK87	DEE9PK87	DEX9PK87
DA	15	DA15PK87	DAE15PK87	DAX15PK87
DB	25	DB25PK87	DBE25PK87	DBX25PK87
DC	37	DC37PK87	DCE37PK87	DCX37PK87
DD	50	DD50PK87	DDE50PK87	DDX50PK87

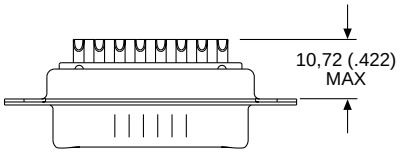
Note: For performance class 2, add A191. Example: DA15PA191K87.

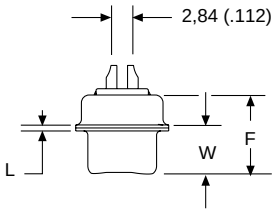
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Solder Cup Termination (Machined) with Tin Shells

Receptacle

Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 30-31.

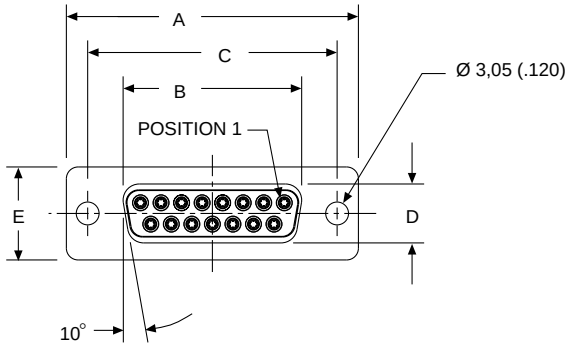
Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

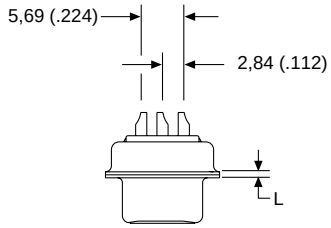
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
DE	9	DE9SA197	DEE9SA197	DEX9SA197
DA	15	DA15SA197	DAE15SA197	DAX15SA197
DB	25	DB25SA197	DBE25SA197	DBX25SA197
DC	37	DC37SA197	DCE37SA197	DCX37SA197
DD	50	DD50SA197	DDE50SA197	DDX50SA197

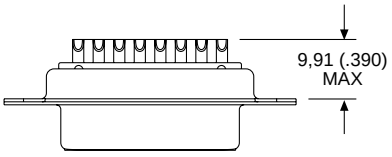
Note: For performance class 2, add A191. Example: DA15SA191A197.

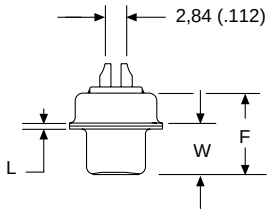
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Solder Cup Termination (Stamped) with Tin Shells

Plug

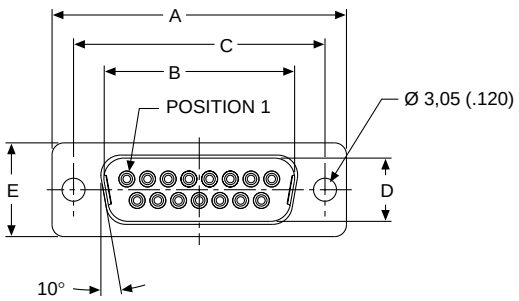
Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 30-31.

Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

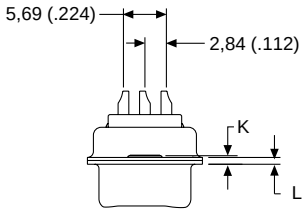
Part Numbers

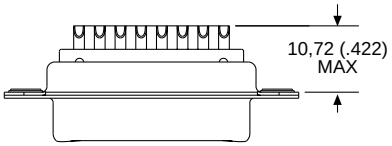
Shell Size	Layout	Through Hole
DE	9	ZDE9P
DA	15	ZDA15P
DB	25	ZDB25P
DC	37	ZDC37P
DD	50	ZDD50P

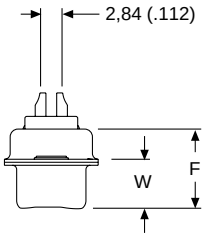
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

Solder Cup Termination (Stamped) with Tin Shells

Receptacle

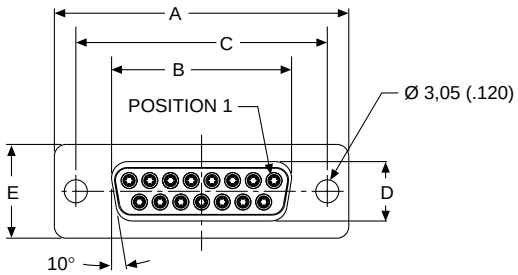
Part Numbers

Shell Size	Layout	Through Hole
DE	9	ZDE9S
DA	15	ZDA15S
DB	25	ZDB25S
DC	37	ZDC37S
DD	50	ZDD50S

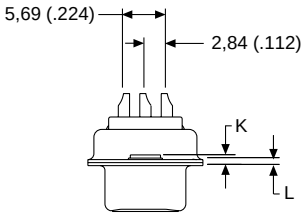
Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 30-31.

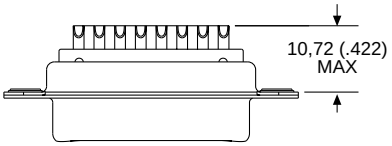
Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

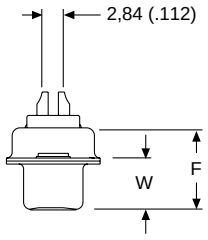
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

Crimp Connectors without Contacts

Plug

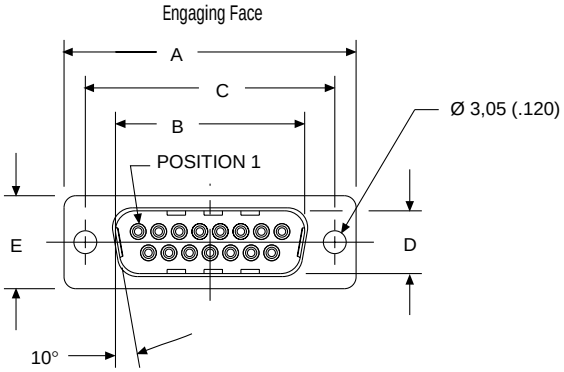
Part Numbers

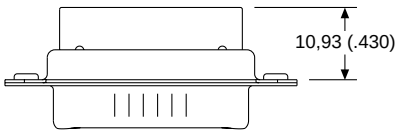
Shell Size	Layout	Through Hole
DE	9	DEA9PK87FO
DA	15	DAA15PK87FO
DB	25	DBA25PK87FO
DC	37	DCA37PK87FO

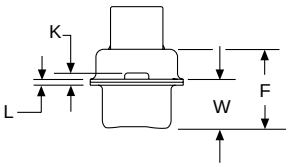
Note: For crimp (size 20) contacts and tooling, see pages 83 & 275.

Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 30-31.

Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.







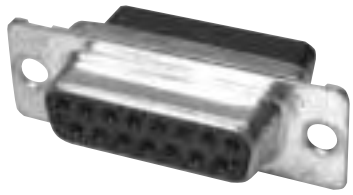
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

Crimp Connectors without Contacts

Receptacle



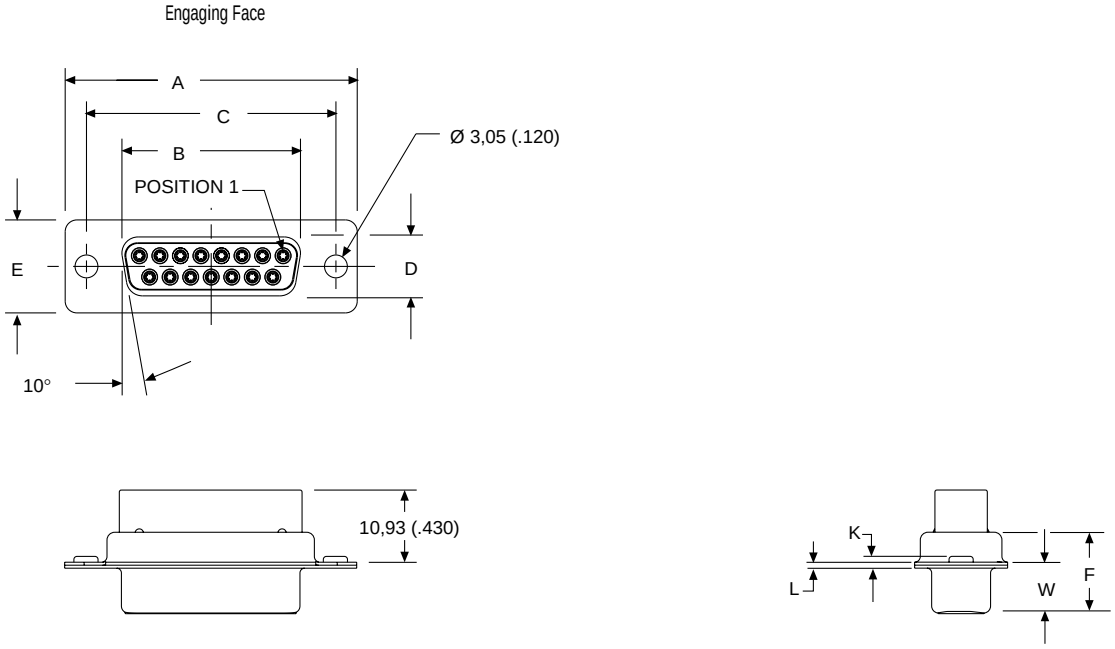
Part Numbers

Shell Size	Layout	Through Hole
DE	9	DEA9SA197FO
DA	15	DAA15SA197FO
DB	25	DBA25SA197FO
DC	37	DCA37SA197FO

Note: For crimp (size 20) contacts and tooling, see pages 83 & 275.

Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 30-31.

Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

Discrete Wire IDC

Plug

Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 30-31.

Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

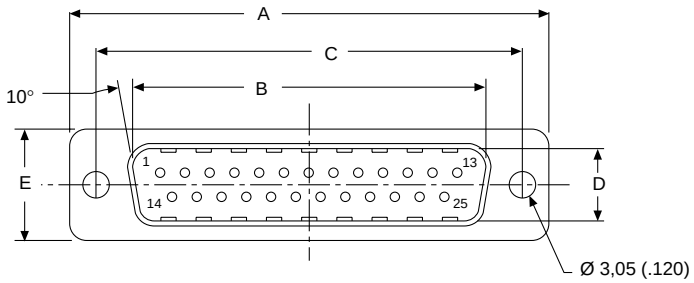
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Through Hole & Shield Can Kit	Clinch Nut #4-40 UNC & Shield Can Kit
DE	9	DEW9P*	DEWE9P*	DEW9P*G	DEWE9P*G
DA	15	DAW15P*	DAWE15P*	DAW15P*G	DAWE15P*G
DB	25	DBW25P*	DBWE25P*	DBW25P*G	DBWE25P*G
DC	37	DCW37P*	DCWE37P*	DCW37P*G	DCWE37P*G

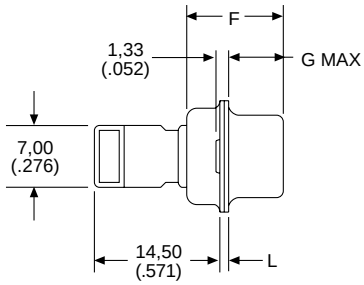
Note: *Insert contact type. Example: DEW9P1.
For contacts with 0,76 µm gold add -A176. Example: DEW9P1-A176.
For shield can kit, see page 40.

Contact Types*	Wire Accommodation
1	28 AWG/30 AWG
2	22 AWG/26 AWG
3	20 AWG/22 AWG

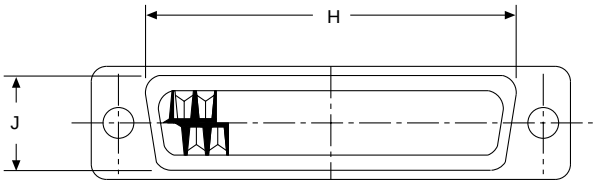
For more information, see pages 40-41.

Engaging Face





Rear Face



Dimensions

Shell Size	Layout	A ±0,38 (.015)	B ±0,12 (.005)	C ±0,12 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	G max.	H ±0,25 (.010)	J ±0,25 (.010)	L ±0,25 (.010)
DEW	9	30,81 (1.213)	16,91 (.666)	24,99 (.984)	8,35 (.329)	12,55 (.494)	10,71 (.422)	6,05 (.238)	19,27 (.759)	10,71 (.422)	0,76 (.030)
DAW	15	39,14 (1.541)	25,54 (.994)	33,32 (1.312)	8,35 (.329)	12,55 (.494)	10,71 (.422)	6,05 (.238)	27,50 (1.083)	10,71 (.422)	0,76 (.030)
DBW	25	53,03 (2.048)	38,96 (1.534)	47,04 (1.852)	8,35 (.329)	12,55 (.494)	10,82 (.426)	5,99 (.236)	41,27 (1.625)	10,71 (.422)	0,99 (.039)
DCW	37	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,35 (.329)	12,55 (.494)	10,82 (.426)	5,99 (.236)	57,70 (2.272)	10,71 (.422)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Discrete Wire IDC

Receptacle

Selection Guide
For Product Features, Specifications, Materials and Finishes, see pages 30-31.

Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

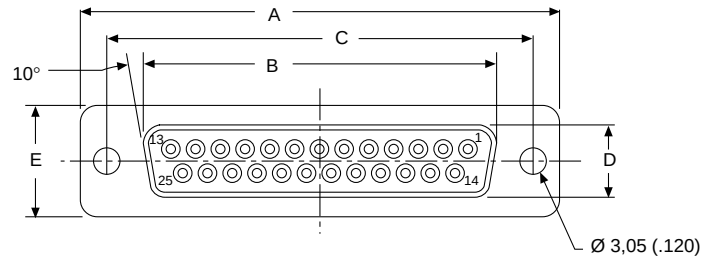
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Through Hole & Shield Can Kit	Clinch Nut #4-40 UNC & Shield Can Kit
DE	9	DEW9S*	DEWE9S*	DEW9S*G	DEWE9S*G
DA	15	DAW15S*	DAWE15S*	DAW15S*G	DAWE15S*G
DB	25	DBW25S*	DBWE25S*	DBW25S*G	DBWE25S*G
DC	37	DCW37S*	DCWE37S*	DCW37S*G	DCWE37S*G

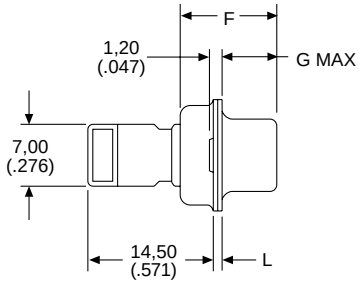
Note: *Insert contact type. Example: DEW9S1.
For contacts with 0,76 μm gold add -A176. Example: DEW9S1-A176.
For shield can kit, see page 40.

Contact Types*	Wire Accommodation
1	28 AWG/30 AWG
2	22 AWG/26 AWG
3	20 AWG/22 AWG

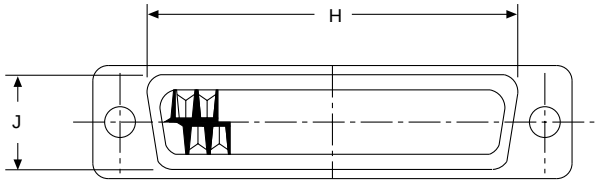
For more information, see pages 40-41.

Engaging Face





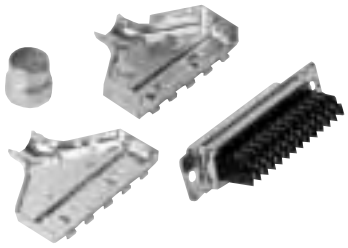
Rear Face



Dimensions

Shell Size	Layout	A ±0,38 (.015)	B ±0,12 (.005)	C ±0,12 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	G max.	H ±0,25 (.010)	J ±0,25 (.010)	L ±0,25 (.010)
DEW	9	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,89 (.429)	6,30 (.248)	19,27 (.759)	10,71 (.422)	0,76 (.030)
DAW	15	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,89 (.429)	6,30 (.248)	27,50 (1.083)	10,71 (.422)	0,76 (.030)
DBW	25	53,03 (2.048)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,89 (.429)	6,30 (.248)	41,27 (1.625)	10,71 (.422)	0,76 (.030)
DCW	37	69,32 (2.729)	55,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,89 (.429)	6,30 (.248)	57,70 (2.272)	10,71 (.422)	0,76 (.030)

Shield Can Kit

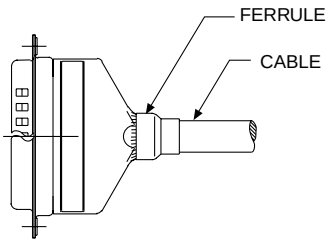


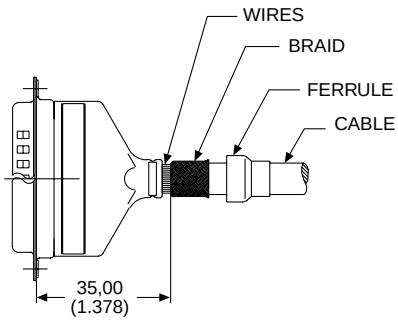
Materials and Finishes

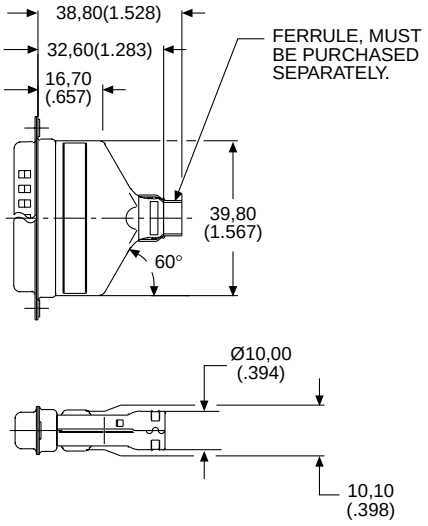
Shield Can and Ferrule	
Material:	Steel
Finish:	Tin

Ferrule

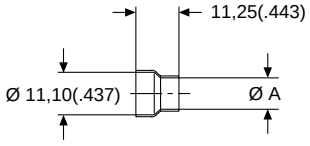
D*W	Ø Cable	Ferrule Ø A	Ferrule Part Number	Crimp Tool Part Number	Crimp Tool Position
DEW9G	4,8-5,5	6,25 (.246)	304-8810-000	D115433-1	B
	5,5-6,2	6,25 (.246)	304-8810-000	D115433-1	A
	6,2-7,2	8,20 (.323)	304-8811-000	D115433-2	B
	7,2-8,2	8,20 (.323)	304-8811-000	D115433-2	A
	8,2-9,5	11,50 (.452)	304-8812-000	D115433-3	B
	9,5-11,1	11,50 (.452)	304-8813-000	D115433-3	A
DBW25G	4,8-5,5	6,25 (.246)	304-8810-000	D115433-1	B
	5,5-6,2	6,25 (.246)	304-8810-000	D115433-1	A
	6,2-7,2	8,20 (.323)	304-8811-000	D115433-2	B
	7,2-8,2	8,20 (.323)	304-8811-000	D115433-2	A
	8,2-9,5	11,50 (.452)	304-8812-000	D115433-3	B
	9,5-11,1	11,50 (.452)	304-8813-000	D115433-3	A



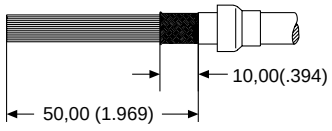




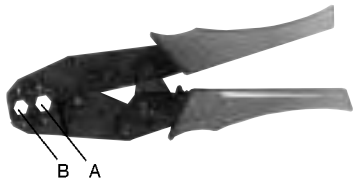
Ferrule



Wire Trim Dimensions



Crimp Tool Positions



ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Discrete Wire IDC Contacts

Contacts

Contact Types	1	2	3
Pin	330-8753-101	330-8753-102	330-8753-103
Socket	330-8754-101	330-8754-102	330-8754-103

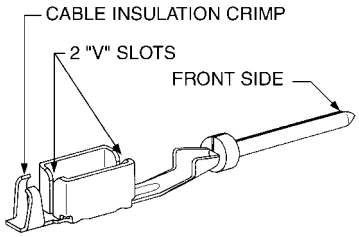
Solid Cable

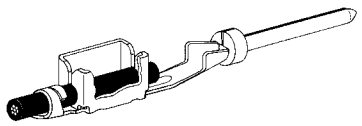
Wire Size	28 AWG	30 AWG	22 AWG	24 AWG	26 AWG	20 AWG	22 AWG
Section mm²	0.08	0.05	0.34	0.22	0.12	0.60	0.34
Internal dia. mm max	0.32	0.26	0.62	0.51	0.40	0.88	0.62
External dia. mm max	1.30	1.20	1.45	1.45	1.40	1.45	1.45

Stranded Cable

Wire Size	28 AWG	30 AWG	22 AWG	24 AWG	26 AWG	20 AWG	22 AWG
Section mm²	0.09	0.05	0.34	0.22	0.12	0.60	0.34
Composition	7 x 0.13	7 x 0.10	7 x 0.25	7 x 0.20	7 x 0.15	19 x 0.20	7 x 0.25
Internal cable dia. mm max	0.40	0.30	0.75	0.60	0.45	0.97	0.75
External wire dia. mm max	1.30	1.20	1.45	1.45	1.40	1.45	1.45

Insulation Displacement Connection Concept





Tooling

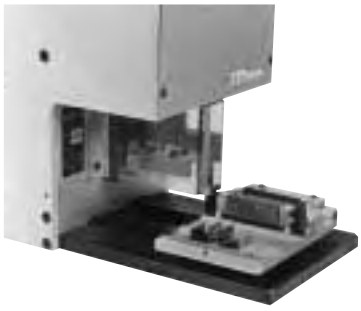
Extraction Tool

Part Number
DW115394

Hand Crimp Tool

Part Number
Standard Tool: DW115394-1
Automatic Tool: DW115394-2
Tool Support: DW115394-20

Row by Row Pneumatic Press



Part Number
DW115394-501

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♦ Connector footprint measured from front shell.
♦♦ Connector footprint measured from rear shell.

Dimensions are shown in mm (inch)
Dimensions subject to change

ITT Cannon Military/High Reliability D Subminiature connectors are used in many applications, including aerospace, transportation, communication systems, information systems and test equipment. Being the inventor of the D Subminiature connector, ITT Cannon is able to use its extensive design expertise and high quality manufacturing processes to insure the optimum performance and reliability.

The D Subminiature connectors with fixed contacts in solder cup, straight and 90° PC contact terminations are qualified to MIL-C-24308 (see cross reference, pages 142-143). These high-reliability D Subminiature connectors are the finest quality connectors available at the most competitive prices in the market.

Applications:
- Aerospace
- Transportation
- Communication Systems
- Information Systems
- Test Equipment

Product Features

- Suitable for a variety of cable and printed circuit board options
- Solder cup version accommodates wire size 20 AWG maximum
- 5 A standard current rating
- Clinch Nut and Float Mount Options

Specifications

Temperature Rating	– 55°C to 125°C
Signal Contact Current Rating	7.5 A current capacity
Signal Contact Resistance	55 millivolt max. at 7.5 test current
Signal Contact Dielectric Withstanding Voltage	1250 VAC at Sea Level
Coaxial Current Rating	5 A
Coaxial Dielectric Withstanding Voltage	1000 VAC at Sea Level
Coaxial Impedance	75Ω or 50Ω

Coaxial VSWR	Less than 1.30+ .03F for F up to 500 MHz
Coaxial Insertion Loss	.3dB loss at 500 MHz
High Power Current Rating	Up to 40 A
High Power Dielectric Withstanding Voltage	1000 VAC at Sea Level
High Voltage Current Rating	5 A
High Voltage Contact Dielectric Withstanding Voltage	2800 V at Sea Level

Materials and Finishes

Description	Material	Finish/Treatment
Shell	Steel	Yellow Chromate over Zinc (Cadmium available upon request; order code -A101)
Insulator	Polyester, UL 94V-0, Color: Green	None
Contacts (Military)	Copper Alloy	50 microinches of Gold over Nickel in mating area, Gold over Nickel on balance
Contacts (Commercial)	Copper Alloy	Gold over Nickel on mating area, Tin on balance
Dual Float Mount Hardware	Stainless Steel	Passivated
Clinch Nut Hardware	Stainless Steel with plastic insert	Passivated
Standoff	Steel	Trivalent Chromate over Zinc
Plastic Bracket	Thermoplastic, UL 94V-0	None
Metal Bracket	Steel	Zinc (Tin if boardlocks are attached)

Coaxial/High Power/High Voltage Contact Assemblies

Contacts and Outer Shells	Copper Alloy	Gold over Nickel
Ring, Retaining	Copper Alloy	Nickel
Insulator (Coaxial Only)	Teflon	None
Insulator (High Voltage Only)	Thermoplastic	None

Coaxial 90° — Standard Footprint .318♦ or .283 inch♦♦ (Sizes DE-DC)

Plug

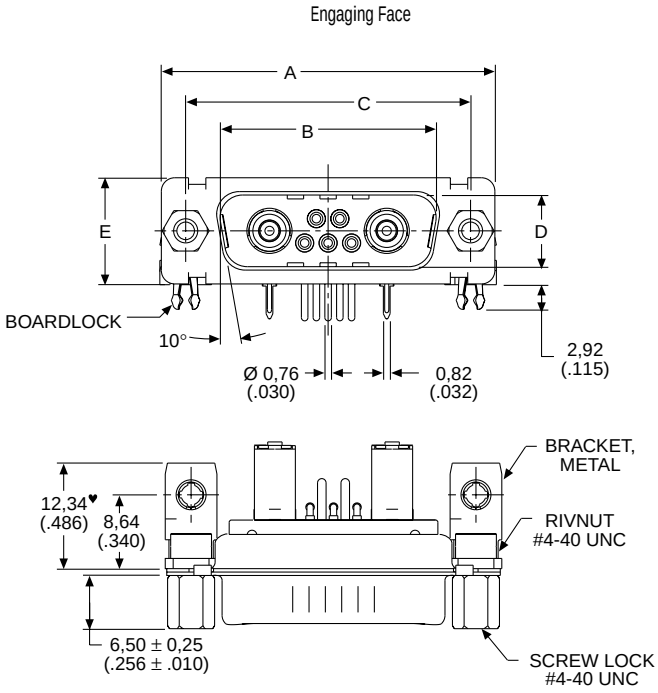
Reader's Resource

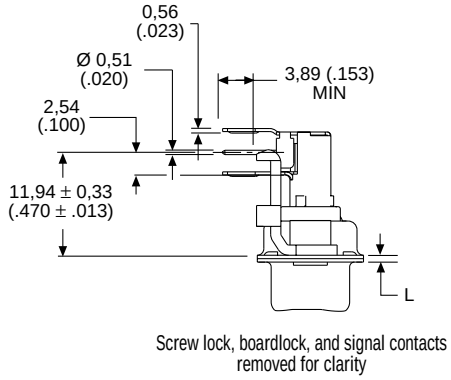
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 228-229.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Metal Bracket and Rivnut #4-40 UNC

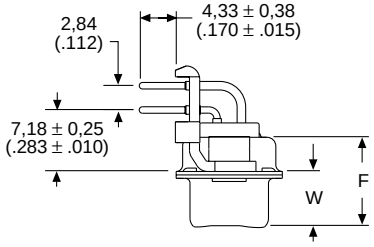
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMP5C1PJK87	DEMC5C1PJK87	DEMD5C1PJK87	DEMG5C1PJK87
DA	7W2	DAMP7C2PJK87	DAMC7C2PJK87	DAMD7C2PJK87	DAMG7C2PJK87
DA	11W1	DAMP11C1PJK87	DAMC11C1PJK87	DAMD11C1PJK87	DAMG11C1PJK87
DA	3W3	DAMP3C3PJK87	DAMC3C3PJK87	DAMD3C3PJK87	DAMG3C3PJK87
DA	3WK3♣	DAMP3CK3PJK87TM	DAMC3CK3PJK87TM	DAMD3CK3PJK87TM	DAMG3CK3PJK87TM
DB	5W5	DBMP5C5PJK87	DBMC5C5PJK87	DBMD5C5PJK87	DBMG5C5PJK87
DB	9W4	DBMP9C4PJK87	DBMC9C4PJK87	DBMD9C4PJK87	DBMG9C4PJK87
DB	13W3	DBMP13C3PJK87	DBMC13C3PJK87	DBMD13C3PJK87	DBMG13C3PJK87
DB	17W2	DBMP17C2PJK87	DBMC17C2PJK87	DBMD17C2PJK87	DBMG17C2PJK87
DB	21W1	DBMP21C1PJK87	DBMC21C1PJK87	DBMD21C1PJK87	DBMG21C1PJK87
DC	8W8	DCMP8C8PJK87	DCMC8C8PJK87	DCMD8C8PJK87	DCMG8C8PJK87
DC	13W6	DCMP13C6PJK87	DCMC13C6PJK87	DCMD13C6PJK87	DCMG13C6PJK87
DC	17W5	DCMP17C5PJK87	DCMC17C5PJK87	DCMD17C5PJK87	DCMG17C5PJK87
DC	21WA4	DCMP21CA4PJK87	DCMC21CA4PJK87	DCMD21CA4PJK87	DCMG21CA4PJK87
DC	25W3	DCMP25C3PJK87	DCMC25C3PJK87	DCMD25C3PJK87	DCMG25C3PJK87
DC	27W2	DCMP27C2PJK87	DCMC27C2PJK87	DCMD27C2PJK87	DCMG27C2PJK87

Notes: * For 50 Ohm Coaxial substitute X for C. Example: DEMP5X1PJK87
For contacts with 30 microinches gold substitute K127 for K87. Example: DEMP5C1PJK127
For DD shell sizes, see page 46.
♣ Keyed.





Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and coaxial contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

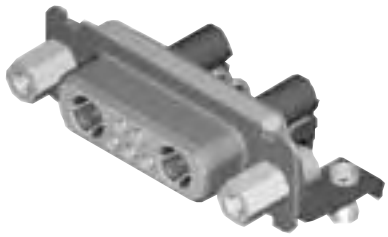
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Coaxial 90° — Standard Footprint .318♦ or .283 inch♦♦ (Sizes DE-DC)

Receptacle



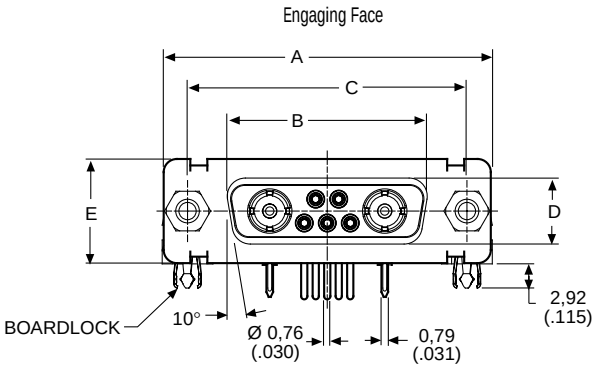
Reader's Resource

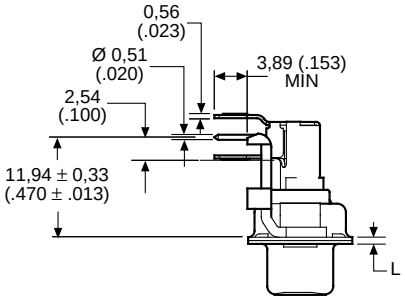
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 231-232.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Metal Bracket and Rivnut #4-40 UNC

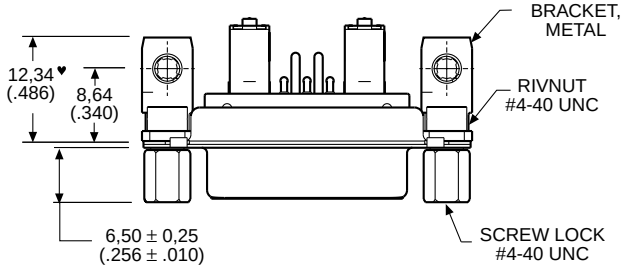
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMP5C1SJA197	DEMC5C1SJA197	DEMD5C1SJA197	DEMG5C1SJA197
DA	7W2	DAMP7C2SJA197	DAMC7C2SJA197	DAMD7C2SJA197	DAMG7C2SJA197
DA	11W1	DAMP11C1SJA197	DAMC11C1SJA197	DAMD11C1SJA197	DAMG11C1SJA197
DA	3W3	DAMP3C3SJA197	DAMC3C3SJA197	DAMD3C3SJA197	DAMG3C3SJA197
DA	3WK3♣	DAMP3CK3SJA197TM	DAMC3CK3SJA197TM	DAMD3CK3SJA197TM	DAMG3CK3SJA197TM
DB	5W5	DBMP5C5SJA197	DBMC5C5SJA197	DBMD5C5SJA197	DBMG5C5SJA197
DB	9W4	DBMP9C4SJA197	DBMC9C4SJA197	DBMD9C4SJA197	DBMG9C4SJA197
DB	13W3	DBMP13C3SJA197	DBMC13C3SJA197	DBMD13C3SJA197	DBMG13C3SJA197
DB	17W2	DBMP17C2SJA197	DBMC17C2SJA197	DBMD17C2SJA197	DBMG17C2SJA197
DB	21W1	DBMP21C1SJA197	DBMC21C1SJA197	DBMD21C1SJA197	DBMG21C1SJA197
DC	8W8	DCMP8C8SJA197	DCMC8C8SJA197	DCMD8C8SJA197	DCMG8C8SJA197
DC	13W6	DCMP13C6SJA197	DCMC13C6SJA197	DCMD13C6SJA197	DCMG13C6SJA197
DC	17W5	DCMP17C5SJA197	DCMC17C5SJA197	DCMD17C5SJA197	DCMG17C5SJA197
DC	21WA4	DCMP21CA4SJA197	DCMC21CA4SJA197	DCMD21CA4SJA197	DCMG21CA4SJA197
DC	25W3	DCMP25C3SJA197	DCMC25C3SJA197	DCMD25C3SJA197	DCMG25C3SJA197
DC	27W2	DCMP27C2SJA197	DCMC27C2SJA197	DCMD27C2SJA197	DCMG27C2SJA197

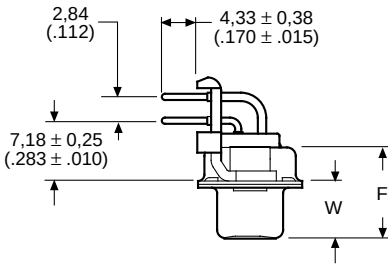
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DEMP5X1SJA197
For contacts with 30 microinches gold substitute K126 for A197. Example: DEMP5C1SJK126
For DD Shell Sizes, see page 47.
♣ Keyed.





Screw lock, boardlock and signal contacts removed for clarity





Screw lock, boardlock and coaxial contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, See Reader's Resource page 226.

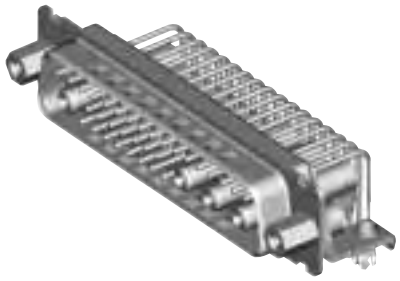
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47.04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

Coaxial 90° — Standard Footprint .489♦ or .454 inch♦♦ (Size DD)

Plug



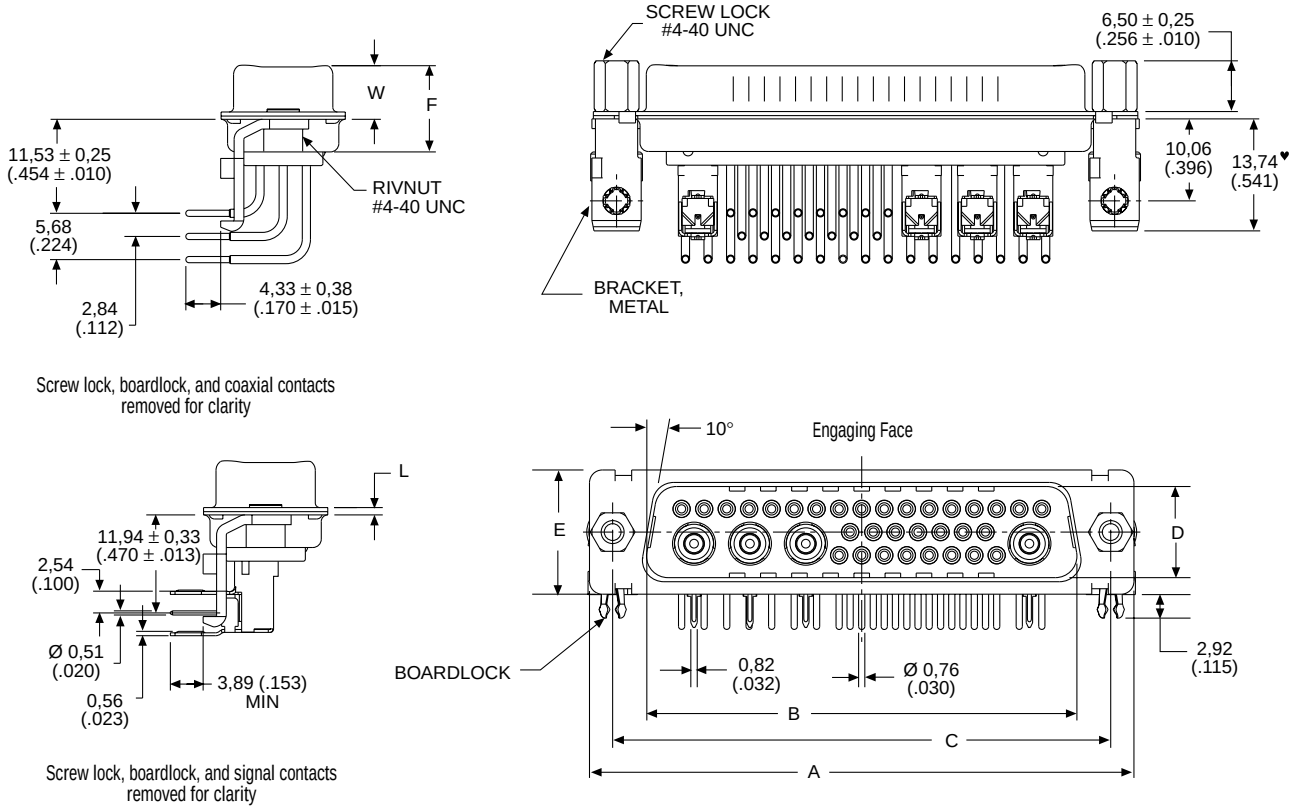
75 Ohm Part Numbers* with Metal Bracket and Rivnut #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMP24C7PJK87	DDMC24C7PJK87	DDMD24C7PJK87	DDMG24C7PJK87
DD	36W4	DDMP36C4PJK87	DDMC36C4PJK87	DDMD36C4PJK87	DDMG36C4PJK87
DD	43W2	DDMP43C2PJK87	DDMC43C2PJK87	DDMD43C2PJK87	DDMG43C2PJK87
DD	47W1	DDMP47C1PJK87	DDMC47C1PJK87	DDMD47C1PJK87	DDMG47C1PJK87

Notes: * For 50 Ohm Coaxial substitute X for C. Example: DDMG36X4PJK87
For contacts with 30 microinches gold substitute K127 for K87. Example: DDMP24C7PJK127

Reader's Resource

For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 230.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.



Note: ♥ Dimension varies with alternate bracket configuration, See Reader's Resource page 226.

Dimensions

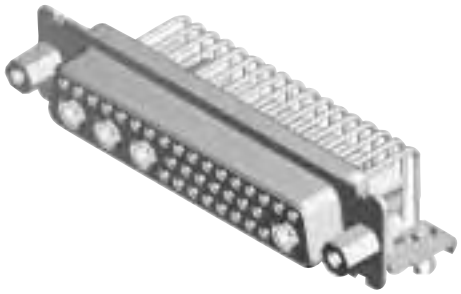
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

Dimensions are shown in mm (inch)
Dimensions subject to change

Coaxial 90° — Standard Footprint .489♦ or .454 inch♦♦ (Size DD)

Receptacle



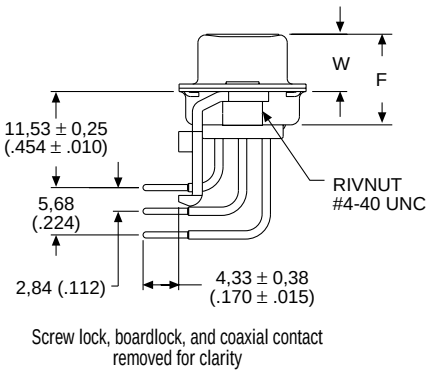
75 Ohm Part Numbers* with Metal Bracket and Rivnut #4-40 UNC

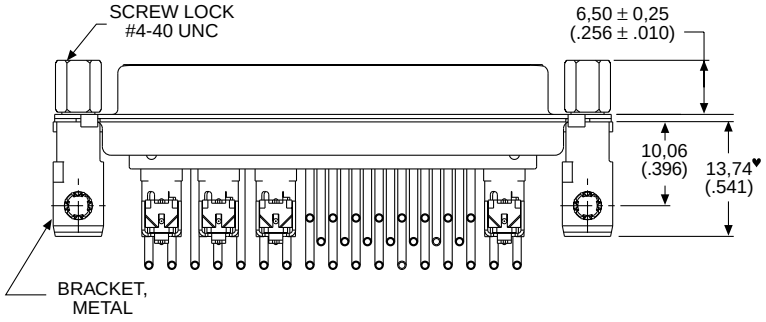
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMP24C7SJA197	DDMC24C7SJA197	DDMD24C7SJA197	DDMG24C7SJA197
DD	36W4	DDMP36C4SJA197	DDMC36C4SJA197	DDMD36C4SJA197	DDMG36C4SJA197
DD	43W2	DDMP43C2SJA197	DDMC43C2SJA197	DDMD43C2SJA197	DDMG43C2SJA197
DD	47W1	DDMP47C1SJA197	DDMC47C1SJA197	DDMD47C1SJA197	DDMG47C1SJA197

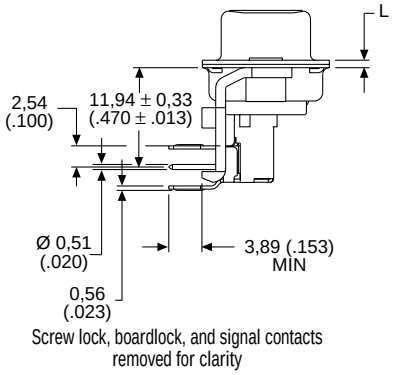
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DDMG36X4SJA197
For contacts with 30 microinches gold substitute K126 for A197. Example: DDMP24C7SJK126

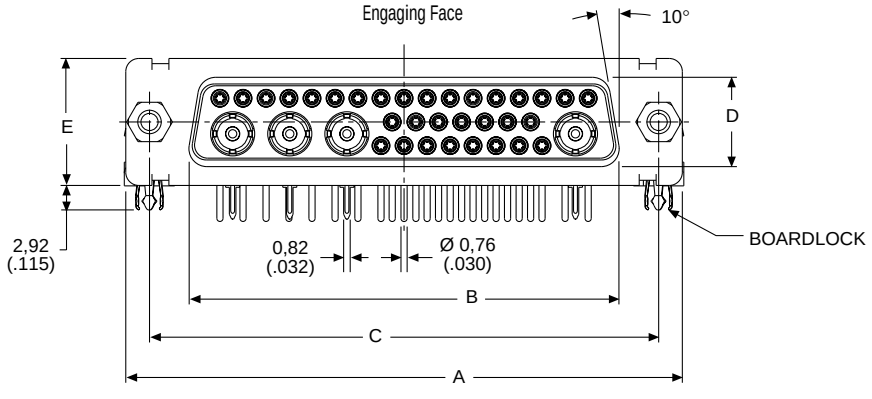
Reader's Resource

For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 233.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.









Note: ♥ Dimension varies with alternate bracket configuration, See Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

13C3 Special — Receptacle only

Receptacle

Finishes

Signal and Coaxial
Center Contact Finish: 30 μ inches Gold.

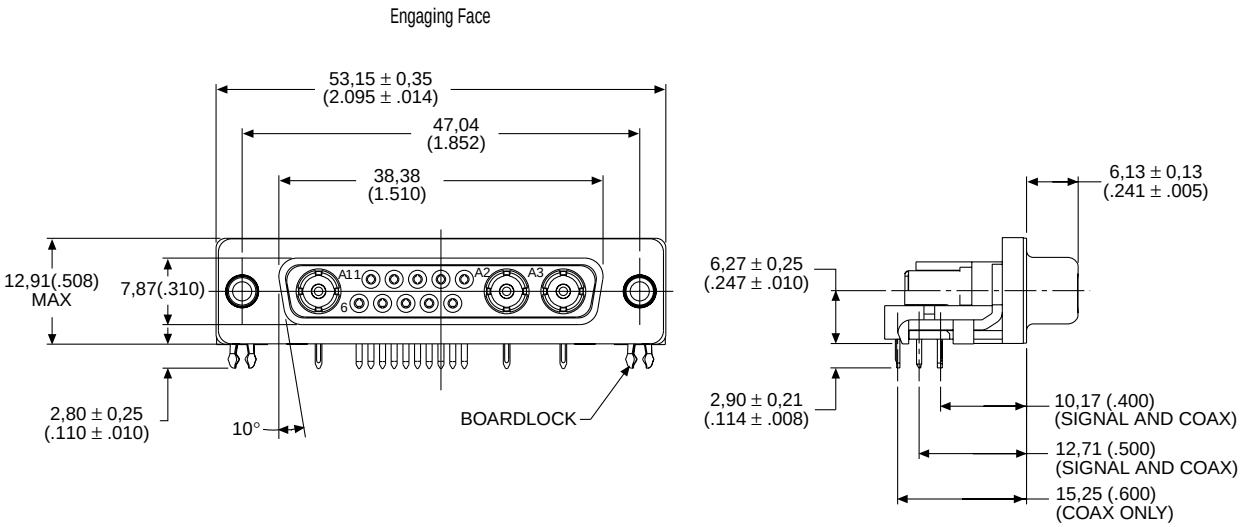
Note: For additional materials and finishes, see introduction page 43.

Part Number

DB111949-43

Reader's Resource

For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 236 (Rear shell REF. is 0,76 (.030) from front shell).
For panel cutouts, see page 221.



ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

3C3 Shielded Special — Receptacle only

Receptacle

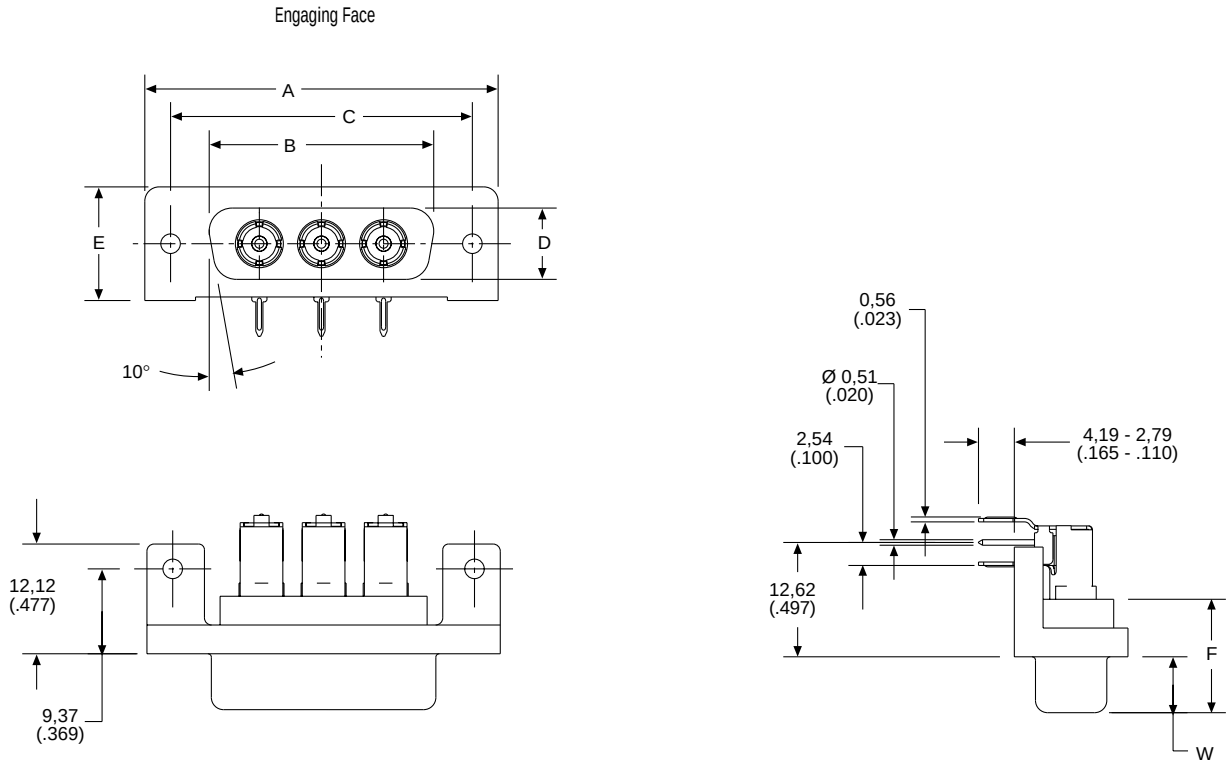
Materials and Finishes	
Body Material:	Zinc
Body Finish:	Tin
Coaxial Center Contact Finish:	30 μ inches Gold

Note: For additional materials and finishes, see introduction page 43.

Part Number
DAM53512-1405

Reader's Resource

For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 231.
For panel cutouts, see page 221.



Note: Connector supplied with boardlocks.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,25 (.010)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,17 (.243)

Coaxial 90° — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DC)

Plug

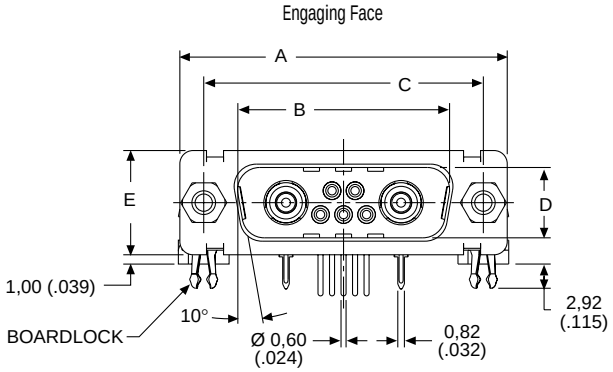
Reader's Resource

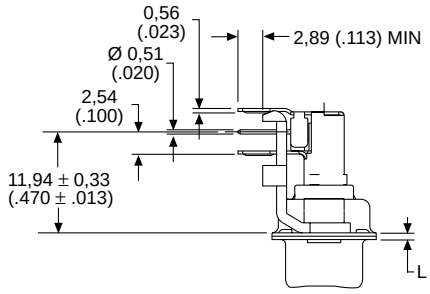
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 234-235.
For panel cutouts, see page 221.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Metal Bracket and Rivnut #4-40 UNC

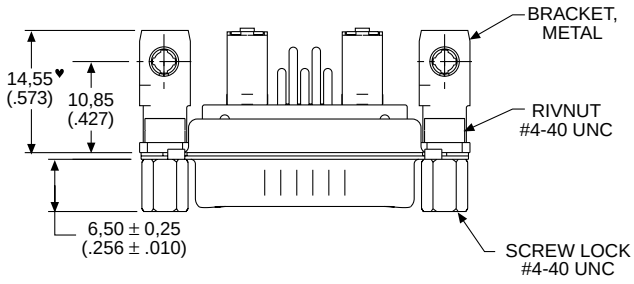
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMP5C1PVK87	DEMC5C1PVK87	DEMD5C1PVK87	DEMG5C1PVK87
DA	7W2	DAMP7C2PVK87	DAMC7C2PVK87	DAMD7C2PVK87	DAMG7C2PVK87
DA	11W1	DAMP11C1PVK87	DAMC11C1PVK87	DAMD11C1PVK87	DAMG11C1PVK87
DA	3W3	DAMP3C3PVK87	DAMC3C3PVK87	DAMD3C3PVK87	DAMG3C3PVK87
DA	3WK3♣	DAMP3CK3PVK87TM	DAMC3CK3PVK87TM	DAMD3CK3PVK87TM	DAMG3CK3PVK87TM
DB	5W5	DBMP5C5PVK87	DBMC5C5PVK87	DBMD5C5PVK87	DBMG5C5PVK87
DB	9W4	DBMP9C4PVK87	DBMC9C4PVK87	DBMD9C4PVK87	DBMG9C4PVK87
DB	13W3	DBMP13C3PVK87	DBMC13C3PVK87	DBMD13C3PVK87	DBMG13C3PVK87
DB	17W2	DBMP17C2PVK87	DBMC17C2PVK87	DBMD17C2PVK87	DBMG17C2PVK87
DB	21W1	DBMP21C1PVK87	DBMC21C1PVK87	DBMD21C1PVK87	DBMG21C1PVK87
DC	8W8	DCMP8C8PVK87	DCMC8C8PVK87	DCMD8C8PVK87	DCMG8C8PVK87
DC	13W6	DCMP13C6PVK87	DCMC13C6PVK87	DCMD13C6PVK87	DCMG13C6PVK87
DC	17W5	DCMP17C5PVK87	DCMC17C5PVK87	DCMD17C5PVK87	DCMG17C5PVK87
DC	21WA4	DCMP21CA4PVK87	DCMC21CA4PVK87	DCMD21CA4PVK87	DCMG21CA4PVK87
DC	25W3	DCMP25C3PVK87	DCMC25C3PVK87	DCMD25C3PVK87	DCMG25C3PVK87
DC	27W2	DCMP27C2PVK87	DCMC27C2PVK87	DCMD27C2PVK87	DCMG27C2PVK87

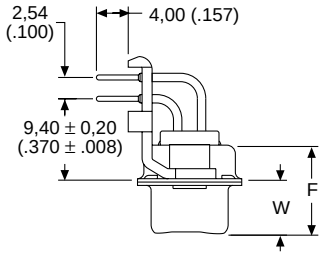
For M3 threads replace MP with MS, MC with ML, MD with MO, MG with MJ.
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DEMP5X1PVK87
For tin plated PC tails add A226 (signal contacts only). Example: DEMP5C1PVK87A226
For performance class 2 substitute K127 for K87. Example: DEMP5C1PVK127
For DD shell sizes (Standard footprint) see page 46.
♣ Keyed.





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and coaxial contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon
Dimensions are shown in mm (inch)
Dimensions subject to change

Coaxial 90° — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DC)

Receptacle

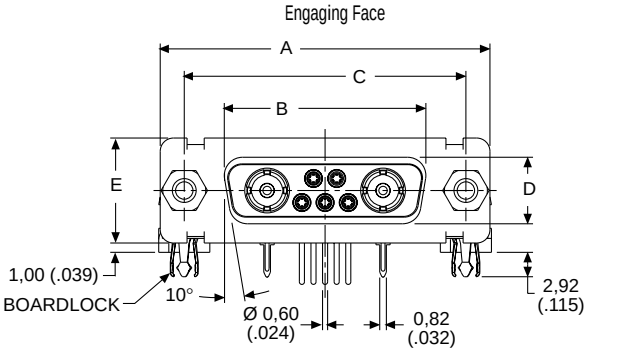
Reader's Resource

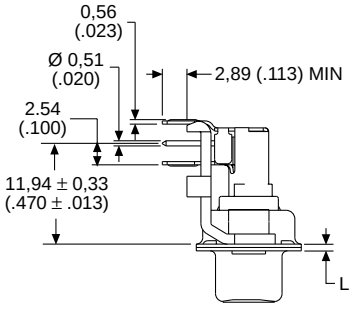
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 236-237.
For panel cutouts, see page 221.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Metal Bracket and Rivnut #4-40 UNC

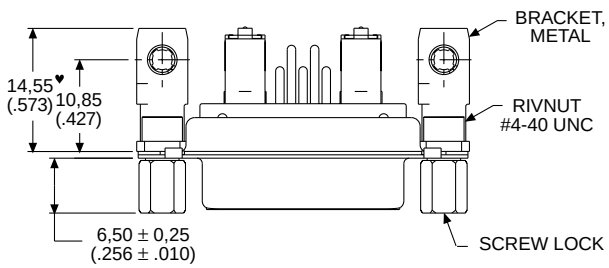
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMP5C1SVA197	DEMC5C1SVA197	DEMD5C1SVA197	DEMG5C1SVA197
DA	7W2	DAMP7C2SVA197	DAMC7C2SVA197	DAMD7C2SVA197	DAMG7C2SVA197
DA	11W1	DAMP11C1SVA197	DAMC11C1SVA197	DAMD11C1SVA197	DAMG11C1SVA197
DA	3W3	DAMP3C3SVA197	DAMC3C3SVA197	DAMD3C3SVA197	DAMG3C3SVA197
DA	3WK3♣	DAMP3CK3SVA197TM	DAMC3CK3SVA197TM	DAMD3CK3SVA197TM	DAMG3CK3SVA197TM
DB	5W5	DBMP5C5SVA197	DBMC5C5SVA197	DBMD5C5SVA197	DBMG5C5SVA197
DB	9W4	DBMP9C4SVA197	DBMC9C4SVA197	DBMD9C4SVA197	DBMG9C4SVA197
DB	13W3	DBMP13C3SVA197	DBMC13C3SVA197	DBMD13C3SVA197	DBMG13C3SVA197
DB	17W2	DBMP17C2SVA197	DBMC17C2SVA197	DBMD17C2SVA197	DBMG17C2SVA197
DB	21W1	DBMP21C1SVA197	DBMC21C1SVA197	DBMD21C1SVA197	DBMG21C1SVA197
DC	8W8	DCMP8C8SVA197	DCMC8C8SVA197	DCMD8C8SVA197	DCMG8C8SVA197
DC	13W6	DCMP13C6SVA197	DCMC13C6SVA197	DCMD13C6SVA197	DCMG13C6SVA197
DC	17W5	DCMP17C5SVA197	DCMC17C5SVA197	DCMD17C5SVA197	DCMG17C5SVA197
DC	21WA4	DCMP21CA4SVA197	DCMC21CA4SVA197	DCMD21CA4SVA197	DCMG21CA4SVA197
DC	25W3	DCMP25C3SVA197	DCMC25C3SVA197	DCMD25C3SVA197	DCMG25C3SVA197
DC	27W2	DCMP27C2SVA197	DCMC27C2SVA197	DCMD27C2SVA197	DCMG27C2SVA197

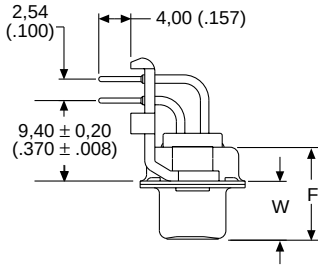
For M3 threads replace MP with MS, MC with ML, MD with MO, MG with MJ.
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DEMP5X1SVA197
For performance class 2 substitute K126 for A197. Example: DEMP5C1SVK126
For DD shell sizes (standard footprint) see page 47.
♣ Keyed.





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and coaxial contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

Coaxial Straight — Standard PC Tails (Sizes DE-DC)

Plug

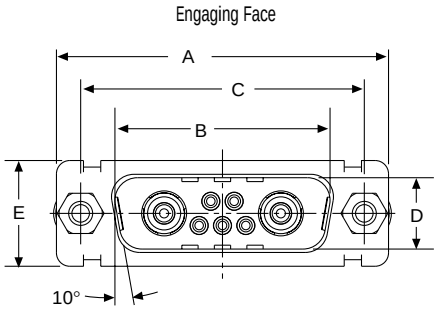
Reader's Resource

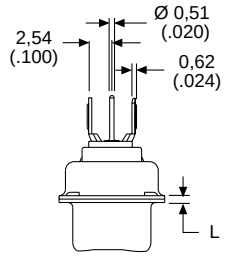
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 238-239.
For panel cutouts, see page 221.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Standoff #4-40 UNC

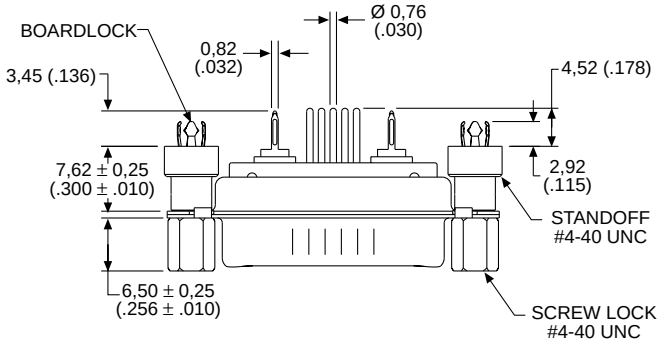
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMV5C1PNK87	DEMZ5C1PNK87	DEMN5C1PNK87
DA	7W2	DAMV7C2PNK87	DAMZ7C2PNK87	DAMN7C2PNK87
DA	11W1	DAMV11C1PNK87	DAMZ11C1PNK87	DAMN11C1PNK87
DA	3W3	DAMV3C3PNK87	DAMZ3C3PNK87	DAMN3C3PNK87
DA	3WK3♣	DAMV3CK3PNK87TM	DAMZ3CK3PNK87TM	DAMN3CK3PNK87TM
DB	5W5	DBMV5C5PNK87	DBMZ5C5PNK87	DBMN5C5PNK87
DB	9W4	DBMV9C4PNK87	DBMZ9C4PNK87	DBMN9C4PNK87
DB	13W3	DBMV13C3PNK87	DBMZ13C3PNK87	DBMN13C3PNK87
DB	17W2	DBMV17C2PNK87	DBMZ17C2PNK87	DBMN17C2PNK87
DB	21W1	DBMV21C1PNK87	DBMZ21C1PNK87	DBMN21C1PNK87
DC	8W8	DCMV8C8PNK87	DCMZ8C8PNK87	DCMN8C8PNK87
DC	13W6	DCMV13C6PNK87	DCMZ13C6PNK87	DCMN13C6PNK87
DC	17W5	DCMV17C5PNK87	DCMZ17C5PNK87	DCMN17C5PNK87
DC	21WA4	DCMV21CA4PNK87	DCMZ21CA4PNK87	DCMN21CA4PNK87
DC	25W3	DCMV25C3PNK87	DCMZ25C3PNK87	DCMN25C3PNK87
DC	27W2	DCMV27C2PNK87	DCMZ27C2PNK87	DCMN27C2PNK87

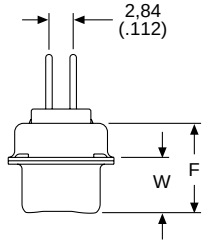
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DEMV5X1PNK87
For contacts with 30 microinches gold substitute K127 for K87. Example: DEMN5C1PNK127
For DD shell sizes, see page 54.
♣ Keyed.





Screw lock, boardlock, and signal contacts removed for clarity





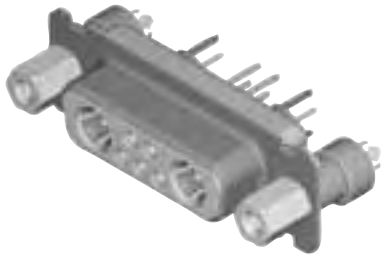
Screw lock, boardlock, and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

Coaxial Straight — Standard PC Tails (Sizes DE-DC)

Receptacle



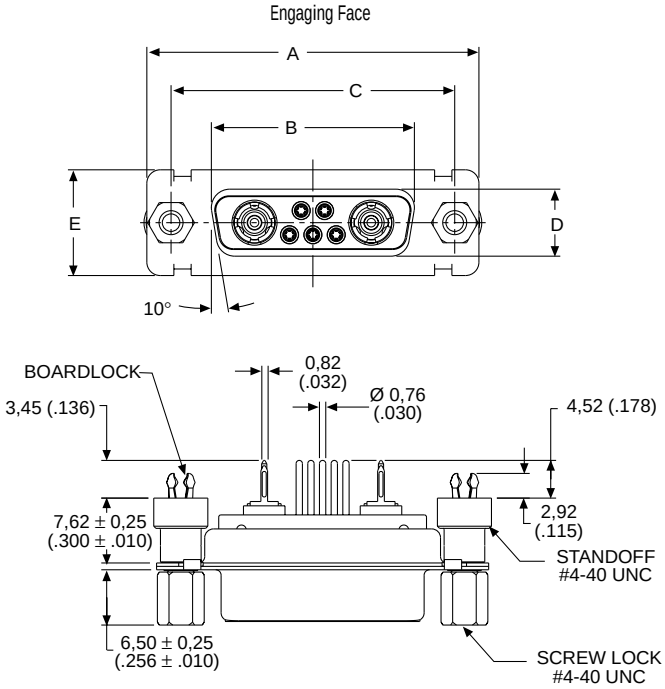
Reader's Resource

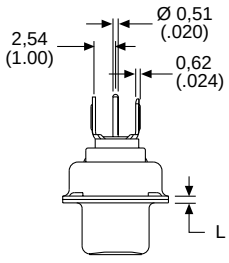
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 241-242.
For panel cutouts, see page 221.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Standoff #4-40 UNC

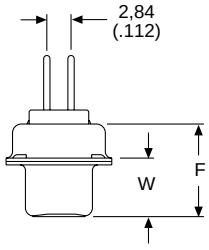
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMV5C1SNA197	DEMZ5C1SNA197	DEMN5C1SNA197
DA	7W2	DAMV7C2SNA197	DAMZ7C2SNA197	DAMN7C2SNA197
DA	11W1	DAMV11C1SNA197	DAMZ11C1SNA197	DAMN11C1SNA197
DA	3W3	DAMV3C3SNA197	DAMZ3C3SNA197	DAMN3C3SNA197
DA	3WK3♣	DAMV3CK3SNA197TM	DAMZ3CK3SNA197TM	DAMN3CK3SNA197TM
DB	5W5	DBMV5C5SNA197	DBMZ5C5SNA197	DBMN5C5SNA197
DB	9W4	DBMV9C4SNA197	DBMZ9C4SNA197	DBMN9C4SNA197
DB	13W3	DBMV13C3SNA197	DBMZ13C3SNA197	DBMN13C3SNA197
DB	17W2	DBMV17C2SNA197	DBMZ17C2SNA197	DBMN17C2SNA197
DB	21W1	DBMV21C1SNA197	DBMZ21C1SNA197	DBMN21C1SNA197
DC	8W8	DCMV8C8SNA197	DCMZ8C8SNA197	DCMN8C8SNA197
DC	13W6	DCMV13C6SNA197	DCMZ13C6SNA197	DCMN13C6SNA197
DC	17W5	DCMV17C5SNA197	DCMZ17C5SNA197	DCMN17C5SNA197
DC	21WA4	DCMV21CA4SNA197	DCMZ21CA4SNA197	DCMN21CA4SNA197
DC	25W3	DCMV25C3SNA197	DCMZ25C3SNA197	DCMN25C3SNA197
DC	27W2	DCMV27C2SNA197	DCMZ27C2SNA197	DCMN27C2SNA197

Notes: * For 50 Ohm Coaxial substitute X for C. Example: DEMV5X1SNA197
For contacts with 30 microinches gold substitute K126 for A197. Example: DEMN5C1SNK126
For DD shell sizes, see page 55.
♣ Keyed.





Hardware and signal contacts removed for clarity



Hardware and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F 0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Coaxial Straight — Standard PC Tails (Size DD)

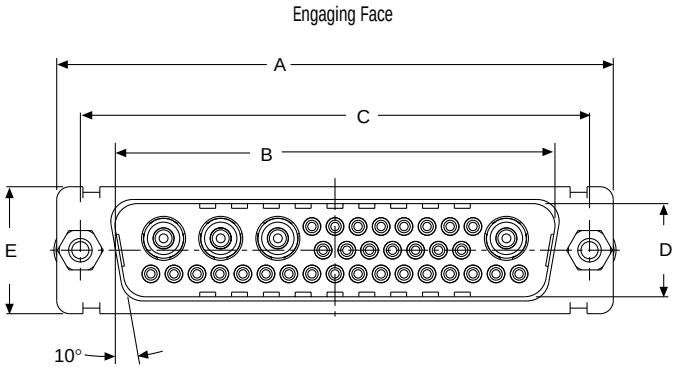
Plug

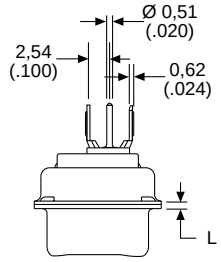
75 Ohm Part Numbers* with Standoff #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMV24C7PNK87	DDMZ24C7PNK87	DDMN24C7PNK87
DD	36W4	DDMV36C4PNK87	DDMZ36C4PNK87	DDMN36C4PNK87
DD	43W2	DDMV43C2PNK87	DDMZ43C2PNK87	DDMN43C2PNK87
DD	47W1	DDMV47C1PNK87	DDMZ47C1PNK87	DDMN47C1PNK87

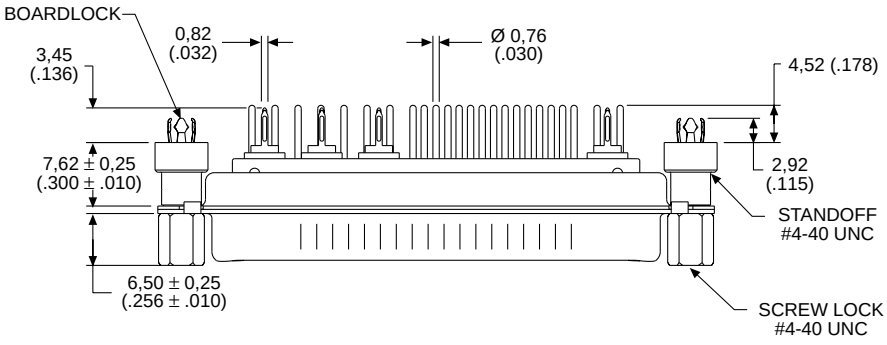
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DDMV24X7PNK87
For contacts with 30 microinches gold substitute K127 for K87. Example: DDMN24C7PNK127

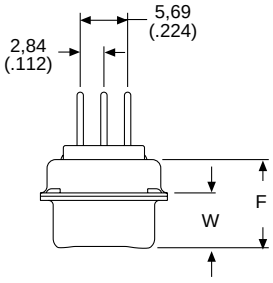
Reader's Resource
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 240.
For panel cutouts, see page 221.
For alternate 50 Ohm coaxial configuration, see page 225.





Hardware and signal contacts removed for clarity





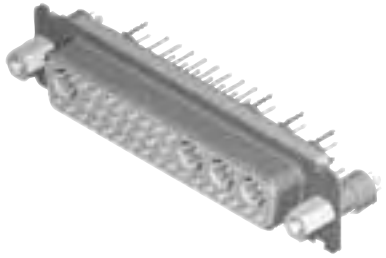
Hardware and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

Coaxial Straight — Standard PC Tails (Size DD)

Receptacle



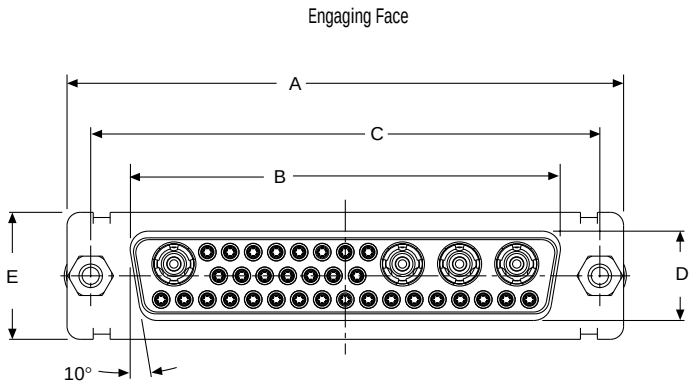
75 Ohm Part Numbers* with Standoff #4-40 UNC

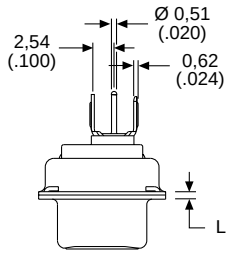
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMV24C7SNA197	DDMZ24C7SNA197	DDMN24C7SNA197
DD	36W4	DDMV36C4SNA197	DDMZ36C4SNA197	DDMN36C4SNA197
DD	43W2	DDMV43C2SNA197	DDMZ43C2SNA197	DDMN43C2SNA197
DD	47W1	DDMV47C1SNA197	DDMZ47C1SNA197	DDMN47C1SNA197

Notes: * For 50 Ohm Coaxial substitute X for C. Example: DDMV24X7SNA197
For contacts with 30 microinches gold substitute K126 for A197. Example: DDMN24C7SNK126

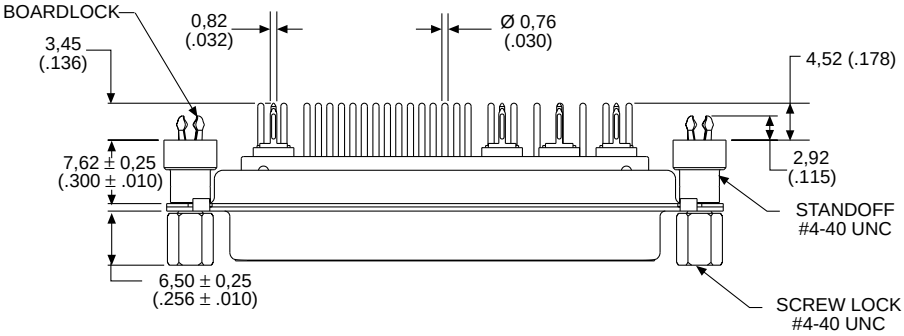
Reader's Resource

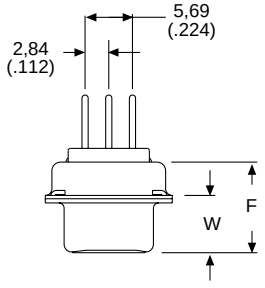
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 243.
For panel cutouts, see page 221.
For alternate 50 Ohm coaxial configuration, see page 225.





Hardware and signal contacts removed for clarity





Hardware and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Coaxial Straight — European PC Tails (Sizes DE-DC)

Plug

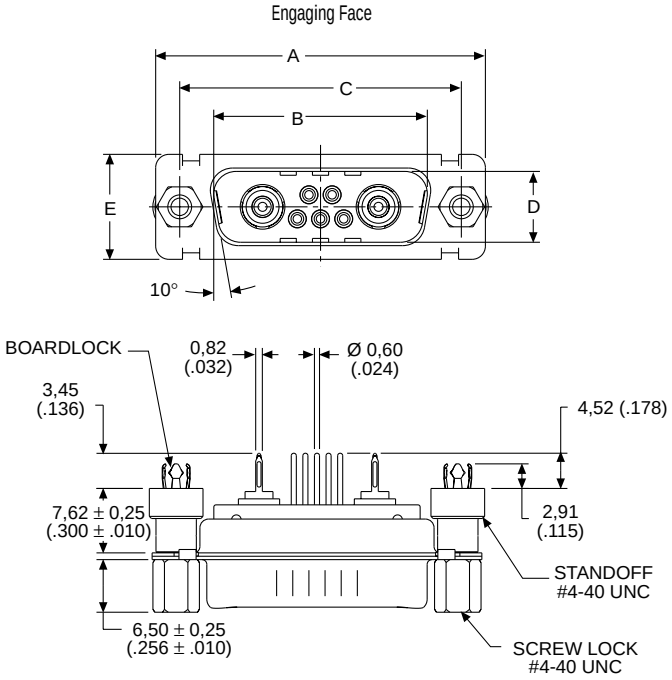
Reader's Resource

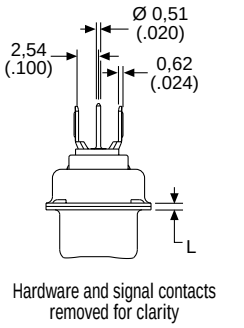
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 238-239.
For panel cutouts, see page 221.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Standoff #4-40 UNC

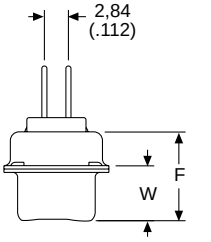
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMV5C1PYK87	DEMZ5C1PYK87	DEMN5C1PYK87
DA	7W2	DAMV7C2PYK87	DAMZ7C2PYK87	DAMN7C2PYK87
DA	11W1	DAMV11C1PYK87	DAMZ11C1PYK87	DAMN11C1PYK87
DA	3W3	DAMV3C3PYK87	DAMZ3C3PYK87	DAMN3C3PYK87
DA	3WK3♣	DAMV3CK3PYK87TM	DAMZ3CK3PYK87TM	DAMN3CK3PYK87TM
DB	5W5	DBMV5C5PYK87	DBMZ5C5PYK87	DBMN5C5PYK87
DB	9W4	DBMV9C4PYK87	DBMZ9C4PYK87	DBMN9C4PYK87
DB	13W3	DBMV13C3PYK87	DBMZ13C3PYK87	DBMN13C3PYK87
DB	17W2	DBMV17C2PYK87	DBMZ17C2PYK87	DBMN17C2PYK87
DB	21W1	DBMV21C1PYK87	DBMZ21C1PYK87	DBMN21C1PYK87
DC	8W8	DCMV8C8PYK87	DCMZ8C8PYK87	DCMN8C8PYK87
DC	13W6	DCMV13C6PYK87	DCMZ13C6PYK87	DCMN13C6PYK87
DC	17W5	DCMV17C5PYK87	DCMZ17C5PYK87	DCMN17C5PYK87
DC	21WA4	DCMV21CA4PYK87	DCMZ21CA4PYK87	DCMN21CA4PYK87
DC	25W3	DCMV25C3PYK87	DCMZ25C3PYK87	DCMN25C3PYK87
DC	27W2	DCMV27C2PYK87	DCMZ27C2PYK87	DCMN27C2PYK87

For M3 threads replace MV with MT, MZ with MQ, MN with MU.
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DEMV5X1PYK87
For tin plated PC tails add A226 (signal contacts only). Example: DEMV5C1PYK87A226
For performance class 2 substitute K127 for K87. Example: DEMV5C1PYK127
For DD shell sizes, see page 58.
♣ Keyed.





Hardware and signal contacts removed for clarity



Hardware and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

Coaxial Straight — European PC Tails (Sizes DE-DC)

Receptacle

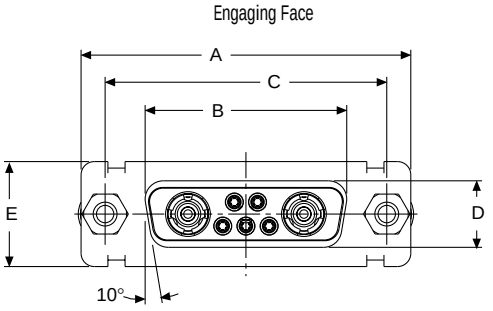
Reader's Resource

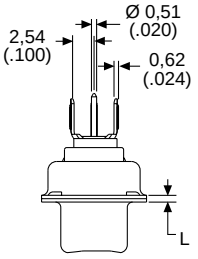
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 241-242.
For panel cutouts, see page 221.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Standoff #4-40 UNC

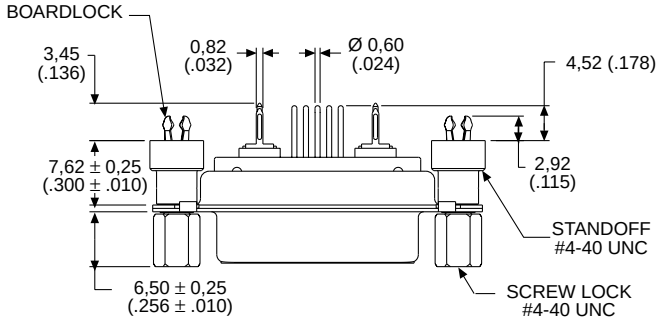
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMV5C1SYA197	DEMZ5C1SYA197	DEMN5C1SYA197
DA	7W2	DAMV7C2SYA197	DAMZ7C2SYA197	DAMN7C2SYA197
DA	11W1	DAMV11C1SYA197	DAMZ11C1SYA197	DAMN11C1SYA197
DA	3W3	DAMV3C3SYA197	DAMZ3C3SYA197	DAMN3C3SYA197
DA	3WK3♣	DAMV3CK3SYA197TM	DAMZ3CK3SYA197TM	DAMN3CK3SYA197TM
DB	5W5	DBMV5C5SYA197	DBMZ5C5SYA197	DBMN5C5SYA197
DB	9W4	DBMV9C4SYA197	DBMZ9C4SYA197	DBMN9C4SYA197
DB	13W3	DBMV13C3SYA197	DBMZ13C3SYA197	DBMN13C3SYA197
DB	17W2	DBMV17C2SYA197	DBMZ17C2SYA197	DBMN17C2SYA197
DB	21W1	DBMV21C1SYA197	DBMZ21C1SYA197	DBMN21C1SYA197
DC	8W8	DCMV8C8SYA197	DCMZ8C8SYA197	DCMN8C8SYA197
DC	13W6	DCMV13C6SYA197	DCMZ13C6SYA197	DCMN13C6SYA197
DC	17W5	DCMV17C5SYA197	DCMZ17C5SYA197	DCMN17C5SYA197
DC	21WA4	DCMV21CA4SYA197	DCMZ21CA4SYA197	DCMN21CA4SYA197
DC	25W3	DCMV25C3SYA197	DCMZ25C3SYA197	DCMN25C3SYA197
DC	27W2	DCMV27C2SYA197	DCMZ27C2SYA197	DCMN27C2SYA197

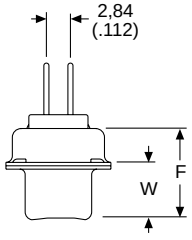
For M3 threads replace MV with MT, MZ with MQ, MN with MU.
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DEMV5X1SYA197
For performance class 2 substitute K126 for A197. Example: DEMV5C1SYK126
For DD shell sizes, see page 59.
♣ Keyed.





Hardware and signal contacts removed for clarity





Hardware and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0.38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Coaxial Straight — European PC Tails (Size DD)

Plug

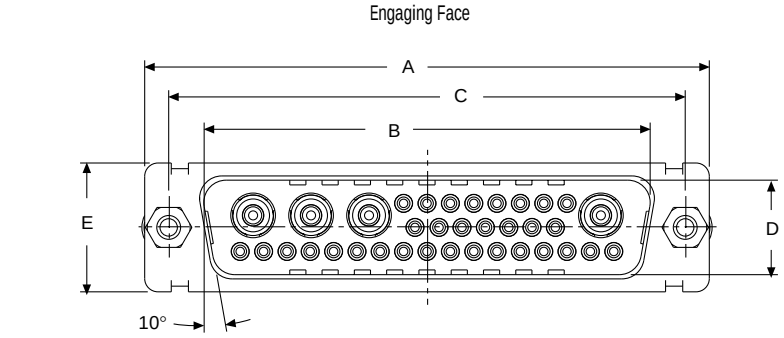
75 Ohm Part Numbers* with Standoff #4-40 UNC

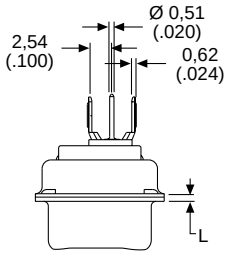
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMV24C7PYK87	DDMZ24C7PYK87	DDMN24C7PYK87
DD	36W4	DDMV36C4PYK87	DDMZ36C4PYK87	DDMN36C4PYK87
DD	43W2	DDMV43C2PYK87	DDMZ43C2PYK87	DDMN43C2PYK87
DD	47W1	DDMV47C1PYK87	DDMZ47C1PYK87	DDMN47C1PYK87

For M3 threads replace MV with MT, MZ with MQ, MN with MU.
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DDMV24X7PYK87
For tin plated PC tails add A226 (signal contacts only). Example: DDMV24C7PYK87A226
For performance class 2 substitute K127 for K87. Example: DDMV24C7PYK127

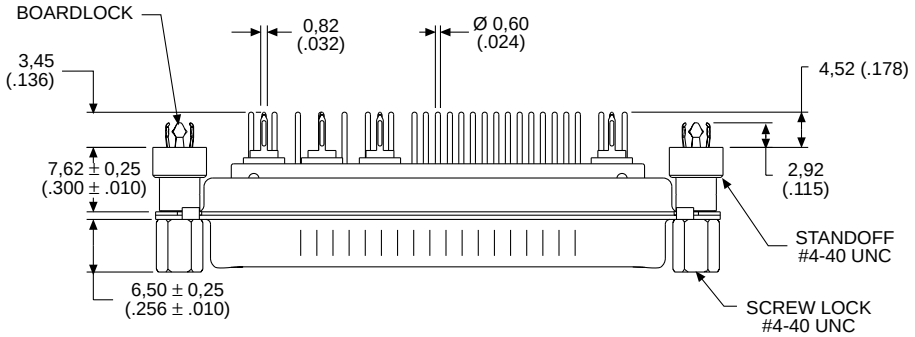
Reader's Resource

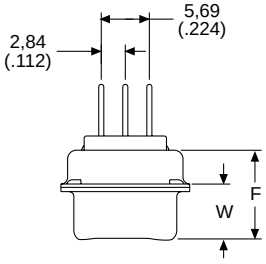
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 240.
For panel cutouts, see page 221.
For alternate 50 Ohm coaxial configuration, see page 225.





Hardware and signal contacts removed for clarity





Hardware and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

Coaxial Straight — European PC Tails (Size DD)

Receptacle

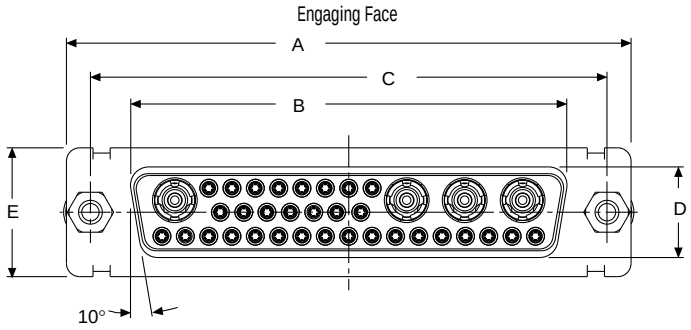
75 Ohm Part Numbers* with Standoff #4-40 UNC

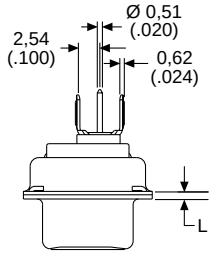
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMV24C7SYA197	DDMZ24C7SYA197	DDMN24C7SYA197
DD	36W4	DDMV36C4SYA197	DDMZ36C4SYA197	DDMN36C4SYA197
DD	43W2	DDMV43C2SYA197	DDMZ43C2SYA197	DDMN43C2SYA197
DD	47W1	DDMV47C1SYA197	DDMZ47C1SYA197	DDMN47C1SYA197

For M3 threads replace MV with MT, MZ with MQ, MN with MU.
Notes: * For 50 Ohm Coaxial substitute X for C. Example: DDMV24X7SYA197
For performance class 2 substitute K126 for A197. Example: DDMV24C7SYK126

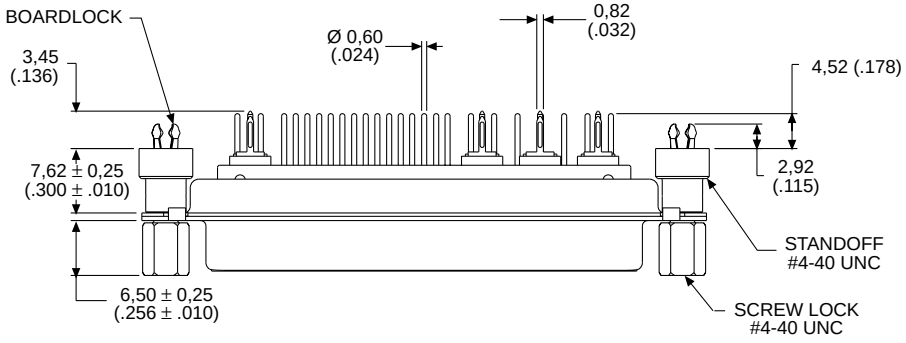
Reader's Resource

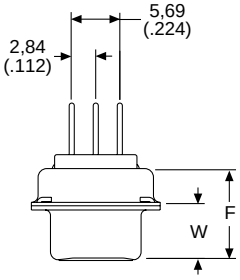
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 243.
For panel cutouts, see page 221.
For alternate 50 Ohm coaxial configuration, see page 225.





Hardware and signal contacts removed for clarity





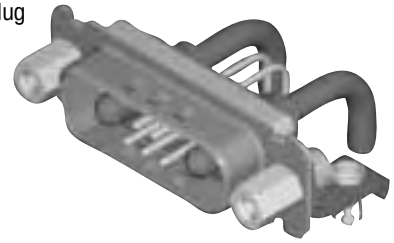
Hardware and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

40 A High Power 90° — Standard Footprint .489♦ or .454 inch♦♦ (Sizes DE-DC)

Plug



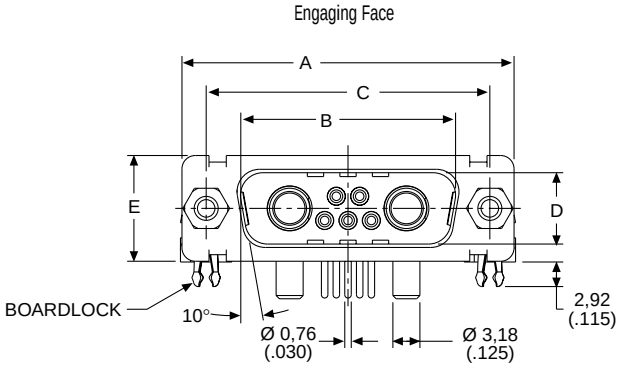
Reader's Resource

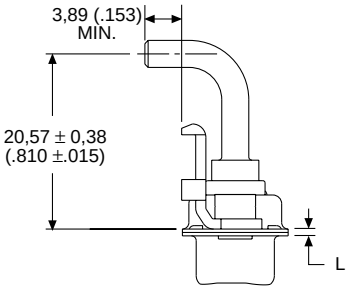
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 244-245.
For panel cutouts, see page 221.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

Part Numbers with Metal Bracket and Rivnut #4-40 UNC

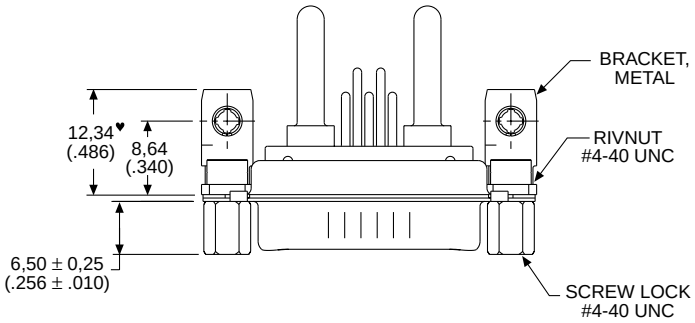
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMP5H1PJK87	DEMC5H1PJK87	DEMD5H1PJK87	DEMG5H1PJK87
DA	7W2	DAMP7H2PJK87	DAMC7H2PJK87	DAMD7H2PJK87	DAMG7H2PJK87
DA	11W1	DAMP11H1PJK87	DAMC11H1PJK87	DAMD11H1PJK87	DAMG11H1PJK87
DA	3W3	DAMP3H3PJK87	DAMC3H3PJK87	DAMD3H3PJK87	DAMG3H3PJK87
DA	3WK3♣	DAMP3HK3PJK87TM	DAMC3HK3PJK87TM	DAMD3HK3PJK87TM	DAMG3HK3PJK87TM
DB	5W5	DBMP5H5PJK87	DBMC5H5PJK87	DBMD5H5PJK87	DBMG5H5PJK87
DB	9W4	DBMP9H4PJK87	DBMC9H4PJK87	DBMD9H4PJK87	DBMG9H4PJK87
DB	13W3	DBMP13H3PJK87	DBMC13H3PJK87	DBMD13H3PJK87	DBMG13H3PJK87
DB	17W2	DBMP17H2PJK87	DBMC17H2PJK87	DBMD17H2PJK87	DBMG17H2PJK87
DB	21W1	DBMP21H1PJK87	DBMC21H1PJK87	DBMD21H1PJK87	DBMG21H1PJK87
DC	8W8	DCMP8H8PJK87	DCMC8H8PJK87	DCMD8H8PJK87	DCMG8H8PJK87
DC	13W6	DCMP13H6PJK87	DCMC13H6PJK87	DCMD13H6PJK87	DCMG13H6PJK87
DC	17W5	DCMP17H5PJK87	DCMC17H5PJK87	DCMD17H5PJK87	DCMG17H5PJK87
DC	21WA4	DCMP21HA4PJK87	DCMC21HA4PJK87	DCMD21HA4PJK87	DCMG21HA4PJK87
DC	25W3	DCMP25H3PJK87	DCMC25H3PJK87	DCMD25H3PJK87	DCMG25H3PJK87
DC	27W2	DCMP27H2PJK87	DCMC27H2PJK87	DCMD27H2PJK87	DCMG27H2PJK87

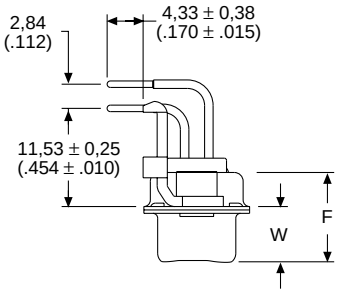
Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DEMP5H1PJK127
For DD shell sizes, see page 62.
♣ Keyed.





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

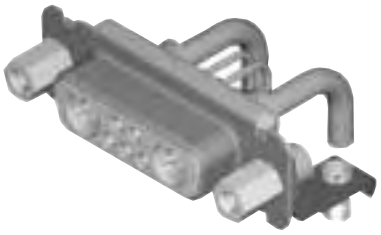
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

Dimensions are shown in mm (inch)
Dimensions subject to change

40 A High Power 90° — Standard Footprint .489♦ or .454 inch♦♦ (Sizes DE-DC)

Receptacle



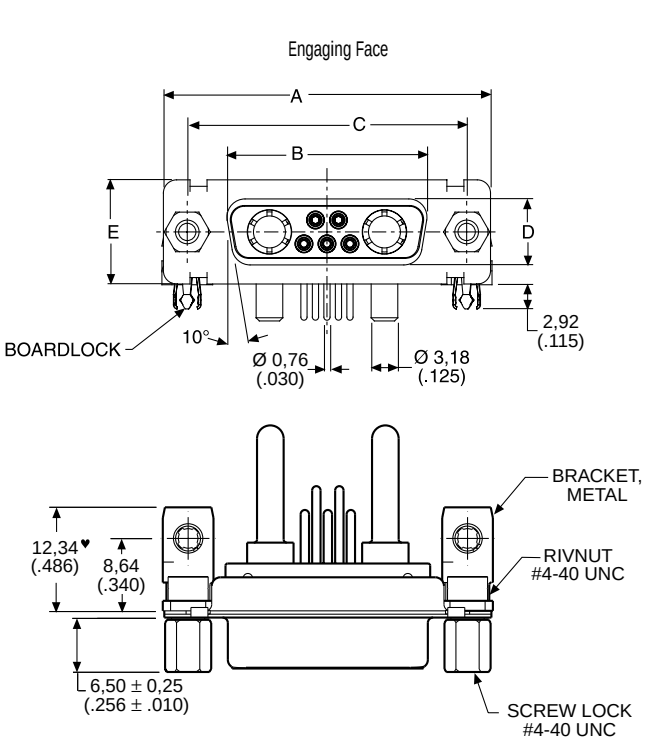
Reader's Resource

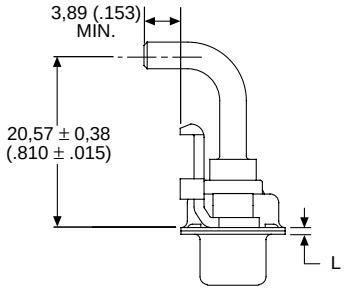
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 247-248.
For panel cutouts, see page 221.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

Part Numbers with Metal Bracket and Rivnut #4-40 UNC

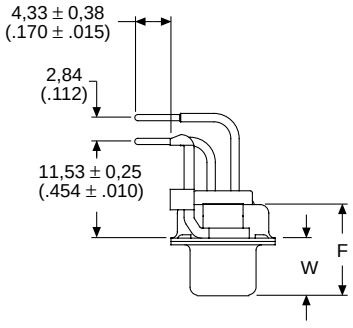
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMP5H1SJA197	DEMC5H1SJA197	DEMD5H1SJA197	DEMG5H1SJA197
DA	7W2	DAMP7H2SJA197	DAMC7H2SJA197	DAMD7H2SJA197	DAMG7H2SJA197
DA	11W1	DAMP11H1SJA197	DAMC11H1SJA197	DAMD11H1SJA197	DAMG11H1SJA197
DA	3W3	DAMP3H3SJA197	DAMC3H3SJA197	DAMD3H3SJA197	DAMG3H3SJA197
DA	3WK3♣	DAMP3HK3SJA197TM	DAMC3HK3SJA197TM	DAMD3HK3SJA197TM	DAMG3HK3SJA197TM
DB	5W5	DBMP5H5SJA197	DBMC5H5SJA197	DBMD5H5SJA197	DBMG5H5SJA197
DB	9W4	DBMP9H4SJA197	DBMC9H4SJA197	DBMD9H4SJA197	DBMG9H4SJA197
DB	13W3	DBMP13H3SJA197	DBMC13H3SJA197	DBMD13H3SJA197	DBMG13H3SJA197
DB	17W2	DBMP17H2SJA197	DBMC17H2SJA197	DBMD17H2SJA197	DBMG17H2SJA197
DB	21W1	DBMP21H1SJA197	DBMC21H1SJA197	DBMD21H1SJA197	DBMG21H1SJA197
DC	8W8	DCMP8H8SJA197	DCMC8H8SJA197	DCMD8H8SJA197	DCMG8H8SJA197
DC	13W6	DCMP13H6SJA197	DCMC13H6SJA197	DCMD13H6SJA197	DCMG13H6SJA197
DC	17W5	DCMP17H5SJA197	DCMC17H5SJA197	DCMD17H5SJA197	DCMG17H5SJA197
DC	21WA4	DCMP21HA4SJA197	DCMC21HA4SJA197	DCMD21HA4SJA197	DCMG21HA4SJA197
DC	25W3	DCMP25H3SJA197	DCMC25H3SJA197	DCMD25H3SJA197	DCMG25H3SJA197
DC	27W2	DCMP27H2SJA197	DCMC27H2SJA197	DCMD27H2SJA197	DCMG27H2SJA197

Note: For contacts with 30 microinches of gold substitute K126 for A197. Example: DEMP5H1SJK126
For DD shell sizes, see page 63.
♣ Keyed.





Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

40 A High Power 90° — Standard Footprint .489♦ or .454 inch♦♦ (Size DD)

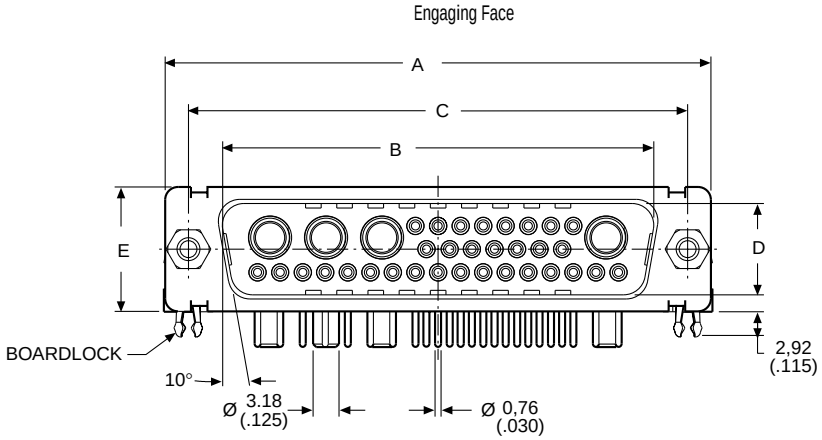
Plug

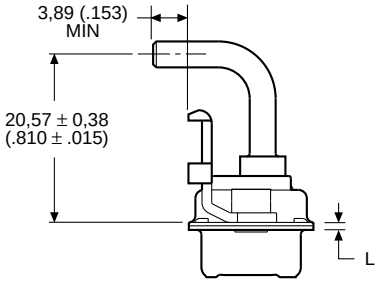
Part Numbers with Metal Bracket and Rivnut #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMP24H7PJK87	DDMC24H7PJK87	DDMD24H7PJK87	DDMG24H7PJK87
DD	36W4	DDMP36H4PJK87	DDMC36H4PJK87	DDMD36H4PJK87	DDMG36H4PJK87
DD	43W2	DDMP43H2PJK87	DDMC43H2PJK87	DDMD43H2PJK87	DDMG43H2PJK87
DD	47W1	DDMP47H1PJK87	DDMC47H1PJK87	DDMD47H1PJK87	DDMG47H1PJK87

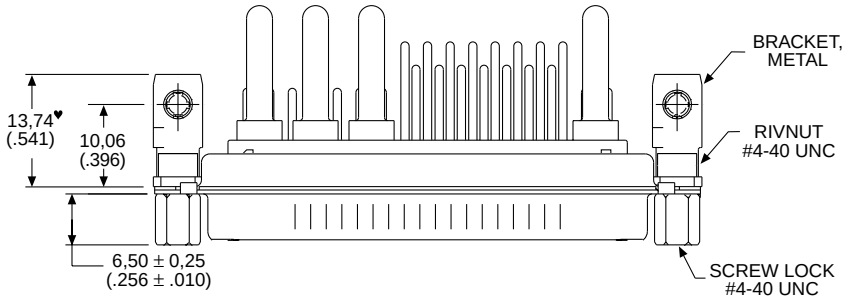
Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DDMP24H7PJK127

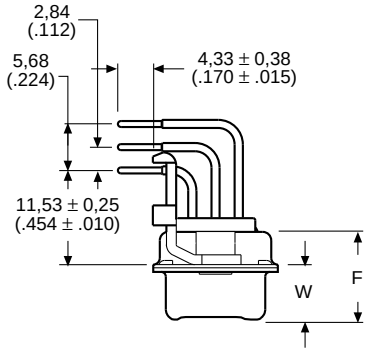
Reader's Resource
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 246.
For panel cutouts, see page 221.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

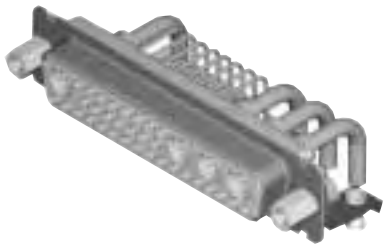
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

40 A High Power 90° — Standard Footprint .489♦ or .454 inch♦♦ (Size DD)

Receptacle



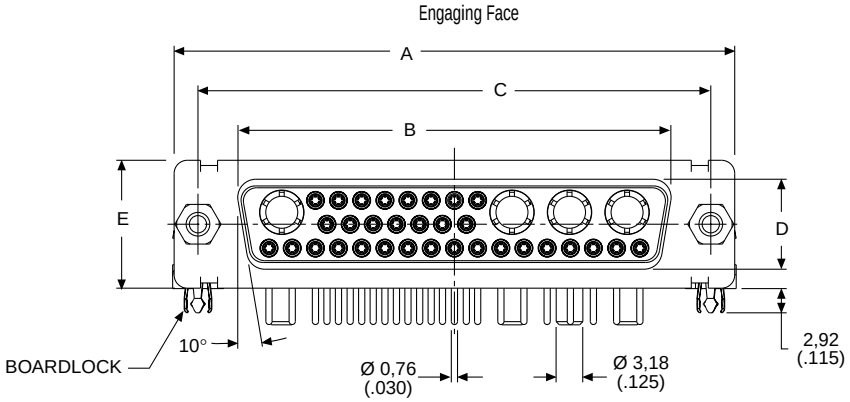
Part Numbers with Metal Bracket and Rivnut #4-40 UNC

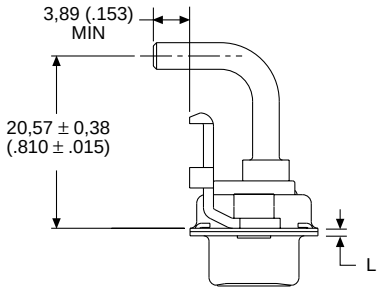
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMP24H7SJA197	DDMC24H7SJA197	DDMD24H7SJA197	DDMG24H7SJA197
DD	36W4	DDMP36H4SJA197	DDMC36H4SJA197	DDMD36H4SJA197	DDMG36H4SJA197
DD	43W2	DDMP43H2SJA197	DDMC43H2SJA197	DDMD43H2SJA197	DDMG43H2SJA197
DD	47W1	DDMP47H1SJA197	DDMC47H1SJA197	DDMD47H1SJA197	DDMG47H1SJA197

Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DDMP24H7SJK126

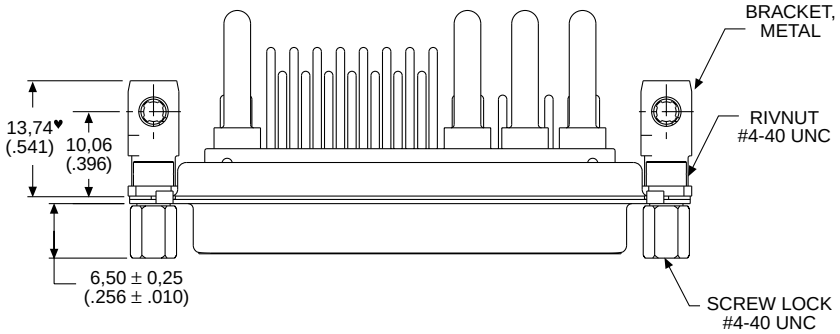
Reader's Resource

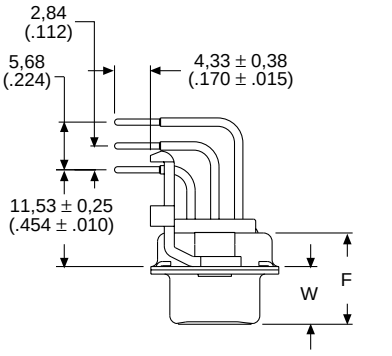
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 249.
For panel cutouts, see page 221.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

40 A High Power 90° — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DC)

Plug

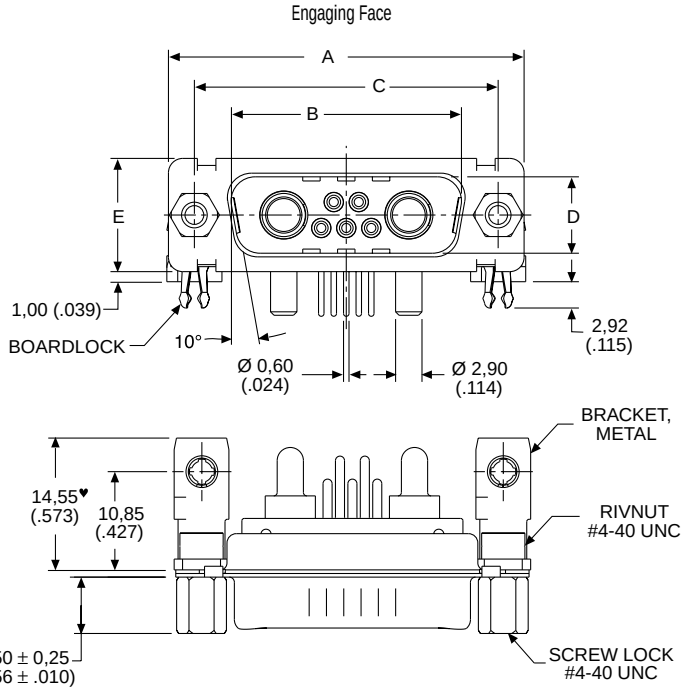
Reader's Resource

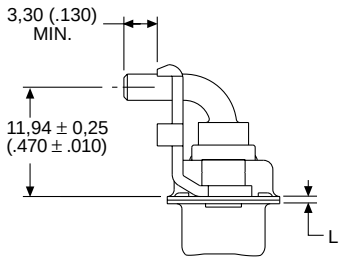
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 250-251.
For panel cutouts, see page 221.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

Part Numbers with Metal Bracket and Rivnut #4-40 UNC

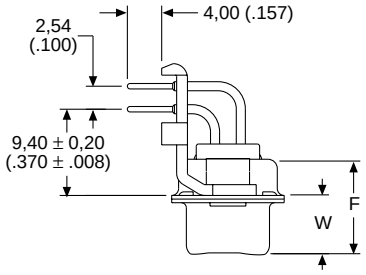
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMP5P1PVK87	DEMC5P1PVK87	DEMD5P1PVK87	DEMG5P1PVK87
DA	7W2	DAMP7P2PVK87	DAMC7P2PVK87	DAMD7P2PVK87	DAMG7P2PVK87
DA	11W1	DAMP11P1PVK87	DAMC11P1PVK87	DAMD11P1PVK87	DAMG11P1PVK87
DA	3W3	DAMP3P3PVK87	DAMC3P3PVK87	DAMD3P3PVK87	DAMG3P3PVK87
DA	3WK3♣	DAMP3PK3PVK87TM	DAMC3PK3PVK87TM	DAMD3PK3PVK87TM	DAMG3PK3PVK87TM
DB	5W5	DBMP5P5PVK87	DBMC5P5PVK87	DBMD5P5PVK87	DBMG5P5PVK87
DB	9W4	DBMP9P4PVK87	DBMC9P4PVK87	DBMD9P4PVK87	DBMG9P4PVK87
DB	13W3	DBMP13P3PVK87	DBMC13P3PVK87	DBMD13P3PVK87	DBMG13P3PVK87
DB	17W2	DBMP17P2PVK87	DBMC17P2PVK87	DBMD17P2PVK87	DBMG17P2PVK87
DB	21W1	DBMP21P1PVK87	DBMC21P1PVK87	DBMD21P1PVK87	DBMG21P1PVK87
DC	8W8	DCMP8P8PVK87	DCMC8P8PVK87	DCMD8P8PVK87	DCMG8P8PVK87
DC	13W6	DCMP13P6PVK87	DCMC13P6PVK87	DCMD13P6PVK87	DCMG13P6PVK87
DC	17W5	DCMP17P5PVK87	DCMC17P5PVK87	DCMD17P5PVK87	DCMG17P5PVK87
DC	21WA4	DCMP21PA4PVK87	DCMC21PA4PVK87	DCMD21PA4PVK87	DCMG21PA4PVK87
DC	25W3	DCMP25P3PVK87	DCMC25P3PVK87	DCMD25P3PVK87	DCMG25P3PVK87
DC	27W2	DCMP27P2PVK87	DCMC27P2PVK87	DCMD27P2PVK87	DCMG27P2PVK87

For M3 threads replace MP with MS, MC with ML, MD with MO, MG with MJ.
Notes: For tin plated PC tails add A226 (signal contacts only). Example DEMP5P1PVK87A226
For performance class 2 substitute K127 for K87. Example: DEMP5P1PVK127
♣ Keyed.





Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

40 A High Power 90° — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DC)

Receptacle

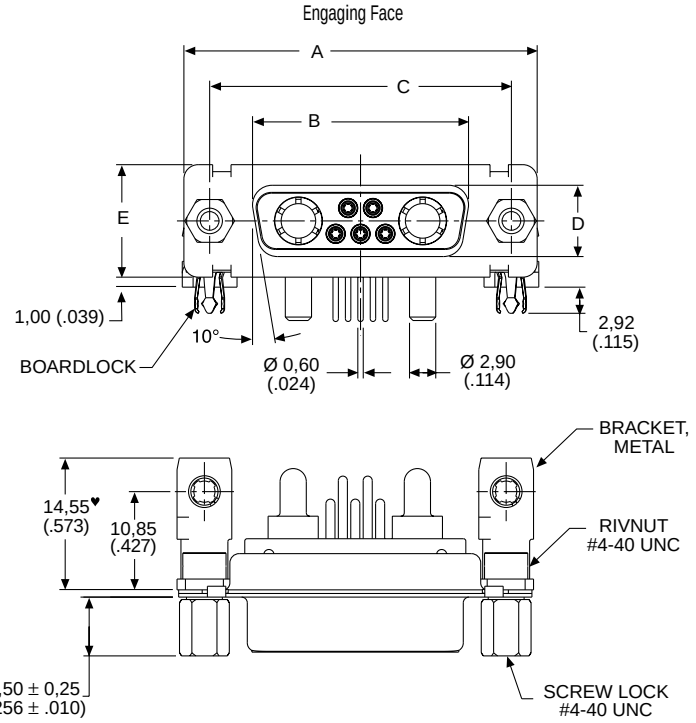
Reader's Resource

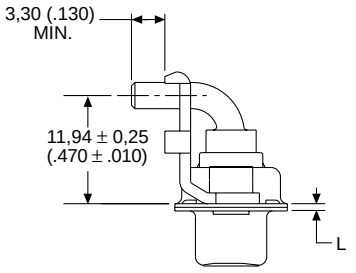
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 252-253.
For panel cutouts, see page 221.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

Part Numbers with Metal Bracket and Rivnut #4-40 UNC

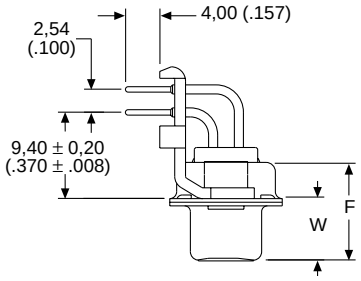
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMP5P1SVA197	DEMC5P1SVA197	DEMD5P1SVA197	DEMG5P1SVA197
DA	7W2	DAMP7P2SVA197	DAMC7P2SVA197	DAMD7P2SVA197	DAMG7P2SVA197
DA	11W1	DAMP11P1SVA197	DAMC11P1SVA197	DAMD11P1SVA197	DAMG11P1SVA197
DA	3W3	DAMP3P3SVA197	DAMC3P3SVA197	DAMD3P3SVA197	DAMG3P3SVA197
DA	3WK3♣	DAMP3PK3SVA197TM	DAMC3PK3SVA197TM	DAMD3PK3SVA197TM	DAMG3PK3SVA197TM
DB	5W5	DBMP5P5SVA197	DBMC5P5SVA197	DBMD5P5SVA197	DBMG5P5SVA197
DB	9W4	DBMP9P4SVA197	DBMC9P4SVA197	DBMD9P4SVA197	DBMG9P4SVA197
DB	13W3	DBMP13P3SVA197	DBMC13P3SVA197	DBMD13P3SVA197	DBMG13P3SVA197
DB	17W2	DBMP17P2SVA197	DBMC17P2SVA197	DBMD17P2SVA197	DBMG17P2SVA197
DB	21W1	DBMP21P1SVA197	DBMC21P1SVA197	DBMD21P1SVA197	DBMG21P1SVA197
DC	8W8	DCMP8P8SVA197	DCMC8P8SVA197	DCMD8P8SVA197	DCMG8P8SVA197
DC	13W6	DCMP13P6SVA197	DCMC13P6SVA197	DCMD13P6SVA197	DCMG13P6SVA197
DC	17W5	DCMP17P5SVA197	DCMC17P5SVA197	DCMD17P5SVA197	DCMG17P5SVA197
DC	21WA4	DCMP21PA4SVA197	DCMC21PA4SVA197	DCMD21PA4SVA197	DCMG21PA4SVA197
DC	25W3	DCMP25P3SVA197	DCMC25P3SVA197	DCMD25P3SVA197	DCMG25P3SVA197
DC	27W2	DCMP27P2SVA197	DCMC27P2SVA197	DCMD27P2SVA197	DCMG27P2SVA197

For M3 threads replace MP with MS, MC with ML, MD with MO, MG with MJ.
Notes: For performance class 2 substitute K126 for A197. Example: DEMP5P1SVK126
♣ Keyed.





Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0.76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

40 A High Power Straight — Standard PC Tails (Sizes DE-DC)

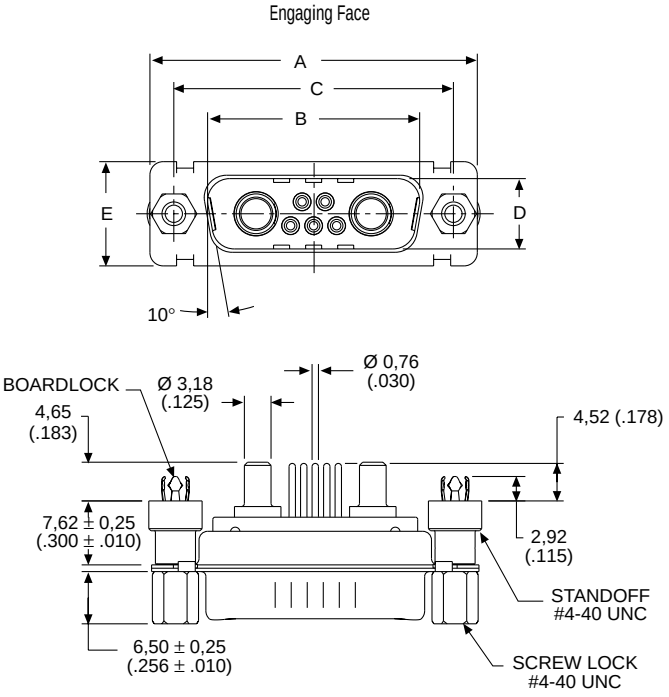
Plug

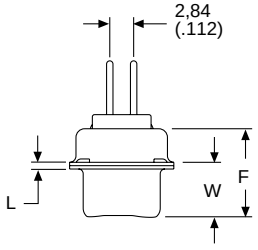
Reader's Resource
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 254-255.
For panel cutouts, see page 221.

Part Numbers with Standoff #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMV5H1PNK87	DEMZ5H1PNK87	DEMN5H1PNK87
DA	7W2	DAMV7H2PNK87	DAMZ7H2PNK87	DAMN7H2PNK87
DA	11W1	DAMV11H1PNK87	DAMZ11H1PNK87	DAMN11H1PNK87
DA	3W3	DAMV3H3PNK87	DAMZ3H3PNK87	DAMN3H3PNK87
DA	3WK3♣	DAMV3HK3PNK87TM	DAMZ3HK3PNK87TM	DAMN3HK3PNK87TM
DB	5W5	DBMV5H5PNK87	DBMZ5H5PNK87	DBMN5H5PNK87
DB	9W4	DBMV9H4PNK87	DBMZ9H4PNK87	DBMN9H4PNK87
DB	13W3	DBMV13H3PNK87	DBMZ13H3PNK87	DBMN13H3PNK87
DB	17W2	DBMV17H2PNK87	DBMZ17H2PNK87	DBMN17H2PNK87
DB	21W1	DBMV21H1PNK87	DBMZ21H1PNK87	DBMN21H1PNK87
DC	8W8	DCMV8H8PNK87	DCMZ8H8PNK87	DCMN8H8PNK87
DC	13W6	DCMV13H6PNK87	DCMZ13H6PNK87	DCMN13H6PNK87
DC	17W5	DCMV17H5PNK87	DCMZ17H5PNK87	DCMN17H5PNK87
DC	21WA4	DCMV21HA4PNK87	DCMZ21HA4PNK87	DCMN21HA4PNK87
DC	25W3	DCMV25H3PNK87	DCMZ25H3PNK87	DCMN25H3PNK87
DC	27W2	DCMV27H2PNK87	DCMZ27H2PNK87	DCMN27H2PNK87

Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DEMV5H1PNK127
For DD shell sizes, see page 68.
♣ Keyed.





Screw lock, boardlock and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

40 A High Power Straight — Standard PC Tails (Sizes DE-DC)

Receptacle

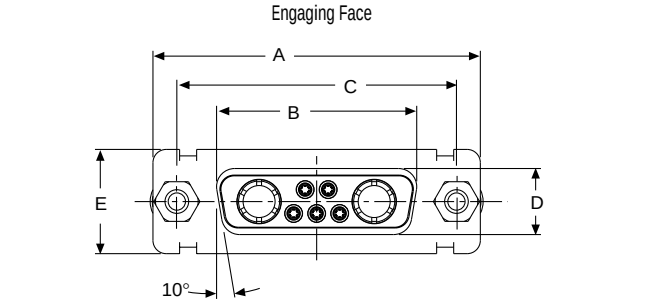
Reader's Resource

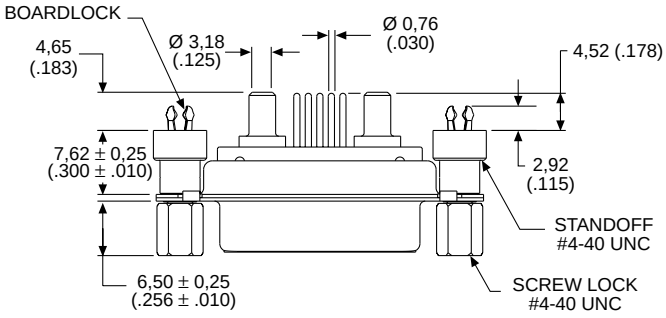
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 257-258.
For panel cutouts, see page 221.

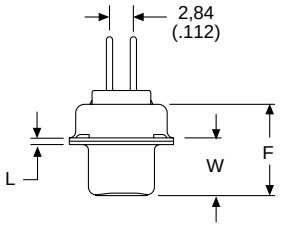
Part Numbers with Standoff #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMV5H1SNA197	DEMZ5H1SNA197	DEMN5H1SNA197
DA	7W2	DAMV7H2SNA197	DAMZ7H2SNA197	DAMN7H2SNA197
DA	11W1	DAMV11H1SNA197	DAMZ11H1SNA197	DAMN11H1SNA197
DA	3W3	DAMV3H3SNA197	DAMZ3H3SNA197	DAMN3H3SNA197
DA	3WK3♣	DAMV3HK3SNA197TM	DAMZ3HK3SNA197TM	DAMN3HK3SNA197TM
DB	5W5	DBMV5H5SNA197	DBMZ5H5SNA197	DBMN5H5SNA197
DB	9W4	DBMV9H4SNA197	DBMZ9H4SNA197	DBMN9H4SNA197
DB	13W3	DBMV13H3SNA197	DBMZ13H3SNA197	DBMN13H3SNA197
DB	17W2	DBMV17H2SNA197	DBMZ17H2SNA197	DBMN17H2SNA197
DB	21W1	DBMV21H1SNA197	DBMZ21H1SNA197	DBMN21H1SNA197
DC	8W8	DCMV8H8SNA197	DCMZ8H8SNA197	DCMN8H8SNA197
DC	13W6	DCMV13H6SNA197	DCMZ13H6SNA197	DCMN13H6SNA197
DC	17W5	DCMV17H5SNA197	DCMZ17H5SNA197	DCMN17H5SNA197
DC	21WA4	DCMV21HA4SNA197	DCMZ21HA4SNA197	DCMN21HA4SNA197
DC	25W3	DCMV25H3SNA197	DCMZ25H3SNA197	DCMN25H3SNA197
DC	27W2	DCMV27H2SNA197	DCMZ27H2SNA197	DCMN27H2SNA197

Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DEMV5H1SNK126
For DD shell sizes, see page 69.
♣ Keyed.







Screw lock, boardlock and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

40 A High Power Straight — Standard PC Tails (Size DD)

Plug

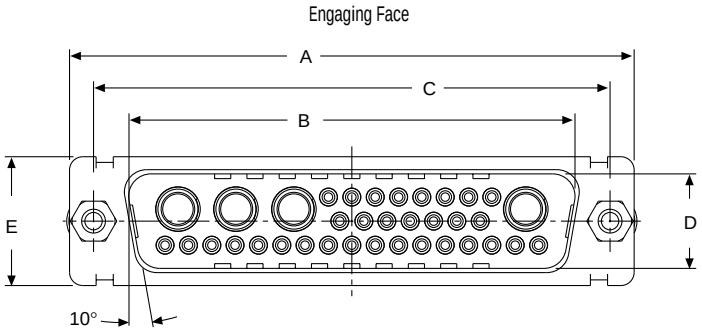
Part Numbers with Standoff #4-40 UNC

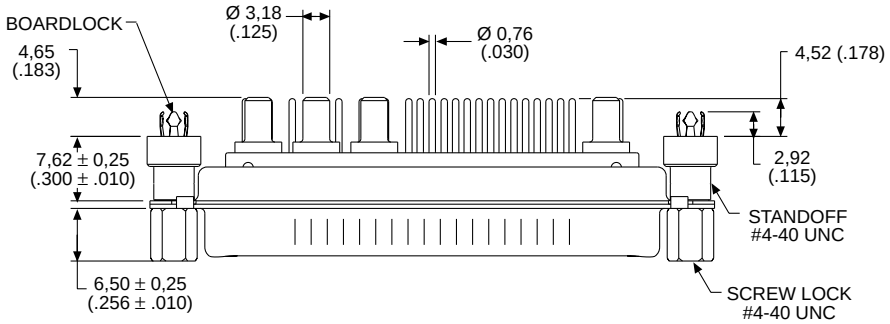
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMV24H7PNK87	DDMZ24H7PNK87	DDMN24H7PNK87
DD	36W4	DDMV36H4PNK87	DDMZ36H4PNK87	DDMN36H4PNK87
DD	43W2	DDMV43H2PNK87	DDMZ43H2PNK87	DDMN43H2PNK87
DD	47W1	DDMV47H1PNK87	DDMZ47H1PNK87	DDMN47H1PNK87

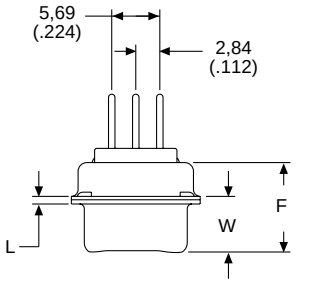
Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DDMV24H7PNK127

Reader's Resource

For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 256.
For panel cutouts, see page 221.







Screw lock, boardlock, and high power contact removed for clarity

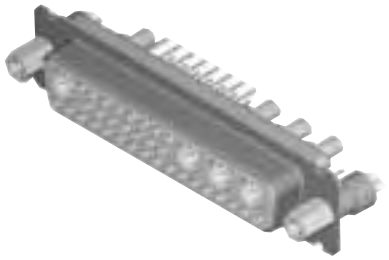
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

40 A High Power Straight — Standard PC Tails (Size DD)

Receptacle



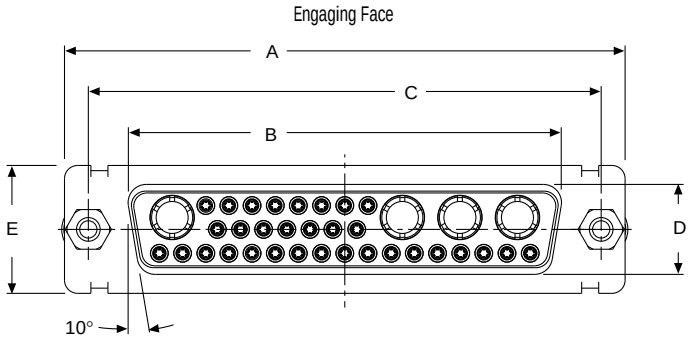
Part Numbers with Standoff #4-40 UNC

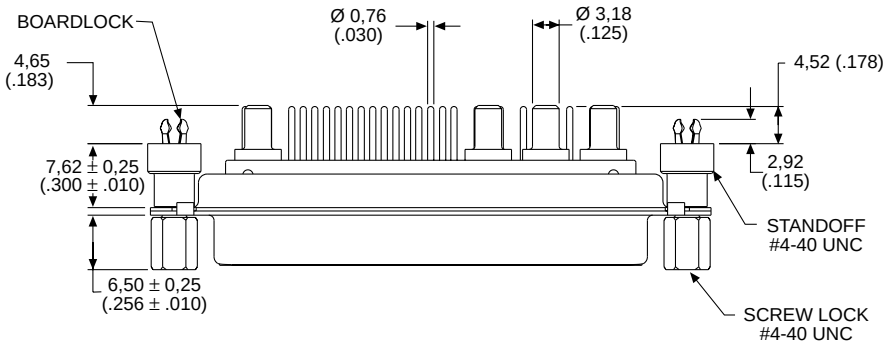
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMV24H7SNA197	DDMZ24H7SNA197	DDMN24H7SNA197
DD	36W4	DDMV36H4SNA197	DDMZ36H4SNA197	DDMN36H4SNA197
DD	43W2	DDMV43H2SNA197	DDMZ43H2SNA197	DDMN43H2SNA197
DD	47W1	DDMV47H1SNA197	DDMZ47H1SNA197	DDMN47H1SNA197

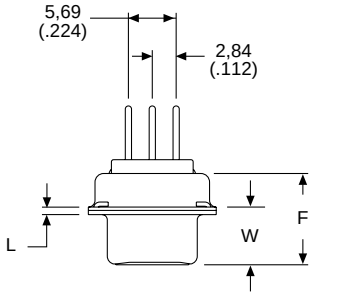
Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DDMV24H7SNK126

Reader's Resource

For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 259.
For panel cutouts, see page 221.







Screw lock, boardlock and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

40 A High Power Straight — European PC Tails (Sizes DE-DC)

Plug

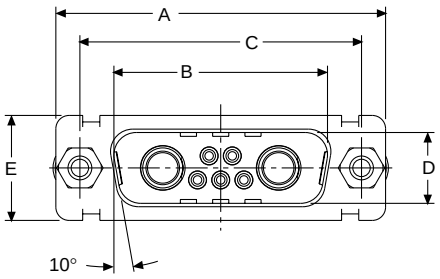
Reader's Resource
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 254-255.
For panel cutouts, see page 221.

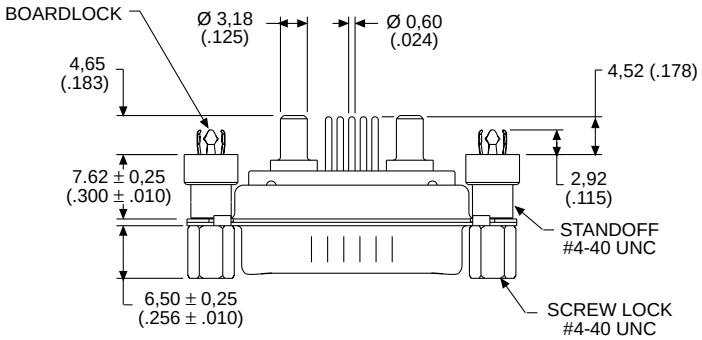
Part Numbers with Standoff #4-40 UNC

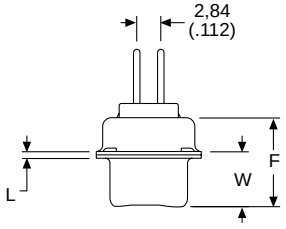
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMV5H1PYK87	DEMZ5H1PYK87	DEMN5H1PYK87
DA	7W2	DAMV7H2PYK87	DAMZ7H2PYK87	DAMN7H2PYK87
DA	11W1	DAMV11H1PYK87	DAMZ11H1PYK87	DAMN11H1PYK87
DA	3W3	DAMV3H3PYK87	DAMZ3H3PYK87	DAMN3H3PYK87
DA	3WK3♣	DAMV3HK3PYK87TM	DAMZ3HK3PYK87TM	DAMN3HK3PYK87TM
DB	5W5	DBMV5H5PYK87	DBMZ5H5PYK87	DBMN5H5PYK87
DB	9W4	DBMV9H4PYK87	DBMZ9H4PYK87	DBMN9H4PYK87
DB	13W3	DBMV13H3PYK87	DBMZ13H3PYK87	DBMN13H3PYK87
DB	17W2	DBMV17H2PYK87	DBMZ17H2PYK87	DBMN17H2PYK87
DB	21W1	DBMV21H1PYK87	DBMZ21H1PYK87	DBMN21H1PYK87
DC	8W8	DCMV8H8PYK87	DCMZ8H8PYK87	DCMN8H8PYK87
DC	13W6	DCMV13H6PYK87	DCMZ13H6PYK87	DCMN13H6PYK87
DC	17W5	DCMV17H5PYK87	DCMZ17H5PYK87	DCMN17H5PYK87
DC	21WA4	DCMV21HA4PYK87	DCMZ21HA4PYK87	DCMN21HA4PYK87
DC	25W3	DCMV25H3PYK87	DCMZ25H3PYK87	DCMN25H3PYK87
DC	27W2	DCMV27H2PYK87	DCMZ27H2PYK87	DCMN27H2PYK87

For M3 threads replace MV with MT, MZ with MQ, MN with MU.
Notes: For tin plated PC tails add A226 (signal contacts only). Example: DEMV5H1PYK87A226
For performance class 2 substitute K127 for K87. Example: DEMV5H1PYK127
For DD shell sizes, see page 72.
♣ Keyed.

Engaging Face







Screw lock, boardlock, and high power contact removed for clarity

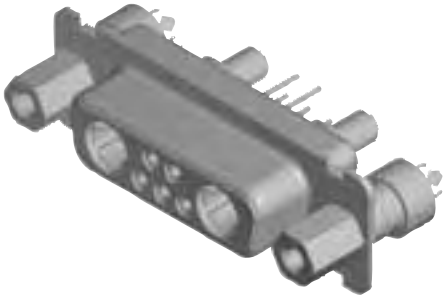
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

40 A High Power Straight — European PC Tails (Sizes DE-DC)

Receptacle



Reader's Resource

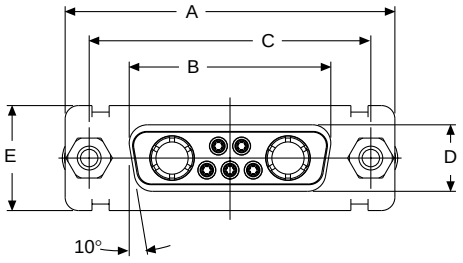
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 257-258.
For panel cutouts, see page 221.

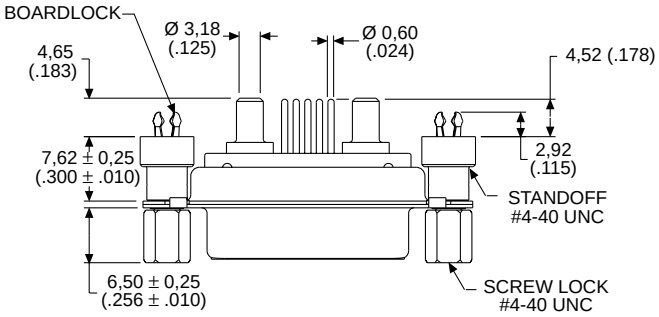
Part Numbers with Standoff #4-40 UNC

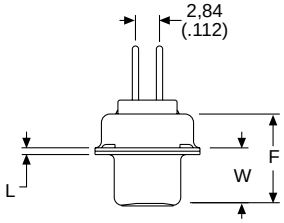
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMV5H1SYA197	DEMZ5H1SYA197	DEMN5H1SYA197
DA	7W2	DAMV7H2SYA197	DAMZ7H2SYA197	DAMN7H2SYA197
DA	11W1	DAMV11H1SYA197	DAMZ11H1SYA197	DAMN11H1SYA197
DA	3W3	DAMV3H3SYA197	DAMZ3H3SYA197	DAMN3H3SYA197
DA	3WK3♣	DAMV3HK3SYA197TM	DAMZ3HK3SYA197TM	DAMN3HK3SYA197TM
DB	5W5	DBMV5H5SYA197	DBMZ5H5SYA197	DBMN5H5SYA197
DB	9W4	DBMV9H4SYA197	DBMZ9H4SYA197	DBMN9H4SYA197
DB	13W3	DBMV13H3SYA197	DBMZ13H3SYA197	DBMN13H3SYA197
DB	17W2	DBMV17H2SYA197	DBMZ17H2SYA197	DBMN17H2SYA197
DB	21W1	DBMV21H1SYA197	DBMZ21H1SYA197	DBMN21H1SYA197
DC	8W8	DCMV8H8SYA197	DCMZ8H8SYA197	DCMN8H8SYA197
DC	13W6	DCMV13H6SYA197	DCMZ13H6SYA197	DCMN13H6SYA197
DC	17W5	DCMV17H5SYA197	DCMZ17H5SYA197	DCMN17H5SYA197
DC	21WA4	DCMV21HA4SYA197	DCMZ21HA4SYA197	DCMN21HA4SYA197
DC	25W3	DCMV25H3SYA197	DCMZ25H3SYA197	DCMN25H3SYA197
DC	27W2	DCMV27H2SYA197	DCMZ27H2SYA197	DCMN27H2SYA197

For M3 threads replace MV with MT, MZ with MQ, MN with MU.
Notes: For performance class 2 substitute K126 for A197. Example: DEMV5H1SYK126
For DD shell sizes, see page 73.
♣ Keyed.

Engaging Face







Screw lock, boardlock, and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

40 A High Power Straight — European PC Tails (Size DD)

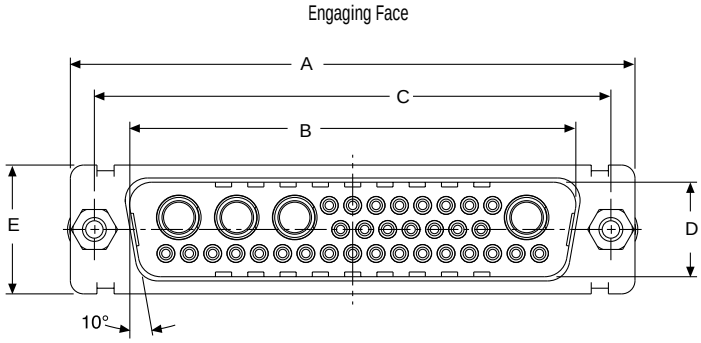
Plug

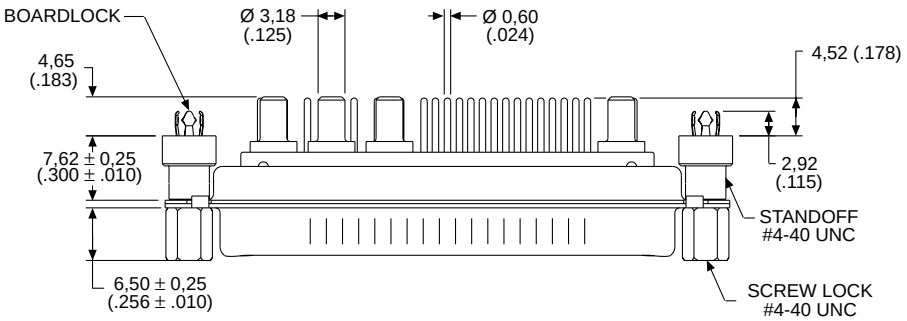
Part Numbers with Standoff #4-40 UNC

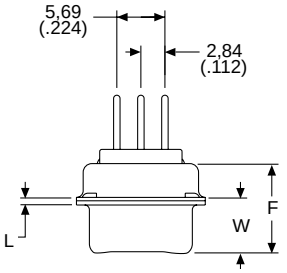
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMV24H7PYK87	DDMZ24H7PYK87	DDMN24H7PYK87
DD	36W4	DDMV36H4PYK87	DDMZ36H4PYK87	DDMN36H4PYK87
DD	43W2	DDMV43H2PYK87	DDMZ43H2PYK87	DDMN43H2PYK87
DD	47W1	DDMV47H1PYK87	DDMZ47H1PYK87	DDMN47H1PYK87

For M3 threads replace MV with MT, MZ with MQ, MN with MU.
Notes: For tin plated PC tails add A226 (signal contacts only). Example DDMV24H7PYK87A226
For performance class 2 substitute K127 for K87. Example: DDMV24H7PYK127

Reader's Resource
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 256.
For panel cutouts, see page 221.







Screw lock, boardlock, and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

40 A High Power Straight — European PC Tails (Size DD)

Receptacle

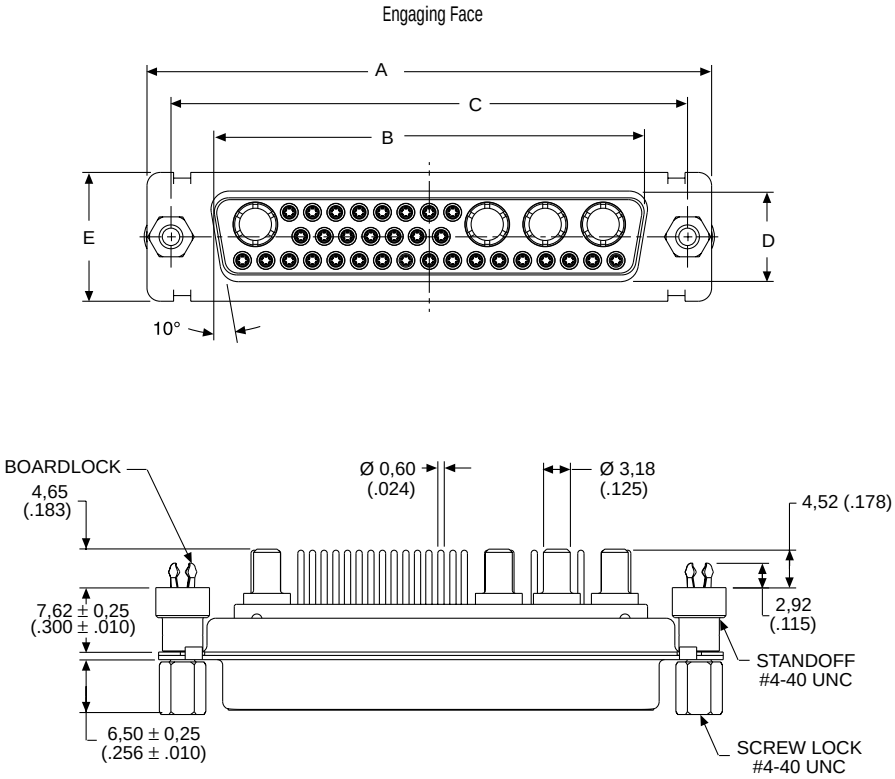
Part Numbers with Standoff #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMV24H7SYA197	DDMZ24H7SYA197	DDMN24H7SYA197
DD	36W4	DDMV36H4SYA197	DDMZ36H4SYA197	DDMN36H4SYA197
DD	43W2	DDMV43H2SYA197	DDMZ43H2SYA197	DDMN43H2SYA197
DD	47W1	DDMV47H1SYA197	DDMZ47H1SYA197	DDMN47H1SYA197

For M3 threads replace MV with MT, MZ with MQ, MN with MU.
Note: For performance class 2 substitute K126 for A197. Example: DDMV24H7SYK126

Reader's Resource

For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 259.
For panel cutouts, see page 221.



Screw lock, boardlock, and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

90° PC Tail — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DD)

Plug

Reader's Resource

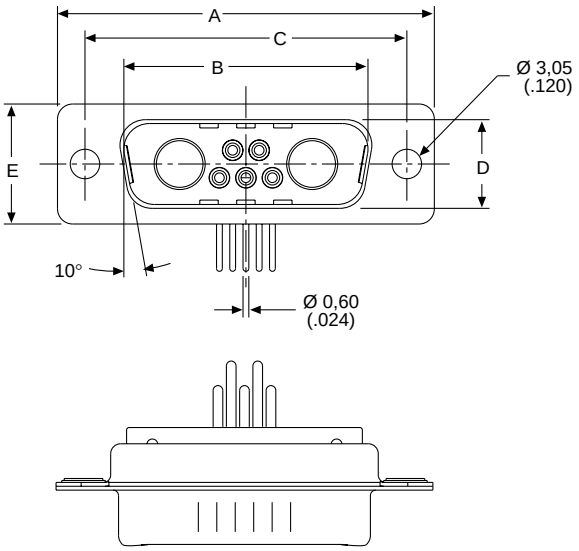
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 260-262.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

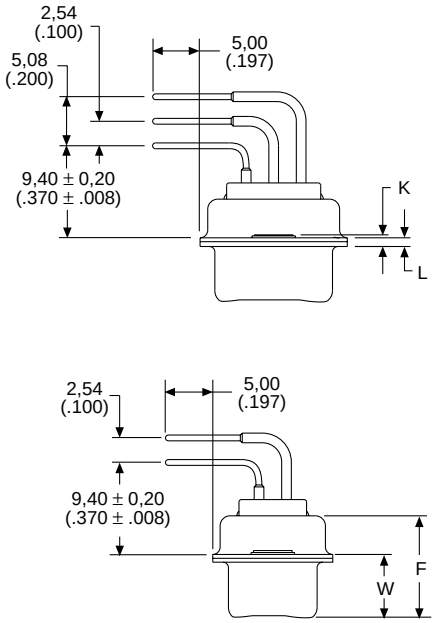
Shell Size	Layout	Part Number Without Hardware	Part Number Metal Bracket With #4-40 Nut
DE	5W1	DEM-5W1P-1A0N-K87	DEM-5W1P-1A7N-K87
DA	7W2	DAM-7W2P-1A0N-K87	DAM-7W2P-1A7N-K87
DA	11W1	DAM-11W1P-1A0N-K87	DAM-11W1P-1A7N-K87
DA	3W3	DAM-3W3P-1A0N-K87	DAM-3W3P-1A7N-K87
DA	3WK3♣	DAM-3WK3P-1A0N-K87	DAM-3WK3P-1A7N-K87
DB	5W5	DBM-5W5P-1A0N-K87	DBM-5W5P-1A7N-K87
DB	9W4	DBM-9W4P-1A0N-K87	DBM-9W4P-1A7N-K87
DB	13W3	DBM-13W3P-1A0N-K87	DBM-13W3P-1A7N-K87
DB	17W2	DBM-17W2P-1A0N-K87	DBM-17W2P-1A7N-K87
DB	21W1	DBM-21W1P-1A0N-K87	DBM-21W1P-1A7N-K87
DC	8W8	DCM-8W8P-1A0N-K87	DCM-8W8P-1A7N-K87
DC	13W6	DCM-13W6P-1A0N-K87	DCM-13W6P-1A7N-K87
DC	17W5	DCM-17W5P-1A0N-K87	DCM-17W5P-1A7N-K87
DC	21WA4	DCM-21WA4P-1A0N-K87	DCM-21WA4P-1A7N-K87
DC	25W3	DCM-25W3P-1A0N-K87	DCM-25W3P-1A7N-K87
DC	27W2	DCM-27W2P-1A0N-K87	DCM-27W2P-1A7N-K87
DD	24W7	DDM-24W7P-1A0N-K87	DDM-24W7P-1A7N-K87
DD	36W4	DDM-36W4P-1A0N-K87	DDM-36W4P-1A7N-K87
DD	43W2	DDM-43W2P-1A0N-K87	DDM-43W2P-1A7N-K87
DD	47W1	DDM-47W1P-1A0N-K87	DDM-47W1P-1A7N-K87

Note: Performance class 3 standard, for performance class 2 add -A191. Example: DEM-5W1P-1A0N-A191-K87
♣ Keyed.

Engaging Face



DD Configuration



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

90° PC Tail — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DD)

Receptacle

Reader's Resource

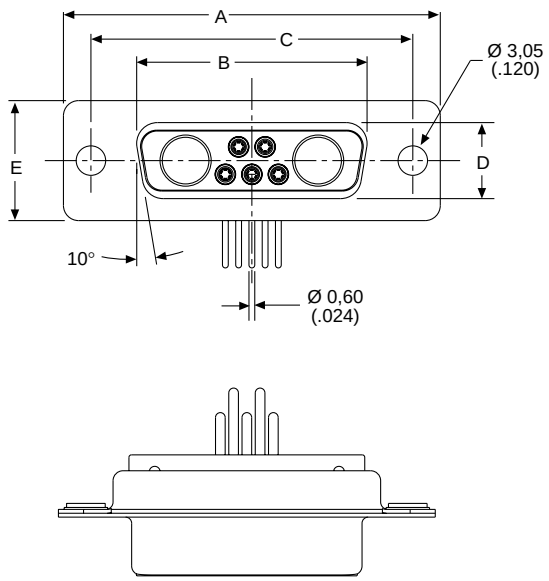
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 263-265.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

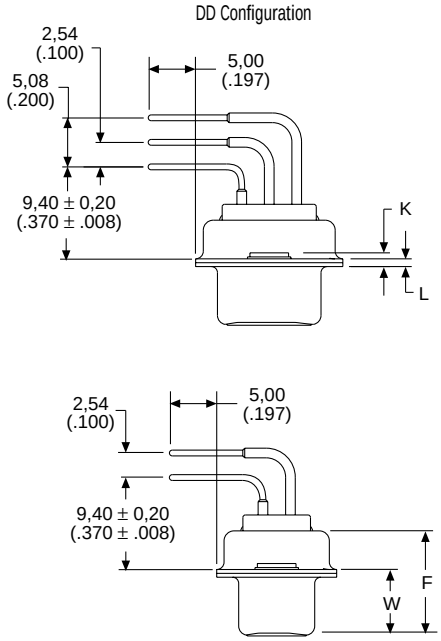
Shell Size	Layout	Part Number Without Hardware	Part Number Metal Bracket With #4-40 Nut
DE	5W1	DEM-5W1S-1A0N-A197	DEM-5W1S-1A7N-A197
DA	7W2	DAM-7W2S-1A0N-A197	DAM-7W2S-1A7N-A197
DA	11W1	DAM-11W1S-1A0N-A197	DAM-11W1S-1A7N-A197
DA	3W3	DAM-3W3S-1A0N-A197	DAM-3W3S-1A7N-A197
DA	3WK3♣	DAM-3WK3S-1A0N-A197	DAM-3WK3S-1A7N-A197
DB	5W5	DBM-5W5S-1A0N-A197	DBM-5W5S-1A7N-A197
DB	9W4	DBM-9W4S-1A0N-A197	DBM-9W4S-1A7N-A197
DB	13W3	DBM-13W3S-1A0N-A197	DBM-13W3S-1A7N-A197
DB	17W2	DBM-17W2S-1A0N-A197	DBM-17W2S-1A7N-A197
DB	21W1	DBM-21W1S-1A0N-A197	DBM-21W1S-1A7N-A197
DC	8W8	DCM-8W8S-1A0N-A197	DCM-8W8S-1A7N-A197
DC	13W6	DCM-13W6S-1A0N-A197	DCM-13W6S-1A7N-A197
DC	17W5	DCM-17W5S-1A0N-A197	DCM-17W5S-1A7N-A197
DC	21WA4	DCM-21WA4S-1A0N-A197	DCM-21WA4S-1A7N-A197
DC	25W3	DCM-25W3S-1A0N-A197	DCM-25W3S-1A7N-A197
DC	27W2	DCM-27W2S-1A0N-A197	DCM-27W2S-1A7N-A197
DD	24W7	DDM-24W7S-1A0N-A197	DDM-24W7S-1A7N-A197
DD	36W4	DDM-36W4S-1A0N-A197	DDM-36W4S-1A7N-A197
DD	43W2	DDM-43W2S-1A0N-A197	DDM-43W2S-1A7N-A197
DD	47W1	DDM-47W1S-1A0N-A197	DDM-47W1S-1A7N-A197

Note: Performance class 3 standard, for performance class 2 add -A191. Example: DEM-5W1S-1A0N-A191-A197
♣ Keyed.

Engaging Face



DD Configuration



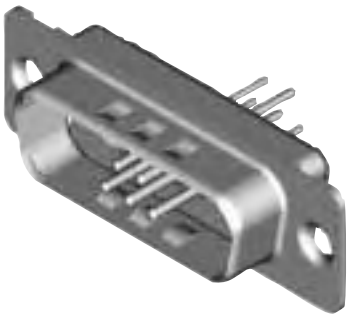
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

Straight PC Tails — European (Sizes DE-DD)

Plug



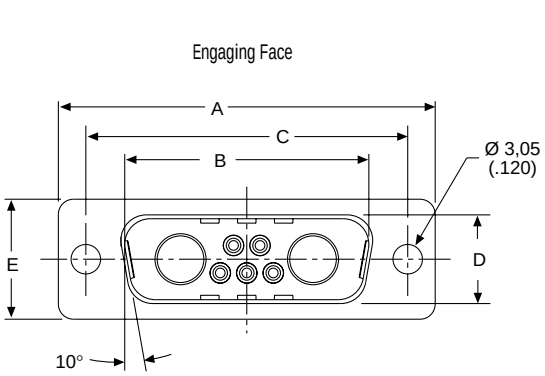
Reader's Resource

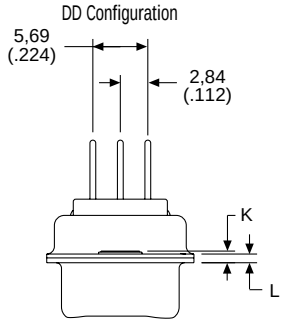
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 266-268.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

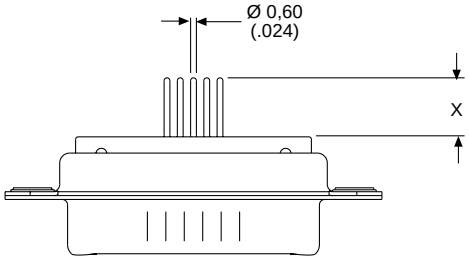
Part Numbers

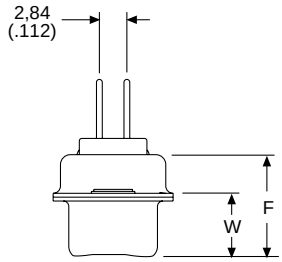
Shell Size	Layout	Part Number X 4,60 (.181)	Part Number X 6,05 (.238)
DE	5W1	DEM-5W1P-OL2-K87	DEM-5W1P-OL4-K87
DA	7W2	DAM-7W2P-OL2-K87	DAM-7W2P-OL4-K87
DA	11W1	DAM-11W1P-OL2-K87	DAM-11W1P-OL4-K87
DA	3W3	DAM-3W3P-OL2-K87	DAM-3W3P-OL4-K87
DA	3WK3♣	DAM-3WK3P-OL2-K87	DAM-3WK3P-OL4-K87
DB	5W5	DBM-5W5P-OL2-K87	DBM-5W5P-OL4-K87
DB	9W4	DBM-9W4P-OL2-K87	DBM-9W4P-OL4-K87
DB	13W3	DBM-13W3P-OL2-K87	DBM-13W3P-OL4-K87
DB	17W2	DBM-17W2P-OL2-K87	DBM-17W2P-OL4-K87
DB	21W1	DBM-21W1P-OL2-K87	DBM-21W1P-OL4-K87
DC	8W8	DCM-8W8P-OL2-K87	DCM-8W8P-OL4-K87
DC	13W6	DCM-13W6P-OL2-K87	DCM-13W6P-OL4-K87
DC	17W5	DCM-17W5P-OL2-K87	DCM-17W5P-OL4-K87
DC	21WA4	DCM-21WA4P-OL2-K87	DCM-21WA4P-OL4-K87
DC	25W3	DCM-25W3P-OL2-K87	DCM-25W3P-OL4-K87
DC	27W2	DCM-27W2P-OL2-K87	DCM-27W2P-OL4-K87
DD	24W7	DDM-24W7P-OL2-K87	DDM-24W7P-OL4-K87
DD	36W4	DDM-36W4P-OL2-K87	DDM-36W4P-OL4-K87
DD	43W2	DDM-43W2P-OL2-K87	DDM-43W2P-OL4-K87
DD	47W1	DDM-47W1P-OL2-K87	DDM-47W1P-OL4-K87

Note: Performance class 3 standard, for performance class 2 add -A191. Example: DEM-5W1P-OL2-A191-K87
♣ Keyed.









Dimensions

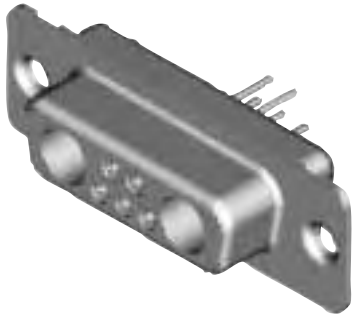
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Straight PC Tails — European (Sizes DE-DD)

Receptacle



Reader's Resource

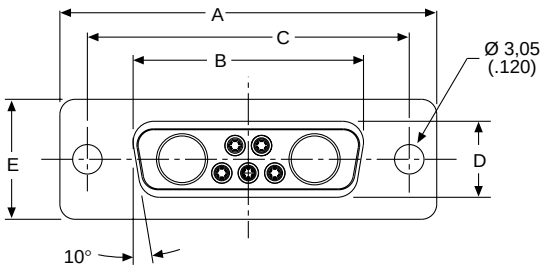
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 269-271.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

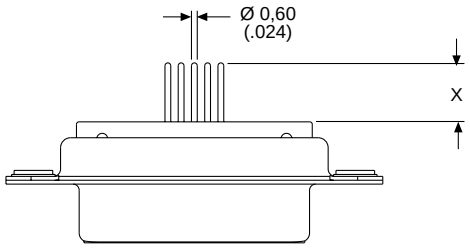
Part Numbers

Shell Size	Layout	Part Number X 4.60 (.181)	Part Number X 6.05 (.238)
DE	5W1	DEM-5W1S-OL2-A197	DEM-5W1S-OL4-A197
DA	7W2	DAM-7W2S-OL2-A197	DAM-7W2S-OL4-A197
DA	11W1	DAM-11W1S-OL2-A197	DAM-11W1S-OL4-A197
DA	3W3	DAM-3W3S-OL2-A197	DAM-3W3S-OL4-A197
DA	3WK3♣	DAM-3WK3S-OL2-A197	DAM-3WK3S-OL4-A197
DB	5W5	DBM-5W5S-OL2-A197	DBM-5W5S-OL4-A197
DB	9W4	DBM-9W4S-OL2-A197	DBM-9W4S-OL4-A197
DB	13W3	DBM-13W3S-OL2-A197	DBM-13W3S-OL4-A197
DB	17W2	DBM-17W2S-OL2-A197	DBM-17W2S-OL4-A197
DB	21W1	DBM-21W1S-OL2-A197	DBM-21W1S-OL4-A197
DC	8W8	DCM-8W8S-OL2-A197	DCM-8W8S-OL4-A197
DC	13W6	DCM-13W6S-OL2-A197	DCM-13W6S-OL4-A197
DC	17W5	DCM-17W5S-OL2-A197	DCM-17W5S-OL4-A197
DC	21WA4	DCM-21WA4S-OL2-A197	DCM-21WA4S-OL4-A197
DC	25W3	DCM-25W3S-OL2-A197	DCM-25W3S-OL4-A197
DC	27W2	DCM-27W2S-OL2-A197	DCM-27W2S-OL4-A197
DD	24W7	DDM-24W7S-OL2-A197	DDM-24W7S-OL4-A197
DD	36W4	DDM-36W4S-OL2-A197	DDM-36W4S-OL4-A197
DD	43W2	DDM-43W2S-OL2-A197	DDM-43W2S-OL4-A197
DD	47W1	DDM-47W1S-OL2-A197	DDM-47W1S-OL4-A197

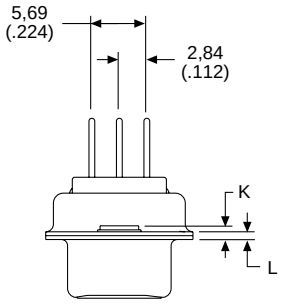
Note: Performance class 3 standard, for performance class 2 add -A191. Example: DEM-5W1S-OL2-A191-A197
♣ Keyed.

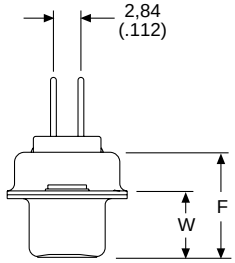
Engaging Face





DD Configuration





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

Solder Cup (Sizes DE-DD)

Plug

Reader's Resource

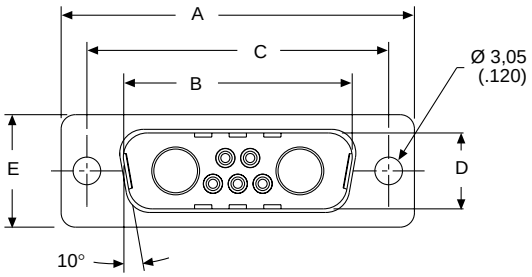
For contact cavity arrangements, see page 222.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

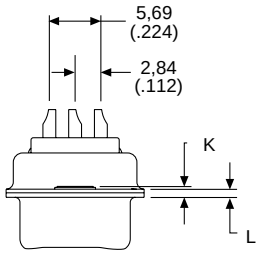
Shell Size	Layout	Through Hole	Dual Float Mount	Clinch Nut #4-40 UNC
DE	5W1	DEM5W1PK87	DEMY5W1PK87	DEME5W1PK87
DA	7W2	DAM7W2PK87	DAMY7W2PK87	DAME7W2PK87
DA	11W1	DAM11W1PK87	DAMY11W1PK87	DAME11W1PK87
DA	3W3	DAM3W3PK87	DAMY3W3PK87	DAME3W3PK87
DA	3WK3♣	DAM3WK3PK87	DAMY3WK3PK87	DAME3WK3PK87
DB	5W5	DBMP5W5PK87	DBMY5W5PK87	DBME5W5PK87
DB	9W4	DBM9W4PK87	DBMY9W4PK87	DBME9W4PK87
DB	13W3	DBM13W3PK87	DBMY13W3PK87	DBME13W3PK87
DB	17W2	DBM17W2PK87	DBMY17W2PK87	DBME17W2PK87
DB	21W1	DBM21W1PK87	DBMY21W1PK87	DBME21W1PK87
DC	8W8	DCM8W8PK87	DCMY8W8PK87	DCME8W8PK87
DC	13W6	DCM13W6PK87	DCMY13W6PK87	DCME13W6PK87
DC	17W5	DCM17W5PK87	DCMY17W5PK87	DCME17W5PK87
DC	21WA4	DCM21WA4PK87	DCMY21WA4PK87	DCME21WA4PK87
DC	25W3	DCM25W3PK87	DCMY25W3PK87	DCME25W3PK87
DC	27W2	DCM27W2PK87	DCMY27W2PK87	DCME27W2PK87
DD	24W7	DDM24W7PK87	DDMY24W7PK87	DDME24W7PK87
DD	36W4	DDM36W4PK87	DDMY36W4PK87	DDME36W4PK87
DD	43W2	DDM43W2PK87	DDMY43W2PK87	DDME43W2PK87
DD	47W1	DDM47W1PK87	DDMY47W1PK87	DDME47W1PK87

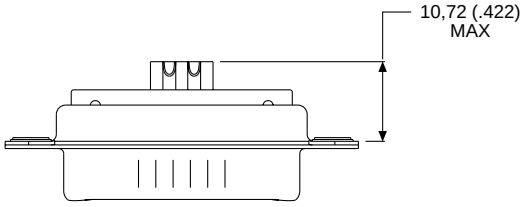
For contacts with 30 microinches gold substitute K127 for K87. Example: DEM5W1PK127
For M3 clinch nuts substitute X for E. Example: DEMX5W1PK87
♣ Keyed.

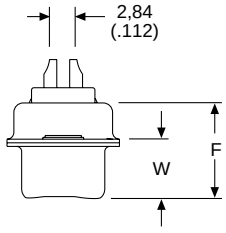
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Solder Cup (Sizes DE-DD)

Receptacle

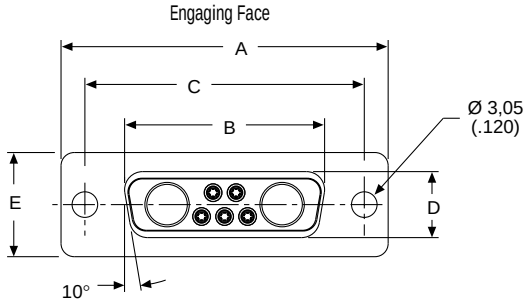
Reader's Resource

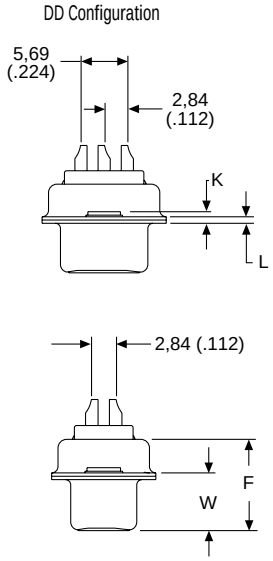
For contact cavity arrangements, see page 223.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount	Clinch Nut #4-40 UNC
DE	5W1	DEM5W1SA197	DEMY5W1SA197	DEME5W1SA197
DA	7W2	DAM7W2SA197	DAMY7W2SA197	DAME7W2SA197
DA	11W1	DAM11W1SA197	DAMY11W1SA197	DAME11W1SA197
DA	3W3	DAM3W3SA197	DAMY3W3SA197	DAME3W3SA197
DA	3WK3♣	DAM3WK3SA197	DAMY3WK3SA197	DAME3WK3SA197
DB	5W5	DBM5W5SA197	DBMY5W5SA197	DBME5W5SA197
DB	9W4	DBM9W4SA197	DBMY9W4SA197	DBME9W4SA197
DB	13W3	DBM13W3SA197	DBMY13W3SA197	DBME13W3SA197
DB	17W2	DBM17W2SA197	DBMY17W2SA197	DBME17W2SA197
DB	21W1	DBM21W1SA197	DBMY21W1SA197	DBME21W1SA197
DC	8W8	DCM8W8SA197	DCMY8W8SA197	DCME8W8SA197
DC	13W6	DCM13W6SA197	DCMY13W6SA197	DCME13W6SA197
DC	17W5	DCM17W5SA197	DCMY17W5SA197	DCME17W5SA197
DC	21WA4	DCM21WA4SA197	DCMY21WA4SA197	DCME21WA4SA197
DC	25W3	DCM25W3SA197	DCMY25W3SA197	DCME25W3SA197
DC	27W2	DCM27W2SA197	DCMY27W2SA197	DCME27W2SA197
DD	24W7	DDM24W7SA197	DDMY24W7SA197	DDME24W7SA197
DD	36W4	DDM36W4SA197	DDMY36W4SA197	DDME36W4SA197
DD	43W2	DDM43W2SA197	DDMY43W2SA197	DDME43W2SA197
DD	47W1	DDM47W1SA197	DDMY47W1SA197	DDME47W1SA197

For contacts with 30 microinches gold substitute K126 for A197. Example: DEM5W1SK126
For M3 clinch nuts substitute X for E. Example: DEMX5W1SA197
♣ Keyed.





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.123)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

Crimp Cable Connectors without Contacts (Sizes DA-DD)

Plug

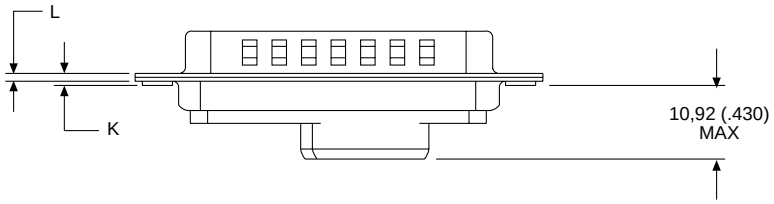
Reader's Resource

For contact cavity arrangements, see page 222.
For panel cutouts, see page 221.

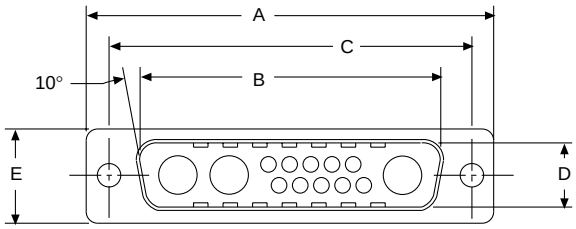
Part Numbers

Shell Size	Layout	Part Number
DA	7W2	DAA7W2PK87F0
DA	11W1	DAA11W1PK87F0
DA	3W3	DAA3W3PK87F0
DB	5W5	DBA5W5PK87F0
DB	9W4	DBA9W4PK87F0
DB	13W3	DBA13W3PK87F0
DB	17W2	DBA17W2PK87F0
DB	21W1	DBA21W1PK87F0
DC	8W8	DCA8W8PK87F0
DC	21WA4	DCA21WA4PK87F0
DC	25W3	DCA25W3PK87F0
DD	24W7	DDA24W7PK87F0
DD	36W4	DDA36W4PK87F0

Note: For crimp (Size 20) contacts and tooling, see pages 83 & 275.



Engaging Face



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

Crimp Cable Connectors without Contacts (Sizes DA-DD)

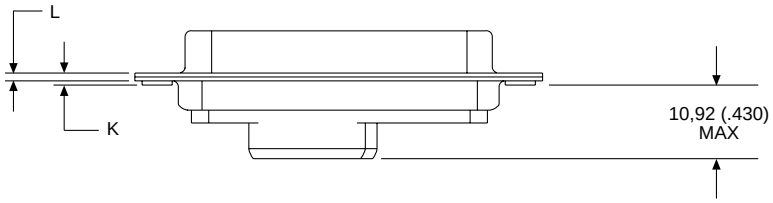
Receptacle

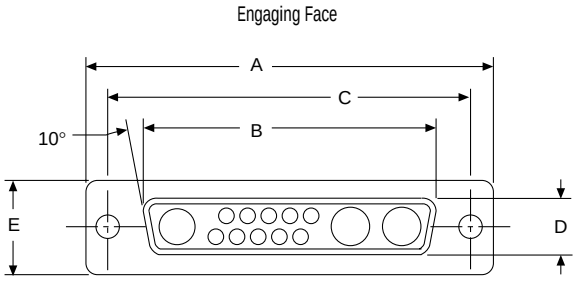
Reader's Resource
For contact cavity arrangements, see page 223.
For panel cutouts, see page 221.

Part Numbers

Shell Size	Layout	Part Number
DA	7W2	DAA7W2SA197F0
DA	11W1	DAA11W1SA197F0
DA	3W3	DAA3W3SA197F0
DB	5W5	DBA5W5SA197F0
DB	9W4	DBA9W4SA197F0
DB	13W3	DBA13W3SA197F0
DB	17W2	DBA17W2SA197F0
DB	21W1	DBA21W1SA197F0
DC	8W8	DCA8W8SA197F0
DC	21WA4	DCA21WA4SA197F0
DD	24W7	DDA24W7SA197F0
DD	36W4	DDA36W4SA197F0

Note: For crimp (Size 20) contacts and tooling, see pages 83 & 275.

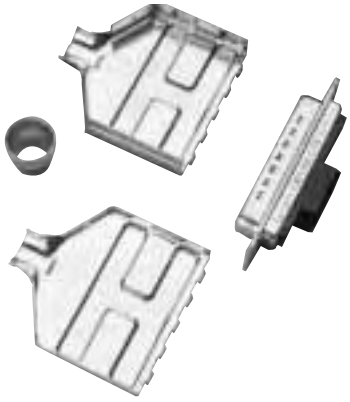




Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,317 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

Shield Cans



Order 1 top can, 1 bottom can, 1 ferrule per connector.

Ø Cable	Ferrule Ø A	Ferrule Part Number	Crimp Tool Part Number	Crimp Tool Position
4,8 - 5,5	6,25 (.246)	304-8810-000	D115433-1	B
5,5 - 6,2	6,25 (.246)	304-8810-000	D115433-1	A
6,2 - 7,2	8,20 (.323)	304-8811-000	D115433-2	B
7,2 - 8,2	8,20 (.323)	304-8811-000	D115433-2	A
8,2 - 9,5	11,50 (.452)	304-8812-000	D115433-3	B
9,5 - 11,1	11,50 (.452)	304-8813-000	D115433-3	A

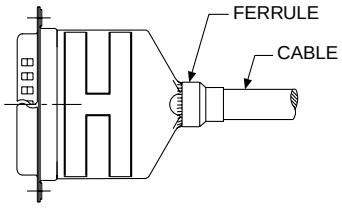
Part Numbers

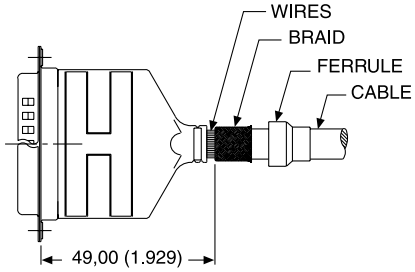
Top Can (B size):	348-8946-000
Bottom Can (B size):	348-8945-000

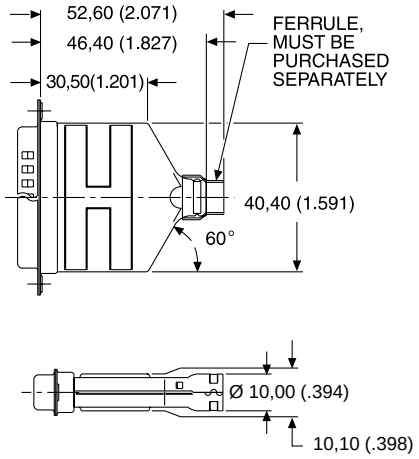
Note: For other available can sizes, consult factory for details.

Materials and Finishes

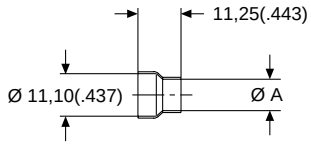
Shield Can and Ferrule	
Material:	Steel
Finish:	Tin



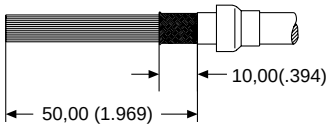




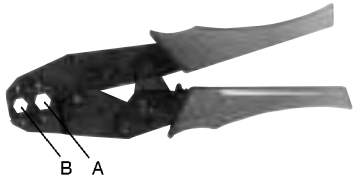
Ferrule



Wire Trim Dimensions



Crimp Tool Positions



ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Crimp (Size 20) Contacts

Loose Contacts

Stamped contacts with insulation support are supplied loose for use with hand crimp tooling. Two sizes are available to accommodate wire ranges 20 - 26 AWG.

Pin Contact

Finish	Part Number Pin Contact	
	24-26 AWG	20-24 AWG
30µ inches Gold over Nickel	030-2487-017	030-2487-016

Socket Contact

Finish	Part Number Socket Contact	
	24-26 AWG	20-24 AWG
30µ inches Gold over Nickel	030-2488-017	030-2488-016

For tooling, see this page.

Reeled Contacts (5,000 Pieces per Reel)

Stamped contacts with insulation support are supplied on reels of 5,000 for use with semi-automatic strip and crimp machines. Two sizes are available to accommodate wire ranges 20 - 26 AWG.

Pin Contacts

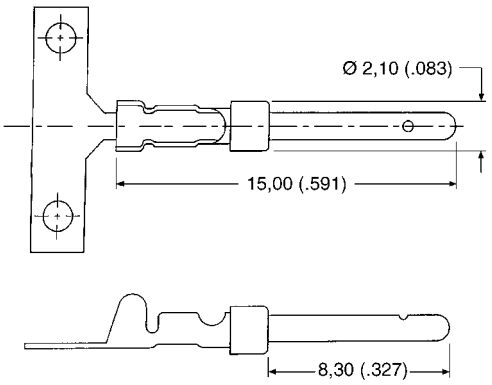
Finish	Part Number Pin Contact	
	24-26 AWG	20-24 AWG
Gold over Nickel	980-2000-925	980-2000-924
30µ inches Gold over Nickel	980-2000-946	980-2000-945

Socket Contacts

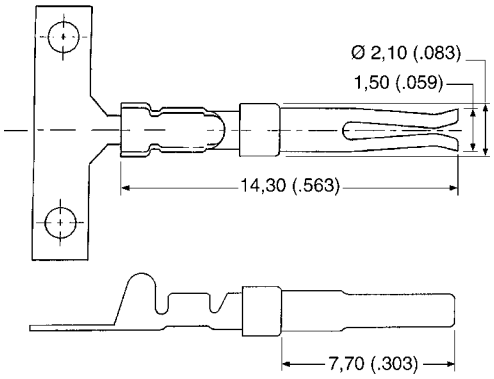
Finish	Part Number Socket Contact	
	24-26 AWG	20-24 AWG
Gold over Nickel	980-2000-926	980-2000-923
30µ inches Gold over Nickel	980-2000-944	980-2000-943

For semi-automatic tooling, see page 275.

Pin Contacts

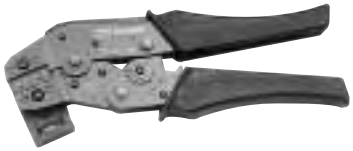


Socket Contacts



Tooling

CCT-D*A-1



Hand Crimp Tool

Description	Part Number
CCT-D*A-1	995-2000-000

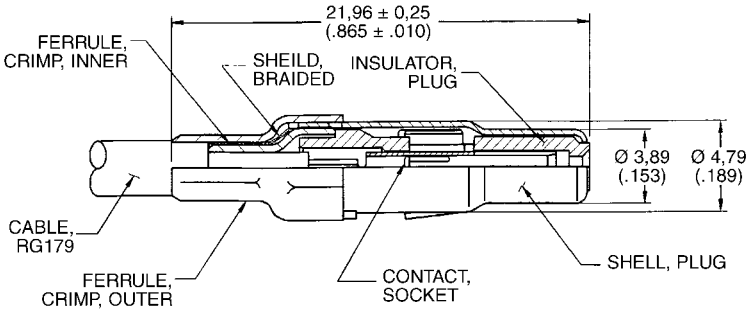
Extraction Tool

Description	Part Number	Wire Size
CIET-D*A-20-24	980-0008-135	20-24 AWG
CIET-D*A-24-26	980-0008-136	24-26 AWG

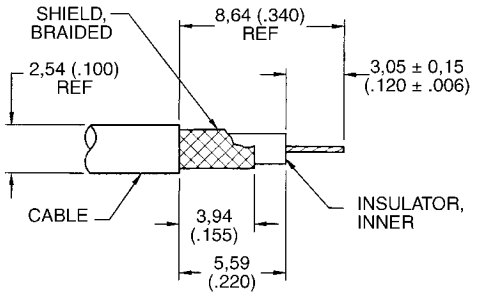
For semi-automatic tooling, see page 275.

Cable (Size 8) Loose Contacts — Coaxial 75 Ohm

Stamped Crimp/Crimp



Recommended Wire Trim Dimensions



Kit (Body, Ferrule, Center Contact)

Stamped Crimp/Crimp	Kit Gold over Ni	Kit 30µ. in. Gold over Ni	Kit 50µ. in. Gold over Ni	RG Cable Number
Plug	D130322-2	D130322-1	D130322-6	179/U
Receptacle	D130344-1	D130344	D130344-2	179/U

Loose Components for High Volume (3 Pieces — Body, Ferrule, Center Contact)

Stamped Crimp/Crimp	Body	Ferrule	Center Contact Gold over Ni 10,000 Reel	Center Contact 30µ. in. Gold over Ni 10,000 Reel
Plug	249-2272-000	304-0444-000	110238-1015	110238-1012
Receptacle	249-2271-000	304-0444-000	110238-1014	110238-1013

Tooling for Stamped Crimp/Crimp

Description	Crimping Tool	Tool Number
Stamped Center Conductor	Hand Crimp, "B" Crimp	CCTP-750HM
	Semi-Automatic Crimper	ABT-607 (Leased)
Stamped Outer Conductor	Hand Tool, Hex Crimp	CCTP-DM
	Pneumatic Hex Crimp	995-2000-094

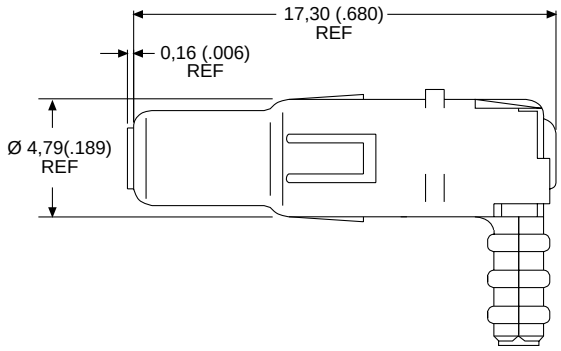
For semi-automatic tooling, see page 275.

Dimensions are shown in mm (inch)
Dimensions subject to change

Cable (Size 8) Loose Contacts — Coaxial 75 Ohm — 90°

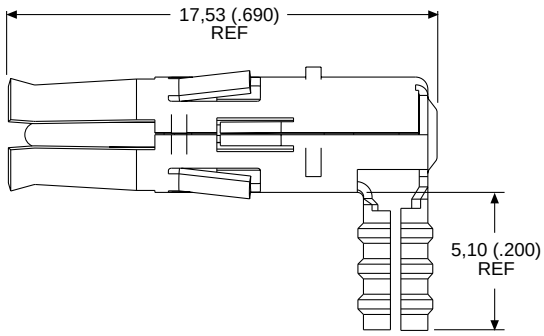
90° Crimp Braid/Solder Center Contact

	Part Number Gold over Ni	Part Number 30µ in. Gold over Ni	Part Number 50µ in. Gold over Ni
Plug	D130357-1	D130357	D130357-4
Receptacle	D130356-1	D130356	D130356-3



Plug

Note: Ferrule not shown.



Receptacle

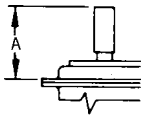
Note: Ferrule not shown.

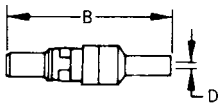
Tooling for 90° Crimp Braid

Description	Part Number
Hand Tool:	995-0001-761
Die Set:	995-2000-110

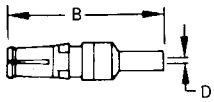
Cable (Size 8) Loose Contacts — Coaxial 50 Ohm — Straight

Straight Crimp Braid





Plug



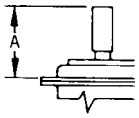
Receptacle

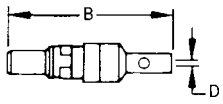
Note: Dimensions include outer sleeve.

	Part Number Gold Over Nickel	Part Number 50µ in. Gold Over Copper	A max.	B max.	D min.	RG Cable Number Old	New
Plug	DM53740	DM53740-17	18,80 (.739)	24,00 (.945)	1,00 (.040)	196/U	178B/U
Plug	DM53740-1	DM53740-15	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Plug	DM53740-35	—	18,80 (.739)	24,00 (.945)	1,70 (.067)	—	RD316
Plug	DM53740-3	DM53740-16	21,50 (.847)	26,34 (1.037)	2,79 (.110)	195/U	180B/U
Plug	DM53740-5	DM53740-18	21,50 (.847)	26,34 (1.037)	3,18 (.125)	58/U	58B/U
Receptacle	DM53742	DM53742-18	18,80 (.739)	24,00 (.945)	1,00 (.040)	196/U	178B/U
Receptacle	DM53742-1	DM53742-16	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Receptacle	DM53742-36	—	18,80 (.739)	24,00 (.945)	1,70 (.067)	—	RD316
Receptacle	DM53742-3	DM53742-17	21,50 (.847)	26,34 (1.037)	2,79 (.110)	195/U	180B/U
Receptacle	DM53742-5	DM53742-19	21,50 (.847)	26,34 (1.037)	3,18 (.125)	58/U	58B/U

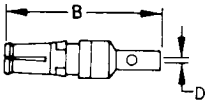
For crimp tooling, see page 89.

Straight Solder Braid





Plug



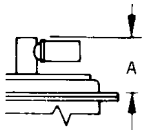
Receptacle

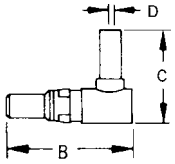
	Part Number Gold Over Nickel	Part Number 50µ in. Gold Over Copper	A max.	B max.	D min.	RG Cable Number Old	New
Plug	DM53740-5008	DM53740-5105	18,80 (.739)	24,00 (.945)	1,00 (.040)	196/U	178B/U
Plug	DM53740-5001	DM53740-5099	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Plug	DM53740-5145	—	18,80 (.739)	24,00 (.945)	1,70 (.067)	—	RD316
Plug	DM53740-5002	DM53740-5104	21,50 (.847)	26,34 (1.037)	2,79 (.110)	195/U	180B/U
Plug	DM53740-5005	DM53740-5101	21,50 (.847)	26,34 (1.037)	3,18 (.125)	58/U	58/U
Plug (Short Type)	DM53740-5000	DM53740-5100	17,00 (.670)	22,20 (.874)	1,14 (.045)	196/U	178B/U
Receptacle	DM53742-5006	DM53742-5092	18,80 (.739)	24,00 (.945)	1,00 (.040)	196/U	178B/U
Receptacle	DM53742-5001	DM53742-5089	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Receptacle	DM53742-5126	—	18,80 (.739)	24,00 (.945)	1,70 (.067)	—	RD316
Receptacle	DM53742-5002	DM53742-5091	21,50 (.847)	26,34 (1.037)	2,79 (.110)	195/U	180B/U
Receptacle	DM53742-5004	DM53742-5086	21,50 (.847)	26,34 (1.037)	3,18 (.125)	58/U	58/U
Receptacle (Short Type)	DM53742-5000	DM53742-5085	17,00 (.670)	22,20 (.874)	1,14 (.045)	196/U	178B/U

Dimensions are shown in mm (inch)
Dimensions subject to change

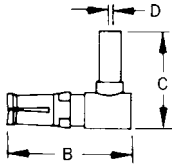
Cable (Size 8) Loose Contacts — Coaxial 50 Ohm — 90°

90° Crimp Braid





Plug



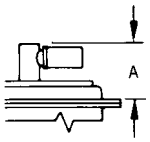
Receptacle

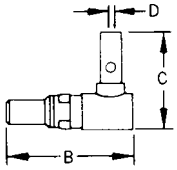
Note: Dimensions include outer sleeve.

	Part Number Gold Over Nickel	Part Number 50µ in. Gold Over Copper	A max.	B max.	C	D ±0,13 (.005)	RG Cable Number Old	RG Cable Number New
Plug	DM53741	DM53741-12	13,46 (.530)	18,92 (.745)	15,10 (.594)	1,14 (.045)	196/U	178B/U
Plug	DM53741-1	DM53741-11	13,46 (.530)	18,92 (.745)	15,10 (.594)	1,83 (.072)	187/U 188/U	179B/U 316B/U
Plug	DM53741-3	DM53741-10	13,46 (.530)	18,92 (.745)	16,00 (.630)	2,79 (.110)	195/U	180B/U
Plug	DM53741-4	DM53741-13	13,46 (.530)	18,92 (.745)	16,00 (.630)	3,18 (.125)	58/U	58B/U
Receptacle	DM53743-2	DM53743-18	13,46 (.530)	18,92 (.745)	15,09 (.594)	1,14 (.045)	196/U	178B/U
Receptacle	DM53743-3	DM53743-16	13,46 (.530)	18,92 (.745)	15,09 (.594)	1,83 (.072)	187/U 188/U	179B/U 316B/U
Receptacle	DM53743-5	DM53743-17	13,46 (.530)	18,92 (.745)	16,00 (.630)	2,79 (.110)	195/U	180B/U
Receptacle	DM53743-6	DM53743-19	13,46 (.530)	18,92 (.745)	16,00 (.630)	3,18 (.125)	58/U	58B/U

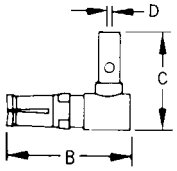
For crimp tooling, see page 89.

90° Solder Braid





Plug



Receptacle

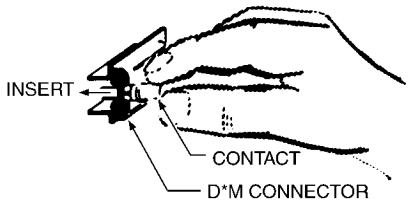
	Part Number Gold Over Nickel	Part Number 50µ in. Gold Over Copper	A max.	B max.	C	D min.	RG Cable Number Old	RG Cable Number New
Plug	DM53741-5000	DM53741-5059	13,46 (.530)	18,92 (.745)	15,10 (.594)	1,00 (.040)	196/U	178B/U
Plug	DM53741-5001	DM53741-5062	13,46 (.530)	18,92 (.745)	15,10 (.594)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Plug	DM53741-5003	DM53741-5063	13,46 (.530)	18,92 (.745)	16,00 (.630)	2,79 (.110)	195/U	180B/U
Plug	DM53741-5004	DM53741-5060	13,46 (.530)	18,92 (.745)	16,00 (.630)	3,18 (.125)	58/U	58/U
Receptacle	DM53743-5000	DM53743-5073	13,46 (.530)	18,92 (.745)	15,09 (.594)	1,00 (.040)	196/U	178B/U
Receptacle	DM53743-5001	DM53743-5076	13,46 (.530)	18,92 (.745)	15,09 (.594)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Receptacle	DM53743-5003	DM53743-5077	13,46 (.530)	18,92 (.745)	16,00 (.630)	2,79 (.110)	195/U	180B/U
Receptacle	DM53743-5004	DM53743-5074	13,46 (.530)	18,92 (.745)	16,00 (.630)	3,18 (.125)	58/U	58B/U

Insertion/Extraction Instructions for Coaxial, High Power and High Voltage Contacts

Insertion Tool

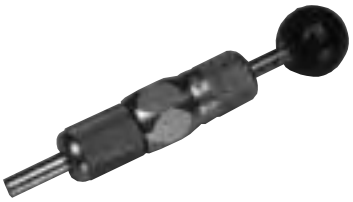
No insertion tool is required. The contact is easily snapped in from the rear of the connector manually.

Insertion Instructions



Extraction Tool

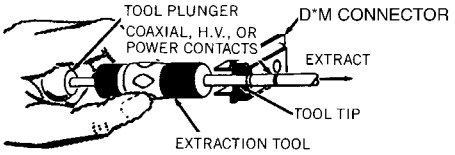
CET-C6B-2



The CET-C6B-2 tool extracts all coaxial, high power and high voltage contacts (plug and receptacle).

Description	Part Number
CET-C6B-2	070064-0002

Operating Instructions



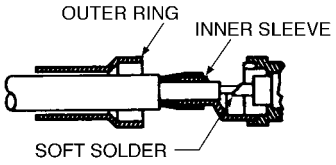
To extract the coaxial contact, hold the tool by the body and insert the tip into the front of the contact cavity until it bottoms and closes the coaxial retaining ring. Holding the body in this position securely enough to keep coaxial retaining ring closed, push the plunger; contact will be pushed out of the rear of the assembly.

Dimensions are shown in mm (inch)
Dimensions subject to change

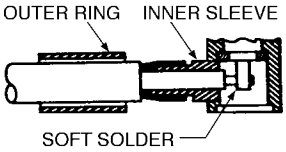
Coaxial Assembly Instructions

Straight and 90° Coaxial Assembly
STEP 1:
Slide the outer ring over the cable jacket. Trim the cable as specified in the table of Coaxial Cable Trim Dimensions (see this page). Insert the cable dielectric and center conductor into the inside diameter of the inner sleeve. Then solder the center conductor to the coaxial center contact.

Straight Coaxial

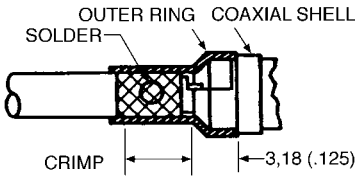


90° Coaxial

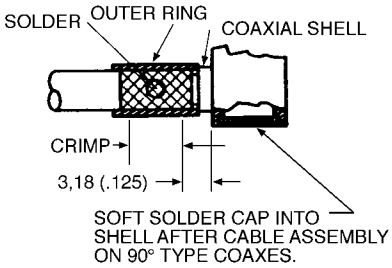


Straight and 90° Coaxial Assembly
STEP 2:
Slide the outer ring forward until it is flush with the coaxial shell containing the braid between the outer ring and the inner sleeve. For solder type coaxes, soft solder the outer ring to the assembly through the cross-drilled solder hold. For crimp type coaxes, crimp with the appropriate tool in the area defined.

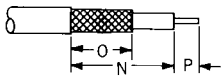
Straight Coaxial



90° Coaxial



Coaxial Cable Trim Dimensions



	Straight Coaxial			90° Coaxial		
RG Cable Number	N ± 0,25 (.010)	O ± 0,25 (.010)	P ± 0,25 (.010)	N ± 0,25 (.010)	O ± 0,25 (.010)	P ± 0,25 (.010)
196/U, 178B/U, 187/U, 188/U, 179B/U, 316B/U	7,92 (.312)	6,35 (.250)	1,98 (.078)	9,52 (.375)	5,94 (.234)	1,57 (.062)
195/U, 180B/U, 58/U, 58B/U	9,52 (.375)	7,92 (.312)	1,98 (.078)	10,69 (.422)	7,92 (.312)	2,39 (.094)

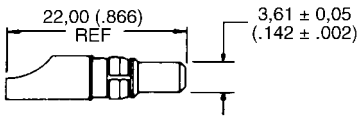
Crimp Tooling

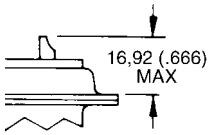
Hand tool with integral die set for all coaxial straight crimp braid.

RG Cable Number	Tool Part Number	Description	Closure
196/U, 178B/U	070051-0000	CCT-DM	C
187/U, 179B/U, 188/U, 316B/U	070051-0000	CCT-DM	B
195/U, 180B/U, 58/U, 58B/U	070051-0000	CCT-DM	A

Cable (Size 8) Loose Contacts — High Power — Solder

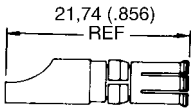
Plug

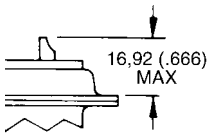




Part Number Gold Over Nickel	Part Number 50µ in. Gold over Ni	Current Rating	Wire Size
DM53745-1	DM53745-28	40 A	8 AWG
DM53745-7	DM53745-27	20 A	12 AWG
DM53745-8	DM53745-25	10 A	16 AWG

Receptacle

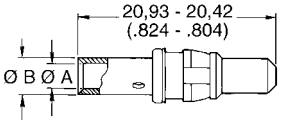




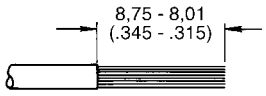
Part Number Gold Over Nickel	Part Number 50µ in. Gold over Ni	Current Rating	Wire Size
DM53744-1	DM53744-21	40 A	8 AWG
DM53744-6	DM53744-25	20 A	12 AWG
DM53744-7	DM53744-24	10 A	16 AWG

Cable (Size 8) Loose Contacts — High Power — Crimp

Plug

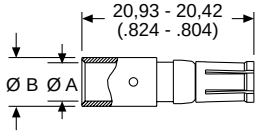


Recommended Wire Trim Length

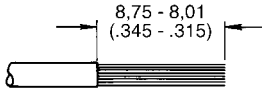


Part Number Gold Over Nickel	Part Number 30µ in. Gold over Ni	Part Number 50µ in. Gold over Ni	ØA max.	ØB max.	Current Rating	Wire Size
DM130338-4	DM130338	DM130338-1	4,60 (.181)	5,84 (.230)	40 A	8 AWG
DM130339-4	DM130339	DM130339-1	2,54 (.100)	5,54 (.218)	20 A	12 AWG
DM130340-4	DM130340	DM130340-1	1,07 (.067)	2,59 (.102)	10 A	16 AWG

Receptacle



Recommended Wire Trim Length



Part Number Gold Over Nickel	Part Number 30µ in. Gold over Ni	Part Number 50µ in. Gold over Ni	ØA max.	ØB max.	Current Rating	Wire Size
DM130341-4	DM130341	DM130341-1	4,60 (.181)	5,84 (.230)	40 A	8 AWG
DM130342-4	DM130342	DM130342-1	2,54 (.100)	5,54 (.218)	20 A	12 AWG
DM130343-4	DM130343	DM130343-1	1,07 (.067)	2,59 (.102)	10 A	16 AWG

High Power Crimp Tooling

M300-BT

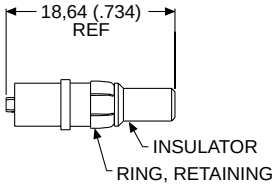
Wire Size	Crimp Tool/Locator		
	Crimp Tool	Tool Setting Number	Locator
8 AWG	M300-BT	6	TP968
10 AWG	M300-BT	5	TP968
12/14 AWG	M300-BT	1	TP968
16 AWG	FT-8	6	TH554
18 AWG	FT-8	5	TH554

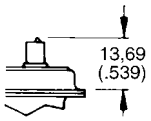
ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Cable (Size 8) Loose Contacts — High Voltage — Straight

Plug

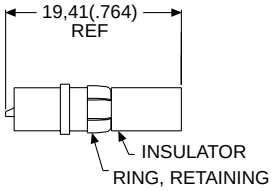


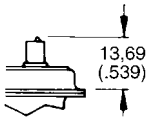


For tooling, see page 88.

Part Number Gold over Ni	Part Number 50µ. in. Gold	Wire Size
DM51157	DM51157-8	20 AWG

Receptacle



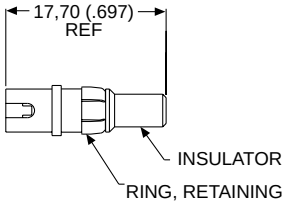


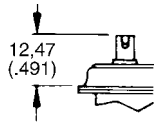
For tooling, see page 88.

Part Number Gold over Ni	Part Number 50µ. in. Gold	Wire Size
DM51155	DM51155-7	20 AWG

Cable (Size 8) Loose Contacts — High Voltage — 90°

Plug

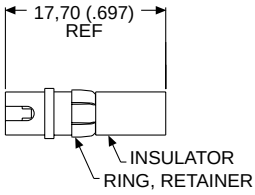


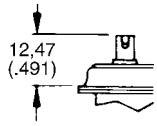


For tooling, see page 88.

Part Number Gold over Ni	Part Number 50µ. in. Gold	Wire Size
DM51157-5000	DM51157-5005	20 AWG

Receptacle



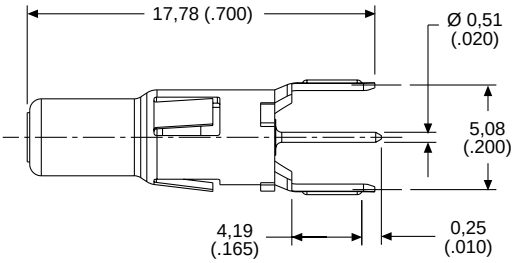


For tooling, see page 88.

Part Number Gold over Ni	Part Number 50µ. in. Gold	Wire Size
DM51155-5000	DM51155-5004	20 AWG

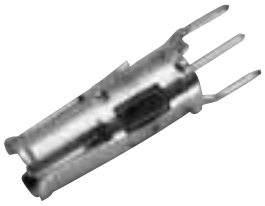
PCB (Size 8) Loose Contacts — Coaxial 75 Ohm — Straight

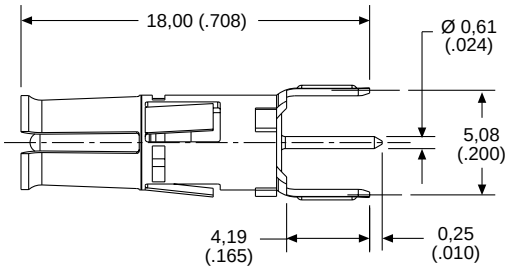
Plug



Description	Part Number
Plug	DM130358-2

Receptacle

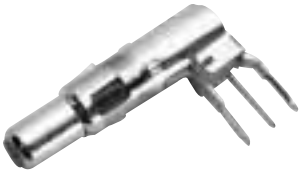


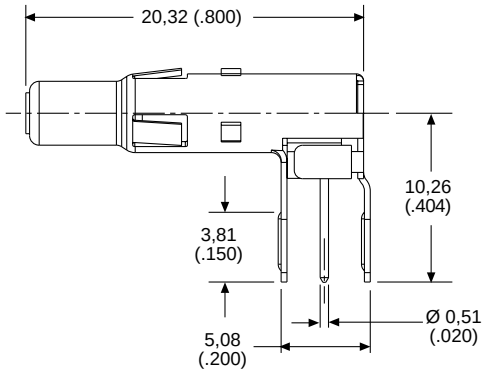


Description	Part Number
Receptacle	DM130346-2

PCB (Size 8) Loose Contacts — Coaxial 75 Ohm — 90°

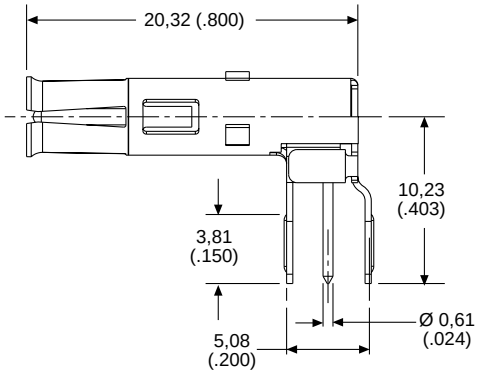
Plug





Description	Part Number
Plug	DM130352-2

Receptacle



Description	Part Number
Receptacle	DM130321-3

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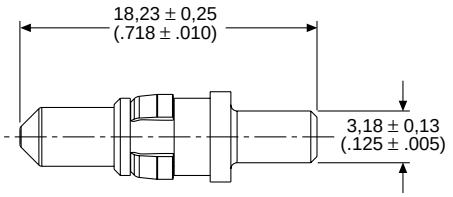
Dimensions are shown in mm (inch)
Dimensions subject to change

PCB (Size 8) Loose Contacts — High Power — Straight

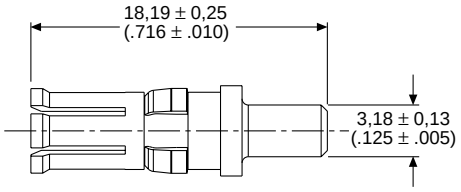
Pin

Description	Part Number
Pin	DM53745-110



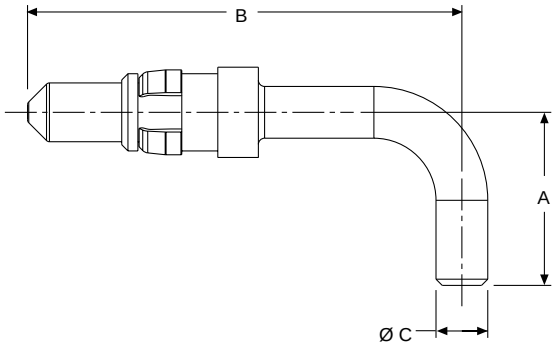
Socket

Description	Part Number
Socket	DM53744-98



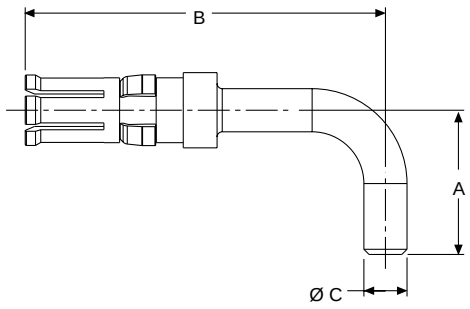
PCB (Size 8) Loose Contacts — High Power —90°

Pin



Shell Size	Part Number	A ± 0,25 (.010)	B ±0,25 (.010)	Ø C ±0,13 (.005)
DE, DA, DB, DC	DM53745-104	10,62 (.418)	26,64 (1.049)	3,18 (.125)
DD	DM53745-107	13,41 (.528)	26,64 (1.049)	3,18 (.125)
European Footprint DE, DA, DB, DC, DD	DM53745-120	18,06 (.711)	11,00 (.433)	2,90 (.114)

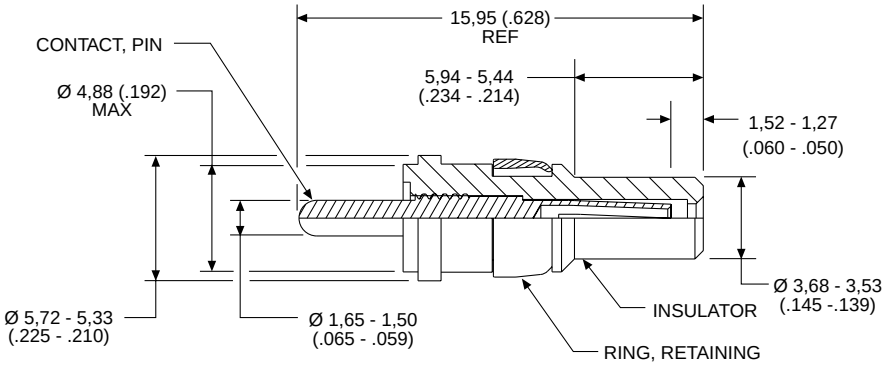
Socket



Shell Size	Part Number	A ± 0,25 (.010)	B ±0,25 (.010)	Ø C ±0,13 (.005)
DE, DA, DB, DC	DM53744-92	13,41 (.528)	26,52 (1.044)	3,18 (.125)
DD	DM53744-95	10,62 (.418)	26,52 (1.044)	3,18 (.125)
European Footprint DE, DA, DB, DC, DD	DM53744-107	11,00 (.433)	17,93 (.706)	2,90 (.114)

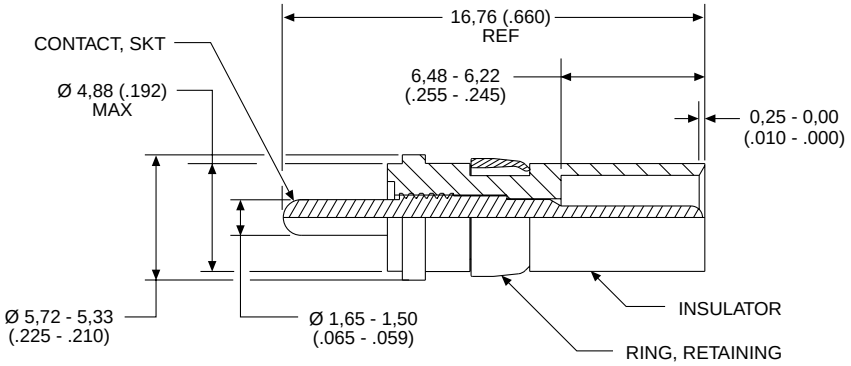
PCB (Size 8) Loose Contacts — High Voltage — Straight

Plug



Part Number Gold over Ni	Part Number 50µ in. Gold
DM51157-13	DM51157-14

Receptacle



Part Number Gold over Ni	Part Number 50µ in. Gold
DM51155-12	DM51155-13

ITT Cannon

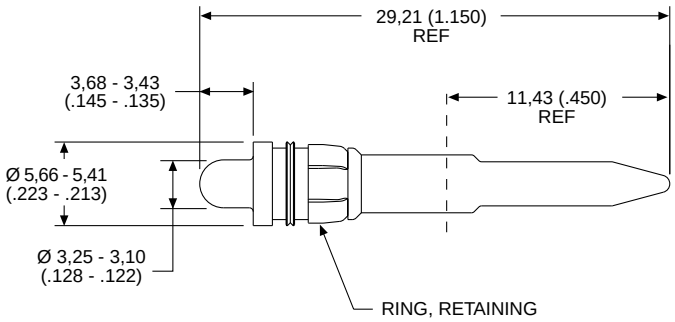
Dimensions are shown in mm (inch)
Dimensions subject to change

PCB Guide Pin and Socket

Installs into any Combo D, Size 8 cavity. This guide pin and socket system is ideal for blind mate applications where space is limited.

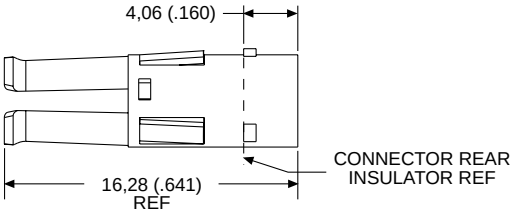
PCB Guide Pin

Part Number	Material	Finish
DM53745-126	Copper Alloy	Tin



PCB Guide Socket

Part Number	Material	Finish
248-2967-000	Copper Alloy	Tin



Selection Index Page

Commercial Shielded Micro D

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Locking/Latching Options 98
Cable Assemblies — Pigtail 98
PCB Connector 90° — Single or Stacked 99
Cable Connectors (Unassembled Components) 100
Crimp Contacts 100
Tooling 101
MDSM SSA Compatible Cable Assemblies 102

Dimensions are shown in mm (inch)
Dimensions subject to change

MDSM is the commercial industry's smallest D-type connector for shielded I/O wire-to-board applications. Requiring less than 1/3 the area of a traditional D Subminiature connector, MDSM is designed for situations where space and EMI shielding are the primary design drivers.

Unlike other micro connectors, MDSM's rugged construction and unique contact design combined with a PdNi contact finish provide durability of 10,000 mating cycles. All of this comes in a sleek package that includes a snap together shield can and a slide over boot producing a cable assembly with an overmolded look and a low assembled cost. MDSM is an ideal solution for applications where size, shielding, durability and aesthetics are key design criteria.

Applications:
- Electronic Notepads
- VME Cards
- Multiplexors
- Serial Storage Devices
- Computer Workstations
- Hand Held Devices
- Bar Code Scanners

Product Features

- 1,27 (.050) Pitch / Saves Space
- Fully Shielded / Reduces EMI
- Crimp Contacts / Applied Cost Savings
- Accessories Included / Fewer Part Numbers
- PdNi Plating / 10,000 Mating Cycles
- Stacked Versions / Saves Horizontal Space
- Slide Over Boot / Results in Overmolded Appearance
- Choice of Two Different Latching Options (Thumbscrew / Push-Pull)
- Approvals & Certifications
  - SSA (Serial Storage Architecture)
  - U.L. File Number E8572
  - ISO 9001

Specifications

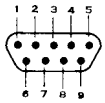
Temperature Rating	– 55°C to 125°C
Current Rating	1 A — temp dependent
Contact Resistance	20 mΩ Max.
Insulation Resistance	5000 MΩ Min.
Dielectric Withstanding Voltage	350 V at Sea Level
Durability	10,000 Mating Cycles
Shock / Vibration	50 G's / 50 G's
Wire Size	26 to 30 AWG

Materials and Finishes

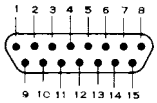
Description	Material	Finish
Shell	Steel	Nickel
Shield Can	Steel	Tin
Cover	Steel	Tin
Insulator	Thermoplastic, UL94 V-O	None
Contacts	Copper Alloy	Gold flash over 30 microinches PdNi in mating area, Tin on balance

Contact Arrangements

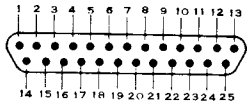
(Face View of Pin Insert — Use Mirror Image for Socket Side)



9 Contacts



15 Contacts



25 Contacts

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Locking/Latching Options

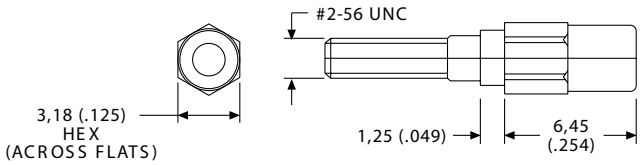
Jackscrew

The jackscrew locking system is designed for applications which require a secure connection. Utilize thumbscrews when the connectors are infrequently unmated.

Push/Pull

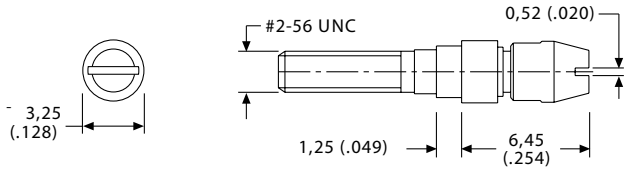
The push/pull latching system is designed for applications which require a quick connect and disconnect. A spring retention mechanism latches to a post on the board side to prevent unintentional unmatings.

Z10 Jackpost



Note: Two Jackposts supplied with boardside connectors.

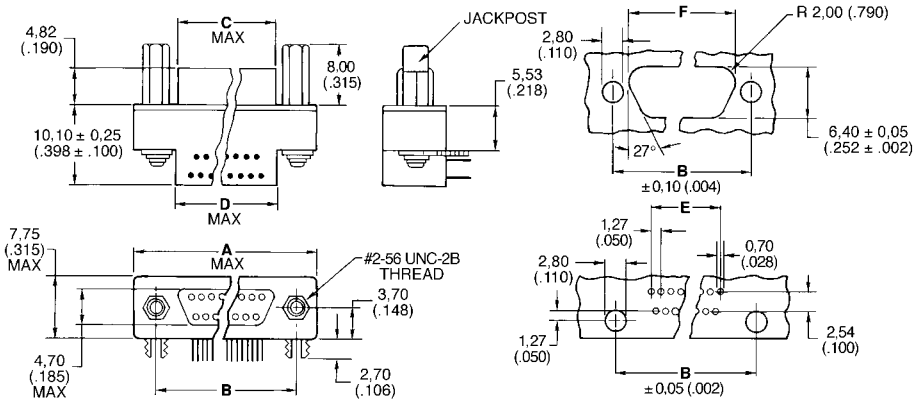
Z42 Jackpost



Note: Two Jackposts supplied with boardside connectors.

Dimensions are shown in mm (inch)
Dimensions subject to change

PCB Connector 90° - Single

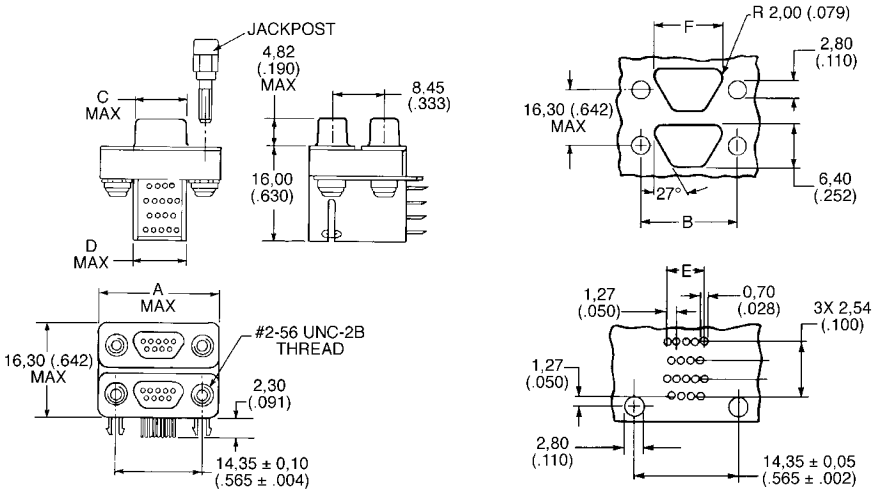


Note: Standard jackpost offering recommended for use with .060 panel.

No. of Contacts	Part Numbers - Single		A	B	C	D	E	F
	Thumbscrew	Push/Pull	max.		max.	max.		±0,05 (.002)
9	MDSM-9PE-Z10-VR25*	MDSM-9E-Z42-VR25*	19,90 (.783)	14,35 (.565)	8,60 (.339)	9,00 (.354)	5,08 (.200)	10,24 (.403)
15	MDSM-15PE-Z10-VR22	MDSM-15PE-Z42-VR22	23,60 (.929)	18,16 (.715)	12,30 (.484)	12,90 (.508)	8,89 (.350)	14,01 (.551)
25	MDSM-25PE-Z10-VR17	MDSM-25PE-Z42-VR17	29,95 (1.179)	24,51 (.965)	18,65 (.734)	19,25 (.758)	15,24 (.600)	20,35 (.801)

*For use with SSA applications

PCB Connector 90° - Stacked



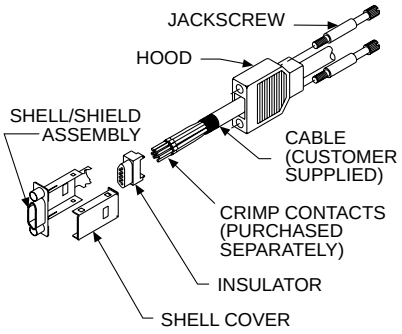
No. of Contacts	Part Numbers - Stacked		A	B	C	D	E	F
	Thumbscrew	Push/Pull	max.		max.	max.		
18	MDSM-18PE-Z10-VR25*	MDSM-18PE-Z42-VR25*	19,90 (.783)	14,35 (.565)	8,60 (.339)	9,00 (.354)	5,08 (.200)	10,24 (.403)
30	MDSM-30PE-Z10-VR22	MDSM-30PE-Z42-VR22	23,50 (.925)	18,16 (.715)	12,30 (.484)	12,71 (.500)	8,89 (.350)	14,00 (.551)

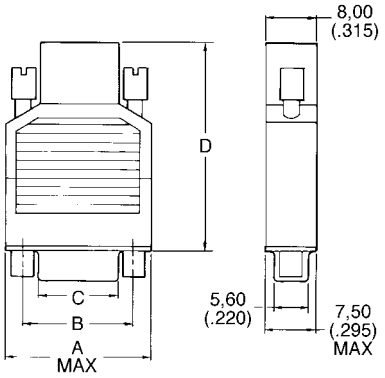
*For use with SSA applications

Cable Connectors (Unassembled Components)

Jackscrew

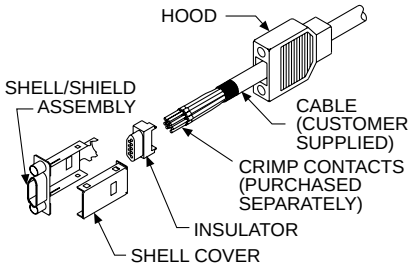
Cable connectors are supplied as complete kits with insulator, hood, locking hardware, shell/shield assembly, and cover, bulk packaged.

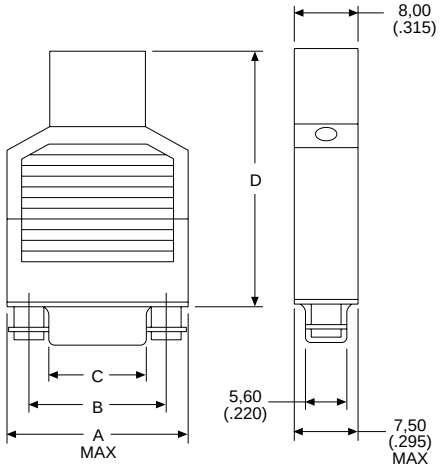




Push/Pull

Cable connectors are supplied as complete kits with insulator, hood, shell/shield assembly, and cover, bulk packaged.



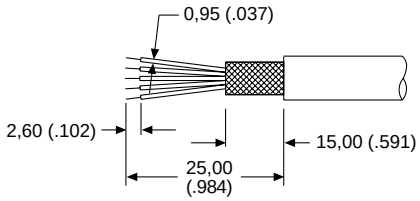


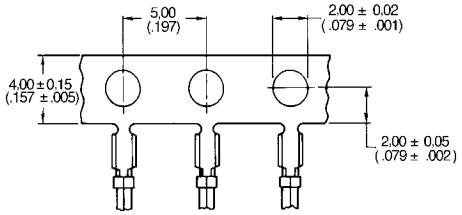
Layout	Jackscrew Part Numbers	Push/Pull Part Numbers	A max.	B 0,10 (.004)	C 0,10 (.004)	D max.	Max. Cable Entry
9	MDSM-9SC-Z11-VS1	MDSM-9SC-Z24-VS1	19,90 (.783)	14,35 (.565)	9,45 (.372)	35,50 (1.40)	5,70 (.224)
15	MDSM-15SC-Z11-VS1	MDSM-15SC-Z24-VS1	23,70 (.993)	18,16 (.715)	13,17 (.519)	35,50 (1.40)	6,70 (.264)
25	MDSM-25SC-Z11-VS1	MDSM-25SC-Z24-VS1	30,05 (1.183)	24,51 (.965)	19,52 (.769)	42,50 (1.67)	7,90 (.311)

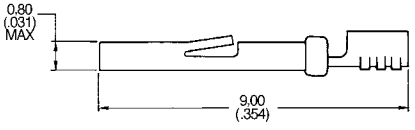
Note: VS1 refers to packaging multiples of 100.
Contacts are sold separately, see this page.

Crimp Contacts

Wire Trim Dimensions







	Part Numbers	
	1,000 Piece Reel	10,000 Piece Reel
Socket	MDS-S-TS	MDS-S-RL

For crimp tooling, see page 101.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Contact Crimping Tools

Parallel Action Low Volume Hand Tool

Part Number: CCTP-MDS

Note: For use with individual contacts (break off reel MDS-S-TS or MDS-S-RL.

Hand Tool

Part Number: CCTR-MDS

Note: For use with reeled contacts - Part Number MDS-S-TS.

Semi-Automatic Crimper/Stripper

Part Number: ABT-620-MDS (Lease Only)

Note: For use with reeled contacts - Part Number MDS-S-RL.
For additional information, see page 275.
Crimp dies for SSA Cable will be offered by ITT Cannon. Consult factory for details.

Contact Insertion/Extraction Tools

Jackpost Tool

Part Number: CIET-MDSM

Note: For use with Z10 Jackpost.

Insertion Tool

Part Number: 120090-0102

Note: Contacts cannot be removed from MDSM connectors.

Shield Crimp Tooling

Shield crimping requires four items; one press, one locator, and one each of the two dies listed below.
Locator and Dies for Shield Termination Ordered Separately

	Part Numbers	
Layout	Locator	Die
9	317-8666-013	274-8649-332/274-8649-333
15	317-8666-014	274-8649-334/274-8649-335
25	317-8666-016	274-8649-338/274-8649-339

Note: For assembly instructions and crimping information, refer to Manual #MY-1/190.

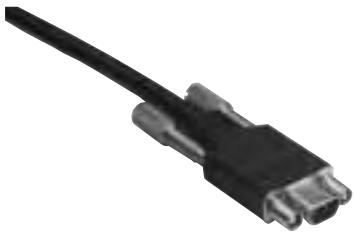
Hand Press

Part Number: CHP-MDSM-SR

Pneumatic Press

Part Number: CPT-MDSM-SR

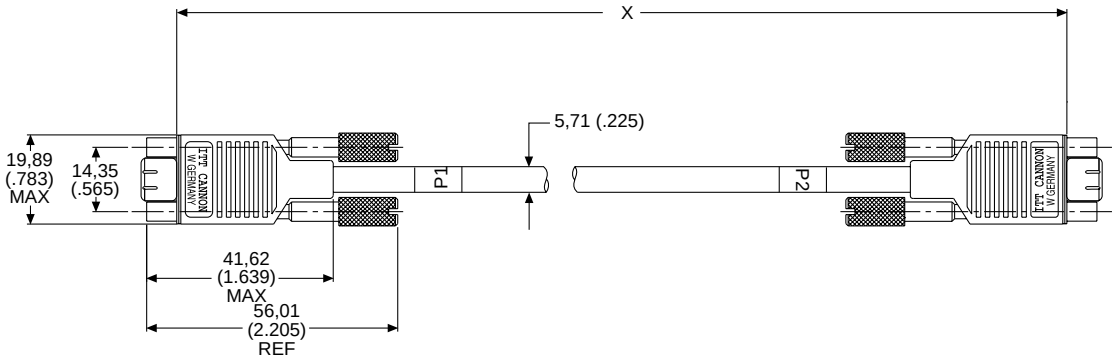
MDSM SSA Compatible Cable Assemblies



ITT Cannon's 9 position MDSM connectors have been designed into the ANSI specification called SSA, ''Serial Storage Architecture,'' as the external I/O. SSA is a new serial interface for interconnecting storage devices, storage subsystems, servers and workstations. Storage subsystems are increasing in function, availability, density and performance. With this comes the trend for them to become more complex and ITT Cannon has the interconnect system which meets SSA's high performance requirements.

SSA is an architecture which allows these new subsystems to be implemented more easily and at lower costs than other new high speed parallel interfaces. SSA permits the transfer of data at progressively higher speeds - 20 MB/sec interface currently available with 40 MB/sec becoming available in 1997/98. ITT Cannon's MDSM connector not only functions at these high speeds, but also brings to SSA smaller, less cumbersome and higher reliability cables and connectors than current options.

ITT Cannon is offering SSA compatable external cable assemblies in six different lengths to meet your needs. These assemblies consist of two MDSM 9SC type cable connectors terminated to SSA specified external cable.

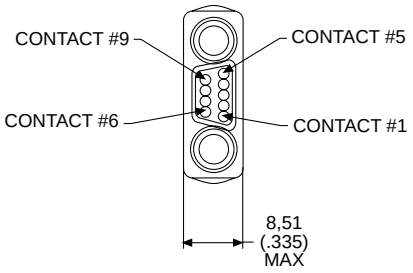


Note: Cables shown with Z50 thumbscrews.

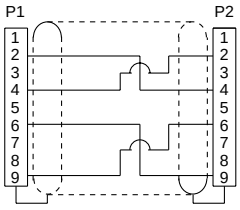
Part Number	X Meter (Feet)	Tolerance
CA112104	0,50 (1.600)	±25,00 (1.000)
CA112104-1	1,00 (2.200)	±25,00 (1.000)
CA112104-2	3,00 (9.800)	±25,00 (1.000)
CA112104-3	5,00 (16.400)	±64,00 (2.500)
CA112104-4	10,00 (32.800)	±64,00 (2.500)
CA112104-5	20,00 (65.600)	±64,00 (2.500)

Note: For push/pull assemblies or other thumbscrews, please consult the factory.
Crimp dies for SSA applications will be offered by ITT Cannon. Consult factory for details.

Pinout



SSA External Cable Wiring Table



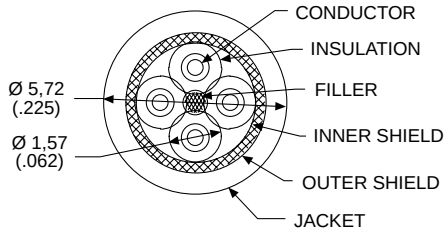
Note: Shield connected to both shells.

External Cable Pinouts

P1		P2	
Pin	Signal Name	Pin	Signal Name
2	LineOut–	4	LineIn–
6	LineOut+	9	LineIn+
4	LineIn–	2	LineOut–
9	LineIn+	6	LineOut+

Note: Pins 1, 3, 5, 7 and 8 are not connected.

SSA External Cable Wire Cross Section (For Reference Only)



Transfer Impedance Performance Requirements for External SSA Connections

Frequency MHz	Value (dB-Ohm)(max.)
30	–25
159	–16
500	–10

Selection Index Page

Filter D

An Introduction to D*JK and D*JT 105
D*JK Filter Performance and Electrical Data 106
D*JT Filter Performance and Electrical Data 107
D*JK Connectors
Standard Footprint .318♦ or .283♦♦ inches
90° PC Tails 108
90° PC Tails, Metal Brackets 112
European Footprint 10,2♦ or 9,4♦♦ mm
90° PC Tails 110
90° PC Tails, Metal Brackets 114
90° PC Tails, Plastic Brackets & Grounding Straps 116
90° PC Tails, Plastic Brackets 118
Straight PC Tails 120
D*JT Connectors
Solder Cup 122
Combo — High Power 90° 124
Combo — High Power Straight 126
Combo — High Power Solder Cup 128

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JK/D*JT

Filter connectors series D*JK and D*JT from ITT Cannon especially designed for commercial applications provide excellent protection against EMI and RFI.

Using D Subminiature standard components a cost-effective production can be achieved as well as 100% compatibility with equivalent products according to DIN 41652. D Subminiature standard accessories can be used.

High quality tubular ceramic capacitors are assembled onto the D*JK contacts and soldered to contact and backshell while series D*JT connectors apply planar array filters.

Applications:
- EMI/RFI Sensitive Electronics
- Test & Measurement Equipment
- Computer Equipment
- Medical Equipment
- Telecommunication Transmission

Product Features

- HF–tightness and mechanical stability by closed backshell
- Free-stamped grounding fingers (pin connector only)
- Straight and 90° solder pins (D*JK)
- Solder cups, straight and 90° solder pins (D*JT)
- Versatile mounting possibilities (brackets, captive nuts)
- Contact finsh according to performance class 2 (standard) or class 1

Specifications

Temperature Range Per DIN IEC 68 Part 1	−55°C to 125°C

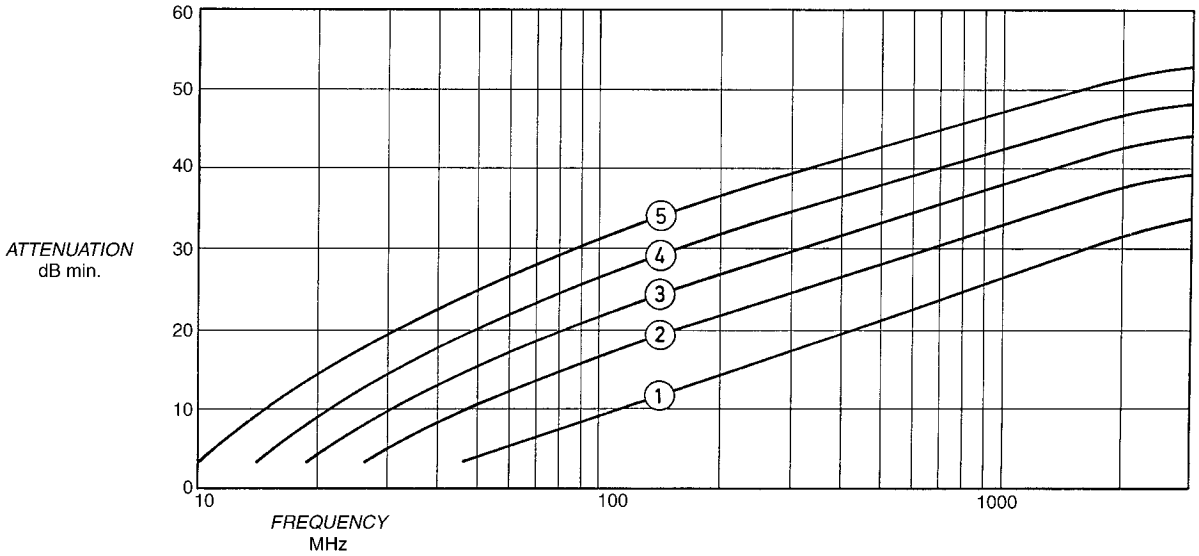
Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None
Contacts	Copper Alloy	Gold over Nickel

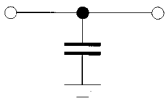
Mechanical Data

Coupling	Friction, accessories
Polarization	Keystone shape of shell
Termination	PC tails, straight and 90° Solder cups

D*JK Filter Performance



D*JK Electrical Data

Voltage rating (working)	100 VDC
Current rating	5 A
Insulation resistance, electrification time 30 s, temperature 25°C	5000 MΩ min./100 V
Dielectric Withstanding Voltage (Sea Level) 500 micro amps max. charge/discharge	250 VDC
Filter Type C	Capacitor
Filter Symbol per DIN	

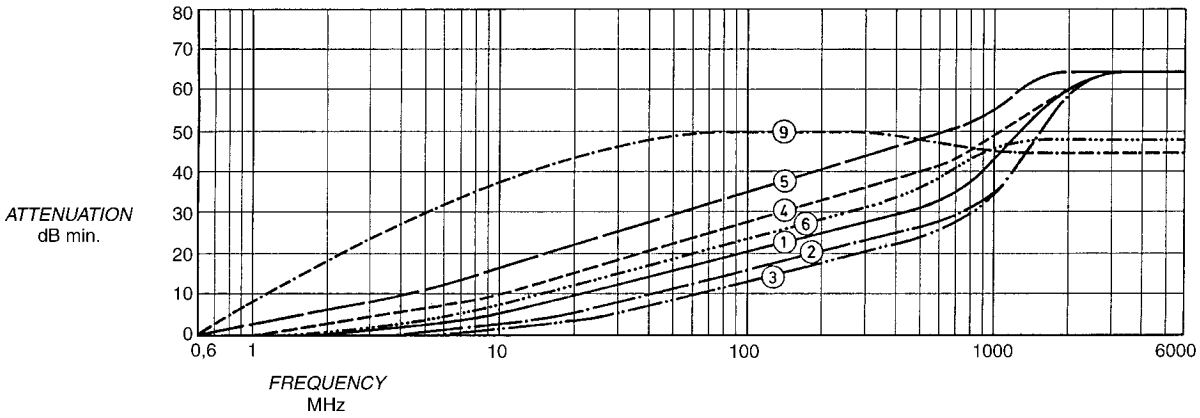
Filter designation	5	4	3	2	1
Capacitance, type at 1 KHz, 0,1 Vrms, 25°C	1500 pF	1000 pF	680 pF	470 pF	330 pF
Frequency MHz	Attenuation db min.	Attenuation db min.	Attenuation db min.	Attenuation db min.	Attenuation db min.
10	3	—	—	—	—
30	20	14	10	7	2
100	31	27	22	18	9
300	39	35	30	27	18
1000	47	42	37	32	28
2000	51	46	42	36	31

Attenuation per MIL-STD-220 at 25°C with no applied voltage or current

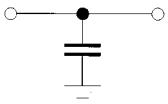
ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JT Filter Performance



D*JT Electrical Data

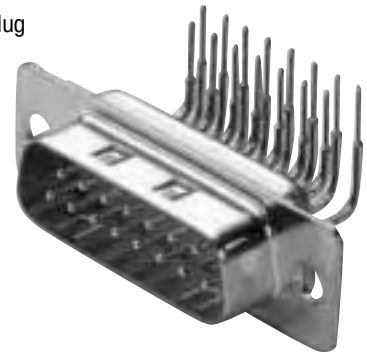
Voltage rating (working)	200 VDC/120 Vrms, 400 Hz
Current rating	5 A (Size 20 contacts), 30 A (Size 8 contacts)
Insulation resistance, electrification time 30 s, temperature 25°C	10,000 MΩ min./100 V
Dielectric Withstanding Voltage (Sea Level) 500 micro amps max. charge/discharge	500 VDC
Filter type C	Capacitor
Filter symbol per DIN	

Filter designation	9	5	4	6	1	2	3
Capacitance, type at 1 KHz, 0,1 Vrms, 25°C	47000 pF	5000 pF	2000 pF	1500 pF	1000 pF	500 pF	250 pF
Frequency MHz	Attenuation db min.	Attenuation db min.	Attenuation db min.	Attenuation db min.	Attenuation db min.	Attenuation db min.	Attenuation db min.
5	30	11	6	3	—	—	—
10	37	16	10	7	5	2	1
100	50	35	27	23	20	16	14
1000	45	54	48	46	42	37	35
2000	—	64	60	—	60	60	60
5000	—	64	64	—	64	64	64

Attenuation per MIL-STD-220 at 25°C with no applied voltage or current

D*JK — 90° PC Tails — Standard Footprint .318♦ or .283 inch ♦♦

Plug



Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

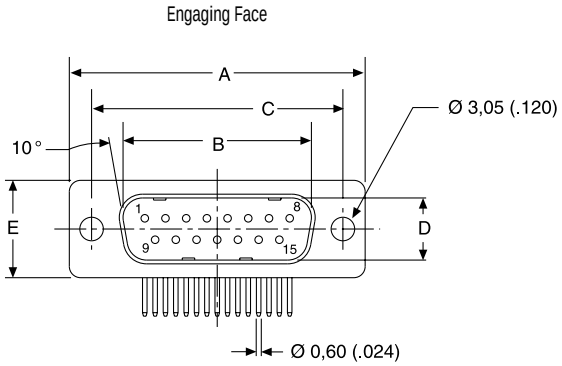
Part Numbers

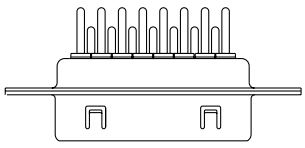
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC
DE	9	DEJK9P*-1U0N	DEJKE9P*-1U0N
DA	15	DAJK15P*-1U0N	DAJKE15P*-1U0N
DB	25	DBJK25P*-1U0N	DBJKE25P*-1U0N
DC	37	DCJK37P*-1U0N	DCJKE37P*-1U0N

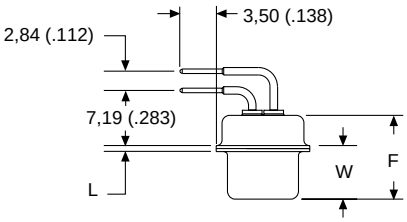
* Insert filter designator. Example: DEJK9P4-1U0N (For 1000 pF Filter Capacitance)
Note: For performance class 1 add -A190. Example: DEJK9P1-1U0N-A190

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,37 (.015)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,72 (.422)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,72 (.422)	—	6,84 (.269)	0,99 (.039)

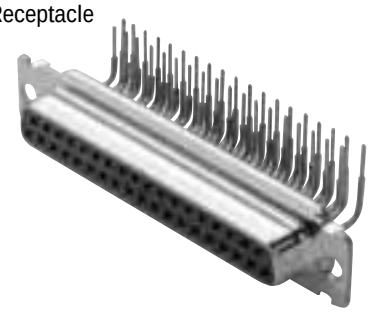
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JK — 90° PC Tails — Standard Footprint .318♦ or .283 inch ♦♦

Receptacle



Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

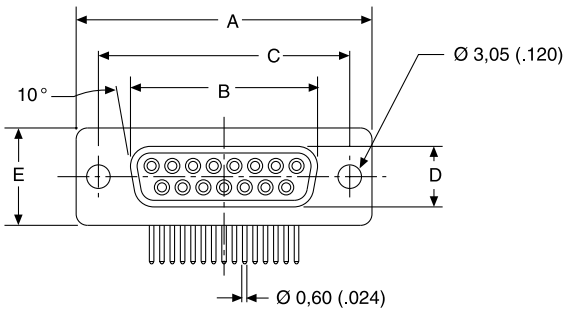
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC
DE	9	DEJK9S*-1U0N	DEJKE9S*-1U0N
DA	15	DAJK15S*-1U0N	DAJKE15S*-1U0N
DB	25	DBJK25S*-1U0N	DBJKE25S*-1U0N
DC	37	DCJK37S*-1U0N	DCJKE37S*-1U0N

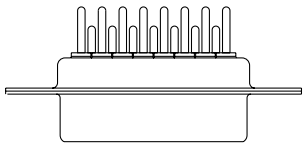
* Insert filter designator. Example: DEJK9S4-1U0N (for 1000 pF Filter Capacitance)
Note: For performance class 1, add -A190. Example: DEJK9S1-1U0N-A190

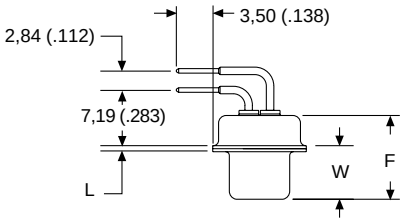
Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.

Engaging Face







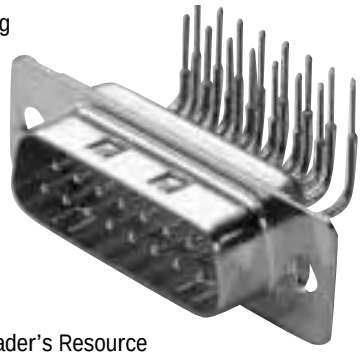
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

D*JK — 90° PC Tails — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware options (European), see page 227.

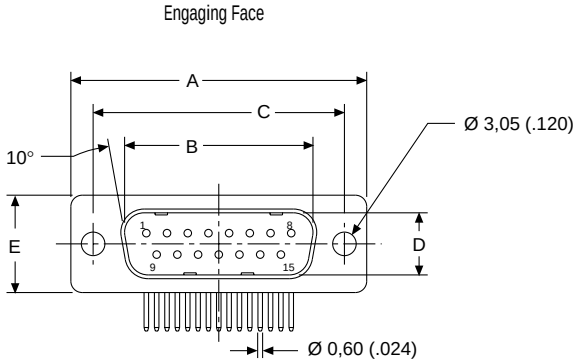
Part Numbers

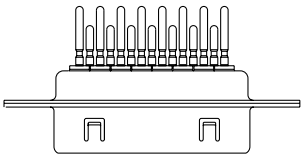
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
DE	9	DEJK9P*-1A0N	DEJKE9P*-1A0N	DEJKX9P*-1A0N
DA	15	DAJK15P*-1A0N	DAJKE15P*-1A0N	DAJKX15P*-1A0N
DB	25	DBJK25P*-1A0N	DBJKE25P*-1A0N	DBJKX25P*-1A0N
DC	37	DCJK37P*-1A0N	DCJKE37P*-1A0N	DCJKX37P*-1A0N

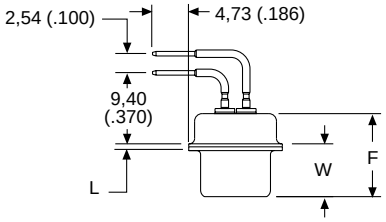
* Insert filter designator. Example: DEJK9P4-1A0N (For 1000 pF Filter Capacitance)
Modifier: For performance class 1 add -A190. Example: DEJK9P1-1A0N-A190

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,37 (.015)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,72 (.422)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,72 (.422)	—	6,84 (.269)	0,99 (.039)

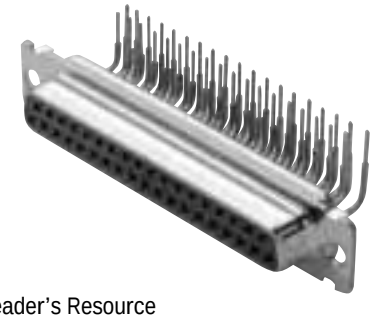
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JK — 90° PC Tails — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle



Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware options (European), see page 227.

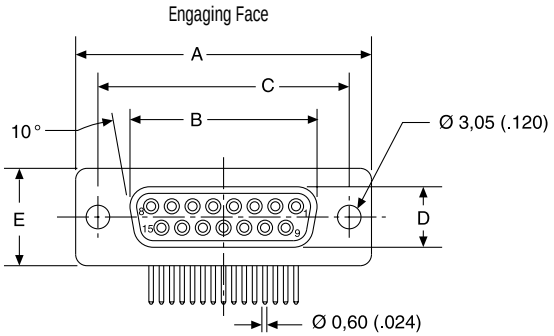
Part Numbers

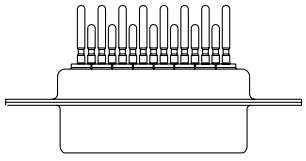
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
DE	9	DEJK9S*-1A0N	DEJKE9S*-1A0N	DEJKX9S*-1A0N
DA	15	DAJK15S*-1A0N	DAJKE15S*-1A0N	DAJKX15S*-1A0N
DB	25	DBJK25S*-1A0N	DBJKE25S*-1A0N	DBJKX25S*-1A0N
DC	37	DCJK37S*-1A0N	DCJKE37S*-1A0N	DCJKX37S*-1A0N

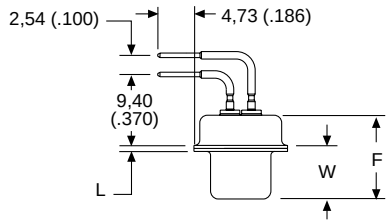
* Insert filter designator. Example: DEJK9S4-1A0N (for 1000 pF Filter Capacitance)
Note: For performance class 1, add -A190. Example: DEJK9S1-1A0N-A190

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

D*JK — 90° PC Tails and Metal Brackets — Standard Footprint .318♦ or .283 inch♦♦

Plug

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For pushfit/boardlock configuration, see page 225.

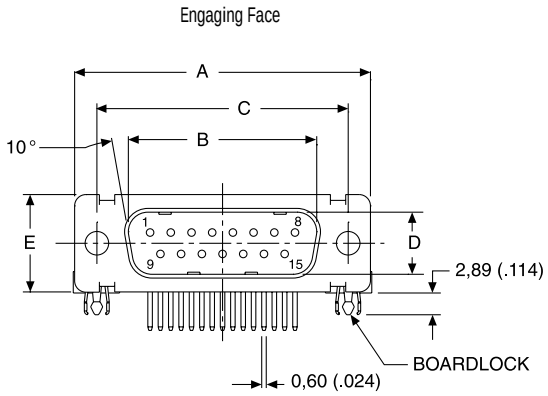
Part Numbers

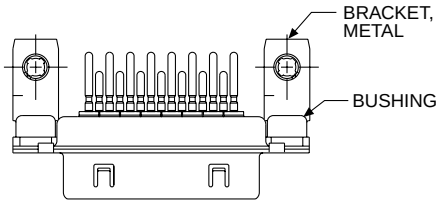
Shell Size	Layout	Bracket, #4-40 Nut	Bracket, #4-40 Nut, Boardlock
DE	9	DEJK9P*-1U7N	DEJK9P*-1U7N-146
DA	15	DAJK15P*-1U7N	DAJK15P*-1U7N-146
DB	25	DBJK25P*-1U7N	DBJK25P*-1U7N-146
DC	37	DCJK37P*-1U7N	DCJK37P*-1U7N-146

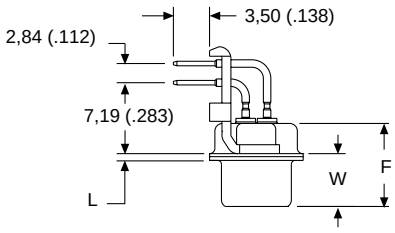
Insert filter designator *. Example: DEJK9P4-1U7N-146 (For 1000 pF Filter Capacitance)
Note: For performance class 1, add -A190. Example: DEJK9P4-1U7N-A190-146

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







Boardlock removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JK — 90° PC Tails and Metal Brackets — Standard Footprint .318♦ or .283 inch♦♦

Receptacle

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For pushfit/boardlock configuration, see page 225.

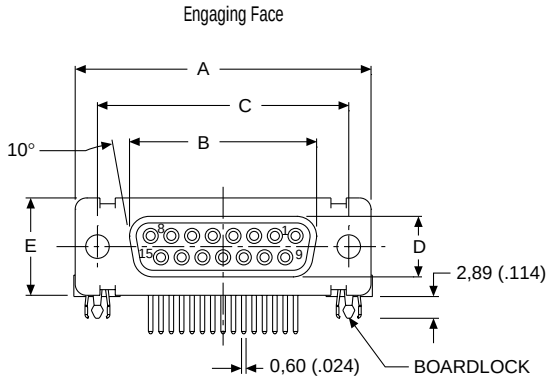
Part Numbers

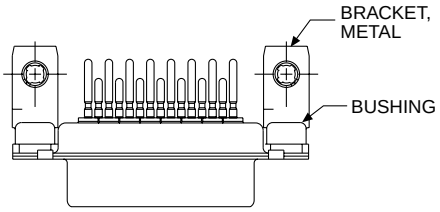
Shell Size	Layout	Bracket, #4-40 Nut	Bracket, #4-40 Nut, Boardlock
DE	9	DEJK9S*-1U7N	DEJK9S*-1U7N-146
DA	15	DAJK15S*-1U7N	DAJK15S*-1U7N-146
DB	25	DBJK25S*-1U7N	DBJK25S*-1U7N-146
DC	37	DCJK37S*-1U7N	DCJK37S*-1U7N-146

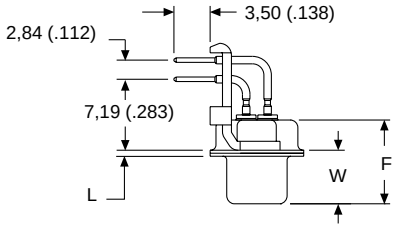
Insert filter designator *. Example DEJK9S4-1U7N-146 (For 1000 pF Filter Capacitance)
Note: For performance class 1, add -A190. Example: DEJK9S4-1U7N-A190-146

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







Boardlock removed for clarity

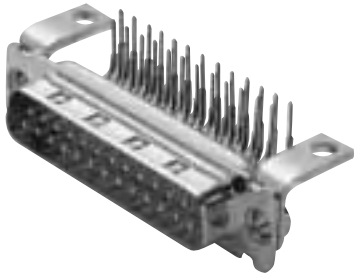
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

D*JK — 90° PC Tails and Metal Brackets — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For pushfit/boardlock configuration, see page 225.

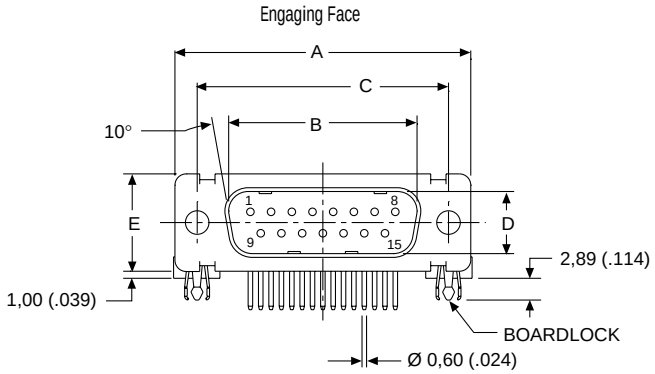
Part Numbers

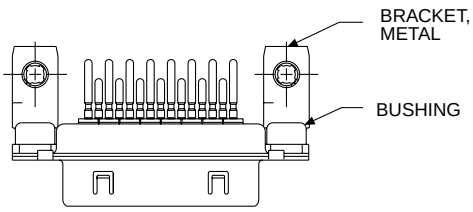
Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC	Post M3
DEJK9P*-1AFN	DEJK9P*-1A7N	DEJK9P*-1A9N	DEJK9P*-1A8N	DEJK9P*-1AHN
DAJK15P*-1AFN	DAJK15P*-1A7N	DAJK15P*-1A9N	DAJK15P*-1A8N	DAJK15P*-1AHN
DBJK25P*-1AFN	DBJK25P*-1A7N	DBJK25P*-1A9N	DBJK25P*-1A8N	DBJK25P*-1AHN
DCJK37P*-1AFN	DCJK37P*-1A7N	DCJK37P*-1A9N	DCJK37P*-1A8N	DCJK37P*-1AHN

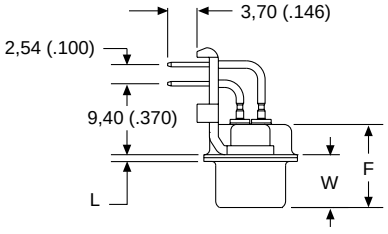
* Insert filter designator. Example: DEJK9P4-1A7N (For 1000 pF capacitance)
Notes: For performance class 1 add -A190. Example: DEJK9P1-1AFN-A190
For pushfit/boardlocks add -146. Example: DEJK9P1-1AFN-A190-146

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







Boardlock removed for clarity

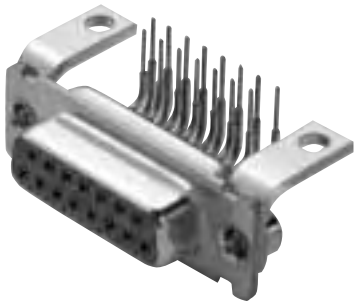
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

D*JK — 90° PC Tails and Metal Brackets — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle



Reader's Resource

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For hardware views (European), see page 227.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For pushfit/boardlock configuration, see page 225.

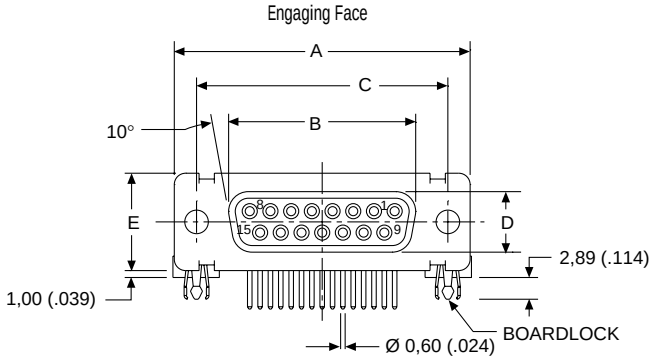
Part Numbers

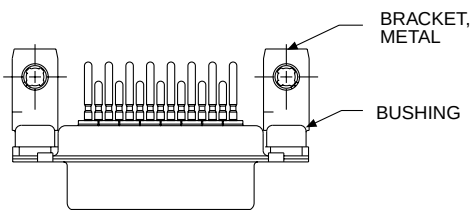
Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC	Post M3
DEJK9S*-1AFN	DEJK9S*-1A7N	DEJK9S*-1A9N	DEJK9S*-1A8N	DEJK9S*-1AHN
DAJK15S*-1AFN	DAJK15S*-1A7N	DAJK15S*-1A9N	DAJK15S*-1A8N	DAJK15S*-1AHN
DBJK25S*-1AFN	DBJK25S*-1A7N	DBJK25S*-1A9N	DBJK25S*-1A8N	DBJK25S*-1AHN
DCJK37S*-1AFN	DCJK37S*-1A7N	DCJK37S*-1A9N	DCJK37S*-1A8N	DCJK37S*-1AHN

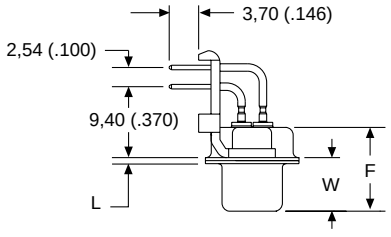
* Insert filter designator. Example: DEJK9S4-1A7N (For 1000 pF capacitance)
Notes: For performance class 1 add -A190. Example: DEJK9S1-1AFN-A190
For pushfit/boardlocks add -146. Example: DEJK9S1-1AFN-A190-146

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







Boardlock removed for clarity

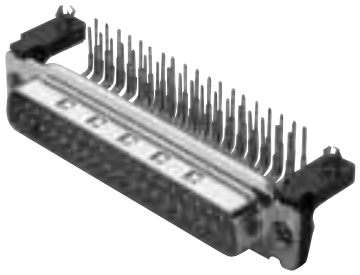
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

D*JK — 90° PC Tails & Plastic Brackets with Grounding Straps — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Part Numbers

Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC	Post M3
DEJK9P*-1ADN	DEJK9P*-1AWN	DEJK9P*-1AVN	DEJK9P*-1AJN	DEJK9P*-1AGN
DAJK15P*-1ADN	DAJK15P*-1AWN	DAJK15P*-1AVN	DAJK15P*-1AJN	DAJK15P*-1AGN
DBJK25P*-1ADN	DBJK25P*-1AWN	DBJK25P*-1AVN	DBJK25P*-1AJN	DBJK25P*-1AGN
DCJK37P*-1ADN	DCJK37P*-1AWN	DCJK37P*-1AVN	DCJK37P*-1AJN	DCJK37P*-1AGN

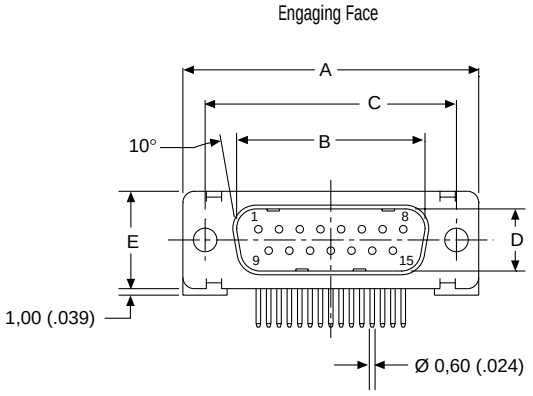
* Insert filter designator. Example: DEJK9P4-1AWN (For 1000 pF capacitance)
Notes: For performance class 1 add -A190. Example: DEJK9P1-1ADN-A190
For pushfit/boardlocks add -146. Example: DEJK9P1-1ADN-A190-146

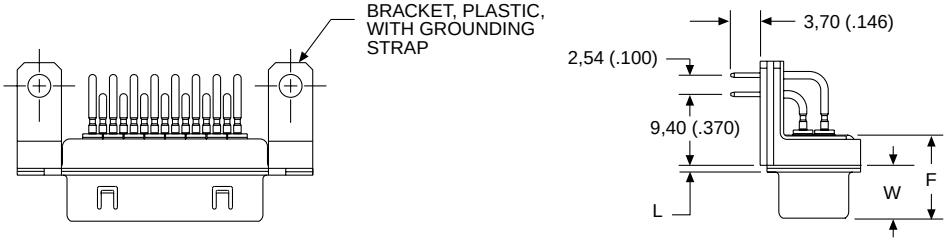
Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.
For pushfit/boardlock configuration, see page 225.

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JK — 90° PC Tails & Plastic Brackets with Grounding Straps — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle

Part Numbers

Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC	Post M3
DEJK9S*-1ADN	DEJK9S*-1AWN	DEJK9S*-1AVN	DEJK9S*-1AJN	DEJK9S*-1AGN
DAJK15S*-1ADN	DAJK15S*-1AWN	DAJK15S*-1AVN	DAJK15S*-1AJN	DAJK15S*-1AGN
DBJK25S*-1ADN	DBJK25S*-1AWN	DBJK25S*-1AVN	DBJK25S*-1AJN	DBJK25S*-1AGN
DCJK37S*-1ADN	DCJK37S*-1AWN	DCJK37S*-1AVN	DCJK37S*-1AJN	DCJK37S*-1AGN

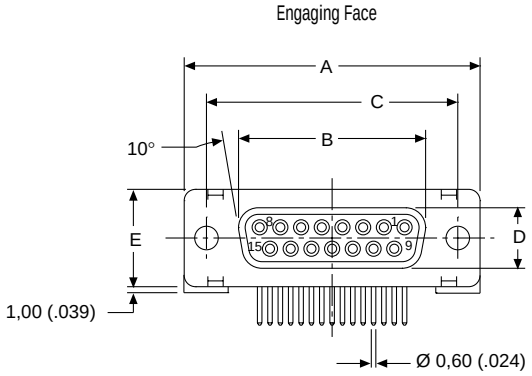
* Insert filter designator. Example: DEJK9S4-1AWN (For 1000 pF capacitance)
Notes: For performance class 1 add -A190. Example: DEJKS1-1ADN-A190
For pushfit/boardlocks add -146. Example: DEJK9P1-1ADN-A190-146

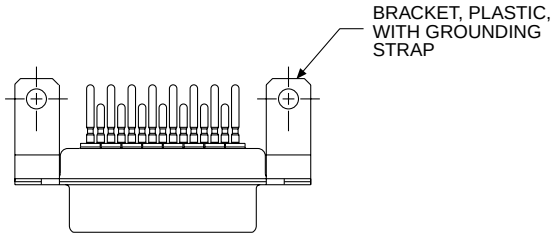
Reader's Resource

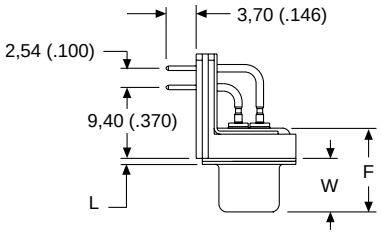
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.
For pushfit/boardlock configuration, see page 225.

Filter Desginator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







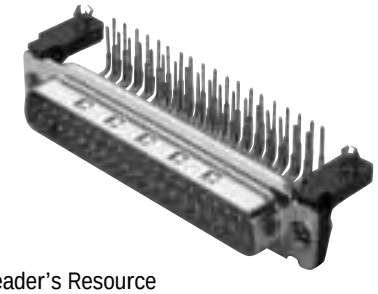
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

D*JK — 90° PC Tails & Plastic Brackets — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Part Numbers

Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC	Post M3
DEJK9P*-1A5N	DEJK9P*-1AUN	DEJK9P*-1ATN	DEJK9P*-1A6N	DEJK9P*-1APN
DAJK15P*-1A5N	DAJK15P*-1AUN	DAJK15P*-1ATN	DAJK15P*-1A6N	DAJK15P*-1APN
DBJK25P*-1A5N	DBJK25P*-1AUN	DBJK25P*-1ATN	DBJK25P*-1A6N	DBJK25P*-1APN
DCJK37P*-1A5N	DCJK37P*-1AUN	DCJK37P*-1ATN	DCJK37P*-1A6N	DCJK37P*-1APN

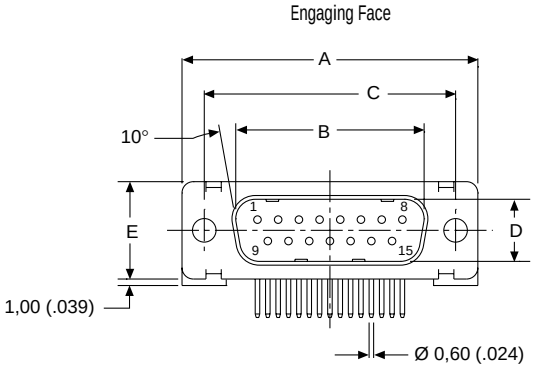
* Insert filter designator. Example: DEJK9P4-1A5N (For 1000 pF filter capacitance)
Notes: For performance class 1 add -A190. Example: DEJK9P1-1A5N-A190
For pushfit/boardlocks add-146. Example: DEJK9P1-1A5N-A190-146

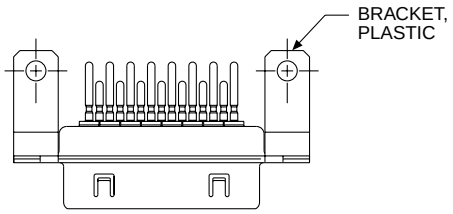
Reader's Resource

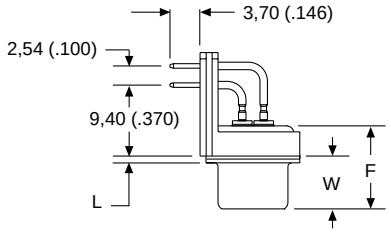
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.
For pushfit/boardlock configuration, see page 225.

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0.13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,37 (.015)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

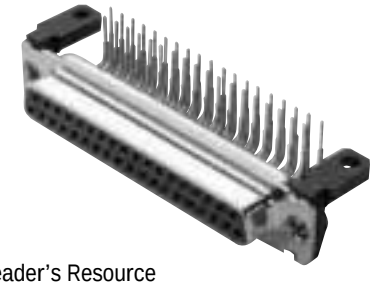
♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JK — 90° PC Tails and Plastic Brackets — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle



Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.
For pushfit/boardlock configuration, see page 225.

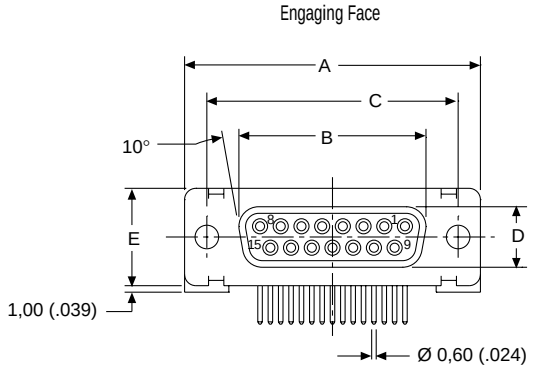
Part Numbers

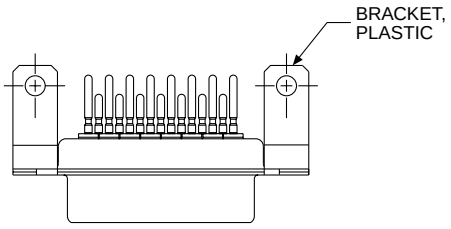
Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC	Post M3
DEJK9S*-1A5N	DEJK9S*-1AUN	DEJK9S*-1ATN	DEJK9S*-1A6N	DEJK9S*-1APN
DAJK15S*-1A5N	DAJK15S*-1AUN	DAJK15S*-1ATN	DAJK15S*-1A6N	DAJK15S*-1APN
DBJK25S*-1A5N	DBJK25S*-1AUN	DBJK25S*-1ATN	DBJK25S*-1A6N	DBJK25S*-1APN
DCJK37S*-1A5N	DCJK37S*-1AUN	DCJK37S*-1ATN	DCJK37S*-1A6N	DCJK37S*-1APN

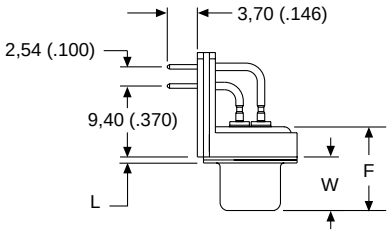
* Insert filter designator. Example: DEJK9S4-1A5N (for 1000 pF filter capacitance)
Notes: For performance class 1 add -A190. Example: DEJK9S1-1A5N-A190
For pushfit/boardlocks add -146. Example: DEJK9S1-1A5N-A190-146

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

D*JK — Straight P.C. Tails

Plug

Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For Hardware views (European), see page 227.
For pushfit/boardlock configuration, see page 225.

Part Numbers

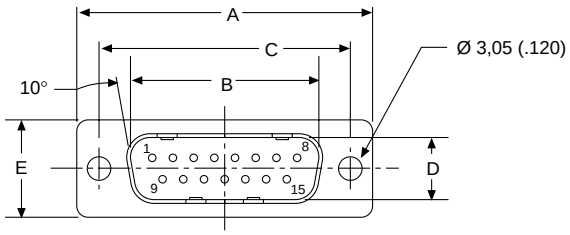
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3	Pushfit/Boardlock #4-40 UNC	Pushfit/Boardlock M3
DE	9	DEJK9P*-0L4	DEJKE9P*-0L4	DEJKX9P*-0L4	DEJKE9P*-0L4-146	DEJKX9P*-0L4-146
DA	15	DAJK15P*-0L4	DAJKE15P*-0L4	DAJKX15P*-0L4	DAJKE15P*-0L4-146	DAJKX15P*-0L4-146
DB	25	DBJK25P*-0L4	DBJKE25P*-0L4	DBJKX25P*-0L4	DBJKE25P*-0L4-146	DBJKX25P*-0L4-146
DC	37	DCJK37P*-0L4	DCJKE37P*-0L4	DCJKX37P*-0L4	DCJKE37P*-0L4-146	DCJKX37P*-0L4-146
DD	50	DDJK50P*-0L4	DDJKE50P*-0L4	DDJKX50P*-0L4	DDJKE50P*-0L4-146	DDJKX50P*-0L4-146

* Insert filter designator. Example: DEJK9P4-0L4 (for 1000 pF filter capacitance)
Note: For performance class 1 add -A190. Example: DEJK9P1-0L4-A190

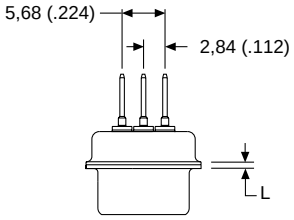
Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

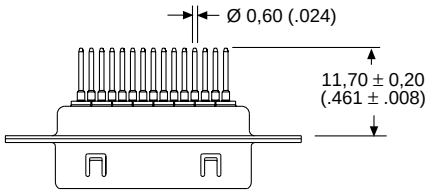
For electrical data, see page 106.

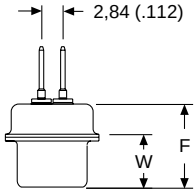
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.439)	15,37 (.607)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JK — Straight P.C. Tails

Receptacle

Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For Hardware views (European), see page 227.
For pushfit/boardlock configuration, see page 225.

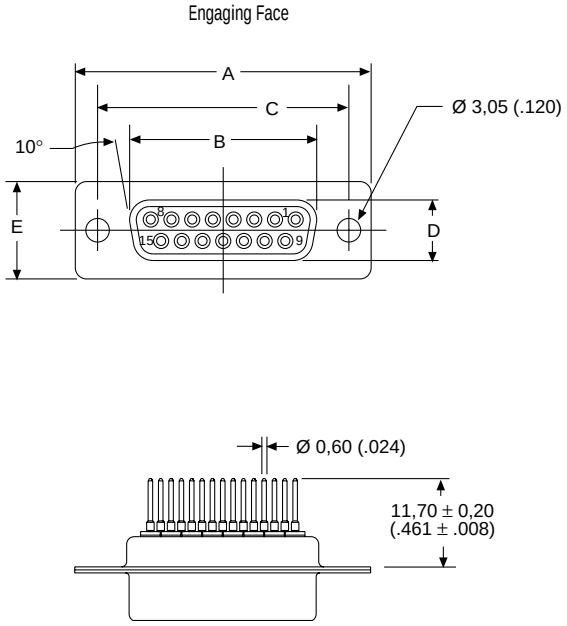
Part Numbers

Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3	Pushfit/Boardlock #4-40 UNC	Pushfit/Boardlock M3
DE	9	DEJK9S*-OL4	DEJKE9S*-OL4	DEJKX9S*-OL4	DEJKE9S*-OL4-146	DEJKX9S*-OL4-146
DA	15	DAJK15S*-OL4	DAJKE15S*-OL4	DAJKX15S*-OL4	DAJKE15S*-OL4-146	DAJKX15S*-OL4-146
DB	25	DBJK25S*-OL4	DBJKE25S*-OL4	DBJKX25S*-OL4	DBJKE25S*-OL4-146	DBJKX25S*-OL4-146
DC	37	DCJK37S*-OL4	DCJKE37S*-OL4	DCJKX37S*-OL4	DCJKE37S*-OL4-146	DCJKX37S*-OL4-146

* Insert filter designator. Example: DEJK9S4-OL4 (for 1000 pF filter capacitance)
Note: For performance class 1 add -A190. Example: DEJK9S1-OL4-A190

Filter Designator*	Filter Capacitance
1	330 pF
2	470 pF
3	680 pF
4	1000 pF
5	1500 pF

For electrical data, see page 106.

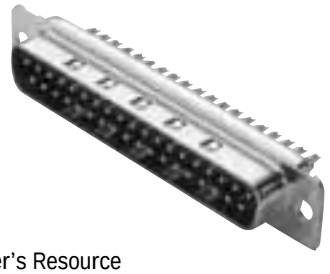


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

D*JT — Solder Cup

Plug



Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

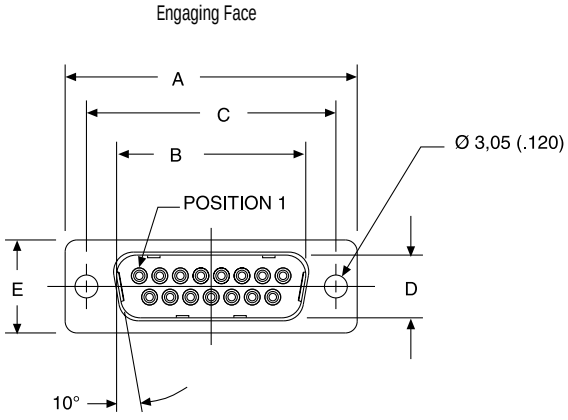
Part Numbers

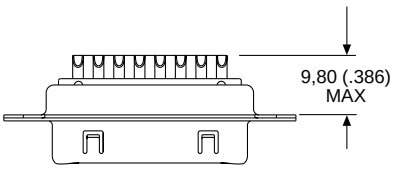
Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
DE	9	DEJT9P*	DEJTE9P*	DEJTX9P*
DA	15	DAJT15P*	DAJTE15P*	DAJTX15P*
DB	25	DBJT25P*	DBJTE25P*	DBJTX25P*
DC	37	DCJT37P*	DCJTE37P*	DCJTX37P*

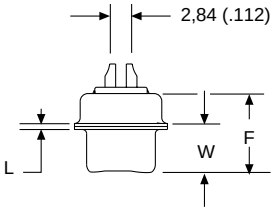
* Insert filter designator. Example: DCJT37P4 (for 2000 pF filter capacitance)
Note: For performance class 1 add -A190. Example: DCJT37P1-A190

Filter Designator*	Filter Capacitance
1	1000 pF
2	500 pF
3	250 pF
4	2000 pF
5	5000 pF

For electrical data, see page 107.







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0.13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,37 (.015)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JT — Solder Cup

Receptacle

Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

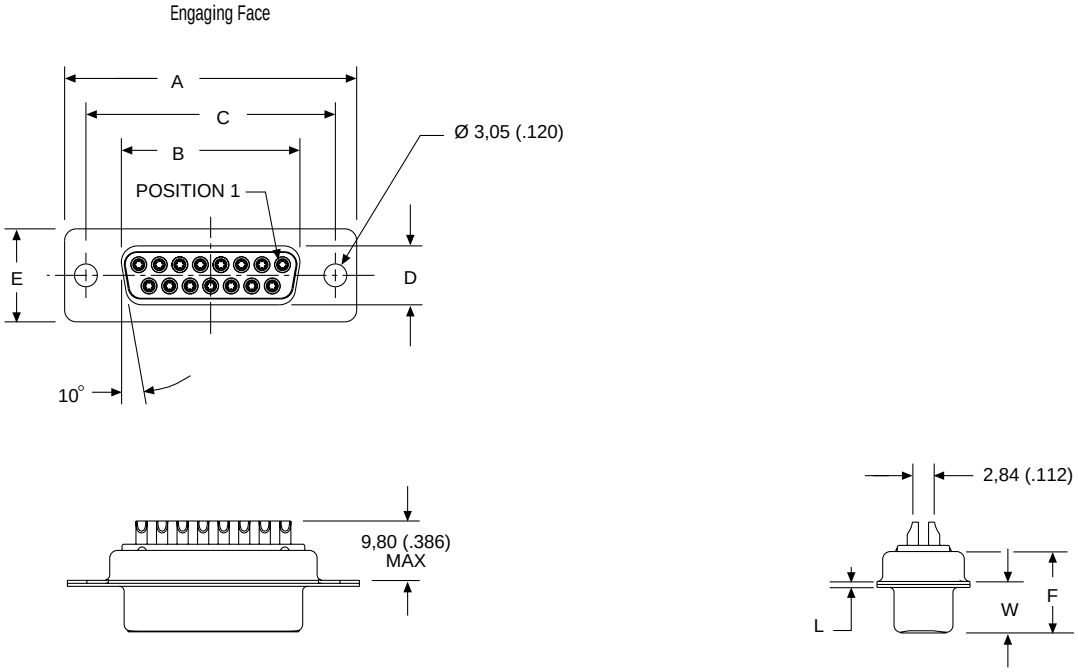
Part Numbers

Shell Size	Layout	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
DE	9	DEJT9S*	DEJTE9S*	DEJTX9S*
DA	15	DAJT15S*	DAJTE15S*	DAJTX15S*
DB	25	DBJT25S*	DBJTE25S*	DBJTX25S*
DC	37	DCJT37S*	DCJTE37S*	DCJTX37S*

* Insert filter designator. Example: DEJT9S4 (for 2000 pF filter capacitance)
Note: For performance class 1 add -A190. Example: DEJT9S1-A190

Filter Designator*	Filter Capacitance
1	1000 pF
2	500 pF
3	250 pF
4	2000 pF
5	5000 pF

For electrical data, see page 107.



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

D*JT Combo — High Power 90°

Plug

Reader's Resource
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 250.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3W3P1-1A0N	DAJTE3W3P1-1A0N	DAJTX3W3P1-1A0N
1500 pF	DAJT3W3P6-1A0N	DAJTE3W3P6-1A0N	DAJTX3W3P6-1A0N
5000 pF	DAJT3W3P5-1A0N	DAJTE3W3P5-1A0N	DAJTX3W3P5-1A0N
47000 pF	DAJT3W3P9-1A0N	DAJTE3W3P9-1A0N	DAJTX3W3P9-1A0N

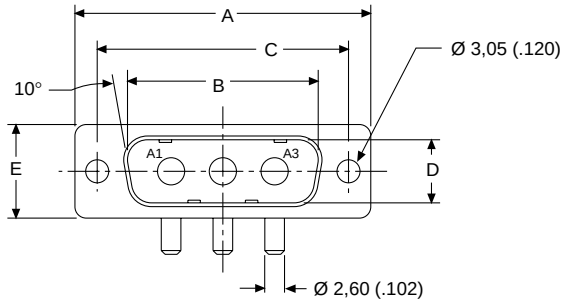
Note: For performance class 1 add -A190. Example: DAJT3WK3P6-1A0N-A190

Part Numbers — Keyed Configuration

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3WK3P1-1A0N	DAJTE3WK3P1-1A0N	DAJTX3W3KP1-1A0N
1500 pF	DAJT3WK3P6-1A0N	DAJTE3WK3P6-1A0N	DAJTX3WK3P6-1A0N
5000 pF	DAJT3WK3P5-1A0N	DAJTE3WK3P5-1A0N	DAJTX3WK3P5-1A0N
47000 pF	DAJT3WK3P9-1A0N	DAJTE3WK3P9-1A0N	DAJTX3WK3P9-1A0N

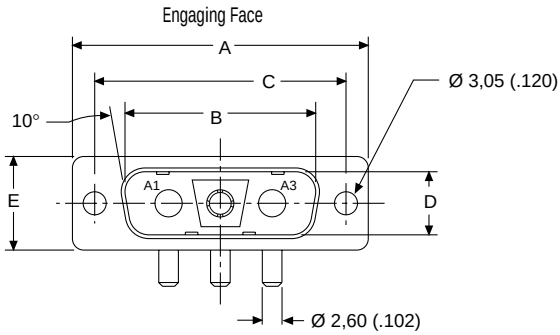
Note: For performance class 1 add -A190. Example: DAJT3WK3P6-1A0N-A190
For electrical data, see page 107.

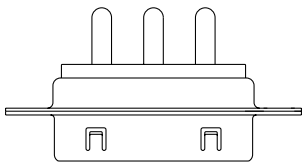
Engaging Face

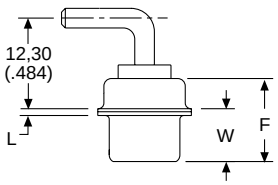


Keyed Configuration

Engaging Face







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	L ±0,25 (.010)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	0,76 (.030)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JT Combo — High Power 90°

Receptacle

Reader's Resource
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 252.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3W3S1-1A0N	DAJTE3W3S1-1A0N	DAJTX3W3S1-1A0N
1500 pF	DAJT3W3S6-1A0N	DAJTE3W3S6-1A0N	DAJTX3W3S6-1A0N
5000 pF	DAJT3W3S5-1AON	DAJTE3W3S5-1AON	DAJTX3W3S5-1AON
47000 pF	DAJT3W3S9-1A0N	DAJTE3W3S9-1A0N	DAJTX3W3S9-1A0N

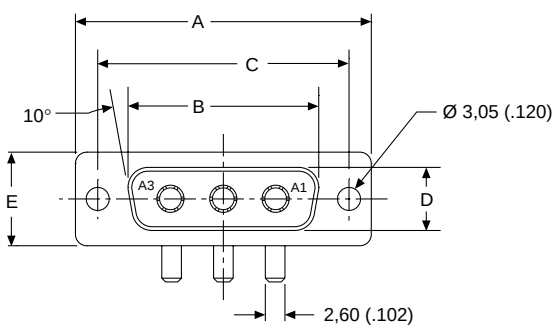
Note: For performance class 1 add -A190. Example: DAJT3W3S9-1AON-A190

Part Numbers — Keyed Configuration

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3WK3S1-1A0N	DAJTE3WK3S1-1A0N	DAJTX3WK3S1-1A0N
1500 pF	DAJT3WK3S6-1A0N	DAJTE3WK3S6-1A0N	DAJTX3WK3S6-1A0N
5000 pF	DAJT3WK3S5-1AON	DAJTE3WK3S5-1AON	DAJTX3WK3S5-1AON
47000pF	DAJT3WK3S9-1A0N	DAJTE3WK3S9-1A0N	DAJTX3WK3S9-1A0N

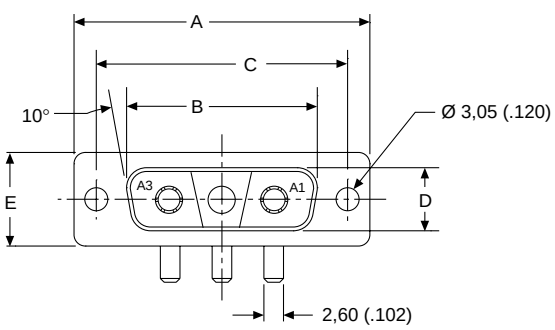
Note: For performance class 1 add -A190. Example: DAJT3WK3S9-1AON-A190
For electrical data, see page 107.

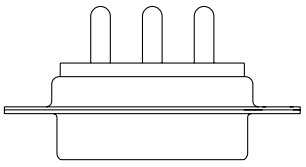
Engaging Face

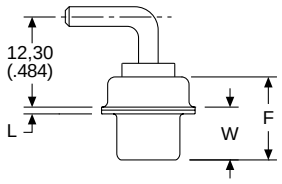


Keyed Configuration

Engaging Face







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

D*JT Combo — High Power Straight

Plug

Reader's Resource

For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 254.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3W3P1-OL4	DAJTE3W3P1-OL4	DAJTX3W3P1-OL4
1500 pF	DAJT3W3P6-OL4	DAJTE3W3P6-OL4	DAJTX3W3P6-OL4
5000 pF	DAJT3W3P5-OL4	DAJTE3W3P5-OL4	DAJTX3W3P5-OL4
47000 pF	DAJT3W3P9-OL4	DAJTE3W3P9-OL4	DAJTX3W3P9-OL4

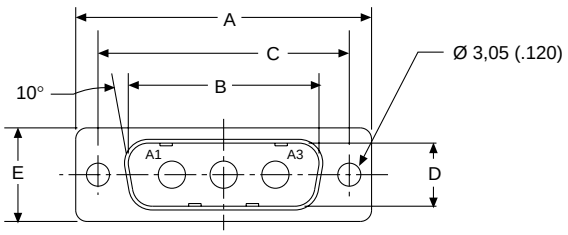
Note: For performance class 1 add -A190. Example: DAJT3W3P6-OL4-A190

Part Numbers — Keyed Configuration

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3WK3P1-OL4	DAJTE3WK3P1-OL4	DAJTX3WK3P1-OL4
1500 pF	DAJT3WK3P6-OL4	DAJTE3WK3P6-OL4	DAJTX3WK3P6-OL4
5000 pF	DAJT3WK3P5-OL4	DAJTE3WK3P5-OL4	DAJTX3WK3P5-OL4
47000 pF	DAJT3WK3P9-OL4	DAJTE3WK3P9-OL4	DAJTX3WK3P9-OL4

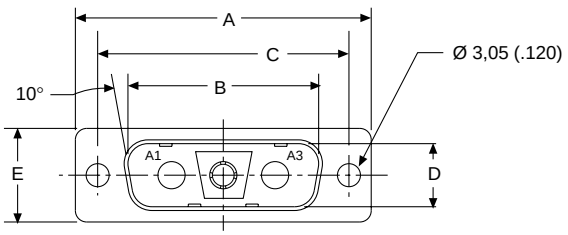
Note: For performance class 1 add -A190. Example: DAJT3WK3P6-OL4-A190
For electrical data, see page 107.

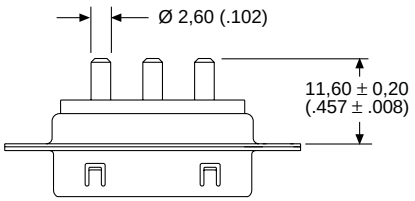
Engaging Face

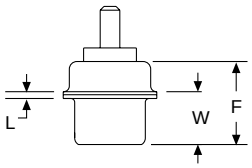


Keyed Configuration

Engaging Face







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	L ±0,25 (.010)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	0,76 (.030)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

D*JT Combo — High Power Straight

Receptacle

Reader's Resource
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 257.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3W3S1-OL4	DAJTE3W3S1-OL4	DAJTX3W3S1-OL4
1500 pF	DAJT3W3S6-OL4	DAJTE3W3S6-OL4	DAJTX3W3S6-OL4
5000 pF	DAJT3W3S5-OL4	DAJTE3W3S5-OL4	DAJTX3W3S5-OL4
47000 pF	DAJT3W3S9-OL4	DAJTE3W3S9-OL4	DAJTX3W3S9-OL4

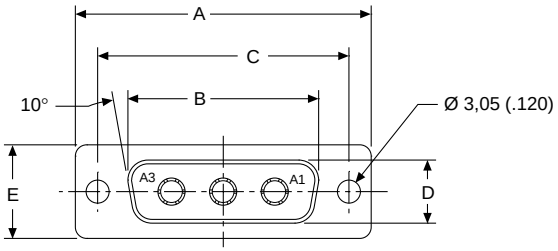
Note: For performance class 1 add -A190. Example: DAJT3W3S6-OL4-A190

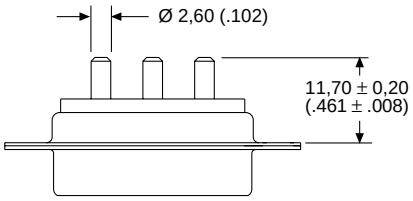
Part Numbers — Keyed Configuration

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3WK3S1-OL4	DAJTE3WK3S1-OL4	DAJTX3WK3S1-OL4
1500 pF	DAJT3WK3S6-OL4	DAJTE3WK3S6-OL4	DAJTX3WK3S6-OL4
5000 pF	DAJT3WK3S5-OL4	DAJTE3WK3S5-OL4	DAJTX3WK3S5-OL4
47000 pF	DAJT3WK3S9-OL4	DAJTE3WK3S9-OL4	DAJTX3WK3S9-OL4

Note: For performance class 1 add -A190. Example: DAJT3WK3S-OL4-A190
For electrical data, see page 107.

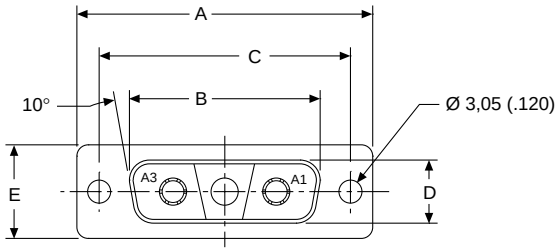
Engaging Face

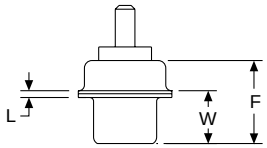




Keyed Configuration

Engaging Face





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

D*JT Combo — High Power Solder Cup

Plug

Reader's Resource

For contact cavity arrangements, see page 222.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3W3P1	DAJTE3W3P1	DAJTX3W3P1
1500 pF	DAJT3W3P6	DAJTE3W3P6	DAJTX3W3P6
5000 pF	DAJT3W3P5	DAJTE3W3P5	DAJTX3W3P5
47000 pF	DAJT3W3P9	DAJTE3W3P9	DAJTX3W3P9

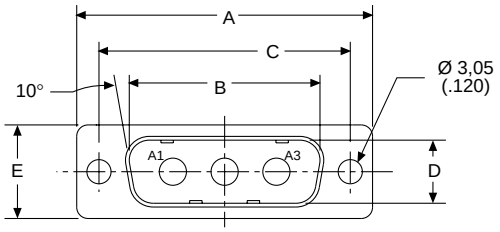
Note: For performance class 1 add -A190. Example: DAJT3W3P6-A190

Part Numbers – Keyed Configuration

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3WK3P1	DAJTE3WK3P1	DAJTX3WK3P1
1500 pF	DAJT3WK3P6	DAJTE3WK3P6	DAJTX3WK3P6
5000 pF	DAJT3WK3P5	DAJTE3WK3P5	DAJTX3WK3P5
47000 pF	DAJT3WK3P9	DAJTE3WK3P9	DAJTX3WK3P9

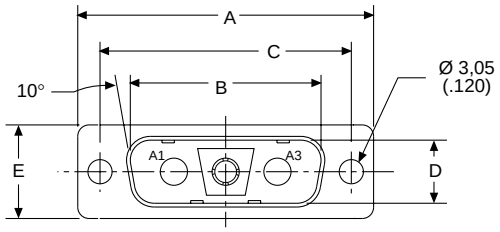
Note: For performance class 1 add -A190. Example: DAJT3WK3P6-A190
For electrical data, see page 107.

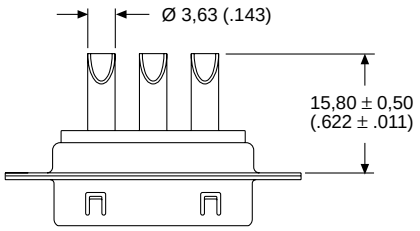
Engaging Face

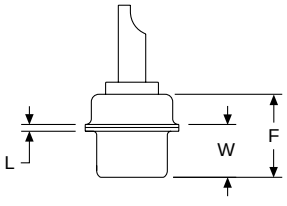


Keyed Configuration

Engaging Face







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	L ±0,25 (.010)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	0,76 (.030)

D*JT Combo — High Power Solder Cup

Receptacle

Reader's Resource

For contact cavity arrangements, see page 223.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3W3S1	DAJTE3W3S1	DAJTX3W3S1
1500 pF	DAJT3W3S6	DAJTE3W3S6	DAJTX3W3S6
5000 pF	DAJT3W3S5	DAJTE3W3S5	DAJTX3W3S5
47000 pF	DAJT3W3S9	DAJTE3W3S9	DAJTX3W3S9

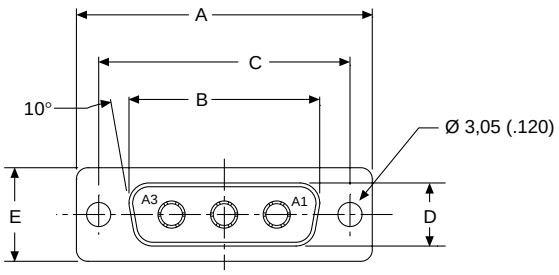
Note: For performance class 1 add -A190. Example: DAJT3W3S6-A190

Part Numbers — Keyed Configuration

Filter Capacitance	Through Hole	Clinch Nut #4-40 UNC	Clinch Nut M3
1000 pF	DAJT3WK3S1	DAJTE3WK3S1	DAJTX3WK3S1
1500 pF	DAJT3WK3S6	DAJTE3WK3S6	DAJTX3WK3S6
5000 pF	DAJT3WK3S5	DAJTE3WK3S5	DAJTX3WK3S5
47000 pF	DAJT3WK3S9	DAJTE3WK3S9	DAJTX3WK3S9

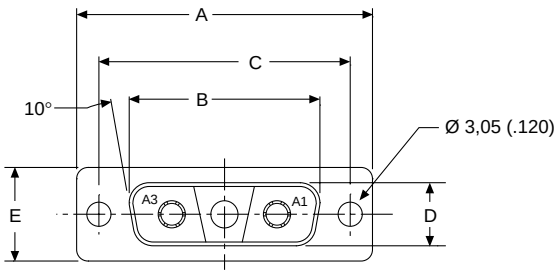
Note: For performance class 1 add -A190. Example: DAJT3WK3S6-A190
For electrical data, see page 107.

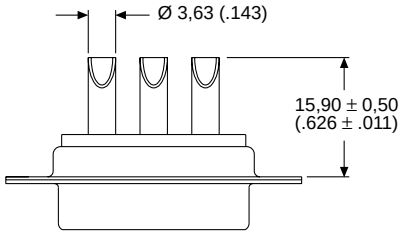
Engaging Face

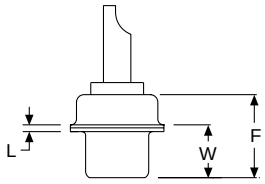


Keyed Configuration

Engaging Face







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

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Dimensions are shown in mm (inch)
Dimensions subject to change

ITT Cannon Military/High Reliability D Subminiature connectors are used in many applications, including aerospace, transportation, communication systems, information systems and test equipment. Being the inventor of the D Subminiature connector, ITT Cannon is able to use its extensive design expertise and high quality manufacturing processes to insure the optimum performance and reliability.

The D Subminiature connectors with fixed contacts in solder cup, straight and 90° PC contact terminations are qualified to MIL-C-24308 (see cross reference, pages 142-143). These high-reliability D Subminiature connectors are the finest quality connectors available at the most competitive prices in the market.

Applications:
- Aerospace
- Transportation
- Communication Systems
- Information Systems
- Test Equipment

Product Features

- Suitable for a variety of cable and printed circuit board options
- Solder cup version accommodates wire size 20 AWG maximum
- 5 A standard current rating
- Clinch Nut and Float Mount Options

Specifications

Temperature Rating	– 55°C to 125°C
Signal Contact Current Rating	7.5 A current capacity
Signal Contact Resistance	55 millivolt max. at 7.5 test current
Signal Contact Dielectric Withstanding Voltage	1250 VAC at Sea Level
Coaxial Current Rating	5 A
Coaxial Dielectric Withstanding Voltage	1000 VAC at Sea Level
Coaxial Impedance	75Ω or 50Ω

Coaxial VSWR	Less than 1.30+ .03F for F up to 500 MHz
Coaxial Insertion Loss	.3dB loss at 500 MHz
High Power Current Rating	Up to 40 A
High Power Dielectric Withstanding Voltage	1000 VAC at Sea Level
High Voltage Current Rating	5 A
High Voltage Contact Dielectric Withstanding Voltage	2800 V at Sea Level

Materials and Finishes

Description	Material	Finish/Treatment
Shell	Steel	Yellow Chromate over Zinc (Cadmium available upon request; order code -A101)
Insulator	Polyester, UL 94V-0, Color: Green	None
Contacts (Military)	Copper Alloy	50 microinches of Gold over Nickel in mating area, Gold over Nickel on balance
Contacts (Commercial)	Copper Alloy	Gold over Nickel on mating area, Tin on balance
Dual Float Mount Hardware	Stainless Steel	Passivated
Clinch Nut Hardware	Stainless Steel with plastic insert	Passivated
Standoff	Steel	Trivalent Chromate over Zinc
Plastic Bracket	Thermoplastic, UL 94V-0	None
Metal Bracket	Steel	Zinc (Tin if boardlocks are attached)

Coaxial/High Power/High Voltage Contact Assemblies

Contacts and Outer Shells	Copper Alloy	Gold over Nickel
Ring, Retaining	Copper Alloy	Nickel
Insulator (Coaxial Only)	Teflon	None
Insulator (High Voltage Only)	Thermoplastic	None

90° PC Tail with Plastic Bracket

Plug

Reader's Resource

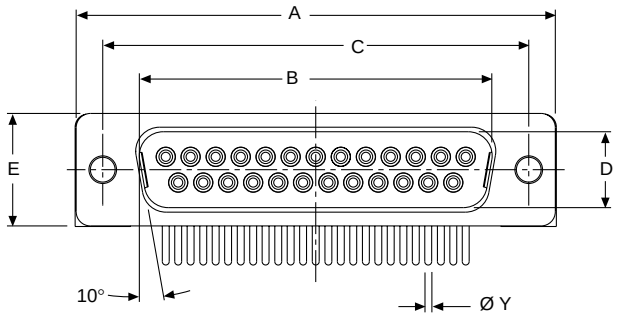
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.

Part Numbers

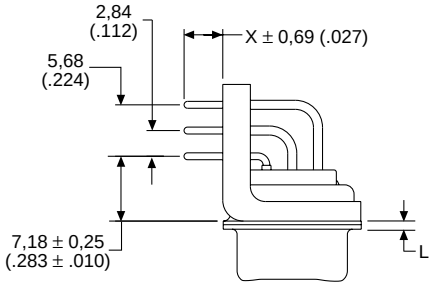
		Military Part Numbers					
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)		
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)
DE	9	DEMM9PD	DEMM9PL	DEMM9PS	DEMM9PA	DEMM9PG	DEMM9PW
DA	15	DAMM15PD	DAMM15PL	DAMM15PS	DAMM15PA	DAMM15PG	DAMM15PW
DB	25	DBMM25PD	DBMM25PL	DBMM25PS	DBMM25PA	DBMM25PG	DBMM25PW
DC	37	DCMM37PD	DCMM37PL	DCMM37PS	DCMM37PA	DCMM37PG	DCMM37PW
DD	50	DDMM50PD	DDMM50PL	DDMM50PS	DDMM50PA	DDMM50PG	DDMM50PW

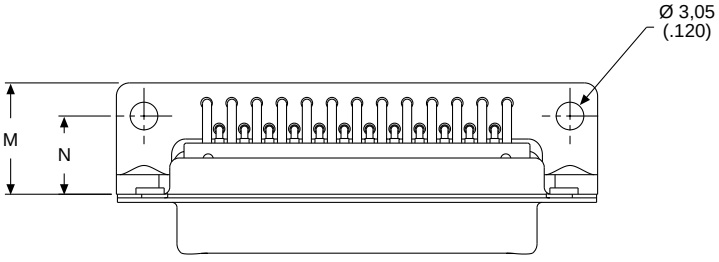
		Commercial Part Numbers					
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)		
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)
DE	9	DEM9PD	DEM9PL	DEM9PS	DEM9PA	DEM9PG	DEM9PW
DA	15	DAM15PD	DAM15PL	DAM15PS	DAM15PA	DAM15PG	DAM15PW
DB	25	DBM25PD	DBM25PL	DBM25PS	DBM25PA	DBM25PG	DBM25PW
DC	37	DCM37PD	DCM37PL	DCM37PS	DCM37PA	DCM37PG	DCM37PW
DD	50	DDM50PD	DDM50PL	DDM50PS	DDM50PA	DDM50PG	DDM50PW

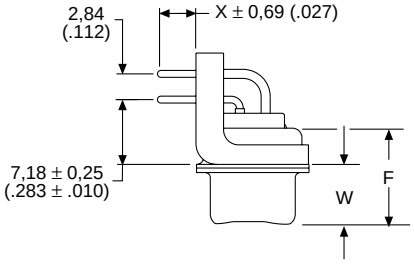
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)	M ±0,25 (.010)	N ±0,13 (.005)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)	12,30 (.484)	8,64 (.340)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)	12,30 (.484)	8,64 (.340)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	12,30 (.484)	8,64 (.340)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	12,30 (.484)	8,64 (.340)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	15,09 (.594)	10,04 (.395)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

90° PC Tail with Plastic Bracket

Receptacle

Reader's Resource

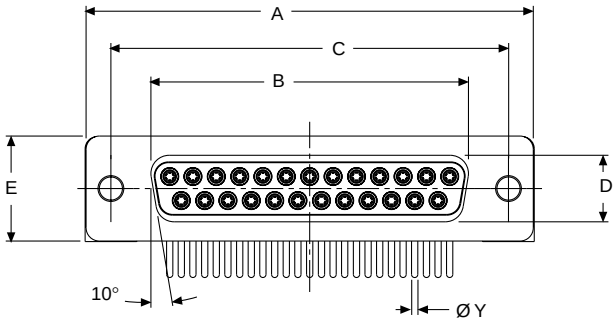
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.

Part Numbers

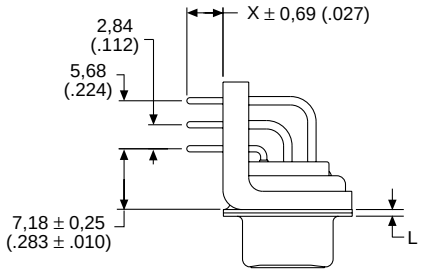
		Military Part Numbers					
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)		
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)
DE	9	DEMM9SD	DEMM9SL	DEMM9SS	DEMM9SA	DEMM9SG	DEMM9SW
DA	15	DAMM15SD	DAMM15SL	DAMM15SS	DAMM15SA	DAMM15SG	DAMM15SW
DB	25	DBMM25SD	DBMM25SL	DBMM25SS	DBMM25SA	DBMM25SG	DBMM25SW
DC	37	DCMM37SD	DCMM37SL	DCMM37SS	DCMM37SA	DCMM37SG	DCMM37SW
DD	50	DDMM50SD	DDMM50SL	DDMM50SS	DDMM50SA	DDMM50SG	DDMM50SW

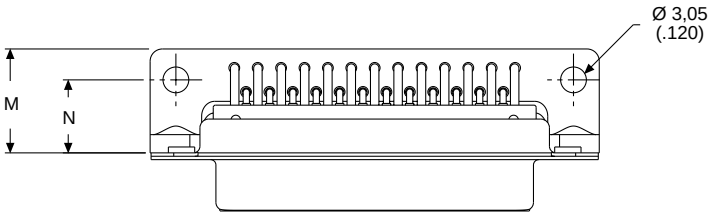
		Commercial Part Numbers					
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)		
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)
DE	9	DEM9SD	DEM9SL	DEM9SS	DEM9SA	DEM9SG	DEM9SW
DA	15	DAM15SD	DAM15SL	DAM15SS	DAM15SA	DAM15SG	DAM15SW
DB	25	DBM25SD	DBM25SL	DBM25SS	DBM25SA	DBM25SG	DBM25SW
DC	37	DCM37SD	DCM37SL	DCM37SS	DCM37SA	DCM37SG	DCM37SW
DD	50	DDM50SD	DDM50SL	DDM50SS	DDM50SA	DDM50SG	DDM50SW

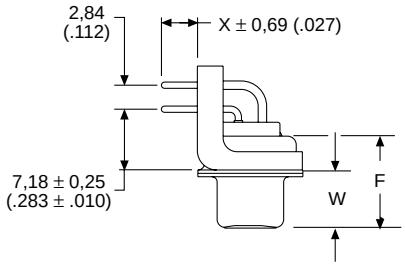
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)	M ±0,25 (.010)	N ±0,13 (.005)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,30 (.484)	8,64 (.340)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,30 (.484)	8,64 (.340)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,30 (.484)	8,64 (.340)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,30 (.484)	8,64 (.340)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)	15,09 (.594)	10,04 (.395)

90° PC Tail

Plug

Reader's Resource

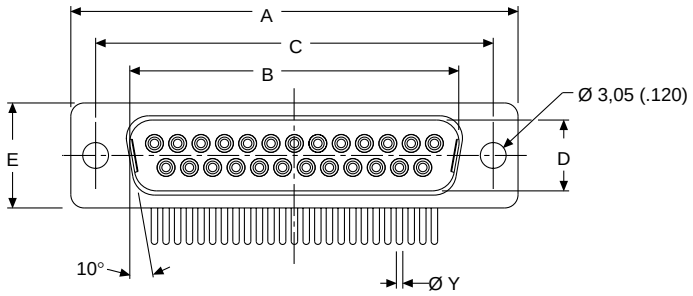
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

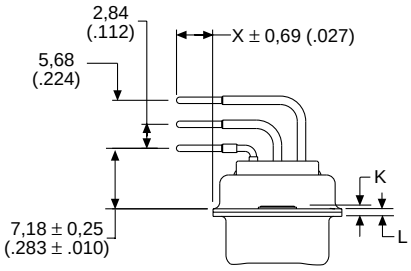
		Military Part Numbers				
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)	
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)
DE	9	DEMM9PF	DEMM9PP	DEMM9PR	DEMM9PC	DEMM9PK
DA	15	DAMM15PF	DAMM15PP	DAMM15PR	DAMM15PC	DAMM15PK
DB	25	DBMM25PF	DBMM25PP	DBMM25PR	DBMM25PC	DBMM25PK
DC	37	DCMM37PF	DCMM37PP	DCMM37PR	DCMM37PC	DCMM37PK
DD	50	DDMM50PF	DDMM50PP	DDMM50PR	DDMM50PC	DDMM50PK

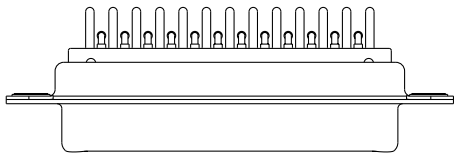
		Commercial Part Numbers				
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)	
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)
DE	9	DEM9PF	DEM9PP	DEM9PR	DEM9PC	DEM9PK
DA	15	DAM15PF	DAM15PP	DAM15PR	DAM15PC	DAM15PK
DB	25	DBM25PF	DBM25PP	DBM25PR	DBM25PC	DBM25PK
DC	37	DCM37PF	DCM37PP	DCM37PR	DCM37PC	DCM37PK
DD	50	DDM50PF	DDM50PP	DDM50PR	DCM50PC	DDM50PK

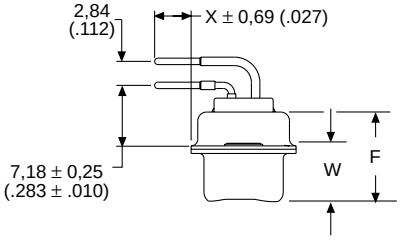
Engaging Face



DD Configuration







Dimensions

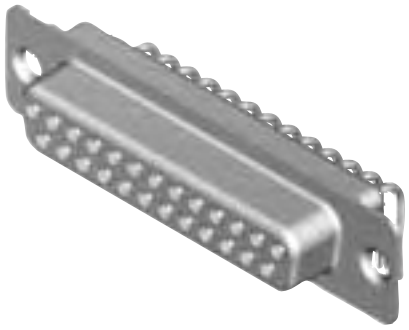
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

90° PC Tail

Receptacle



Reader's Resource

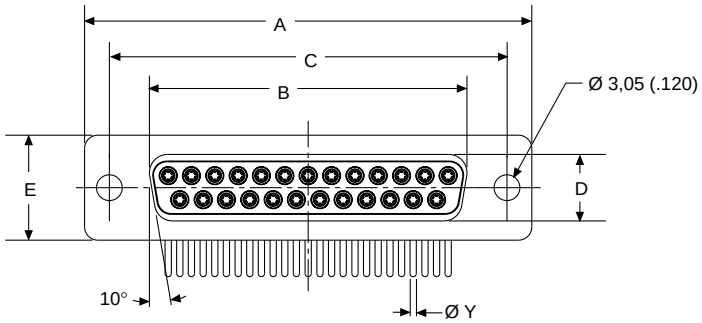
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.
For hardware view (Standard), see page 226.

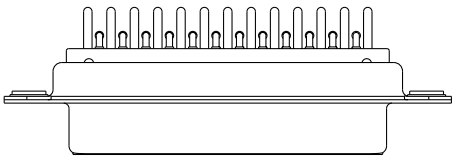
Part Numbers

		Military Part Numbers				
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)	
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)
DE	9	DEMM9SF	DEMM9SP	DEMM9SR	DEMM9SC	DEMM9SK
DA	15	DAMM15SF	DAMM15SP	DAMM15SR	DAMM15SC	DAMM15SK
DB	25	DBMM25SF	DBMM25SP	DBMM25SR	DBMM25SC	DBMM25SK
DC	37	DCMM37SF	DCMM37SP	DCMM37SR	DCMM37SC	DCMM37SK
DD	50	DDMM50SF	DDMM50SP	DDMM50SR	DDMM50SC	DDMM50SK

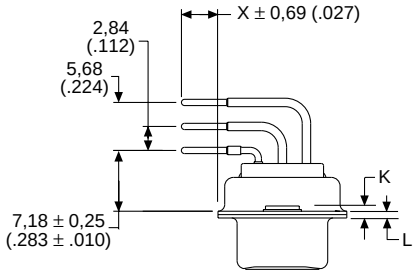
		Commercial Part Numbers				
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)	
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)
DE	9	DEM9SF	DEM9SP	DEM9SR	DEM9SC	DEM9SK
DA	15	DAM15SF	DAM15SP	DAM15SR	DAM15SC	DAM15SK
DB	25	DBM25SF	DBM25SP	DBM25SR	DBM25SC	DBM25SK
DC	37	DCM37SF	DCM37SP	DCM37SR	DCM37SC	DCM37SK
DD	50	DDM50SF	DDM50SP	DDM50SR	DDM50SC	DDM50SK

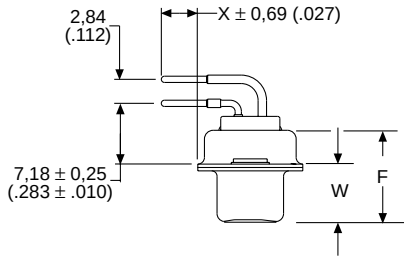
Engaging Face





DD Configuration





Dimensions

Shell Size	A ±0,38 (.015)	B ±0.13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

Straight PC Tail

Plug

Reader's Resource

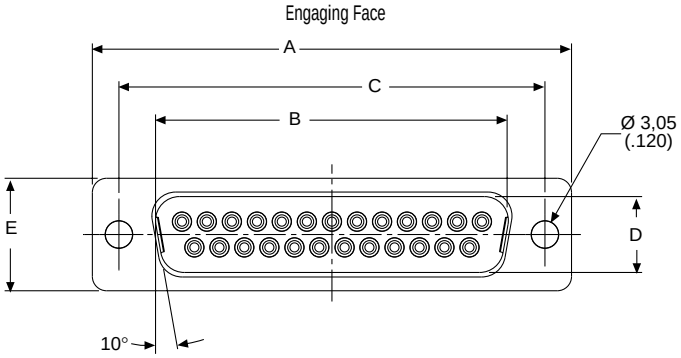
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

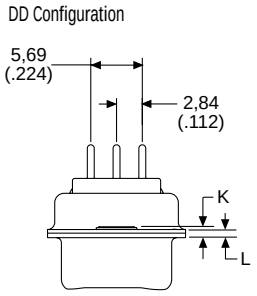
Part Numbers

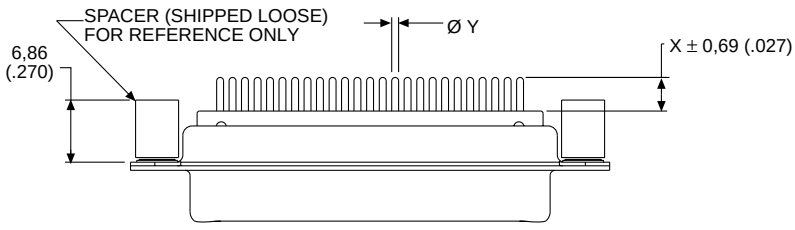
		Military Part Numbers					
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)		
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)
DE	9	DEMM9PE*	DEMM9PM*	DEMM9PZ*	DEMM9PB	DEMM9PH	DEMM9PX*
DA	15	DAMM15PE*	DAMM15PM*	DAMM15PZ*	DAMM15PB	DAMM15PH	DAMM15PX*
DB	25	DBMM25PE*	DBMM25PM*	DBMM25PZ*	DBMM25PB	DBMM25PH	DBMM25PX*
DC	37	DCMM37PE*	DCMM37PM*	DCMM37PZ*	DCMM37PB	DCMM37PH	DCMM37PX*
DD	50	DDMM50PE*	DDMM50PM*	DDMM50PZ*	DDMM50PB	DDMM50PH	DDMM50PX*

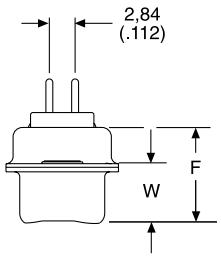
Note: Spacers (shipped loose) provided only on parts marked *

		Commercial Part Numbers					
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)		
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)
DE	9	DEM9PE	DEM9PM	DEM9PZ	DEM9PB	DEM9PH	DEM9PX
DA	15	DAM15PE	DAM15PM	DAM15PZ	DAM15PB	DAM15PH	DAM15PX
DB	25	DBM25PE	DBM25PM	DBM25PZ	DBM25PB	DBM25PH	DBM25PX
DC	37	DCM37PE	DCM37PM	DCM37PZ	DCM37PB	DCM37PH	DCM37PX
DD	50	DDM50PE	DDM50PM	DDM50PZ	DDM50PB	DDM50PH	DDM50PX









Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (0.39)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Straight PC Tail

Receptacle

Reader's Resource

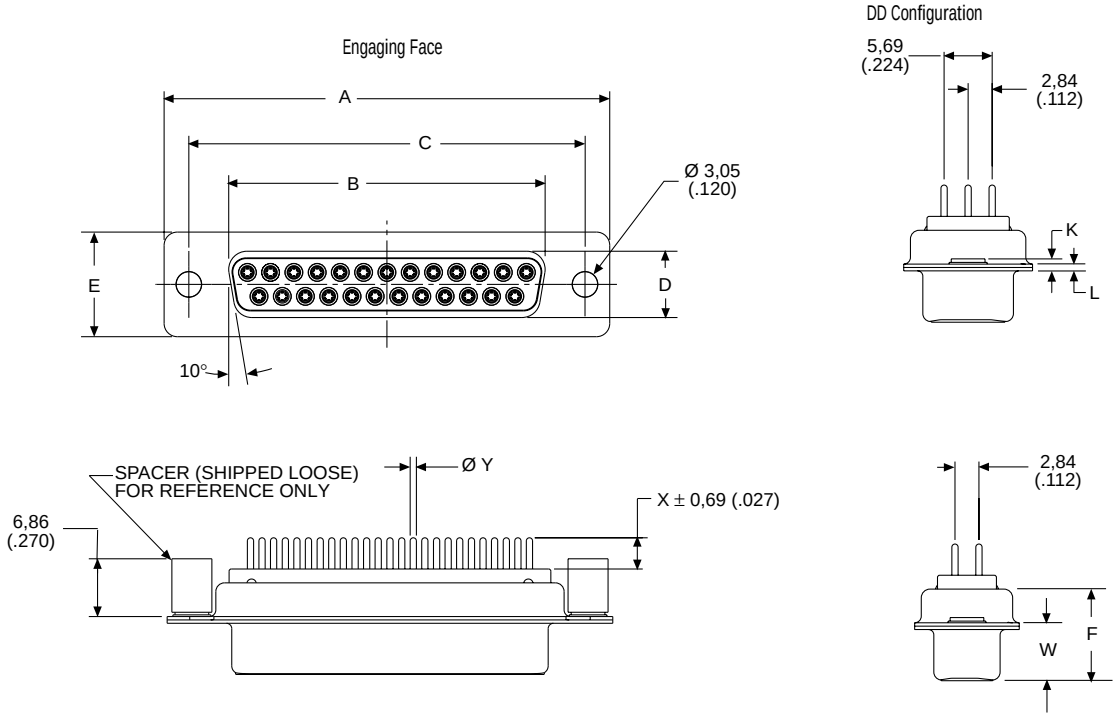
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

		Military Part Numbers					
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)		
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)
DE	9	DEMM9SE*	DEMM9SM*	DEMM9SZ*	DEMM9SB	DEMM9SH	DEMM9SX*
DA	15	DAMM15SE*	DAMM15SM*	DAMM15SZ*	DAMM15SB	DAMM15SH	DAMM15SX*
DB	25	DBMM25SE*	DBMM25SM*	DBMM25SZ*	DBMM25SB	DBMM25SH	DBMM25SX*
DC	37	DCMM37SE*	DCMM37SM*	DCMM37SZ*	DCMM37SB	DCMM37SH	DCMM37SX*
DD	50	DDMM50SE*	DDMM50SM*	DDMM50SZ*	DDMM50SB	DDMM50SH	DDMM50SX*

Note: Spacers (shipped loose) provided only on parts marked *

		Commercial Part Numbers					
		Ø Y 0,76 (.030)			Ø Y 1,02 (.040)		
Shell Size	Layout	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)	X 3,23 (.127)	X 4,01 (.158)	X 4,65 (.183)
DE	9	DEM9SE	DEM9SM	DEM9SZ	DEM9SB	DEM9SH	DEM9SX
DA	15	DAM15SE	DAM15SM	DAM15SZ	DAM15SB	DAM15SH	DAM15SX
DB	25	DBM25SE	DBM25SM	DBM25SZ	DBM25SB	DBM25SH	DBM25SX
DC	37	DCM37SE	DCM37SM	DCM37SZ	DCM37SB	DCM37SH	DCM37SX
DD	50	DDM50SE	DDM50SM	DDM50SZ	DDM50SB	DDM50SH	DDM50SX



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

Wrap Post Connector

Plug

Reader's Resource

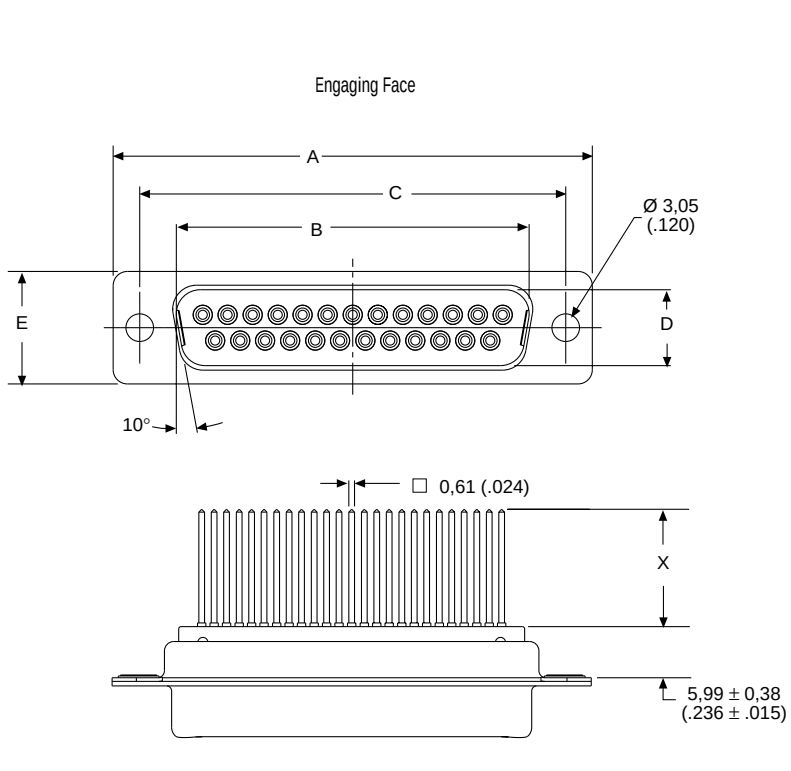
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

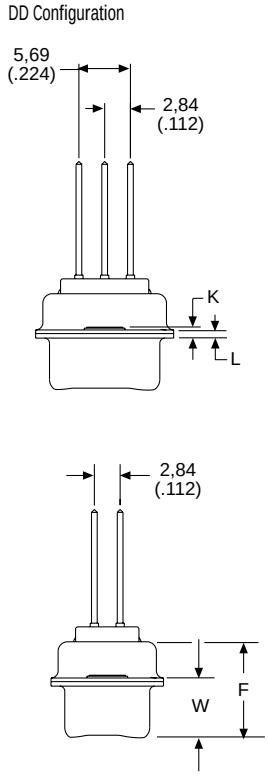
Part Numbers

Shell Size	Layout	Military Part Numbers	
DE	9	DEMM9PF179	DEMM9PF179A
DA	15	DAMM15PF179	DAMM15PF179A
DB	25	DBMM25PF179	DBMM25PF179A
DC	37	DCMM37PF179	DCMM37PF179A
DD	50	DDMM50PF179	DDMM50PF179A

Shell Size	Layout	Commercial Part Numbers	
DE	9	DEM9PF179	DEM9PF179A
DA	15	DAM15PF179	DAM15PF179A
DB	25	DBM25PF179	DBM25PF179A
DC	37	DCM37PF179	DCM37PF179A
DD	50	DDM50PF179	DDM50PF179A

Modification Code	Number of Wraps	X ±0,51 (.020)
F179	2	9,60 (.378)
F179A	3	12,90 (.508)





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Wrap Post Connector

Receptacle

Reader's Resource

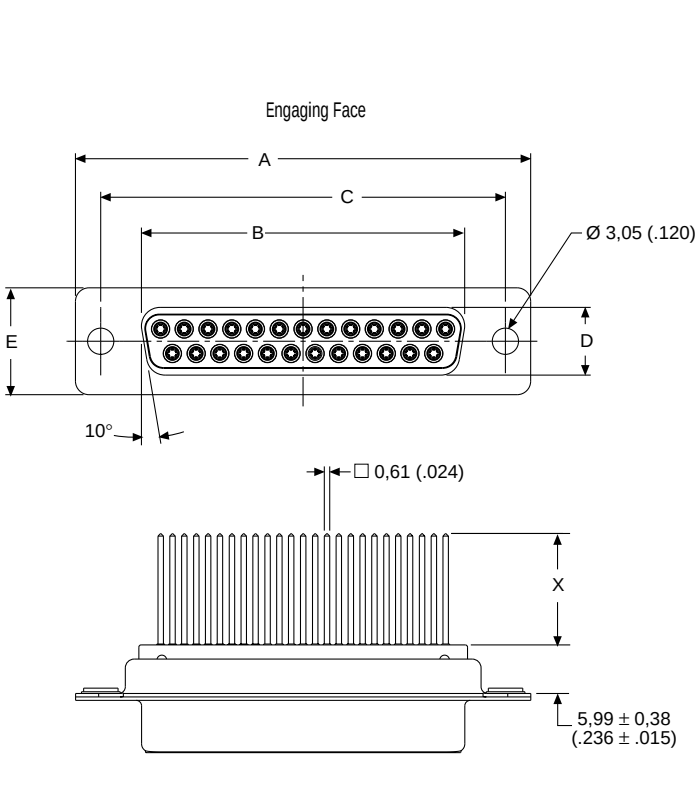
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 274.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

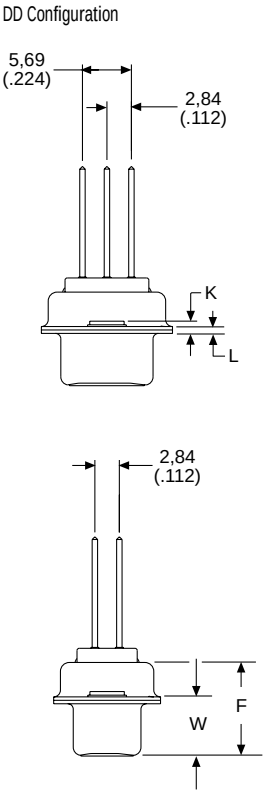
Part Numbers

Shell Size	Layout	Military Part Numbers	
DE	9	DEMM9SF179	DEMM9SF179A
DA	15	DAMM15SF179	DAMM15SF179A
DB	25	DBMM25SF179	DBMM25SF179A
DC	37	DCMM37SF179	DCMM37SF179A
DD	50	DDMM50SF179	DDMM50SF179A

Shell Size	Layout	Commercial Part Numbers	
DE	9	DEM9SF179	DEM9SF179A
DA	15	DAM15SF179	DAM15SF179A
DB	25	DBM25SF179	DBM25SF179A
DC	37	DCM37SF179	DCM37SF179A
DD	50	DDM50SF179	DDM50SF179A

Modification Code	Number of Wraps	X ±0,51 (.020)
F179	2	9,60 (.378)
F179A	3	12,90 (.508)





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

Solder Cup Connector

Plug

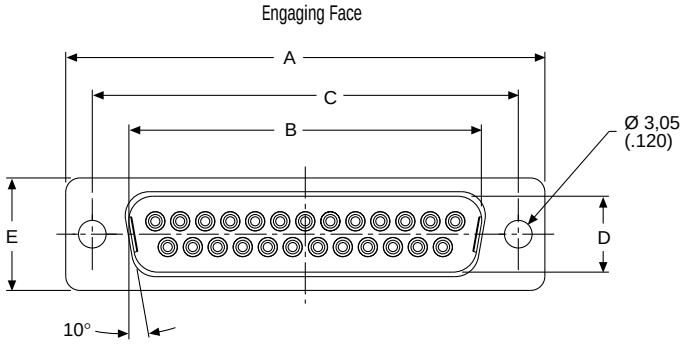
Reader's Resource

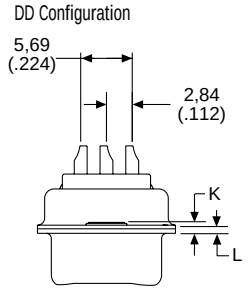
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

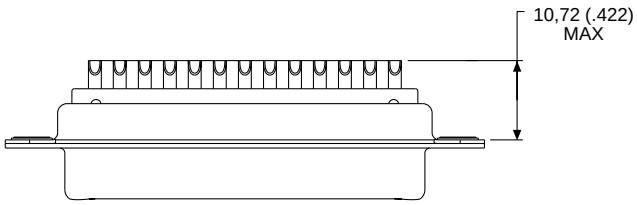
Part Numbers

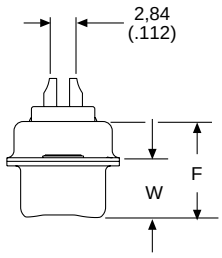
Shell Size	Layout	Military Part Numbers		
		Through Hole	Dual Float Mount	Clinch Nut #4-40 UNC
DE	9	DEMM9P	DEMMY9P	DEMME9P
DA	15	DAMM15P	DAMMY15P	DAMME15P
DB	25	DBMM25P	DBMMY25P	DBMME25P
DC	37	DCMM37P	DCMMY37P	DCMME37P
DD	50	DDMM50P	DDMMY50P	DDMME50P

Shell Size	Layout	Commercial Part Numbers		
		Through Hole	Dual Float Mount	Clinch Nut #4-40 UNC
DE	9	DEM9P	DEMY9P	DEME9P
DA	15	DAM15P	DAMY15P	DAME15P
DB	25	DBM25P	DBMY25P	DBME25P
DC	37	DCM37P	DCMY37P	DCME37P
DD	50	DDM50P	DDMY50P	DDME50P









Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0.76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Solder Cup Connector

Receptacle

Reader's Resource

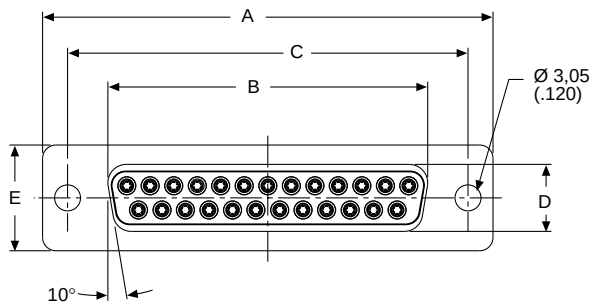
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

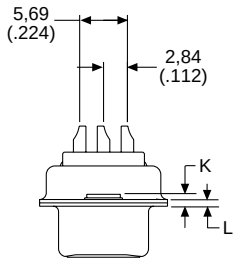
Shell Size	Layout	Military Part Numbers		
		Through Hole	Dual Float Mount	Clinch Nut #4-40 UNC
DE	9	DEMM9S	DEMMY9S	DEMME9S
DA	15	DAMM15S	DAMMY15S	DAMME15S
DB	25	DBMM25S	DBMMY25S	DBMME25S
DC	37	DCMM37S	DCMMY37S	DCMME37S
DD	50	DDMM50S	DDMMY50S	DDMME50S

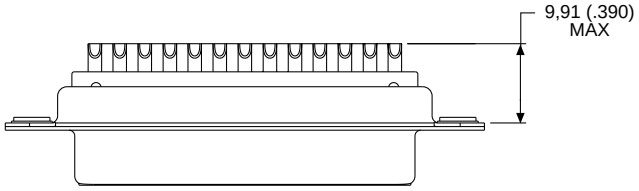
Shell Size	Layout	Commercial Part Numbers		
		Through Hole	Dual Float Mount	Clinch Nut #4-40 UNC
DE	9	DEM9S	DEMY9S	DEME9S
DA	15	DAM15S	DAMY15S	DAME15S
DB	25	DBM25S	DBMY25S	DBME25S
DC	37	DCM37S	DCMY37S	DCME37S
DD	50	DDM50S	DDMY50S	DDME50S

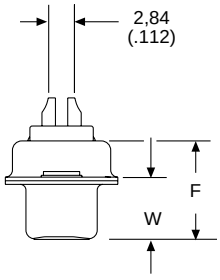
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

MIL-C-24308 Cross Reference

Military Part Number	ITT Cannon Part Number	Military Part Number	ITT Cannon Part Number	Military Part Number	ITT Cannon Part Number
M24308/1-1	DEMM9S	M24308/3-3	DBMM25P	M24308/6-261	DBMAMF25SNM
M24308/1-2	DAMM15S	M24308/3-4	DCMM37P	M24308/6-262	DCMAMF37SNM
M24308/1-3	DBMM25S	M24308/3-5	DDMM50P	M24308/6-263	DDMAMF50SNM
M24308/1-4	DCMM37S	M24308/3-12	DEMMF9P	M24308/6-270	DEMAMFT9SNM
M24308/1-5	DDMM50S	M24308/3-13	DAMMF15P	M24308/6-271	DAMAMFT15SNM
M24308/1-12	DEMMF9S	M24308/3-14	DBMMF25P	M24308/6-272	DBMAMFT25SNM
M24308/1-13	DAMMF15S	M24308/3-15	DCMMF37P	M24308/6-273	DCMAMFT37SNM
M24308/1-14	DBMMF25S	M24308/3-16	DDMMF50P	M24308/6-274	DDMAMFT50SNM
M24308/1-15	DCMMF37S	M24308/4-1	DEMAM9P	M24308/6-281	DEMAM9SNM-FO
M24308/1-16	DDMMF50S	M24308/4-2	DAMAM15P	M24308/6-282	DAMAM15SNM-FO
M24308/1-23	DEMMY9S	M24308/4-3	DBMAM25P	M24308/6-283	DBMAM25SNM-FO
M24308/1-24	DAMMY15S	M24308/4-4	DCMAM37P	M24308/6-284	DCMAM37SNM-FO
M24308/1-25	DBMMY25S	M24308/4-5	DDMAM50P	M24308/6-285	DDMAM50SNM-FO
M24308/1-26	DCMMY37S	M24308/4-6	DEMAMT9P	M24308/6-324	DEMAMF9SNM-FO
M24308/1-27	DDMMY50S	M24308/4-7	DAMAMT15P	M24308/6-325	DAMAMF15SNM-FO
M24308/2-1	DEMAM9S	M24308/4-8	DBMAMT25P	M24308/6-326	DBMAMF25SNM-FO
M24308/2-2	DAMAM15S	M24308/4-9	DCMAMT37P	M24308/6-327	DCMAMF37SNM-FO
M24308/2-3	DBMAM25S	M24308/4-10	DDMAMT50P	M24308/6-328	DDMAMF50SNM-FO
M24308/2-4	DCMAM37S	M24308/4-259	DEMAM9P-FO	M24308/6-453	DEMAMY9SNM
M24308/2-5	DDMAM50S	M24308/4-260	DAMAM15P-FO	M24308/6-454	DAMAMY15SNM
M24308/2-6	DEMAMT9S	M24308/4-261	DBMAMF25P-FO	M24308/6-455	DBMAMY25SNM
M24308/2-7	DAMAMT15S	M24308/4-262	DCMAM37P-FO	M24308/6-456	DCMAMY37SNM
M24308/2-8	DBMAMT25S	M24308/4-263	DDMAM50P-FO	M24308/6-457	DDMAMY50SNM
M24308/2-9	DCMAMT37S	M24308/4-302	DEMAMF9P	M24308/6-464	DDMEMYT9SNM
M24308/2-10	DDMAMT50S	M24308/4-303	DAMAMF15P	M24308/6-465	DAMAMYT15SNM
M24308/2-23	DEMAMF9S	M24308/4-304	DBMAMF25P	M24308/6-466	DBMAMYT25SNM
M24308/2-24	DAMAMF15S	M24308/4-305	DCMAMF37P	M24308/6-467	DCMAMYT37SNM
M24308/2-25	DBMAMF25S	M24308/4-306	DDMAMF50P	M24308/6-468	DDMAMYT50SNM
M24308/2-26	DCMAMF37S	M24308/4-313	DEMAMFT9P	M24308/6-491	DEMAMY9SNM-FO
M24308/2-27	DDMAMF50S	M24308/4-314	DAMAMFT15P	M24308/6-492	DAMAMY15SNM-FO
M24308/2-34	DEMAMFT9S	M24308/4-315	DBMAMFT25P	M24308/6-493	DBMAMY25SNM-FO
M24308/2-35	DAMAMFT15S	M24308/4-316	DCMAMFT37P	M24308/6-494	DCMAMY37SNM-FO
M24308/2-36	DBMAMFT25S	M24308/4-317	DDMAMFT50P	M24308/6-495	DDMAMY50SNM-FO
M24308/2-37	DCMAMFT37S	M24308/4-324	DEMAMF9P-FO	M24308/7-1	DEMM9PNM
M24308/2-38	DDMAMFT50S	M24308/4-325	DAMAMF15P-FO	M24308/7-2	DAMM15PNM
M24308/2-281	DEMAM9S-FO	M24308/4-326	DBMAMF25P-FO	M24308/7-3	DBMM25PNM
M24308/2-282	DAMAM15S-FO	M24308/4-327	DCMAMF37P-FO	M24308/7-4	DCMM37PNM
M24308/2-283	DBMAM25S-FO	M24308/4-328	DDMAMF50P-FO	M24308/7-5	DDMM50PNM
M24308/2-284	DCMAM37S-FO	M24308/5-1	DEMM9SNM	M24308/7-12	DEMMF9PNM
M24308/2-285	DDMAM50S-FO	M24308/5-2	DAMM15SNM	M24308/7-13	DAMMF15PNM
M24308/2-292	DEMAMF9S-FO	M24308/5-3	DBMM25SNM	M24308/7-14	DBMMF25PNM
M24308/2-293	DAMAMF15S-FO	M24308/5-4	DCMM37SNM	M24308/7-15	DCMMF37PNM
M24308/2-294	DBMAMF25S-FO	M24308/5-5	DDMM50SNM	M24308/7-16	DDMMF50PNM
M24308/2-295	DCMAMF37S-FO	M24308/5-12	DEMMF9SNM	M24308/8-1	DEMAM9PNM
M24308/2-296	DDMAMF50S-FO	M24308/5-13	DAMMF15SNM	M24308/8-2	DAMAM15PNM
M24308/2-335	DBMAMR25S	M24308/5-14	DBMMF25SNM	M24308/8-3	DBMAM25PNM
M24308/2-336	DCMAMR37S	M24308/5-15	DCMMF37SNM	M24308/8-4	DCMAM37PNM
M24308/2-341	DAMAMR15S	M24308/5-16	DDMMF50SNM	M24308/8-5	DDMAM50PNM
M24308/2-342	DEMAMY9S	M24308/5-23	DDMMY9SNM	M24308/8-6	DEMAMT9PNM
M24308/2-343	DAMAMY15S	M24308/5-24	DAMMY15SNM	M24308/8-7	DAMAMT15PNM
M24308/2-344	DBMAMY25S	M24308/5-25	DBMMY25SNM	M24308/8-8	DBMAMT25PNM
M24308/2-345	DCMAMY37S	M24308/5-26	DCMMY37SNM	M24308/8-9	DCMAMT37PNM
M24308/2-346	DDMAMY50S	M24308/5-27	DDMMY50SNM	M24308/8-10	DDMAMT50PNM
M24308/2-353	DEMAMYT9S	M24308/6-1	DEMAM9SNM	M24308/8-259	DEMAM9PNM-FO
M24308/2-354	DAMAMYT15S	M24308/6-2	DAMAM15SNM	M24308/8-260	DAMAM15PNM-FO
M24308/2-355	DBMAMYT25S	M24308/6-3	DBMAM25SNM	M24308/8-261	DBMAM25PNM-FO
M24308/2-356	DCMAMYT37S	M24308/6-4	DCMAM37SNM	M24308/8-262	DCMAM37PNM-FO
M24308/2-357	DDMAMYT50S	M24308/6-5	DDMAM50SNM	M24308/8-263	DDMAM50PNM-FO
M24308/2-482	DEMAMY9S-FO	M24308/6-6	DEMAMT9SNM	M24308/8-302	DEMAMF9PNM
M24308/2-483	DEMAMY15S-FO	M24308/6-7	DAMAMT15SNM	M24308/8-303	DAMAMF15PNM
M24308/2-484	DEMAMY25S-FO	M24308/6-8	DBMAMT25SNM	M24308/8-304	DBMAMF25PNM
M24308/2-485	DCMAMY37S-FO	M24308/6-9	DCMAMT37SNM	M24308/8-305	DCMAMF37PNM
M24308/2-486	DDMAMY50S-FO	M24308/6-10	DDMAMT50SNM	M24308/8-306	DDMAMF50PNM
M24308/3-1	DEMM9P	M24308/6-259	DEMAMF9SNM	M24308/8-313	DEMAMFT9PNM
M24308/3-2	DAMM15P	M24308/6-260	DAMAMF15SNM	M24308/8-314	DAMAMFT15PNM

Dimensions are shown in mm (inch)
Dimensions subject to change

MIL-C-24308 Cross Reference

Military Part Number	ITT Cannon Part Number	Military Part Number	ITT Cannon Part Number	Military Part Number	ITT Cannon Part Number
M24308/8-315	DBMAMFT25PNM	M24308/23-21	DBMM25SX	M24308/24-15	DBMM25PH
M24308/8-316	DCMAMFT37PNM	M24308/23-22	DCMM37SX	M24308/24-16	DCMM37PH
M24308/8-317	DDMAMFT50PNM	M24308/23-23	DDMM50SX	M24308/24-17	DDMM50PH
M24308/8-324	DEMAMF9PNM-FO	M24308/23-25	DEMM9SD	M24308/24-19	DEMM9PX
M24308/8-325	DAMAMF15PNM-FO	M24308/23-26	DAMM15SD	M24308/24-20	DAMM15PX
M24308/8-326	DBMAMF25PNM-FO	M24308/23-27	DBMM25SD	M24308/24-21	DBMM25PX
M24308/8-327	DCMAMF37PNM-FO	M24308/23-28	DCMM37SD	M24308/24-22	DCMM37PX
M24308/8-328	DDMAMF50PNM-FO	M24308/23-29	DDMM50SD	M24308/24-23	DDMM50PX
M24308/9-1	DEH9P002	M24308/23-31	DEMM9SL	M24308/24-25	DEMM9PD
M24308/9-2	DAH15P002	M24308/23-32	DAMM15SL	M24308/24-26	DAMM15PD
M24308/9-3	DBH25P002	M24308/23-33	DBMM25SL	M24308/24-27	DBMM25PD
M24308/9-4	DCH37P002	M24308/23-34	DCMM37SL	M24308/24-28	DCMM37PD
M24308/9-5	DDH50P002	M24308/23-35	DDMM50SL	M24308/24-29	DDMM50PD
M24308/9-6	DEH9P001	M24308/23-37	DEMM9SA	M24308/24-31	DEMM9PL
M24308/9-7	DAH15P001	M24308/23-38	DAMM15SA	M24308/24-32	DAMM15PL
M24308/9-8	DBH25P001	M24308/23-39	DBMM25SA	M24308/24-33	DBMM25PL
M24308/9-9	DCH37P001	M24308/23-40	DCMM37SA	M24308/24-34	DCMM37PL
M24308/9-10	DDH50P001	M24308/23-41	DDMM50SA	M24308/24-35	DDMM50PL
M24308/9-11	DEH9P202	M24308/23-43	DEMM9SG	M24308/24-37	DEMM9PA
M24308/9-12	DAH15P202	M24308/23-44	DAMM15SG	M24308/24-38	DAMM15PA
M24308/9-13	DBH25P202	M24308/23-45	DBMM25SG	M24308/24-39	DBMM25PA
M24308/9-14	DCH37P202	M24308/23-46	DCMM37SG	M24308/24-40	DCMM37PA
M24308/9-15	DDH50P202	M24308/23-47	DDMM50SG	M24308/24-41	DDMM50PA
M24308/9-16	DEH9P201	M24308/23-49	DEMM9SS	M24308/24-43	DEMM9PG
M24308/9-17	DAH15P201	M24308/23-50	DAMM15SS	M24308/24-44	DAMM15PG
M24308/9-18	DBH25P201	M24308/23-51	DBMM25SS	M24308/24-45	DBMM25PG
M24308/9-19	DCH37P201	M24308/23-52	DCMM37SS	M24308/24-46	DCMM37PG
M24308/9-20	DDH50P201	M24308/23-53	DDMM50SS	M24308/24-47	DDMM50PG
M24308/23-1	DEMM9SM	M24308/23-55	DEMM9SW	M24308/24-49	DEMM9PS
M24308/23-2	DAMM15SM	M24308/23-56	DAMM15SW	M24308/24-50	DAMM15PS
M24308/23-3	DBMM25SM	M24308/23-57	DBMM25SW	M24308/24-51	DBMM25PS
M24308/23-4	DCMM37SM	M24308/23-58	DCMM37SW	M24308/24-52	DCMM37PS
M24308/23-5	DDMM50SM	M24308/23-59	DDMM50SW	M24308/24-53	DDMM50PS
M24308/23-7	DEMM9SZ	M24308/24-1	DEMM9PM	M24308/24-55	DEMM9PW
M24308/23-8	DAMM15SZ	M24308/24-2	DAMM15PM	M24308/24-56	DAMM15PW
M24308/23-9	DBMM25SZ	M24308/24-3	DBMM25PM	M24308/24-57	DBMM25PW
M24308/23-10	DCMM37SZ	M24308/24-4	DCMM37PM	M24308/24-58	DCMM37PW
M24308/23-11	DDMM50SZ	M24308/24-5	DDMM50PM	M24308/24-59	DDMM50PW
M24308/23-13	DEMM9SH	M24308/24-7	DEMM9PZ	M24308/26-1	D20418-2
M24308/23-14	DAMM15SH	M24308/24-8	DAMM15PZ	M24308/26-2	D20418-39
M24308/23-15	DBMM25SH	M24308/24-9	DBMM25PZ		
M24308/23-16	DCMM37SH	M24308/24-10	DCMM37PZ		
M24308/23-17	DDMM50SH	M24308/24-11	DDMM50PZ		
M24308/23-19	DEMM9SX	M24308/24-13	DEMM9PH		
M24308/23-20	DAMM15SX	M24308/24-14	DAMM15PH		

MIL-C-39029 Crimp Contacts

Military Part Number	ITT Cannon Part Number	Contact Size	Contact Style	Product Line	MIL Specification
M39029/63-368	031-1007-078	20	Socket	D*MA	MIL-C-24308
M39029/64-369	330-5291-097	20	Pin	D*MA	MIL-C-24308

HE501/D*M Cross Reference

HE501 Part Number	ITT Cannon Part Number	HE501 Part Number	ITT Cannon Part Number	HE501 Part Number	ITT Cannon Part Number
HE501N09AS3	DEM9S	HE501N9KS33	DEM9SF179A	HE501N09YP4	DEM9POL3
HE501N15AS3	DAM15S	HE501N15KS33	DAM15SF179A	HE501N15YP4	DAM15POL3
HE501N25AS3	DBM25S	HE501N25KS33	DBM25SF179A	HE501N25YP4	DBM25POL3
HE501N37AS3	DCM37S	HE501N37KS33	DCM37SF179A	HE501N37YP4	DCM37POL3
HE501N50AS3	DDM50S	HE501N50KS33	DDM50SF179A	HE501N50YP4	DDM50POL3
HE501F09AS3	DEMY9S	HE501N09AP	DEM9P	HE501P09VP6E	DEM9P1A5N
HE501F15AS3	DAMY15S	HE501N15AP	DAM15P	HE501P15VP6E	DAM15P1A5N
HE501F25AS3	DBMY25S	HE501N25AP	DBM25P	HE501P25VP6E	DBM25P1A5N
HE501F37AS3	DCMY37S	HE501N37AP	DCM37P	HE501P37VP6E	DCM39P1A5N
HE501F50AS3	DDMY50S	HE501N50AP	DDM50P	HE501P50VP6E	DDM50P1A5N
HE501N09YS43	DEM9SOL3	HE501F09AP	DEMY9P	HE501N9KP3	DEM9PF179A
HE501N15YS43	DAM15SOL3	HE501F15AP	DAMY15P	HE501N15KP3	DAM15PF179A
HE501N25YS43	DBM25SOL3	HE501F25AP	DBMY25P	HE501N25KP3	DBM25PF179A
HE501N37YS43	DCM37SOL3	HE501F37AP	DCMY37P	HE501N37KP3	DCM37PF179A
HE501N50YS43	DDM50SOL3	HE501F50AP	DDMY50P	HE501N50KP3	DDM50PF179A
HE501P09VS63E	DEM9S1A5N				
HE501P15VS63E	DAM15SA15N				
HE501P25VS63E	DBM25S1A5N				
HE501P37VS63E	DCM37S1A5N				
HE501P50VS63E	DDM50S1A5N				

Dimensions are shown in mm (inch)
Dimensions subject to change

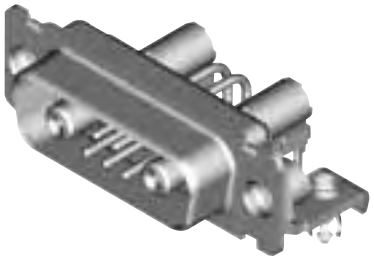
Test Data

MIL-C-24308 Test Extracts Applicable To Class G Connectors

Test Description	Test Requirements				MIL-STD-1344 Test Method
Mating/Unmating Force	Shell Size	Layout	Max Unmating (lbs.)	Max Mating (lbs.)	2013
	DE	9	6	10	
	DA	15	10	17	
	DB	25	17	28	
	DC	37	24	39	
	DD	50	30	49	
Contact Retention	Contacts shall be retained in their inserts by a 9 pound (minimum) force. The axial displacement of contacts shall not exceed .012 inch while under load.				2007
Insulation Resistance	After humidity 1 Megohm (min.) All other conditions 5000 Megohm (min.)				3003
Contact Resistance	After salt spray not to exceed 65 millivolts max.				3004 Size 20 AWG; 7.5 A
Vibration	No damage and no loosening of parts due to vibration. No interruption of electrical continuity longer than 1 microsecond.				2005 Test Cond. 4
Shock	No damage and no loosening of parts. No interruption of electrical continuity longer than 1 microsecond.				2004 Test Cond. E
Durability	No electrical or mechanical defects after 500 cycles of mating and unmating.				2016 200 ± 100 cycles/hour
Salt Spray (Corrosion)	No exposure of base metal due to corrosion which will affect performance. Product will meet further tests as specified.				1001 Cond. B
Fluid Immersion	20 hours immersion MIL-H-5606 Hydraulic Fluid. 20 hours immersion MIL-L-23699 Lubricating Fluid. Connectors shall meet mating/unmating force following immersion.				1016

Coaxial 90° PCB (Sizes DE-DC)

Plug



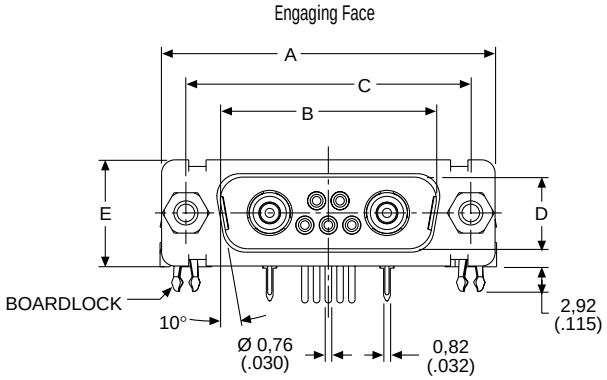
Reader's Resource

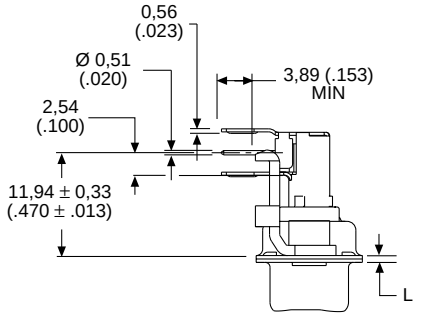
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 228-229.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Bracket and Rivnut #4-40 UNC

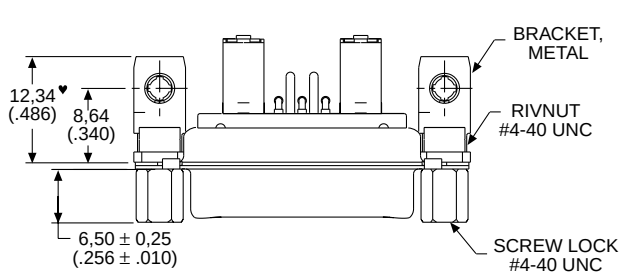
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMP5C1PJ	DEMMC5C1PJ	DEMMD5C1PJ	DEMMG5C1PJ
DA	7W2	DAMMP7C2PJ	DAMMC7C2PJ	DAMMD7C2PJ	DAMMG7C2PJ
DA	11W1	DAMMP11C1PJ	DAMMC11C1PJ	DAMMD11C1PJ	DAMMG11C1PJ
DA	3W3	DAMMP3C3PJ	DAMMC3C3PJ	DAMMD3C3PJ	DAMMG3C3PJ
DA	3WK3♣	DAMMP3CK3PJTM	DAMMC3CK3PJTM	DAMMD3CK3PJTM	DAMMG3CK3PJTM
DB	5W5	DBMMP5C5PJ	DBMMC5C5PJ	DBMMD5C5PJ	DBMMG5C5PJ
DB	9W4	DBMMP9C4PJ	DBMMC9C4PJ	DBMMD9C4PJ	DBMMG9C4PJ
DB	13W3	DBMMP13C3PJ	DBMMC13C3PJ	DBMMD13C3PJ	DBMMG13C3PJ
DB	17W2	DBMMP17C2PJ	DBMMC17C2PJ	DBMMD17C2PJ	DBMMG17C2PJ
DB	21W1	DBMMP21C1PJ	DBMMC21C1PJ	DBMMD21C1PJ	DBMMG21C1PJ
DC	8W8	DCMMP8C8PJ	DCMMC8C8PJ	DCMMD8C8PJ	DCMMG8C8PJ
DC	13W6	DCMMP13C6PJ	DCMMC13C6PJ	DCMMD13C6PJ	DCMMG13C6PJ
DC	17W5	DCMMP17C5PJ	DCMMC17C5PJ	DCMMD17C5PJ	DCMMG17C5PJ
DC	21WA4	DCMMP21CA4PJ	DCMMC21CA4PJ	DCMMD21CA4PJ	DCMMG21CA4PJ
DC	25W3	DCMMP25C3PJ	DCMMC25C3PJ	DCMMD25C3PJ	DCMMG25C3PJ
DC	27W2	DCMMP27C2PJ	DCMMC27C2PJ	DCMMD27C2PJ	DCMMG27C2PJ

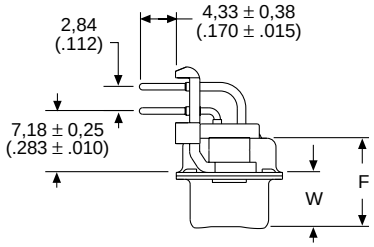
Notes: *For 50 Ohm Coaxial substitute X for C. Example: DEMMP5X1PJ
For DD shell size, see page 148.
♣ Keyed





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and coaxial contact removed for clarity

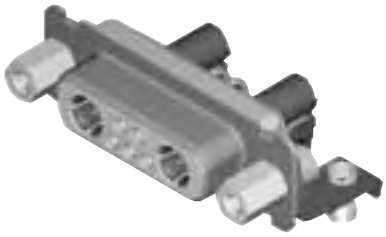
Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

Coaxial 90° PCB (Sizes DE-DC)

Receptacle



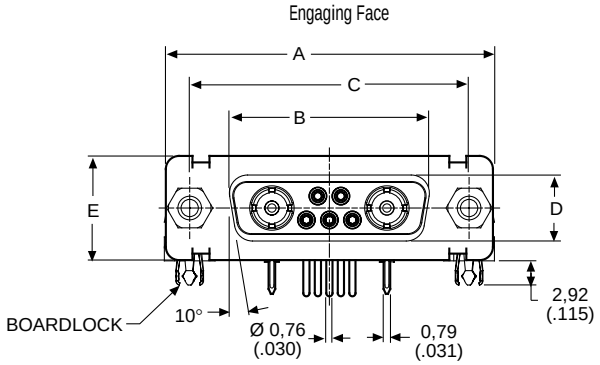
Reader's Resource

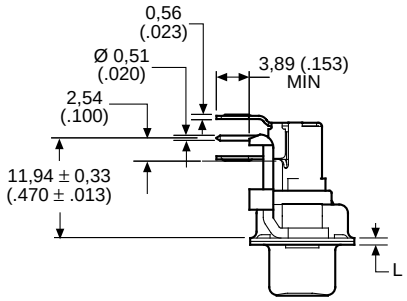
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 231-232.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Bracket and Rivnut #4-40 UNC

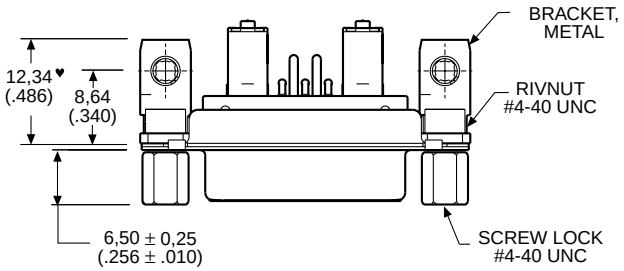
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMP5C1SJ	DEMMC5C1SJ	DEMMD5C1SJ	DEMMG5C1SJ
DA	7W2	DAMMP7C2SJ	DAMMC7C2SJ	DAMMD7C2SJ	DAMMG7C2SJ
DA	11W1	DAMMP11C1SJ	DAMMC11C1SJ	DAMMD11C1SJ	DAMMG11C1SJ
DA	3W3	DAMMP3C3SJ	DAMMC3C3SJ	DAMMD3C3SJ	DAMMG3C3SJ
DA	3WK3♣	DAMMP3CK3SJTM	DAMMC3CK3SJTM	DAMMD3CK3SJTM	DAMMG3CK3SJTM
DB	5W5	DBMMP5C5SJ	DBMMC5C5SJ	DBMMD5C5SJ	DBMMG5C5SJ
DB	9W4	DBMMP9C4SJ	DBMMC9C4SJ	DBMMD9C4SJ	DBMMG9C4SJ
DB	13W3	DBMMP13C3SJ	DBMMC13C3SJ	DBMMD13C3SJ	DBMMG13C3SJ
DB	17W2	DBMMP17C2SJ	DBMMC17C2SJ	DBMMD17C2SJ	DBMMG17C2SJ
DB	21W1	DBMMP21C1SJ	DBMMC21C1SJ	DBMMD21C1SJ	DBMMG21C1SJ
DC	8W8	DCMMP8C8SJ	DCMMC8C8SJ	DCMMD8C8SJ	DCMMG8C8SJ
DC	13W6	DCMMP13C6SJ	DCMMC13C6SJ	DCMMD13C6SJ	DCMMG13C6SJ
DC	17W5	DCMMP17C5SJ	DCMMC17C5SJ	DCMMD17C5SJ	DCMMG17C5SJ
DC	21WA4	DCMMP21CA4SJ	DCMMC21CA4SJ	DCMMD21CA4SJ	DCMMG21CA4SJ
DC	25W3	DCMMP25C3SJ	DCMMC25C3SJ	DCMMD25C3SJ	DCMMG25C3SJ
DC	27W2	DCMMP27C2SJ	DCMMC27C2SJ	DCMMD27C2SJ	DCMMG27C2SJ

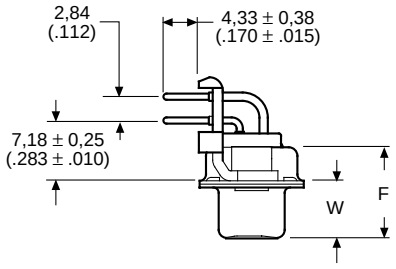
Notes: *For 50 Ohm Coaxial substitute X for C. Example: DEMMP5X1SJ
For DD shell size, see page 149.
♣ Keyed





Screw lock, boardlock and signal contacts removed for clarity





Screw lock, boardlock and coaxial contact removed for clarity

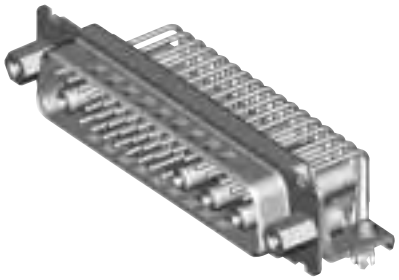
Note: ♥ Dimension varies with altenate bracket configuration, see Reader's Resource page 225.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47.04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Coaxial 90° PCB (Size DD)

Plug



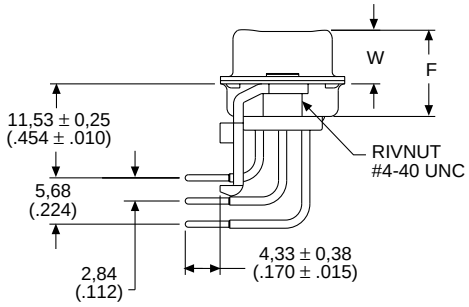
75 Ohm Part Numbers* with Metal Bracket and Rivnut #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMP24C7PJ	DDMMC24C7PJ	DDMMD24C7PJ	DDMMG24C7PJ
DD	36W4	DDMMP36C4PJ	DDMMC36C4PJ	DDMMD36C4PJ	DDMMG36C4PJ
DD	43W2	DDMMP43C2PJ	DDMMC43C2PJ	DDMMD43C2PJ	DDMMG43C2PJ
DD	47W1	DDMMP47C1PJ	DDMMC47C1PJ	DDMMD47C1PJ	DDMMG47C1PJ

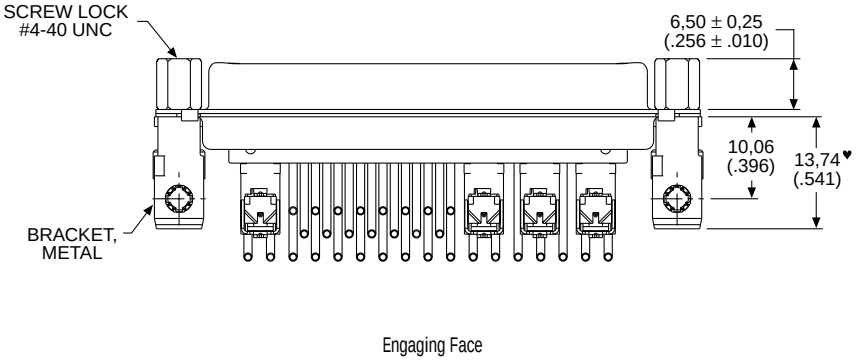
Note: *For 50 Ohm Coaxial substitute X for C. Example: DDMMP24X7PJ

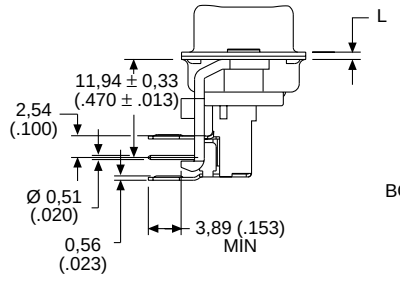
Reader's Resource

For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 230.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.



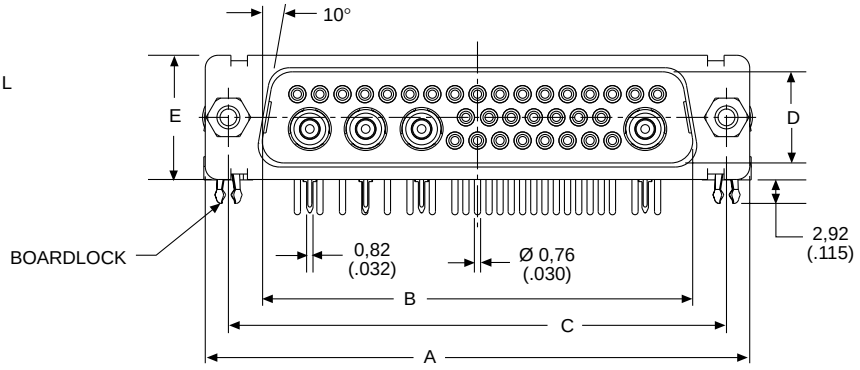
Screw lock, boardlock, and coaxial contact removed for clarity





Screw lock, boardlock, and signal contacts removed for clarity

Engaging Face



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

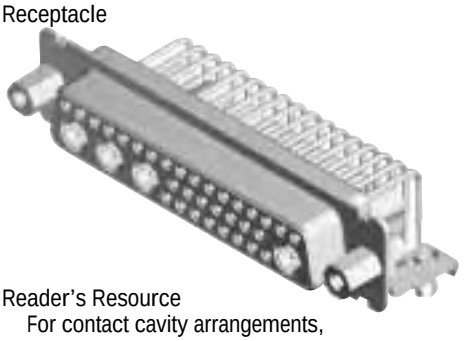
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

Coaxial 90° PCB (Size DD)

Receptacle



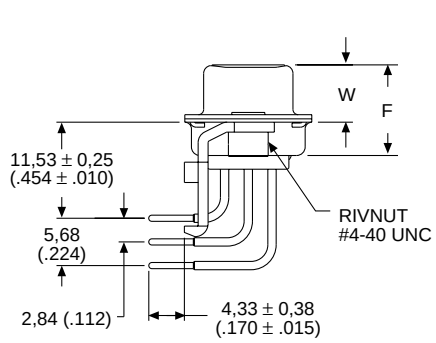
75 Ohm Part Numbers* with Metal Bracket and Rivnut #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMP24C7SJ	DDMMC24C7SJ	DDMMD24C7SJ	DDMMG24C7SJ
DD	36W4	DDMMP36C4SJ	DDMMC36C4SJ	DDMMD36C4SJ	DDMMG36C4SJ
DD	43W2	DDMMP43C2SJ	DDMMC43C2SJ	DDMMD43C2SJ	DDMMG43C2SJ
DD	47W1	DDMMP47C1SJ	DDMMC47C1SJ	DDMMD47C1SJ	DDMMG47C1SJ

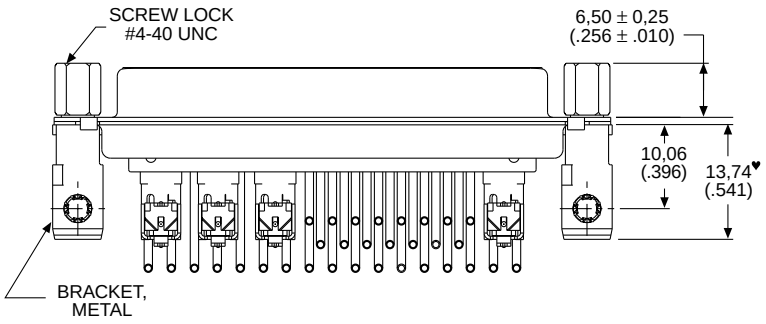
Note: *For 50 Ohm Coaxial substitute X for C. Example: DDMMG36X4SJ

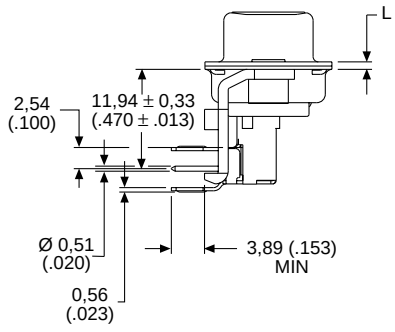
Reader's Resource

For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 233.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.

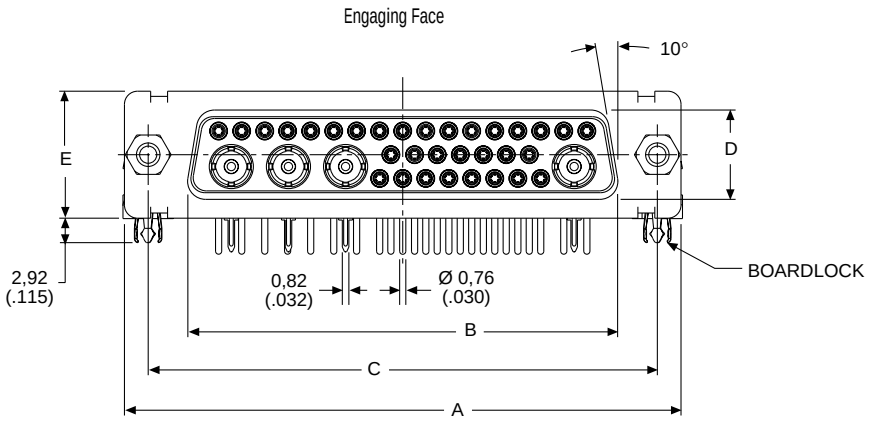


Screw lock, boardlock, and coaxial contacts removed for clarity





Screw lock, boardlock, and signal contacts removed for clarity



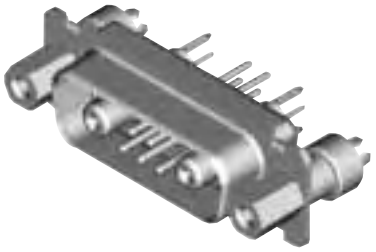
Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Coaxial Straight PCB (Sizes DE-DC)

Plug



Reader's Resource

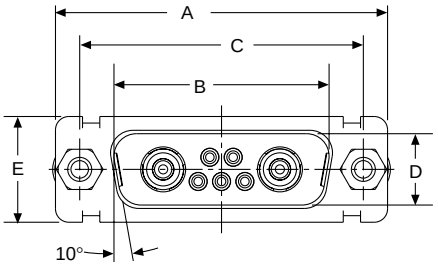
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 238-239.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.

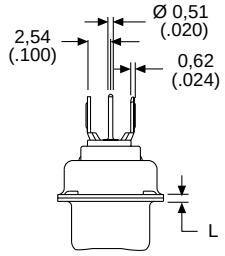
75 Ohm Part Numbers* with Standoff #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMV5C1PN	DEMMZ5C1PN	DEMMN5C1PN
DA	7W2	DAMMV7C2PN	DAMMZ7C2PN	DAMMN7C2PN
DA	11W1	DAMMV11C1PN	DAMMZ11C1PN	DAMMN11C1PN
DA	3W3	DAMMV3C3PN	DAMMZ3C3PN	DAMMN3C3PN
DA	3WK3♣	DAMMV3CK3PNTM	DAMMZ3CK3PNTM	DAMMN3CK3PNTM
DB	5W5	DBMMV5C5PN	DBMMZ5C5PN	DBMMN5C5PN
DB	9W4	DBMMV9C4PN	DBMMZ9C4PN	DBMMN9C4PN
DB	13W3	DBMMV13C3PN	DBMMZ13C3PN	DBMMN13C3PN
DB	17W2	DBMMV17C2PN	DBMMZ17C2PN	DBMMN17C2PN
DB	21W1	DBMMV21C1PN	DBMMZ21C1PN	DBMMN21C1PN
DC	8W8	DCMMV8C8PN	DCMMZ8C8PN	DCMMN8C8PN
DC	13W6	DCMMV13C6PN	DCMMZ13C6PN	DCMMN13C6PN
DC	17W5	DCMMV17C5PN	DCMMZ17C5PN	DCMMN17C5PN
DC	21WA4	DCMMV21CA4PN	DCMMZ21CA4PN	DCMMN21CA4PN
DC	25W3	DCMMV25C3PN	DCMMZ25C3PN	DCMMN25C3PN
DC	27W2	DCMMV27C2PN	DCMMZ27C2PN	DCMMN27C2PN

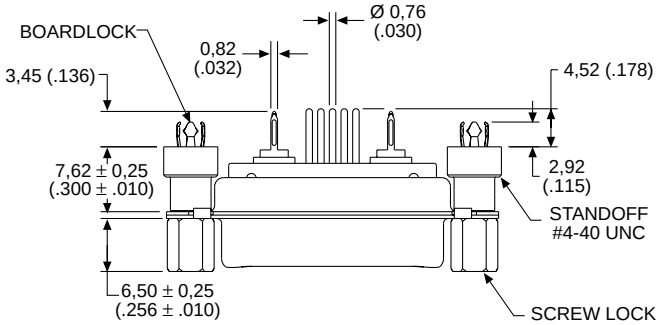
Notes: *For 50 Ohm Coaxial substitute X for C. Example: DEMMV5X1PN
For DD shell size, see page 152.
♣ Keyed

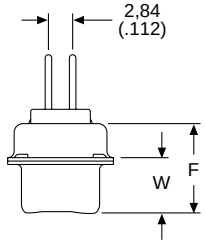
Engaging Face





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and coaxial contact removed for clarity

Dimensions

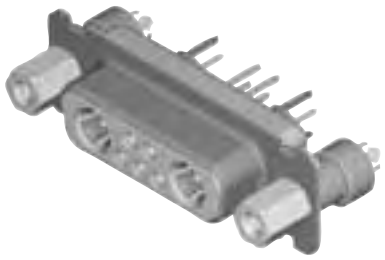
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Coaxial Straight PCB (Sizes DE-DC)

Receptacle



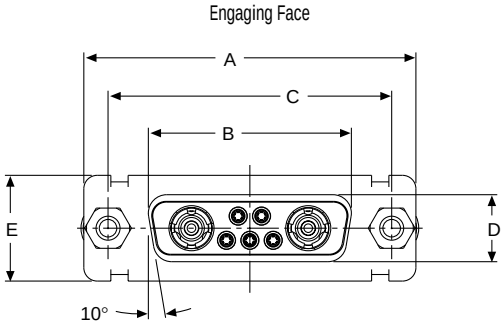
Reader's Resource

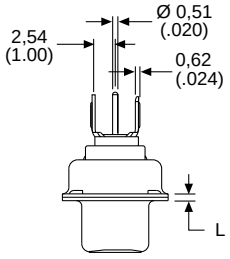
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 241-242.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.

75 Ohm Part Numbers* with Standoff #4-40 UNC

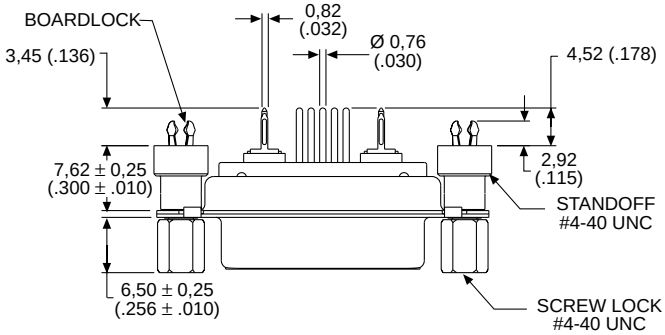
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMV5C1SN	DEMMZ5C1SN	DEMMN5C1SN
DA	7W2	DAMMV7C2SN	DAMMZ7C2SN	DAMMN7C2SN
DA	11W1	DAMMV11C1SN	DAMMZ11C1SN	DAMMN11C1SN
DA	3W3	DAMMV3C3SN	DAMMZ3C3SN	DAMMN3C3SN
DA	3WK3♣	DAMMV3CK3SNTM	DAMMZ3CK3SNTM	DAMMN3CK3SNTM
DB	5W5	DBMMV5C5SN	DBMMZ5C5SN	DBMMN5C5SN
DB	9W4	DBMMV9C4SN	DBMMZ9C4SN	DBMMN9C4SN
DB	13W3	DBMMV13C3SN	DBMMZ13C3SN	DBMMN13C3SN
DB	17W2	DBMMV17C2SN	DBMMZ17C2SN	DBMMN17C2SN
DB	21W1	DBMMV21C1SN	DBMMZ21C1SN	DBMMN21C1SN
DC	8W8	DCMMV8C8SN	DCMMZ8C8SN	DCMMN8C8SN
DC	13W6	DCMMV13C6SN	DCMMZ13C6SN	DCMMN13C6SN
DC	17W5	DCMMV17C5SN	DCMMZ17C5SN	DCMMN17C5SN
DC	21WA4	DCMMV21CA4SN	DCMMZ21CA4SN	DCMMN21CA4SN
DC	25W3	DCMMV25C3SN	DCMMZ25C3SN	DCMMN25C3SN
DC	27W2	DCMMV27C2SN	DCMMZ27C2SN	DCMMN27C2SN

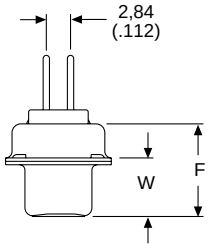
Notes: *For 50 Ohm Coaxial substitute X for C. Example: DEMMV5X1SN
For DD shell size, see page 153.
♣ Keyed





Screw lock, boardlock, and signal contacts removed for clarity





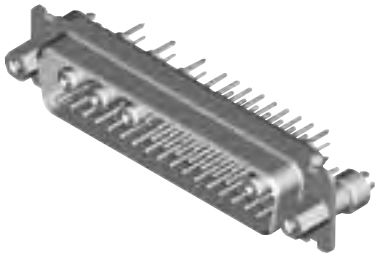
Hardware and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F 0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Coaxial Straight PCB (Size DD)

Plug



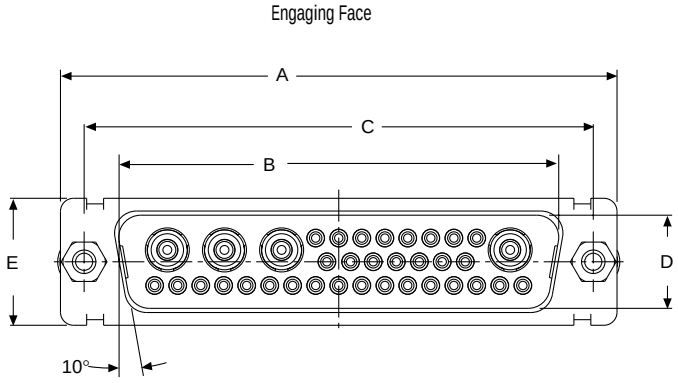
75 Ohm Part Numbers* with Standoff #4-40 UNC

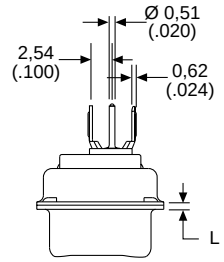
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMV24C7PN	DDMMZ24C7PN	DDMMN24C7PN
DD	36W4	DDMMV36C4PN	DDMMZ36C4PN	DDMMN36C4PN
DD	43W2	DDMMV43C2PN	DDMMZ43C2PN	DDMMN43C2PN
DD	47W1	DDMMV47C1PN	DDMMZ47C1PN	DDMMN47C1PN

Note: *For 50 Ohm Coaxial substitute X for C. Example: DDMMV24XPN

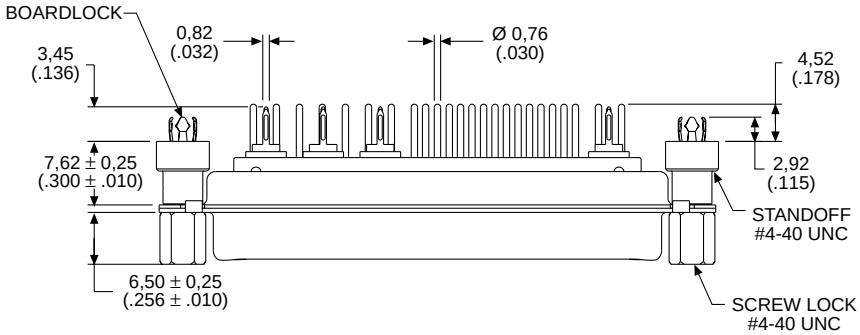
Reader's Resource

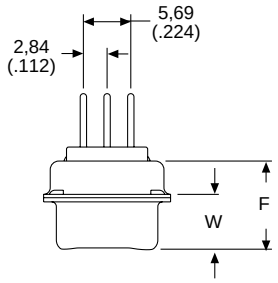
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 256.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and coaxial contact removed for clarity

Dimensions

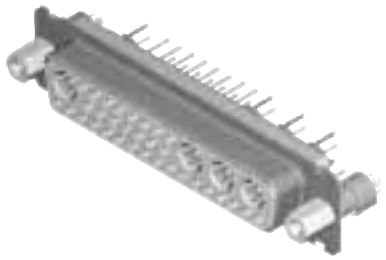
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Coaxial Straight PCB (Size DD)

Receptacle



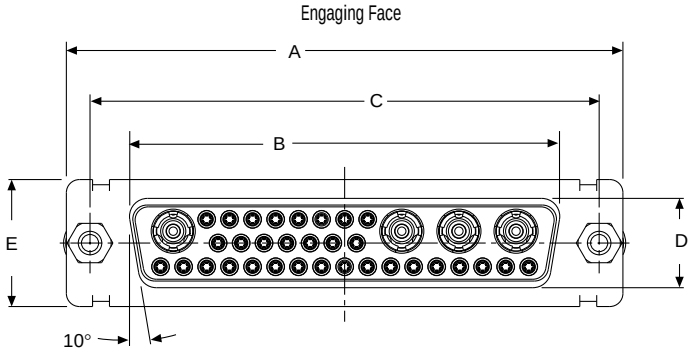
75 Ohm Part Numbers* with Standoff #4-40 UNC

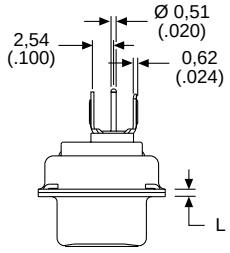
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMV24C7SN	DDMMZ24C7SN	DDMMN24C7SN
DD	36W4	DDMMV36C4SN	DDMMZ36C4SN	DDMMN36C4SN
DD	43W2	DDMMV43C2SN	DDMMZ43C2SN	DDMMN43C2SN
DD	47W1	DDMMV47C1SN	DDMMZ47C1SN	DDMMN47C1SN

Note: *For 50 Ohm Coaxial substitute X for C. Example: DDMMV24X7SN

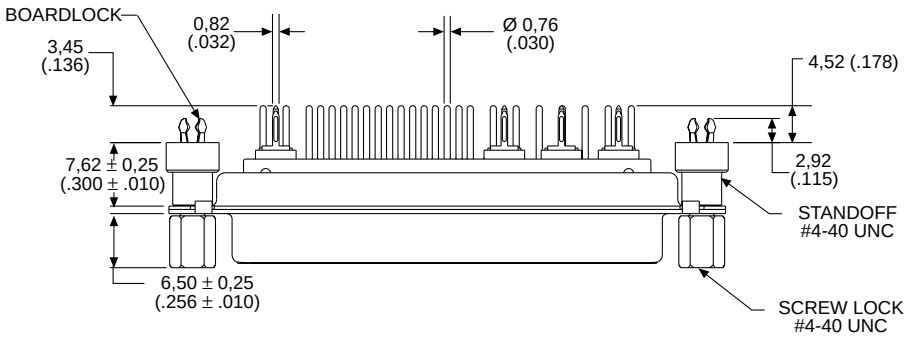
Reader's Resource

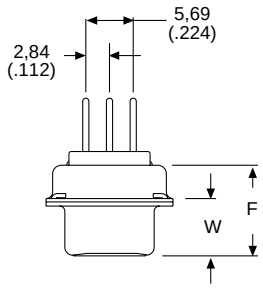
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 259.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate 50 Ohm coaxial configuration, see page 225.





Screw lock, boardlock, and signal contacts removed for clarity





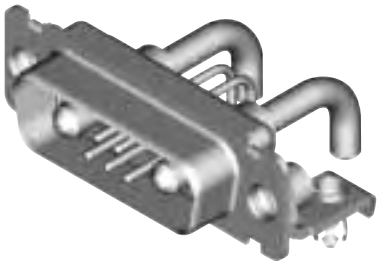
Screw lock, boardlock, and coaxial contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

40 A High Power 90° PCB (Sizes DE-DC)

Plug



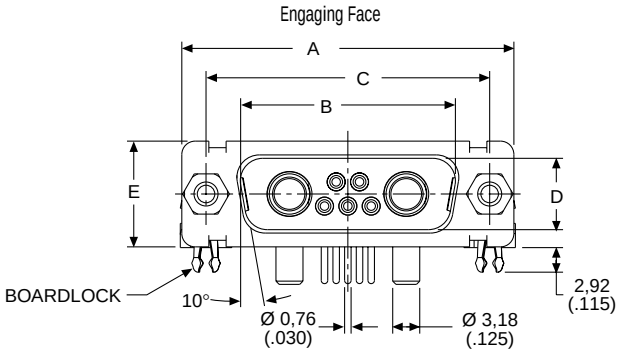
Reader's Resource

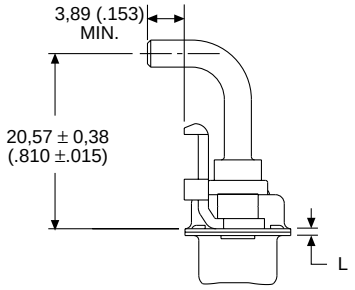
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 244-245.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

Part Numbers with Metal Bracket and Rivnut #4-40 UNC

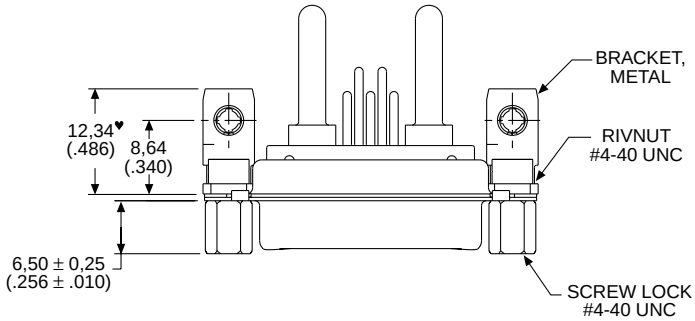
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMP5H1PJ	DEMMC5H1PJ	DEMMD5H1PJ	DEMMG5H1PJ
DA	7W2	DAMMP7H2PJ	DAMMC7H2PJ	DAMMD7H2PJ	DAMMG7H2PJ
DA	11W1	DAMMP11H1PJ	DAMMC11H1PJ	DAMMD11H1PJ	DAMMG11H1PJ
DA	3W3	DAMMP3H3PJ	DAMMC3H3PJ	DAMMD3H3PJ	DAMMG3H3PJ
DA	3WK3♣	DAMMP3HK3PJTM	DAMMC3HK3PJTM	DAMMD3HK3PJTM	DAMMG3HK3PJTM
DB	5W5	DBMMP5H5PJ	DBMMC5H5PJ	DBMMD5H5PJ	DBMMG5H5PJ
DB	9W4	DBMMP9H4PJ	DBMMC9H4PJ	DBMMD9H4PJ	DBMMG9H4PJ
DB	13W3	DBMMP13H3PJ	DBMMC13H3PJ	DBMMD13H3PJ	DBMMG13H3PJ
DB	17W2	DBMMP17H2PJ	DBMMC17H2PJ	DBMMD17H2PJ	DBMMG17H2PJ
DB	21W1	DBMMP21H1PJ	DBMMC21H1PJ	DBMMD21H1PJ	DBMMG21H1PJ
DC	8W8	DCMMP8H8PJ	DCMMC8H8PJ	DCMMD8H8PJ	DCMMG8H8PJ
DC	13W6	DCMMP13H6PJ	DCMMC13H6PJ	DCMMD13H6PJ	DCMMG13H6PJ
DC	17W5	DCMMP17H5PJ	DCMMC17H5PJ	DCMMD17H5PJ	DCMMG17H5PJ
DC	21WA4	DCMMP21HA4PJ	DCMMC21HA4PJ	DCMMD21HA4PJ	DCMMG21HA4PJ
DC	25W3	DCMMP25H3PJ	DCMMC25H3PJ	DCMMD25H3PJ	DCMMG25H3PJ
DC	27W2	DCMMP27H2PJ	DCMMC27H2PJ	DCMMD27H2PJ	DCMMG27H2PJ

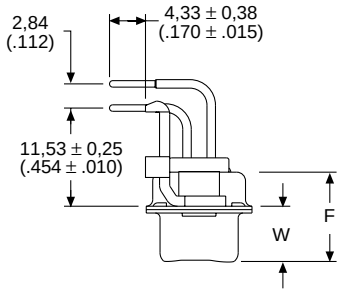
Notes: For DD shell size, see page 156.
♣ Keyed





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

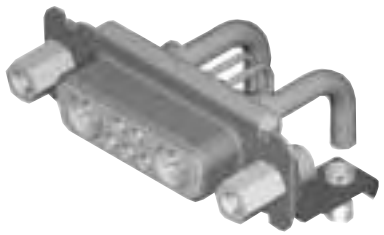
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

ITT Cannon
Dimensions are shown in mm (inch)
Dimensions subject to change

40 A High Power 90° PCB (Sizes DE-DC)

Receptacle



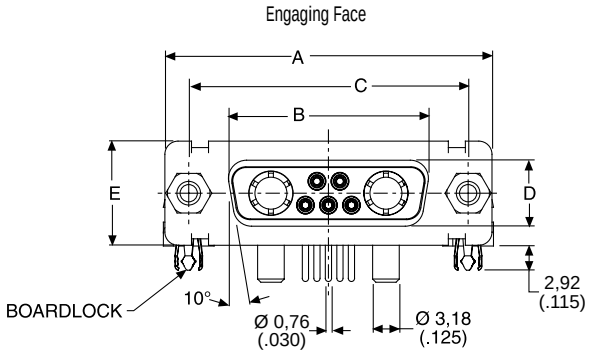
Reader's Resource

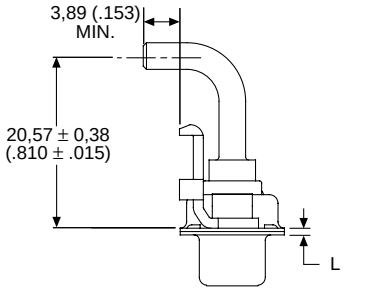
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 247-248.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

Part Numbers with Metal Bracket and Rivnut #4-40 UNC

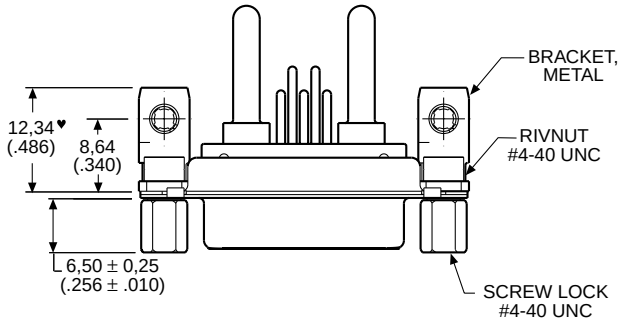
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMP5H1SJ	DEMMC5H1SJ	DEMMD5H1SJ	DEMMG5H1SJ
DA	7W2	DAMMP7H2SJ	DAMMC7H2SJ	DAMMD7H2SJ	DAMMG7H2SJ
DA	11W1	DAMMP11H1SJ	DAMMC11H1SJ	DAMMD11H1SJ	DAMMG11H1SJ
DA	3W3	DAMMP3H3SJ	DAMMC3H3SJ	DAMMD3H3SJ	DAMMG3H3SJ
DA	3WK3♣	DAMMP3HK3SJTM	DAMMC3HK3SJTM	DAMMD3HK3SJTM	DAMMG3HK3SJTM
DB	5W5	DBMMP5H5SJ	DBMMC5H5SJ	DBMMD5H5SJ	DBMMG5H5SJ
DB	9W4	DBMMP9H4SJ	DBMMC9H4SJ	DBMMD9H4SJ	DBMMG9H4SJ
DB	13W3	DBMMP13H3SJ	DBMMC13H3SJ	DBMMD13H3SJ	DBMMG13H3SJ
DB	17W2	DBMMP17H2SJ	DBMMC17H2SJ	DBMMD17H2SJ	DBMMG17H2SJ
DB	21W1	DBMMP21H1SJ	DBMMC21H1SJ	DBMMD21H1SJ	DBMMG21H1SJ
DC	8W8	DCMMP8H8SJ	DCMMC8H8SJ	DCMMD8H8SJ	DCMMG8H8SJ
DC	13W6	DCMMP13H6SJ	DCMMC13H6SJ	DCMMD13H6SJ	DCMMG13H6SJ
DC	17W5	DCMMP17H5SJ	DCMMC17H5SJ	DCMMD17H5SJ	DCMMG17H5SJ
DC	21WA4	DCMMP21HA4SJ	DCMMC21HA4SJ	DCMMD21HA4SJ	DCMMG21HA4SJ
DC	25W3	DCMMP25H3SJ	DCMMC25H3SJ	DCMMD25H3SJ	DCMMG25H3SJ
DC	27W2	DCMMP27H2SJ	DCMMC27H2SJ	DCMMD27H2SJ	DCMMG27H2SJ

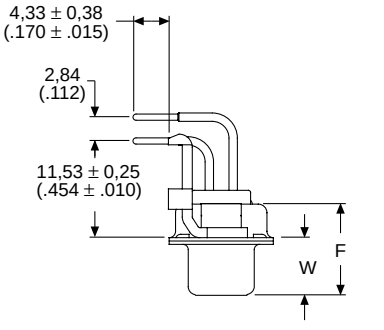
Notes: For DD shell size, see page 157.
♣ Keyed.





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and high power contact removed for clarity

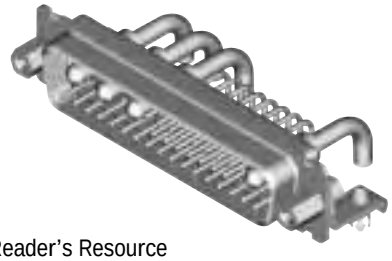
Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

40 A High Power 90° PCB (Size DD)

Plug

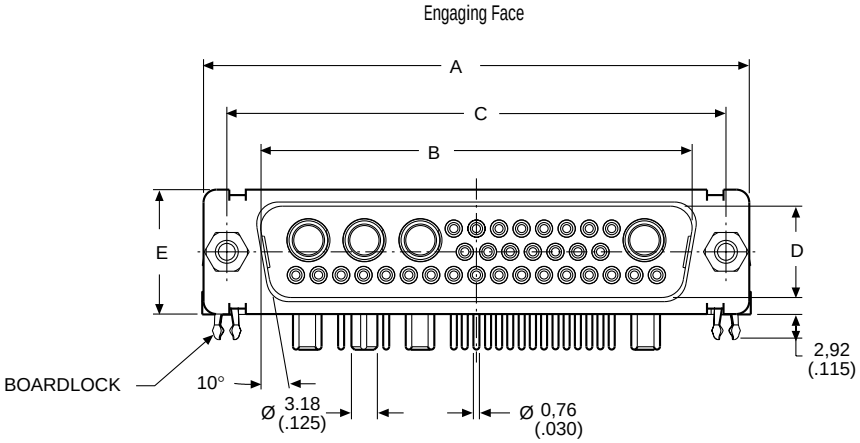


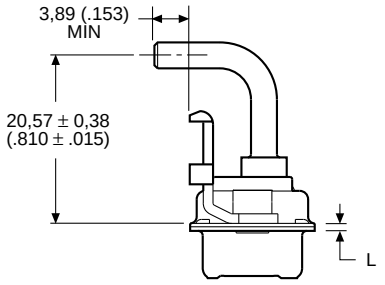
Part Numbers with Metal Bracket and Rivnut #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMP24H7PJ	DDMMC24H7PJ	DDMMD24H7PJ	DDMMG24H7PJ
DD	36W4	DDMMP36H4PJ	DDMMC36H4PJ	DDMMD36H4PJ	DDMMG36H4PJ
DD	43W2	DDMMP43H2PJ	DDMMC43H2PJ	DDMMD43H2PJ	DDMMG43H2PJ
DD	47W1	DDMMP47H1PJ	DDMMC47H1PJ	DDMMD47H1PJ	DDMMG47H1PJ

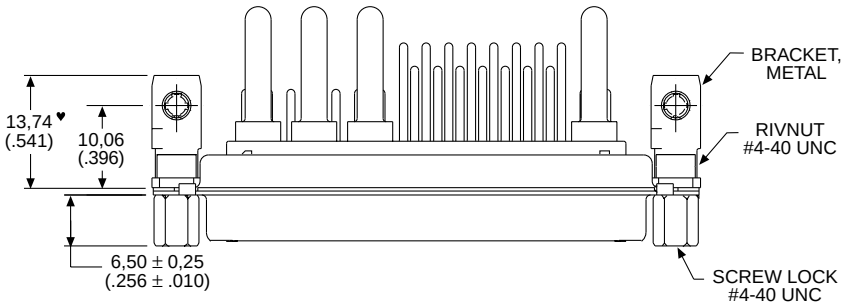
Reader's Resource

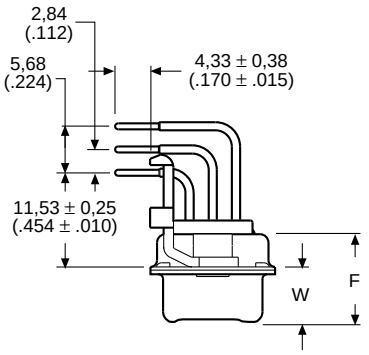
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 246.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

40 A High Power 90° PCB (Size DD)

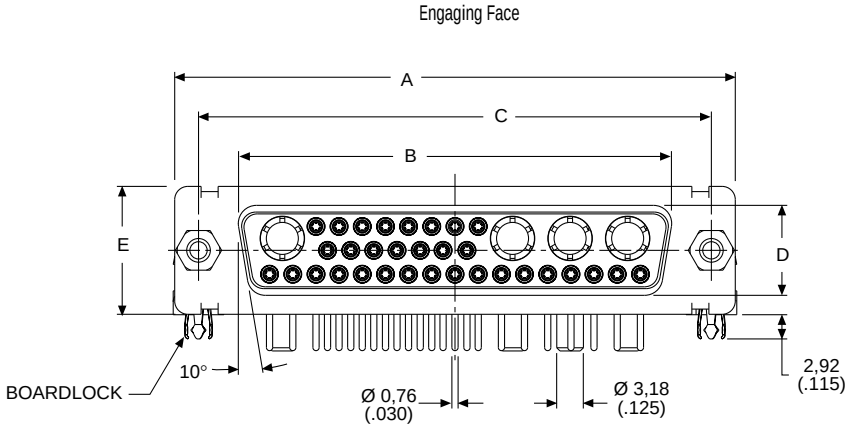
Receptacle

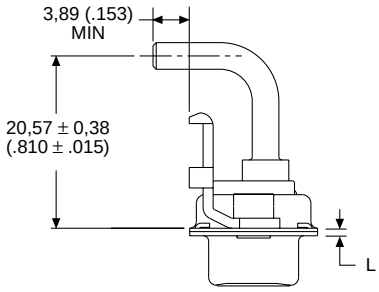
Part Numbers with Metal Bracket and Rivnut #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks Without Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMP24H7SJ	DDMMC24H7SJ	DDMMD24H7SJ	DDMMG24H7SJ
DD	36W4	DDMMP36H4SJ	DDMMC36H4SJ	DDMMD36H4SJ	DDMMG36H4SJ
DD	43W2	DDMMP43H2SJ	DDMMC43H2SJ	DDMMD43H2SJ	DDMMG43H2SJ
DD	47W1	DDMMP47H1SJ	DDMMC47H1SJ	DDMMD47H1SJ	DDMMG47H1SJ

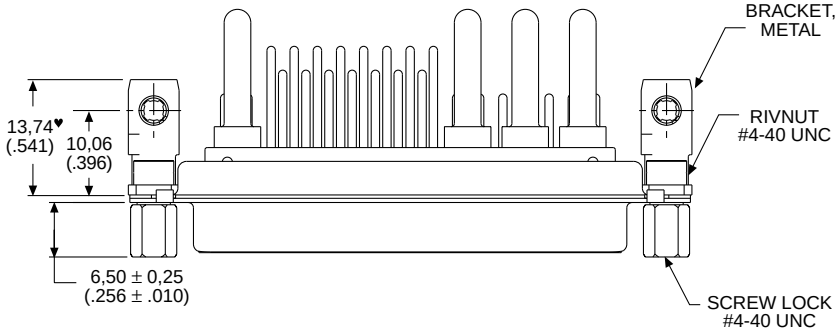
Reader's Resource

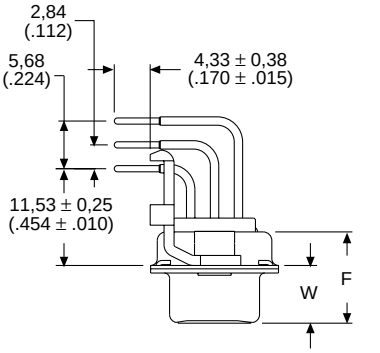
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 249.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.





Screw lock, boardlock, and signal contacts removed for clarity





Screw lock, boardlock, and high power contact removed for clarity

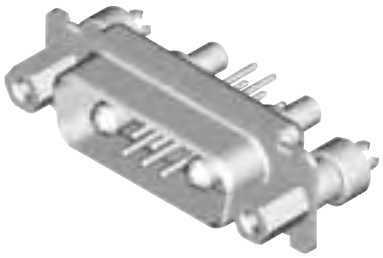
Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

40 A High Power Straight PCB (Sizes DE-DC)

Plug



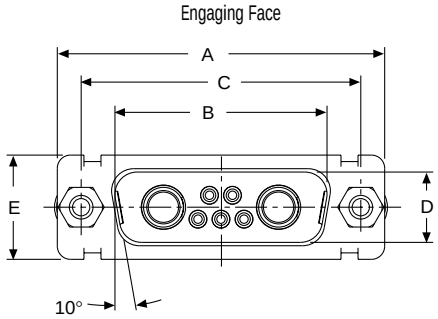
Reader's Resource

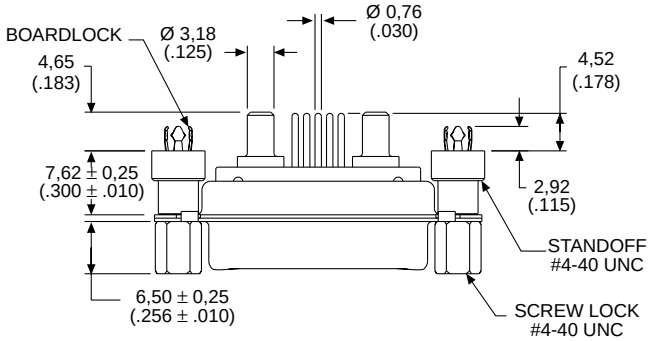
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 254-255.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

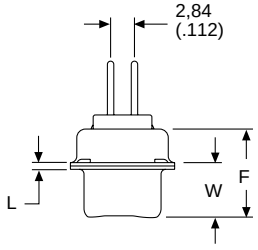
Part Numbers with Standoff #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMV5H1PN	DEMMZ5H1PN	DEMMN5H1PN
DA	7W2	DAMMV7H2PN	DAMMZ7H2PN	DAMMN7H2PN
DA	11W1	DAMMV11H1PN	DAMMZ11H1PN	DAMMN11H1PN
DA	3W3	DAMMV3H3PN	DAMMZ3H3PN	DAMMN3H3PN
DA	3WK3♣	DAMMV3HK3PNTM	DAMMZ3HK3PNTM	DAMMN3HK3PNTM
DB	5W5	DBMMV5H5PN	DBMMZ5H5PN	DBMMN5H5PN
DB	9W4	DBMMV9H4PN	DBMMZ9H4PN	DBMMN9H4PN
DB	13W3	DBMMV13H3PN	DBMMZ13H3PN	DBMMN13H3PN
DB	17W2	DBMMV17H2PN	DBMMZ17H2PN	DBMMN17H2PN
DB	21W1	DBMMV21H1PN	DBMMZ21H1PN	DBMMN21H1PN
DC	8W8	DCMMV8H8PN	DCMMZ8H8PN	DCMMN8H8PN
DC	13W6	DCMMV13H6PN	DCMMZ13H6PN	DCMMN13H6PN
DC	17W5	DCMMV17H5PN	DCMMZ17H5PN	DCMMN17H5PN
DC	21WA4	DCMMV21HA4PN	DCMMZ21HA4PN	DCMMN21HA4PN
DC	25W3	DCMMV25H3PN	DCMMZ25H3PN	DCMMN25H3PN
DC	27W2	DCMMV27H2PN	DCMMZ27H2PN	DCMMN27H2PN

Notes: For DD shell sizes, see page 160.
♣ Keyed.







Screw lock, boardlock and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

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Dimensions are shown in mm (inch)
Dimensions subject to change

40 A High Power Straight PCB (Sizes DE-DC)

Receptacle

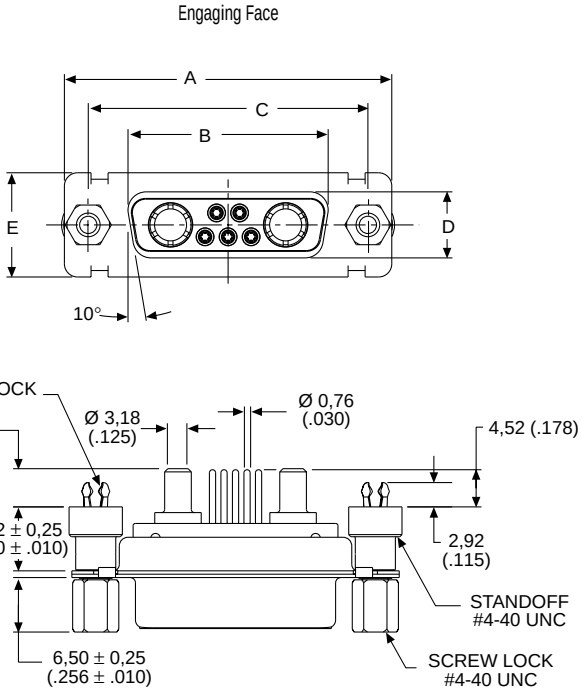
Reader's Resource

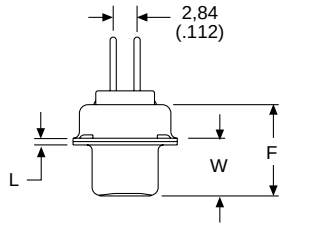
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 257-258.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers with Standoff #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMV5H1SN	DEMMZ5H1SN	DEMMN5H1SN
DA	7W2	DAMMV7H2SN	DAMMZ7H2SN	DAMMN7H2SN
DA	11W1	DAMMV11H1SN	DAMMZ11H1SN	DAMMN11H1SN
DA	3W3	DAMMV3H3SN	DAMMZ3H3SN	DAMMN3H3SN
DA	3WK3♣	DAMMV3HK3SNTM	DAMMZ3HK3SNTM	DAMMN3HK3SNTM
DB	5W5	DBMMV5H5SN	DBMMZ5H5SN	DBMMN5H5SN
DB	9W4	DBMMV9H4SN	DBMMZ9H4SN	DBMMN9H4SN
DB	13W3	DBMMV13H3SN	DBMMZ13H3SN	DBMMN13H3SN
DB	17W2	DBMMV17H2SN	DBMMZ17H2SN	DBMMN17H2SN
DB	21W1	DBMMV21H1SN	DBMMZ21H1SN	DBMMN21H1SN
DC	8W8	DCMMV8H8SN	DCMMZ8H8SN	DCMMN8H8SN
DC	13W6	DCMMV13H6SN	DCMMZ13H6SN	DCMMN13H6SN
DC	17W5	DCMMV17H5SN	DCMMZ17H5SN	DCMMN17H5SN
DC	21WA4	DCMMV21HA4SN	DCMMZ21HA4SN	DCMMN21HA4SN
DC	25W3	DCMMV25H3SN	DCMMZ25H3SN	DCMMN25H3SN
DC	27W2	DCMMV27H2SN	DCMMZ27H2SN	DCMMN27H2SN

Notes: For DD shell sizes, see page 161.
♣ Keyed.





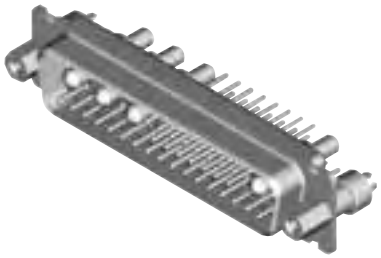
Screw lock, boardlock and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

40 A High Power Straight PCB (Size DD)

Plug

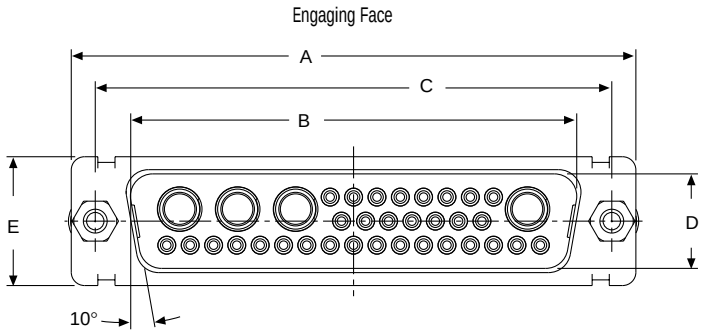


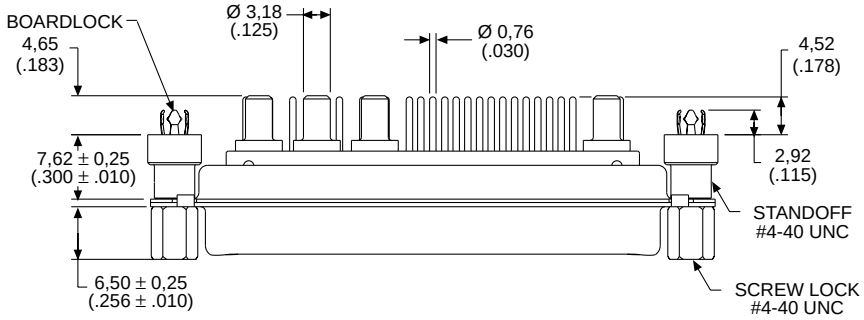
Part Numbers with Standoff #4-40 UNC

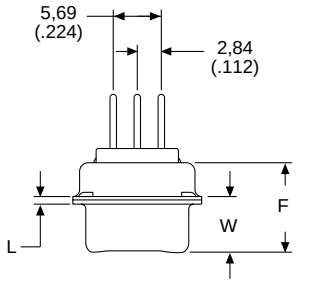
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMV24H7PN	DDMMZ24H7PN	DDMMN24H7PN
DD	36W4	DDMMV36H4PN	DDMMZ36H4PN	DDMMN36H4PN
DD	43W2	DDMMV43H2PN	DDMMZ43H2PN	DDMMN43H2PN
DD	47W1	DDMMV47H1PN	DDMMZ47H1PN	DDMMN47H1PN

Reader's Resource

For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 256.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.







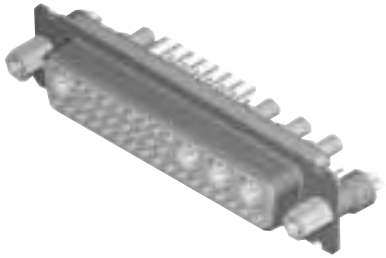
Screw lock, boardlock, and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

40 A High Power Straight PCB (Size DD)

Receptacle

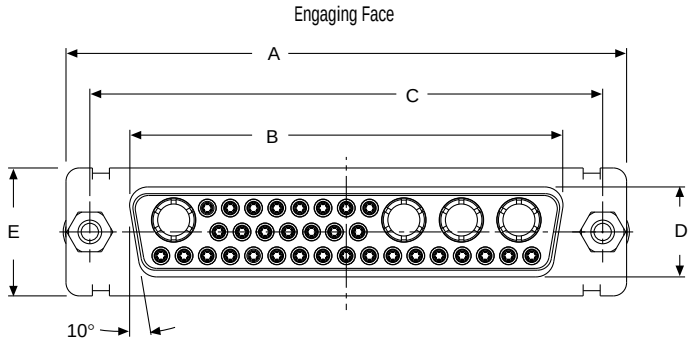


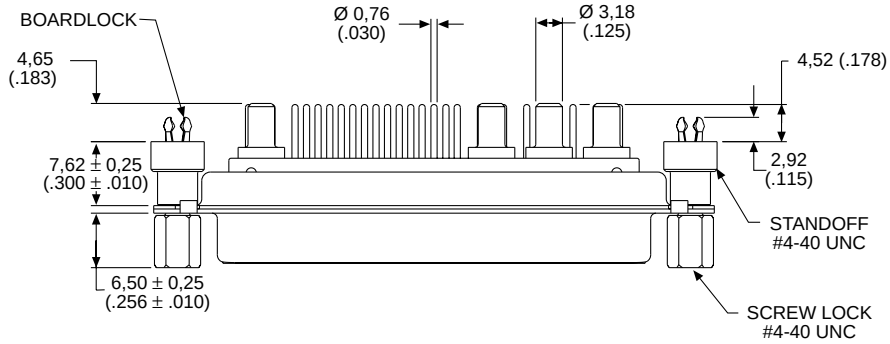
Part Numbers with Standoff #4-40 UNC

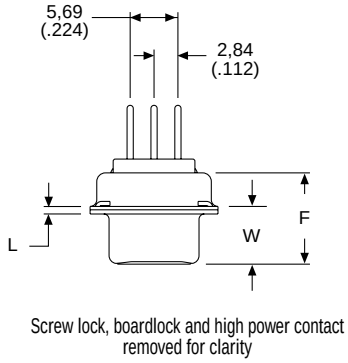
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMV24H7SN	DDMMZ24H7SN	DDMMN24H7SN
DD	36W4	DDMMV36H4SN	DDMMZ36H4SN	DDMMN36H4SN
DD	43W2	DDMMV43H2SN	DDMMZ43H2SN	DDMMN43H2SN
DD	47W1	DDMMV47H1SN	DDMMZ47H1SN	DDMMN47H1SN

Reader's Resource

For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 259.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.







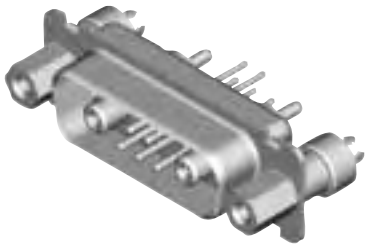
Screw lock, boardlock and high power contact removed for clarity

Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

High Voltage Straight PCB (Sizes DE-DC)

Plug



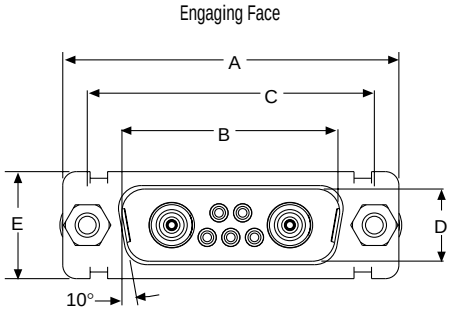
Reader's Resource

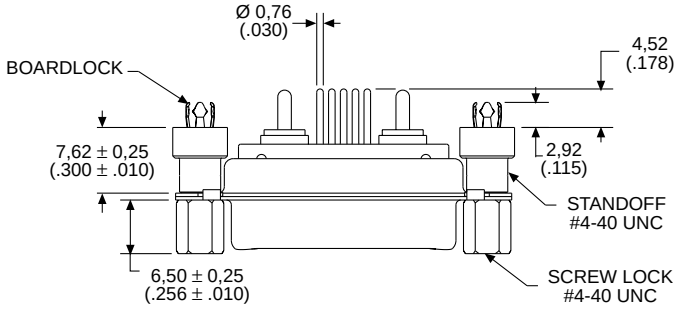
For contact cavity arrangements, see page 222.
For P.C. hole patterns, see pages 254-255.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

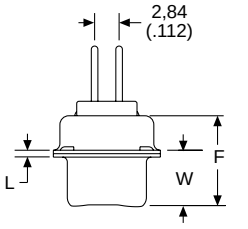
Part Numbers with Standoff #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMV5V1PN	DEMMZ5V1PN	DEMMN5V1PN
DA	7W2	DAMMV7V2PN	DAMMZ7V2PN	DAMMN7V2PN
DA	11W1	DAMMV11V1PN	DAMMZ11V1PN	DAMMN11V1PN
DA	3W3	DAMMV3V3PN	DAMMZ3V3PN	DAMMN3V3PN
DA	3WK3♣	DAMMV3VK3PNTM	DAMMZ3VK3PNTM	DAMMN3VK3PNTM
DB	5W5	DBMMV5V5PN	DBMMZ5V5PN	DBMMN5V5PN
DB	9W4	DBMMV9V4PN	DBMMZ9V4PN	DBMMN9V4PN
DB	13W3	DBMMV13V3PN	DBMMZ13V3PN	DBMMN13V3PN
DB	17W2	DBMMV17V2PN	DBMMZ17V2PN	DBMMN17V2PN
DB	21W1	DBMMV21V1PN	DBMMZ21V1PN	DBMMN21V1PN
DC	8W8	DCMMV8V8PN	DCMMZ8V8PN	DCMMN8V8PN
DC	13W6	DCMMV13V6PN	DCMMZ13V6PN	DCMMN13V6PN
DC	17W5	DCMMV17V5PN	DCMMZ17V5PN	DCMMN17V5PN
DC	21WA4	DCMMV21VA4PN	DCMMZ21VA4PN	DCMMN21VA4PN
DC	25W3	DCMMV25V3PN	DCMMZ25V3PN	DCMMN25V3PN
DC	27W2	DCMMV27V2PN	DCMMZ27V2PN	DCMMN27V2PN

Notes: For DD shell size, see page 164.
♣ Keyed.







Hardware and high voltage contact removed for clarity

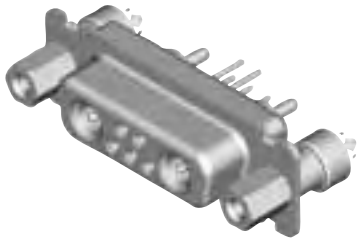
Dimensions

Plug Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,37 (.015)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,69 (.264)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

ITT Cannon
Dimensions are shown in mm (inch)
Dimensions subject to change

High Voltage Straight PCB (Sizes DE-DC)

Receptacle



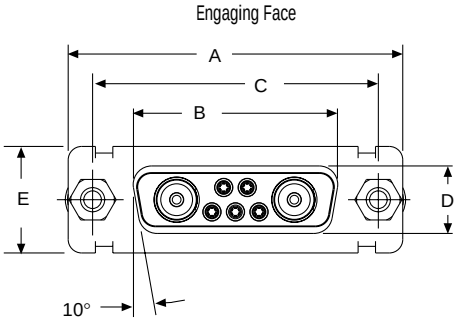
Reader's Resource

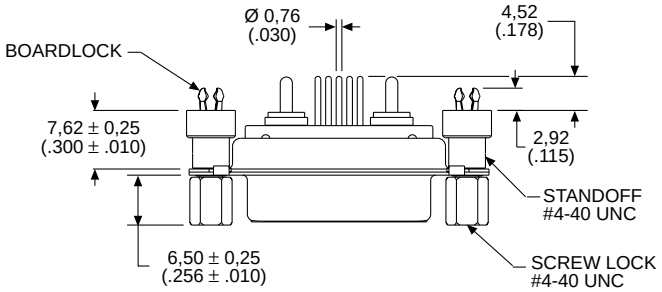
For contact cavity arrangements, see page 223.
For P.C. hole patterns, see pages 257-258.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

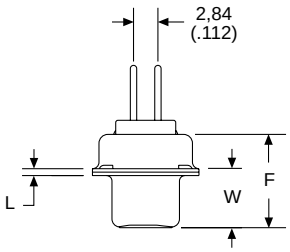
Part Numbers with Standoff #4-40 UNC

Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DE	5W1	DEMMV5V1SN	DEMMZ5V1SN	DEMMN5V1SN
DA	7W2	DAMMV7V2SN	DAMMZ7V2SN	DAMMN7V2SN
DA	11W1	DAMMV11V1SN	DAMMZ11V1SN	DAMMN11V1SN
DA	3W3	DAMMV3V3SN	DAMMZ3V3SN	DAMMN3V3SN
DA	3WK3♣	DAMMV3VK3SNTM	DAMMZ3VK3SNTM	DAMMN3VK3SNTM
DB	5W5	DBMMV5V5SN	DBMMZ5V5SN	DBMMN5V5SN
DB	9W4	DBMMV9V4SN	DBMMZ9V4SN	DBMMN9V4SN
DB	13W3	DBMMV13V3SN	DBMMZ13V3SN	DBMMN13V3SN
DB	17W2	DBMMV17V2SN	DBMMZ17V2SN	DBMMN17V2SN
DB	21W1	DBMMV21V1SN	DBMMZ21V1SN	DBMMN21V1SN
DC	8W8	DCMMV8V8SN	DCMMZ8V8SN	DCMMN8V8SN
DC	13W6	DCMMV13V6SN	DCMMZ13V6SN	DCMMN13V6SN
DC	17W5	DCMMV17V5SN	DCMMZ17V5SN	DCMMN17V5SN
DC	21WA4	DCMMV21VA4SN	DCMMZ21VA4SN	DCMMN21VA4SN
DC	25W3	DCMMV25V3SN	DCMMZ25V3SN	DCMMN25V3SN
DC	27W2	DCMMV27V2SN	DCMMZ27V2SN	DCMMN27V2SN

Notes: For DD shell size, see page 165.
♣ Keyed.







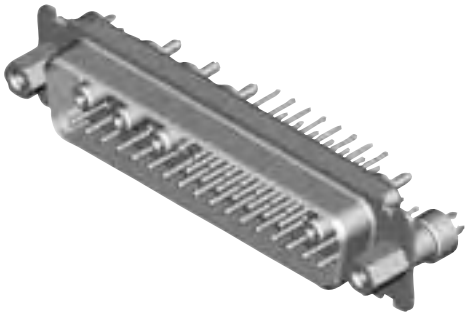
Hardware and high voltage contact removed for clarity.

Dimensions

Receptacle Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)

High Voltage Straight PCB (Size DD)

Plug

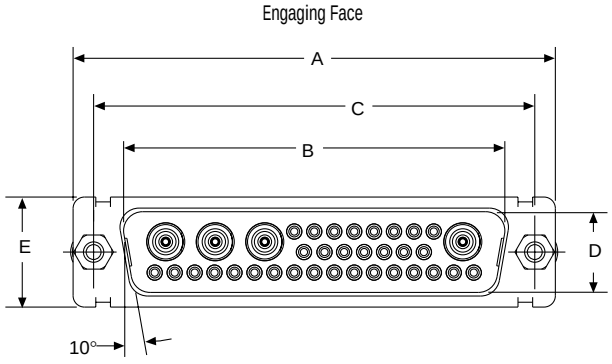


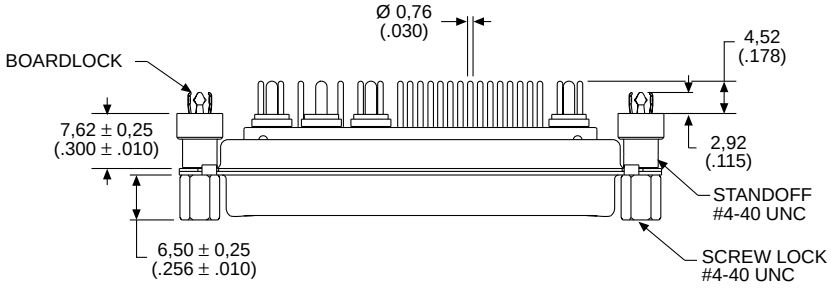
Part Numbers with Standoff #4-40 UNC

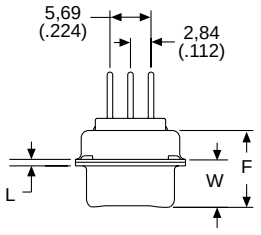
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMV24V7PN	DDMMZ24V7PN	DDMMN24V7PN
DD	36W4	DDMMV36V4PN	DDMMZ36V4PN	DDMMN36V4PN
DD	43W2	DDMMV43V2PN	DDMMZ43V2PN	DDMMN43V2PN
DD	47W1	DDMMV47V1PN	DDMMZ47V1PN	DDMMN47V1PN

Reader's Resource

For contact cavity arrangements, see page 222.
For P.C. hole patterns, see page 256.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.







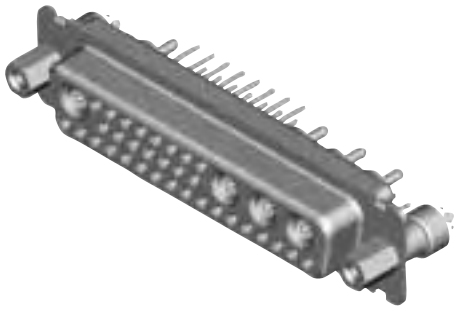
Hardware and high voltage contact removed for clarity.

Dimensions

Plug Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,41 (.016)	L ±0,25 (.010)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	6,84 (.269)	0,99 (.039)

High Voltage Straight PCB (Size DD)

Receptacle

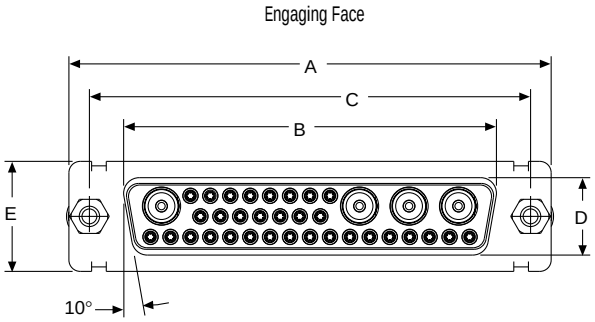


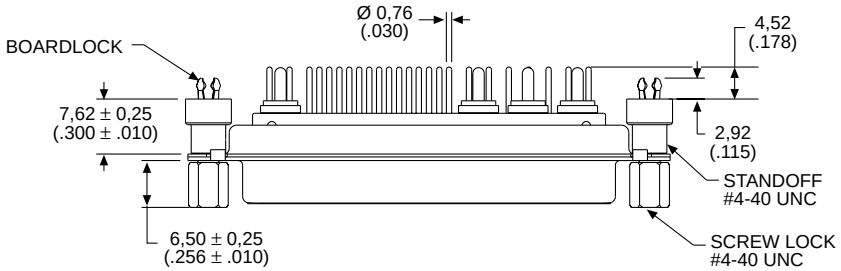
Part Numbers with Standoff #4-40 UNC

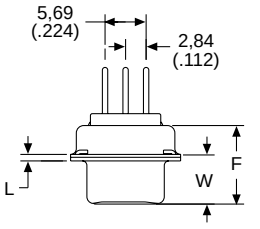
Shell Size	Layout	Part Number Without Screw Locks Without Boardlocks	Part Number Without Screw Locks With Boardlocks	Part Number With Screw Locks With Boardlocks
DD	24W7	DDMMV24V7SN	DDMMZ24V7SN	DDMMN24V7SN
DD	36W4	DDMMV36V4SN	DDMMZ36V4SN	DDMMN36V4SN
DD	43W2	DDMMV43V2SN	DDMMZ43V2SN	DDMMN43V2SN
DD	47W1	DDMMV47V1SN	DDMMZ47V1SN	DDMMN47V1SN

Reader's Resource

For contact cavity arrangements, see page 223.
For P.C. hole patterns, see page 259.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.







Hardware and high voltage contacts removed for clarity

Dimensions

Receptacle Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)

Cable Solder Cup

Plug

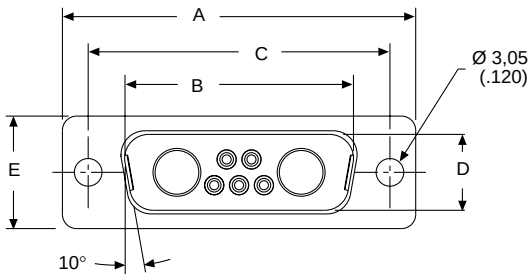
Reader's Resource
For contact cavity arrangements, see page 222.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

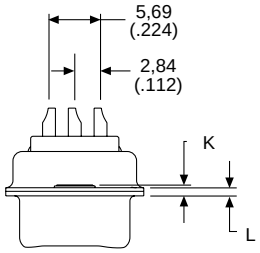
Shell Size	Layout	Through Hole	Dual Float Mount	Clinch Nut #4-40 UNC
DE	5W1	DEMM5W1P	DEMMY5W1P	DEMME5W1P
DA	7W2	DAMM7W2P	DAMMY7W2P	DAMME7W2P
DA	11W1	DAMM11W1P	DAMMY11W1P	DAMME11W1P
DA	3W3	DAMM3W3P	DAMMY3W3P	DAMME3W3P
DA	3WK3♣	DAMM3WK3P	DAMMY3WK3P	DAMME3WK3P
DB	5W5	DBMMP5W5P	DBMMY5W5P	DBMME5W5P
DB	9W4	DBMM9W4P	DBMMY9W4P	DBMME9W4P
DB	13W3	DBMM13W3P	DBMMY13W3P	DBMME13W3P
DB	17W2	DBMM17W2P	DBMMY17W2P	DBMME17W2P
DB	21W1	DBMM21W1P	DBMMY21W1P	DBMME21W1P
DC	8W8	DCMM8W8P	DCMMY8W8P	DCMME8W8P
DC	13W6	DCMM13W6P	DCMMY13W6P	DCMME13W6P
DC	17W5	DCMM17W5P	DCMMY17W5P	DCMME17W5P
DC	21WA4	DCMM21WA4P	DCMMY21WA4P	DCMME21WA4P
DC	25W3	DCMM25W3P	DCMMY25W3P	DCMME25W3P
DC	27W2	DCMM27W2P	DCMMY27W2P	DCMME27W2P
DD	24W7	DDMM24W7P	DDMMY24W7P	DDMME24W7P
DD	36W4	DDMM36W4P	DDMMY36W4P	DDMME36W4P
DD	43W2	DDMM43W2P	DDMMY43W2P	DDMME43W2P
DD	47W1	DDMM47W1P	DDMMY47W1P	DDMME47W1P

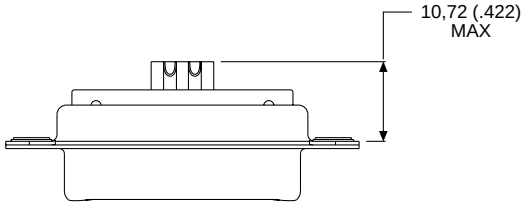
Note: ♣ Keyed.

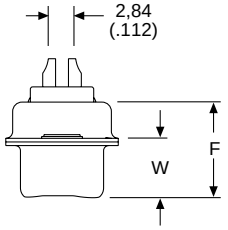
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Cable Solder Cup

Receptacle

Reader's Resource

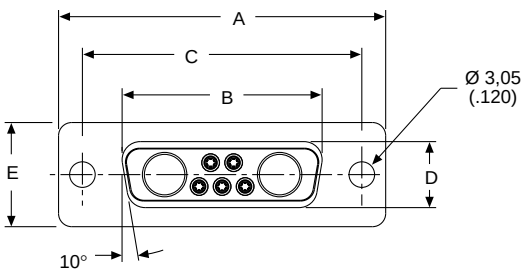
For contact cavity arrangements, see page 223.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

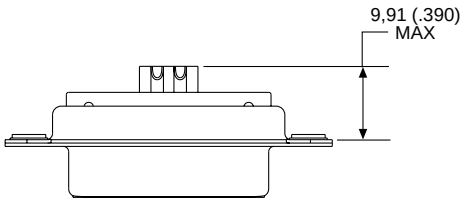
Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount	Clinch Nut #4-40 UNC
DE	5W1	DEMM5W1S	DEMMY5W1S	DEMME5W1S
DA	7W2	DAMM7W2S	DAMMY7W2S	DAMME7W2S
DA	11W1	DAMM11W1S	DAMMY11W1S	DAMME11W1S
DA	3W3	DAMM3W3S	DAMMY3W3S	DAMME3W3S
DA	3WK3♣	DAMM3WK3S	DAMMY3WK3S	DAMME3WK3S
DB	5W5	DBMM5W5S	DBMMY5W5S	DBMME5W5S
DB	9W4	DBMM9W4S	DBMMY9W4S	DBMME9W4S
DB	13W3	DBMM13W3S	DBMMY13W3S	DBMME13W3S
DB	17W2	DBMM17W2S	DBMMY17W2S	DBMME17W2S
DB	21W1	DBMM21W1S	DBMMY21W1S	DBMME21W1S
DC	8W8	DCMM8W8S	DCMMY8W8S	DCMME8W8S
DC	13W6	DCMM13W6S	DCMMY13W6S	DCMME13W6S
DC	17W5	DCMM17W5S	DCMMY17W5S	DCMME17W5S
DC	21WA4	DCMM21WA4S	DCMMY21WA4S	DCMME21WA4S
DC	25W3	DCMM25W3S	DCMMY25W3S	DCMME25W3S
DC	27W2	DCMM27W2S	DCMMY27W2S	DCMME27W2S
DD	24W7	DCMM24W7S	DCMMY24W7S	DCMME24W7S
DD	36W4	DCMM36W4S	DCMMY36W4S	DCMME36W4S
DD	43W2	DCMM43W2S	DCMMY43W2S	DCMME43W2S
DD	47W1	DCMM47W1S	DCMMY47W1S	DCMME47W1S

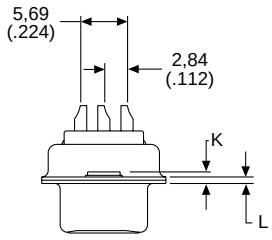
Note: ♣ Keyed.

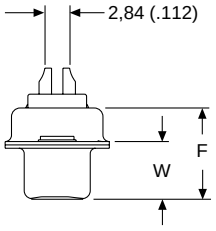
Engaging Face





DD Configuration





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.123)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

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Dimensions are shown in mm (inch)
Dimensions subject to change

ITT Cannon has a long history of providing high performance D Subminiature connectors for space applications (qualified by NASA/GFSC and the European Space Agency). Space/High Reliabilty D*M and D*MA connectors meet stringent tests for outgassing and residual magnetism and are suitable for use in space, medical, and high performance military/aerospace applications. D*M and D*MA connectors meet the performance and dimensional requirements of MIL-C-24308. The newest product group is High Density D*MA crimp connectors.

Applications
- Space - Low/High Orbit Satellites
- Medical

Product Features

- Non-Magnetic
- No Outgassing

Specifications

Temperature Rating	−65° at 125°C
Signal Contact Current Rating	5 A (20 AWG)
Signal Contact Resistance	55 millivolt max. at 7.5 A test current
Wire Accommodation (Solder)	20 AWG max.
Wire Accommodation (Crimp)	18/30 AWG
Coaxial Impedance	50 Ohm
Loss VSWR	Less than 1,3 - 1,0 up to 500 Mhz
Coaxial Insertion Loss	1db loss at 500 Mhz

Dielectric Withstanding Voltage

		Altitude (meter/feet)							
		Sea Level	Sea Level	6 096/20 000	6 096/20 000	15 240/50 000	15 240/50 000	21 336/70 000	21 336/70 000
Average Flashover		1500/1700	1500/1700	1000/1000	1000/1000	500/650	500/650	500/500	500/500
Test		1000/1250	1000/1250	650/750	650/750	325/475	325/475	325/375	325/375
Type of Contact		90°	Straight	90°	Straight	90°	Straight	90°	Straight
Center Conductor to Coaxial Shell	Average	1200	1500	900	1000	600	700	400	500
	Flashover Test	800	1000	600	550	400	475	275	325
Coaxial Shell to Nearest Solder Cup Contact	Average	—	1500	—	1500	—	900	—	650
	Flashover Test	—	1000	—	1000	—	800	—	425
High Power Contact and/or Coaxial Shell to Plug Shell	Average	1500	1500	1000	1000	500	500	500	500
	Flashover Test	1000	1000	650	650	325	325	325	325
Size 20 Signal Contact	Average	1200	1200	1000	1000	650	650	500	500
	Flashover Test	1250	1250	750	750	475	475	375	375

All voltage figures are rms AC 60 rms cps. Measured at approximately +25°C, 50% rh. For additional performance specifications refer to MIL-C-24308.

Residual Magnetism Level

Residual Magnetism	Suffix Code
20 000 Gamma	NM
200 Gamma	NMB

Note: NMC is available by special request. Consult factory for details.

Dimensions are shown in mm (inch)
Dimensions subject to change

Materials and Finishes

Connector Assembly (Shells — Yellow Chromate over Cadmium)

Description	Material	Finish
Shell	Brass per QQ-B-613	Yellow chromate over cadmium QQ-P-416, Type II, Class 2
Insulator	Diallyl Phthalate glass-filled per MIL-M-14, type SDG-F, Color: White (or functional equivalent polyester)*	None
Contact	Copper alloy	Gold 50 microinches min. thickness per MIL-G-45204, Type II, Class 1 over copper per MIL-C-14550
Float Mount, Brackets, Captive Nuts Hardware	Brass	Yellow chromate over cadmium QQ-P-416, Type II, Class 2

Connector Assembly (Shells — Gold over Copper — K52)

Shell	Brass per QQ-B-613	Gold 50 microinches min. thickness per MIL-G-45204, Type II, Class 1 over copper per MIL-C-14550
Insulator	Diallyl Phthalate glass-filled per MIL-M-14, type SDG-F, Color: White (or functional equivalent polyester)*	None
Contact	Copper alloy	Gold 50 microinches min. thickness per MIL-G-45204, Type II, Class 1 over copper per MIL-C-14550
Float Mount, Brackets, Captive Nuts Hardware	Brass	Gold

Coaxial/High Power Contact Assemblies

Outer Coaxial Shell	Copper alloy	Gold 50 microinches min. thickness per MIL-G-45204, Type II, Class 1 over copper per MIL-C-14550
Center Coaxial Contact	Copper alloy	Gold 50 microinches min. thickness per MIL-G-45204, Type II, Class 1 over copper per MIL-C-14550
Insulator (Coaxial Only)	Teflon	None
Retaining Ring	Copper alloy	Gold
High Power Contact	Copper alloy	Gold 50 microinches min. thickness per MIL-G-45204, Type II, Class 1 over copper per MIL-C-14550

* Pending qualification

Straight PC Tail

Plug

Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 275.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

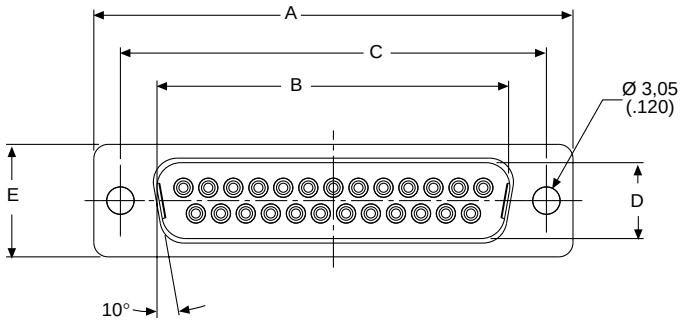
PC Tail Modifiers	X	Ø Y
M	4,01 ± 0,69 (.158 ± .027)	0,76 ± 0,08 (.030 ± .003)
Z	4,65 ± 0,69 (.183 ± .027)	0,76 ± 0,08 (.030 ± .003)
OL3	4,20 ± 1,10 (.185 ± .043)	0,60 ± 0,08 (.023 ± .003)

Part Numbers

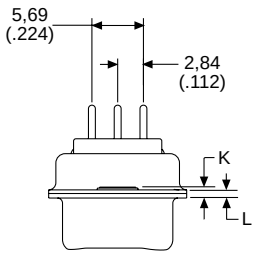
Shell Size	Layout	Through Hole	Dual Float Mount
DE	9	DEM9POL3NM*	DEMY9POL3NM*
DA	15	DAM15POL3NM*	DAMY15POL3NM*
DB	25	DBM25POL3NM*	DBMY25POL3NM*
DC	37	DCM37POL3NM*	DCMY37POL3NM*
DD	50	DDM50POL3NM*	DDMY50POL3NM*

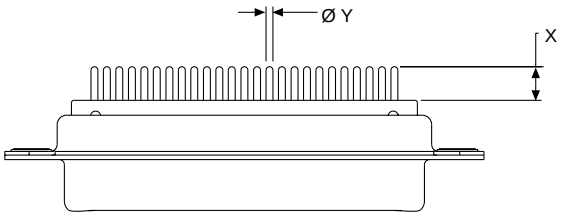
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM9POL3NMB
For shells with 50 microinches gold, add K52. Example: DEM9POL3NMK52
For alternate PC tail modifiers (see tabulation), replace OL3 with M or Z. Example: DEM9PZNM

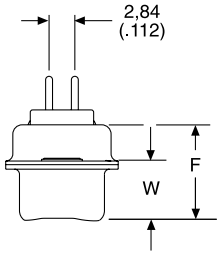
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (0.39)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Straight PC Tail

Receptacle

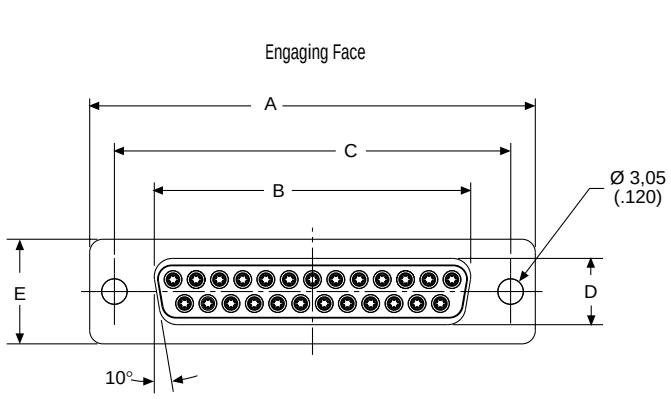
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 275.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

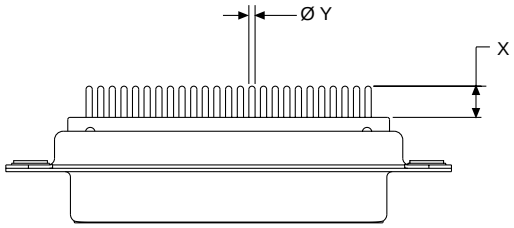
Part Numbers

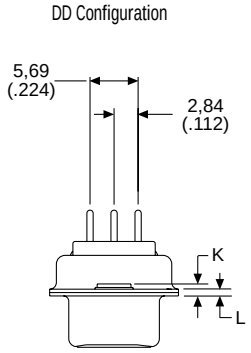
Shell Size	Layout	Through Hole	Dual Float Mount
DE	9	DEM9SOL3NM*	DEMY9SOL3NM*
DA	15	DAM15SOL3NM*	DAMY15SOL3NM*
DB	25	DBM25SOL3NM*	DBMY25SOL3NM*
DC	37	DCM37SOL3NM*	DCMY37SOL3NM*
DD	50	DDM50SOL3NM*	DDMY50SOL3NM*

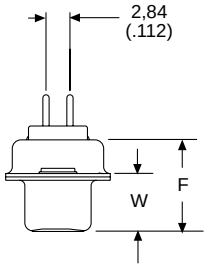
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM9SOL3NMB
For shells with 50 microinches gold, add K52. Example: DEM9SOL3NMK52
For alternate PC tail modifiers (see tabulation), replace OL3 with M or Z. Example: DEM9SZNM

PC Tail Modifiers	X	Ø Y
M	4,01 ± 0,69 (.158 ± .027)	0,76 ± 0,08 (.030 ± .003)
Z	4,65 ± 0,69 (.183 ± .027)	0,76 ± 0,08 (.030 ± .003)
OL3	4,20 ± 1,10 (.185 ± .043)	0,60 ± 0,08 (.023 ± .003)









Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

90° PC Tail with Plastic Bracket

Plug

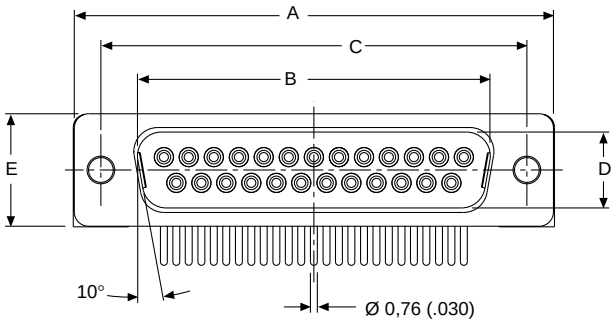
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.

Part Numbers

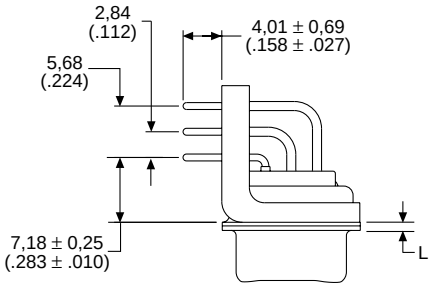
Shell Size	Layout	Part Number
DE	9	DEM9PLNM*
DA	15	DAM15PLNM*
DB	25	DBM25PLNM*
DC	37	DCM37PLNM*
DD	50	DDM50PLNM*

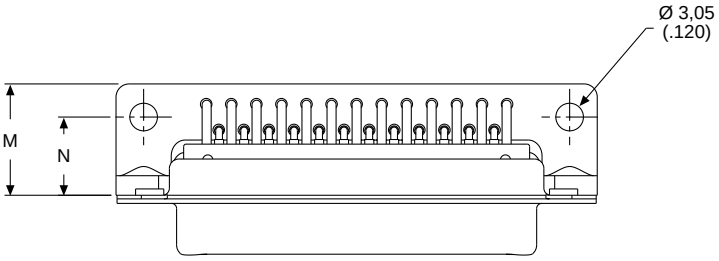
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM9PLNMB
For shells with 50 microinches gold, add K52. Example: DEM9PLNMK52

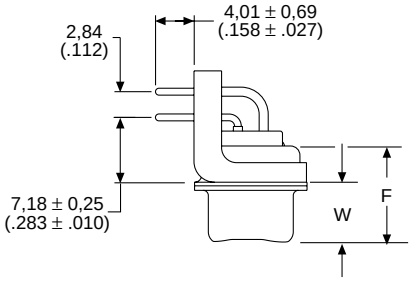
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)	M ±0,25 (.010)	N ±0,13 (.005)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)	12,30 (.484)	8,64 (.340)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)	12,30 (.484)	8,64 (.340)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	12,30 (.484)	8,64 (.340)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	12,30 (.484)	8,64 (.340)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	15,09 (.594)	10,04 (.395)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

90° PC Tail with Plastic Bracket

Receptacle

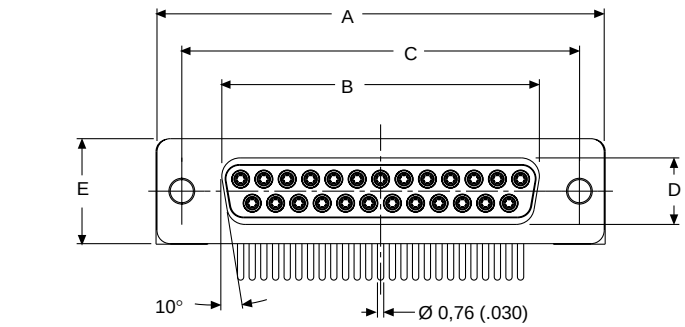
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 272.
For panel cutouts, see page 221.

Part Numbers

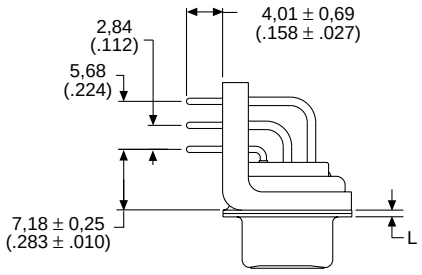
Shell Size	Layout	Part Number
DE	9	DEM9SLNM*
DA	15	DAM15SLNM*
DB	25	DBM25SLNM*
DC	37	DCM37SLNM*
DD	50	DDM50SLNM*

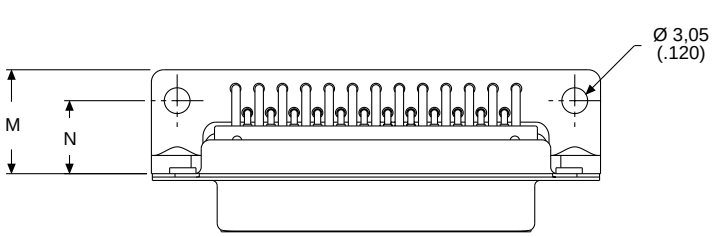
Notes: * For Residual Magnetism Levels of 200 gamma, add B. Example: DEM9SLNMB
For shells with 50 microinches gold, add K52. Example: DEM9SLNMK52

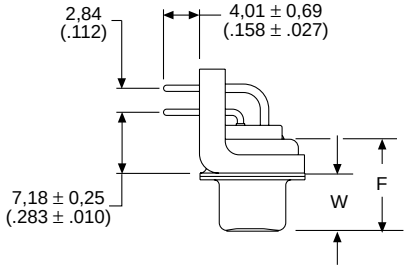
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)	M ±0,25 (.010)	N ±0,13 (.005)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,30 (.484)	8,64 (.340)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,30 (.484)	8,64 (.340)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,30 (.484)	8,64 (.340)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,30 (.484)	8,64 (.340)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)	15,09 (.594)	10,04 (.395)

90° Solder Contact PCB Connector — European Footprint

Plug

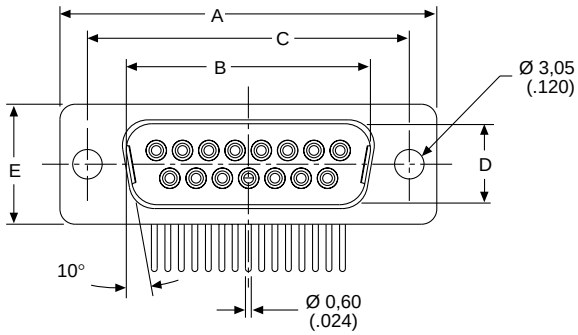
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

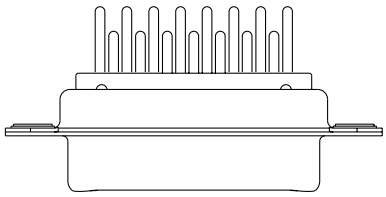
Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount
DE	9	DEM9PNM*1AON	DEMY9PNM*1AON
DA	15	DAM15PNM*1AON	DAMY15PNM*1AON
DB	25	DBM25PNM*1AON	DBMY25PNM*1AON
DC	37	DCM37PNM*1AON	DCMY37PNM*1AON
DD	50	DDM50PNM*1AON	DDMY50PNM*1AON

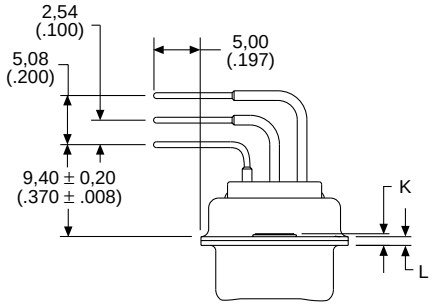
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM9PNMB1AON
For shells with 50 microinches gold, add K52. DEM9PNM1AONK52

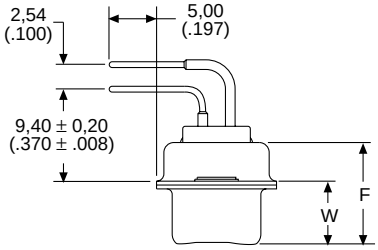
Engaging Face





DD Configuration





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

90° Solder Contact PCB Connector — European Footprint

Receptacle

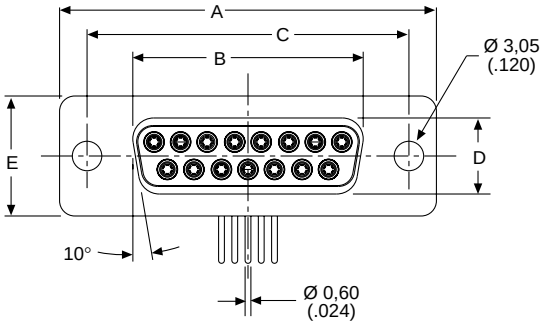
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

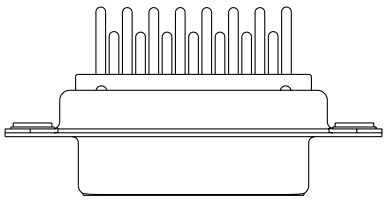
Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount
DE	9	DEM9SNM*1AON	DEMY9SNM*1AON
DA	15	DAM15SNM*1AON	DAMY15SNM*1AON
DB	25	DBM25SNM*1AON	DBMY25SNM*1AON
DC	37	DCM37SNM*1AON	DCMY37SNM*1AON
DD	50	DDM50SNM*1AON	DDMY50SNM*1AON

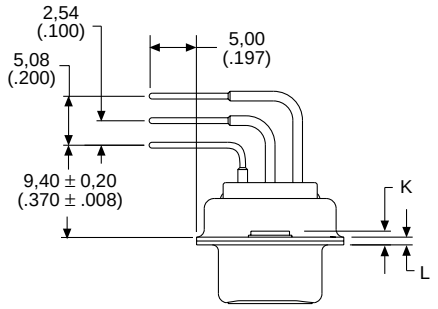
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM9SNMB1AON
For shells with 50 microinches gold, add K52. Example: DEM9SNM1AONK52

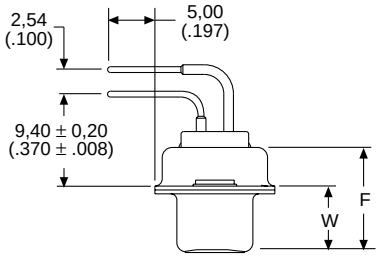
Engaging Face





DD Configuration





Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

Plug

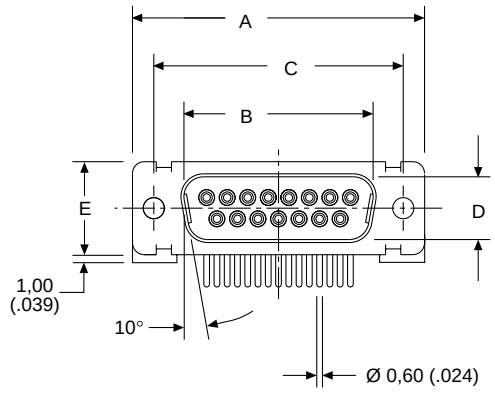
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

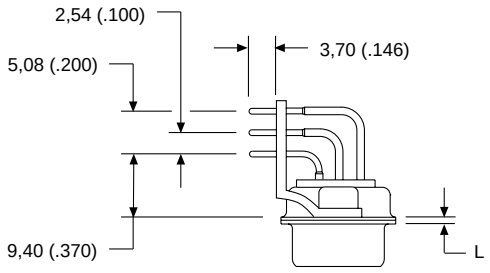
Shell Size	Layout	Metal Bracket Threaded Insert #4-40	Metal Bracket Threaded Insert M3
DE	9	DEM9PNM*1A7N	DEM9PNM*1A9N
DA	15	DAM15PNM*1A7N	DAM15PNM*1A9N
DB	25	DBM25PNM*1A7N	DBM25PNM*1A9N
DC	37	DCM37PNM*1A7N	DCM37PNM*1A9N
DD	50	DDM50PNM*1A7N	DDM50PNM*1A9N

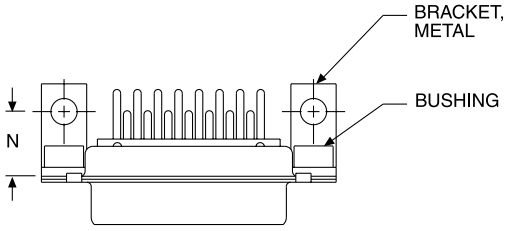
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM9PNMB1A7N
For shells with 50 microinches gold, add K52. Example: DEM9PNM1A7NK52

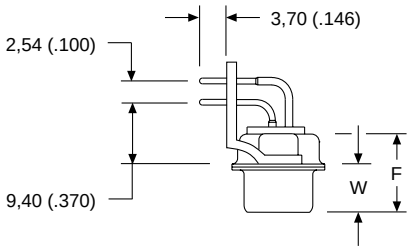
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0.38 (.015)	F ±0.25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)	N ±0,15 (.006)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)	10,7 (.42)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)	10,7 (.42)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	10,7 (.42)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	10,7 (.42)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)	12,1 (.48)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

Receptacle

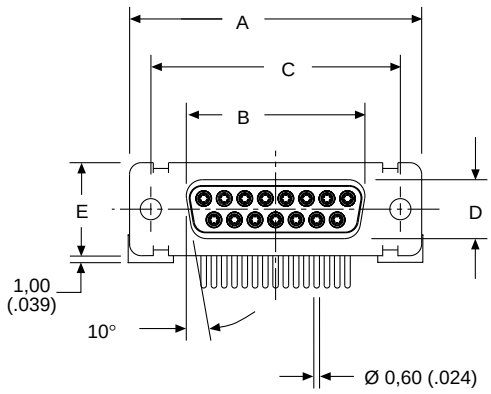
Reader's Resource
For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.

Part Numbers

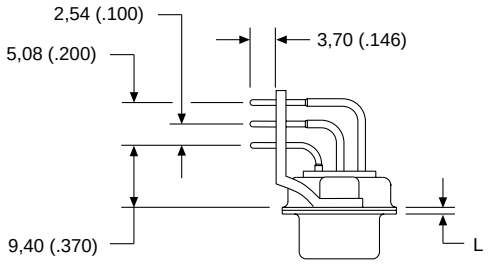
Shell Size	Layout	Metal Bracket Threaded Insert #4-40	Metal Bracket Threaded Insert M3
DE	9	DEM9SNM*1A7N	DEM9SNM*1A9N
DA	15	DAM15SNM*1A7N	DAM15SNM*1A9N
DB	25	DBM25SNM*1A7N	DBM25SNM*1A9N
DC	37	DCM37SNM*1A7N	DCM37SNM*1A9N
DD	50	DDM50SNM*1A7N	DDM50SNM*1A9N

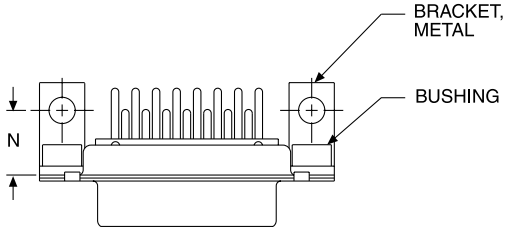
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM9SNMB1A7N
For shells with 50 microinches gold, add K52. Example: DEM9SNM1A7NK52

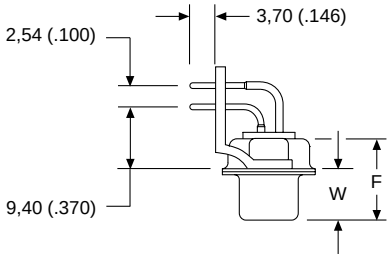
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)	N ±0,15 (.006)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	10,7 (.42)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	10,7 (.42)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	10,7 (.42)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)	10,7 (.42)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)	12,1 (.48)

♦ Connector footprint measured from the front shell.
♦♦ Connector footprint measured from the rear shell.

Solder Cup

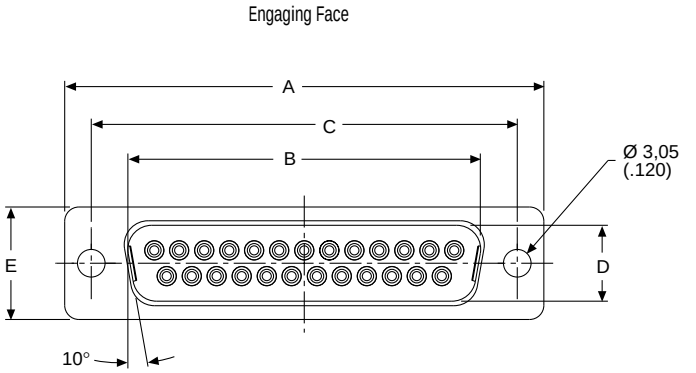
Plug

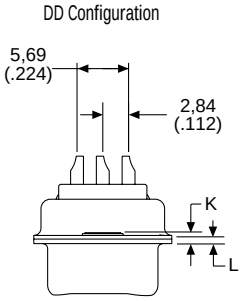
Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

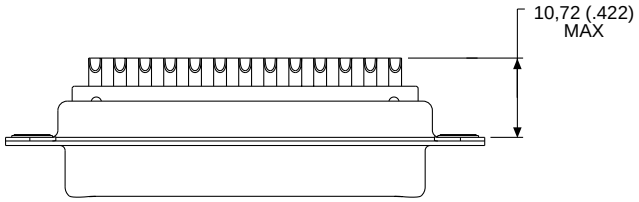
Part Numbers

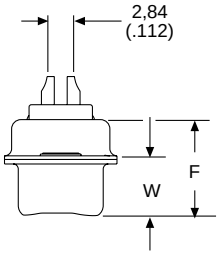
Shell Size	Layout	Through Hole	Dual Float Mount
DE	9	DEM9PNM*	DEMY9PNM*
DA	15	DAM15PNM *	DAMY15PNM *
DB	25	DBM25PNM *	DBMY25PNM *
DC	37	DCM37PNM *	DCMY37PNM *
DD	50	DDM50PNM *	DDMY50PNM *

Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM9PNMB
For shells with 50 microinches gold, add K52. Example: DEM9PNMK52









Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0.76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

Solder Cup

Receptacle

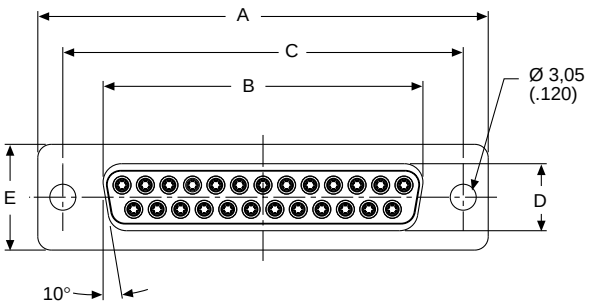
Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

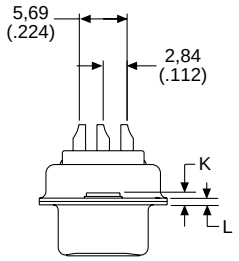
Shell Size	Layout	Through Hole	Dual Float Mount
DE	9	DEM9SNM*	DEMY9SNM*
DA	15	DAM15SNM*	DAMY15SNM*
DB	25	DBM25SNM*	DBMY25SNM*
DC	37	DCM37SNM*	DCMY37SNM*
DD	50	DDM50SNM*	DDMY50SNM*

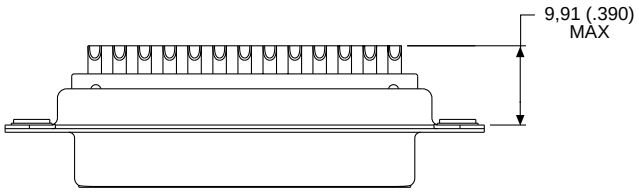
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM9SNMB
For shells with 50 microinches gold, add K52. Example: DEM9SNMK52

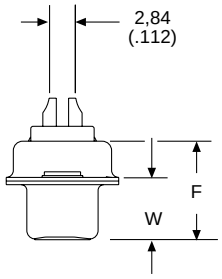
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

D*MA Standard Density Crimp Contact Cable Connector

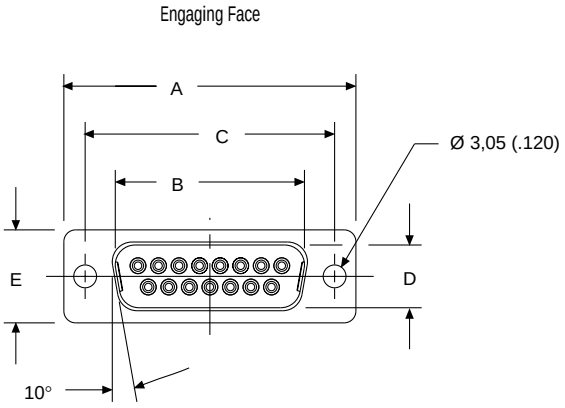
Plug

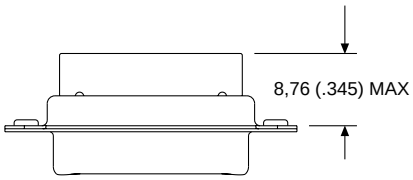
Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

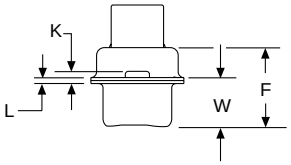
Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount
DE	9	DEMA9PNM*	DEMAY9PNM*
DA	15	DAMA15PNM*	DAMAY15PNM*
DB	25	DBMA25PNM*	DBMAY25PNM*
DC	37	DCMA37PNM*	DCMAY37PNM*
DD	50	DDMA50PNM*	DDMAY50PNM*

Notes: *For Residual Magnetism Level of 200 gamma, add B. Example: DEMA9PNMB
For shells with 50 microinches gold, add K52. Example: DEMA9PNMK52
For connectors without contacts, add F0. Example: DEMA9PNMF0 (F0 not marked on the connector)
For crimp (Size 20) contacts and tooling, see pages 187 & 275







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

D*MA Standard Density Crimp Contact Cable Connector

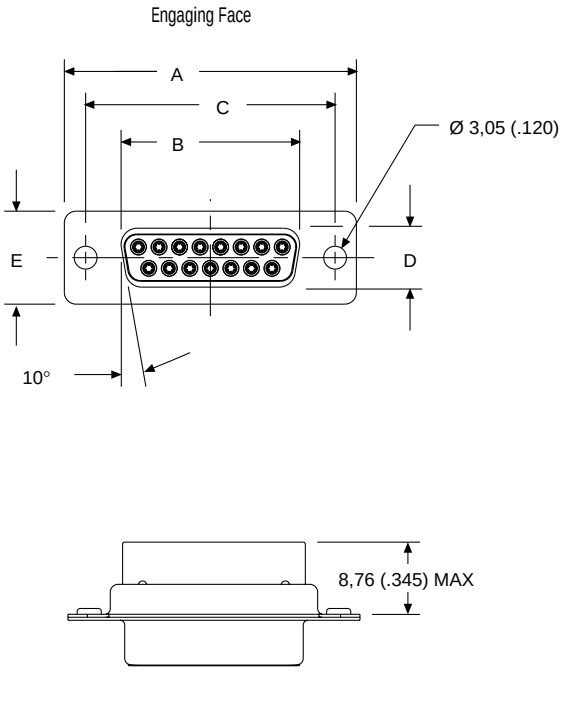
Receptacle

Reader's Resource
For contact cavity arrangements, see page 224.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount
DE	9	DEMA9SNM*	DEMAY9SNM*
DA	15	DAMA15SNM*	DAMAY15SNM*
DB	25	DBMA25SNM*	DBMAY25SNM*
DC	37	DCMA37SNM*	DCMAY37SNM*
DD	50	DDMA50SNM*	DDMAY50SNM*

Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEMA9SNMB
For shells with 50 microinches gold, add K52. Example: DEMA9SNMK52
For connectors without contacts, add F0. Example: DEMA9SNMF0 (F0 not marked on the connector)
For crimp (Size 20) contacts and tooling, see pages 187 & 275.



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

D*MA High Density Crimp Contact Cable Connector

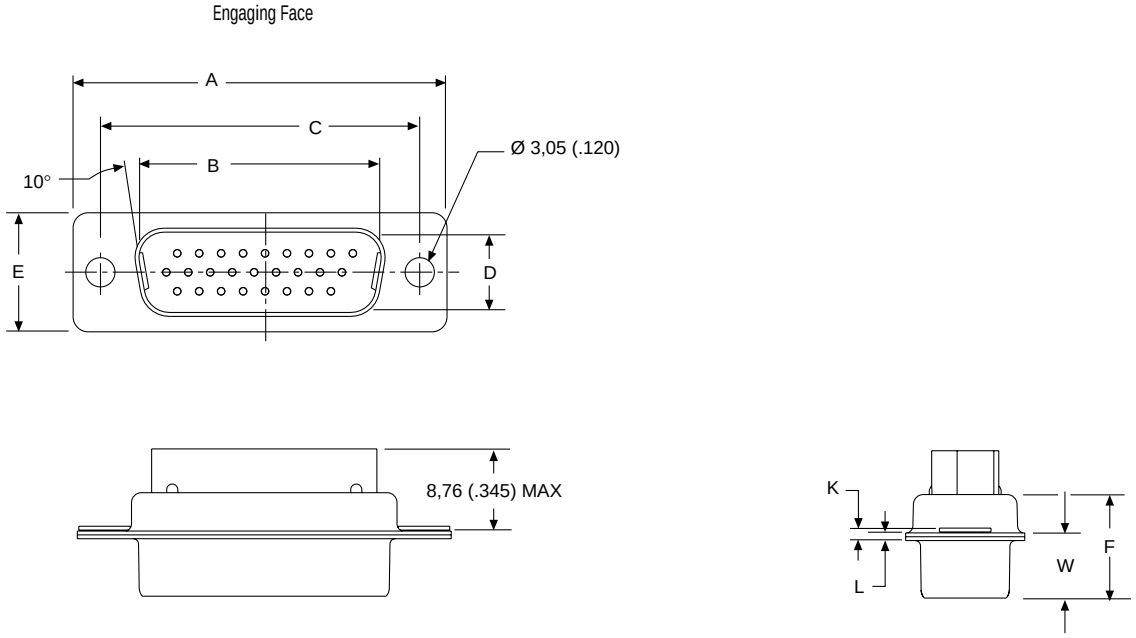
Plug

Reader's Resource
For contact cavity arrangements, see page 186.
For panel cutouts, see page 221.
For hardware views (Standard) see page 226.

Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount
DE	15	DEMA15PNM*	DEMAY15PNM*
DA	26	DAMA26PNM*	DAMAY26PNM*
DB	44	DBMA44PNM*	DBMAY44PNM*
DC	62	DCMA62PNM*	DCMAY62PNM*
DD	78	DDMA78PNM*	DDMAY78PNM*

Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEMA15PNMB
For shells with 50 microinches gold, add K52. Example: DEMA15PNMK52
For connectors without contacts, add F0. Example: DEMA15PNMF0 (F0 not marked on connector)
For crimp (Size 22) contacts and tooling, see pages 187 & 275



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

Dimensions are shown in mm (inch)
Dimensions subject to change

D*MA High Density Crimp Contact Cable Connector

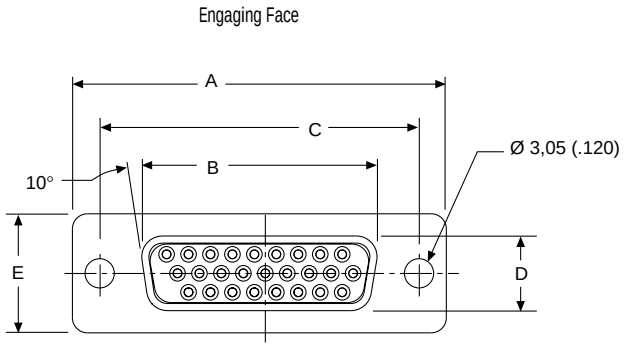
Receptacle

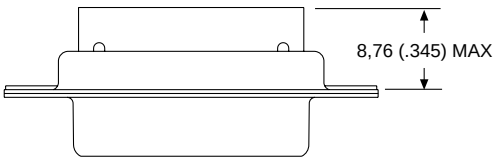
Reader's Resource
For contact cavity arrangements, see page 186.
For panel cutouts, see page 221.
For hardware views (Standard) see page 226.

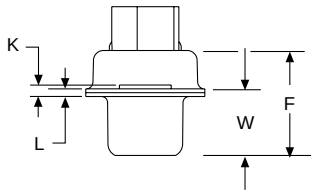
Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount
DE	15	DEMA15SNM*	DEMAY15SNM*
DA	26	DAMA26SNM*	DAMAY26SNM*
DB	44	DBMA44SNM*	DBMAY44SNM*
DC	62	DCMA62SNM*	DCMAY62SNM*
DD	78	DDMA78SNM*	DDMAY78SNM*

Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEMA15SNMB
For shells with 50 microinches gold, add K52. Example: DEMA15SNMK52
For connectors without contacts, add F0. Example: DEMA15SNMF0 (F0 not marked on the connector)
For crimp (Size 22) contacts and tooling, see pages 187 & 275





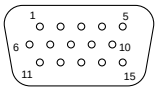


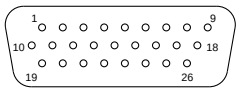
Dimensions

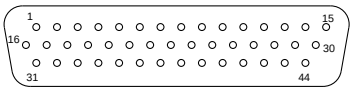
Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

Plug Contact Cavity Arrangements — High Density

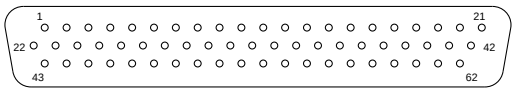
Face View Pin Insert

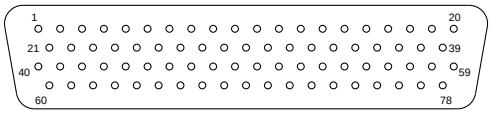






Shell Size	E	A	B
Contact Arrangement	15	26	44
Contact Size	#22	#22	#22

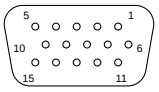


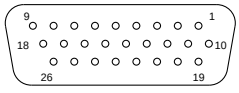


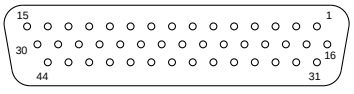
Shell Size	C	D
Contact Arrangement	62	78
Contact Size	#22	#22

Receptacle Contact Cavity Arrangements — High Density

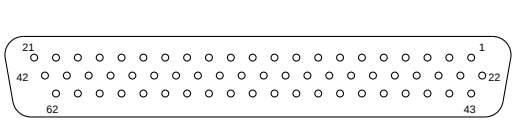
Face View Socket Insert

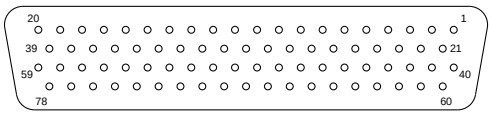






Shell Size	E	A	B
Contact Arrangement	15	26	44
Contact Size	#22	#22	#22





Shell Size	C	D
Contact Arrangement	62	78
Contact Size	#22	#22

ITT Cannon

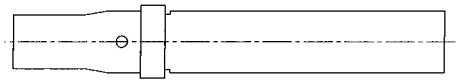
Dimensions are shown in mm (inch)
Dimensions subject to change

Crimp Contacts

Pin

Contact Size	Wire Size AWG	Pin Part Number
20	20, 22, 24	030-8882-002
20-18	1 #18, 20 or 2 #20	330-8782-001
20-26	26, 28, 30	030-8848-020
22D	22, 24, 26, 28	330-8944-001

Socket



Contact Size	Wire Size AWG	Socket Part Number
20	20, 22, 24	031-8944-000
20-18	1 #18, 20 or 2 #20	031-8843-001
20-26	26, 28, 30	031-8787-020
22D	22, 24, 26, 28	031-8902-001

Insertion/Extraction Tools

CIET-20HD

Contact Size	Wire Size AWG	Plastic Insertion/Extraction		Plastic Extraction	
		Part Number	Description	Part Number	Description
20	20, 22, 24	980-2000-426	CIET-20HD	323-7010-000	CET-20-11
2026	26, 28, 30	980-2000-426	CIET-20HD	323-7010-000	CET-20-11
2018	1 #18	—	—	274-5016-002	CET-20-15
	2 #22	—	—	274-5016-002	CET-20-15
22D	22, 24, 26, 28	274-7048-000	CIET-22D	—	—
High Power	12, 16	274-7003-000	CIET-12	—	—

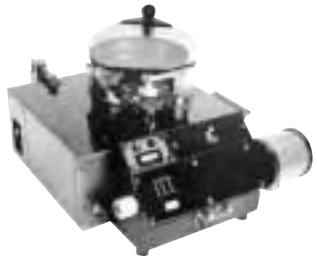
Hand Crimp Tools

M22520/2-01

Contact Size	Wire Size AWG	Crimp Tool		Locator	
		Part Number	Description	Part Number	Description
20	20, 22, 24	995-0001-584	M22520/2-01	995-0001-604	M22520/2-08
		995-0001-585	M22520/1-01	995-0001-244	TH25
2026	26, 28, 30	995-0001-584	M22520/2-01	995-0001-325	L3198-20HD
2018	1 #18 2 #22	995-0001-584	M22520/2-01	980-0005-722	K250
22D	22, 24, 26, 28	995-0001-584	M22520/2-01	995-0001-739	M22520/2-06

CBT-646 Vibra-Bowl Crimper

CBT-646



The CBT-646, Vibra-Bowl Crimper is a pneumatically powered, electronically controlled machine. It is designed to semi-automatically crimp closed barrel, machined contacts, as used in the aerospace and commercial industries. The machine will accommodate wire sizes 30 thru 12 AWG. The CBT-646 is actuated automatically upon insertion of a pre-stripped stranded or single conductor wire.

Machine Crimp Rate: 1300+ per hour
Power Requirements: Electrical = 115 VAC, 60 Hz, 5 A
Pneumatic = 85 psi, 2 cu. ft. per min.

Products: D*MA

Solder Cup

Plug

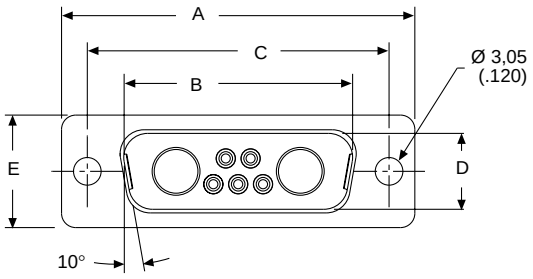
Reader's Resource
For contact cavity arrangements, see page 222.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

Part Numbers

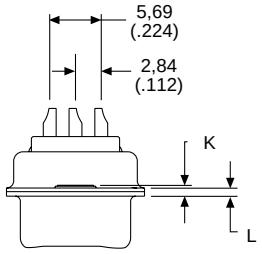
Shell Size	Layout	Through Hole	Dual Float Mount
DE	5W1	DEM5W1PNM*	DEMY5W1PNM*
DA	7W2	DAM7W2PNM*	DAMY7W2PNM*
DA	11W1	DAM11W1PNM*	DAMY11W1PNM*
DA	3W3	DAM3W3PNM*	DAMY3W3PNM*
DA	3WK3♣	DAM3WK3PNM*	DAMY3WK3PNM*
DB	5W5	DBMP5W5PNM*	DBMY5W5PNM*
DB	9W4	DBM9W4PNM*	DBMY9W4PNM*
DB	13W3	DBM13W3PNM*	DBMY13W3PNM*
DB	17W2	DBM17W2PNM*	DBMY17W2PNM*
DB	21W1	DBM21W1PNM*	DBMY21W1PNM*
DC	8W8	DCM8W8PNM*	DCMY8W8PNM*
DC	13W6	DCM13W6PNM*	DCMY13W6PNM*
DC	17W5	DCM17W5PNM*	DCMY17W5PNM*
DC	21WA4	DCM21WA4PNM*	DCMY21WA4PNM*
DC	25W3	DCM25W3PNM*	DCMY25W3PNM*
DC	27W2	DCM27W2PNM*	DCMY27W2PNM*
DD	24W7	DDM24W7PNM*	DDMY24W7PNM*
DD	36W4	DDM36W4PNM*	DDMY36W4PNM*
DD	43W2	DDM43W2PNM*	DDMY43W2PNM*
DD	47W1	DDM47W1PNM*	DDMY47W1PNM*

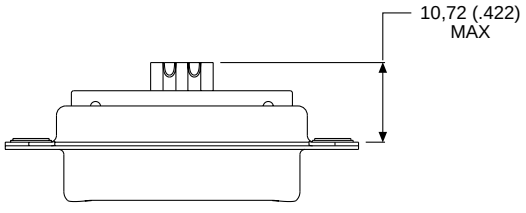
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM5W1PNMB
For shells with 50 microinches gold, add K52. Example: DEM5W1PNMK52
♣ Keyed

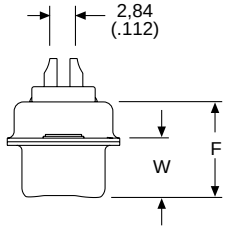
Engaging Face



DD Configuration







Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	K ±0,317 (.0125)	K ±0,25 (.010)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	1,206 (.0475)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	—	1,52 (.060)	0,99 (.039)

Dimensions are shown in mm (inch)
Dimensions subject to change

Solder Cup

Receptacle

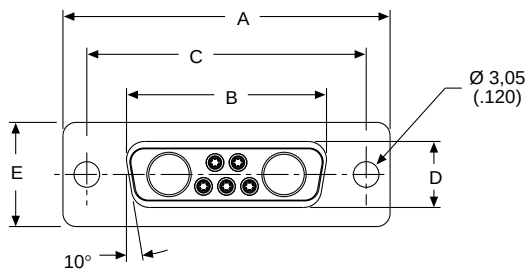
Reader's Resource
For contact cavity arrangements, see page 223.
For panel cutouts, see page 221.
For hardware views (Standard), see page 226.

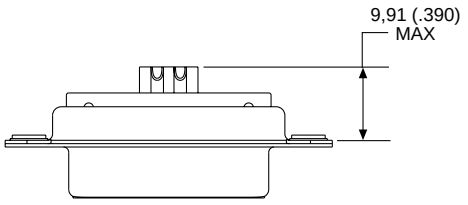
Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount
DE	5W1	DEM5W1SNM*	DEMY5W1SNM*
DA	7W2	DAM7W2SNM*	DAMY7W2SNM*
DA	11W1	DAM11W1SNM*	DAMY11W1SNM*
DA	3W3	DAM3W3SNM*	DAMY3W3SNM*
DA	3WK3♣	DAM3WK3SNM*	DAMY3WK3SNM*
DB	5W5	DBM5W5SNM*	DBMY5W5SNM*
DB	9W4	DBM9W4SNM*	DBMY9W4SNM*
DB	13W3	DBM13W3SNM*	DBMY13W3SNM*
DB	17W2	DBM17W2SNM*	DBMY17W2SNM*
DB	21W1	DBM21W1SNM*	DBMY21W1SNM*
DC	8W8	DCM8W8SNM*	DCMY8W8SNM*
DC	13W6	DCM13W6SNM*	DCMY13W6SNM*
DC	17W5	DCM17W5SNM*	DCMY17W5SNM*
DC	21WA4	DCM21WA4SNM*	DCMY21WA4SNM*
DC	25W3	DCM25W3SNM*	DCMY25W3SNM*
DC	27W2	DCM27W2SNM*	DCMY27W2SNM*
DD	24W7	DDM24W7SNM*	DDMY24W7SNM*
DD	36W4	DDM36W4SNM*	DDMY36W4SNM*
DD	43W2	DDM43W2SNM*	DDMY43W2SNM*
DD	47W1	DDM47W1SNM*	DDMY47W1SNM*

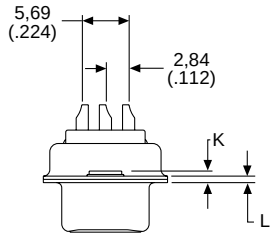
Notes: * For Residual Magnetism Level of 200 gamma, add B. Example: DEM5W1SNMB
For shells with 50 microinches gold, add K52. Example: DEM5W1SNMK52
♣ Keyed

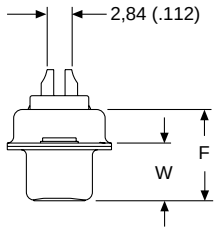
Engaging Face





DD Configuration



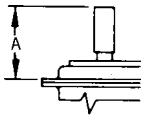


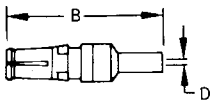
Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	K ±0,318 (.0125)	L ±0,25 (.010)
DE	30,81 (1.123)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	1,206 (.0475)	0,76 (.030)

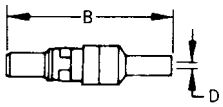
Cable (Size 8) Loose Contacts — Coaxial 50 Ohm — Straight

Straight Crimp Braid





Plug

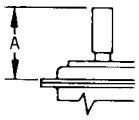


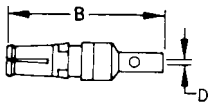
Receptacle

Note: Dimensions include outer sleeve

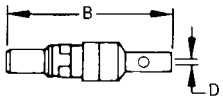
Description	Part Number 50µ. in. Gold Over Copper	A max.	B max.	D min.	RG Cable Number Old	New
Plug	DM53740-36	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Receptacle	DM53742-37	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U

Staight Solder Braid





Plug



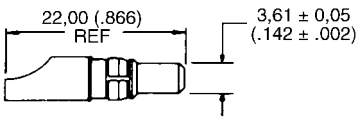
Receptacle

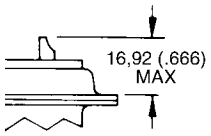
Description	Part Number 50µ. in. Gold Over Copper	A max.	B max.	D min.	RG Cable Number Old	New
Plug	DM53740-5147	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U
Receptacle	DM53742-5127	18,80 (.739)	24,00 (.945)	1,70 (.067)	187/U 188/U	179B/U 316B/U

Dimensions are shown in mm (inch)
Dimensions subject to change

Cable (Size 8) Loose Contacts — High Power — Solder

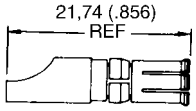
Plug

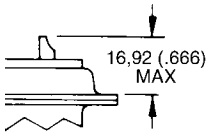




Part Number 50µ in. Gold Over Copper Non-Magnetic	Part Number 50µ in. Gold Over Copper Non-Magnetic (European)	Part Number 50µ in. Gold	Current Rating	Wire Size
DM53745-72	DM115224-1040A	DM53745-28	40 A	8 AWG
DM53745-77	DM115224-1020A	DM53745-27	20 A	12 AWG
DM53745-70	DM115224-1010A	DM53745-25	10 A	16 AWG

Receptacle

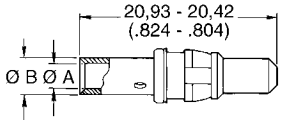




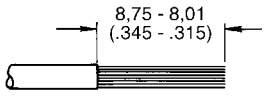
Part Number 50µ in. Gold Over Copper Non-Magnetic	Part Number 50µ in. Gold Over Copper Non-Magnetic (European)	Part Number 50µ in. Gold	Current Rating	Wire Size
DM53744-62	DM115224-2040A	DM53744-21	40 A	8 AWG
DM53744-64	DM115224-2020A	DM53744-25	20 A	12 AWG
DM53744-63	DM115224-2010A	DM53744-24	10 A	16 AWG

Cable (Size 8) Loose Contacts — High Power — Crimp

Plug

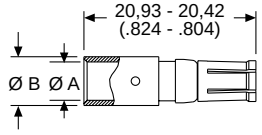


Recommended Wire Trim Length

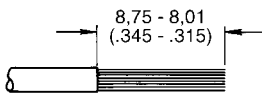


Part Number 50µ in. Gold Over Copper Non-Magnetic	Part Number 50µ in. Gold	ØA max.	ØB max.	Part Number 50µ in. Gold Over Copper Non-Magnetic (European)	ØA min.	ØB max.	Current Rating	Wire Size
DM115224-3040	DM130338-1	4,60 (.181)	5,84 (.230)	DM115224-3040A	4,20 (.165)	5,80 (.228)	40 A	8 AWG
DM115224-3020	DM130339-1	2,54 (.100)	5,54 (.218)	DM115224-3020A	3,25 (.128)	4,70 (.185)	20 A	12 AWG
DM115224-3010	DM130340-1	1,07 (.067)	2,59 (.102)	DM115224-3010A	2,50 (.098)	3,80 (.150)	10 A	16 AWG

Receptacle



Recommended Wire Trim Length



Part Number 50µ in. Gold Over Copper Non-Magnetic	Part Number 50µ in. Gold	ØA max.	ØB max.	Part Number 50µ in. Gold Over Copper Non-Magnetic (European)	ØA min.	ØB max.	Current Rating	Wire Size
DM115224-4040	DM13041-1	4,60 (.181)	5,84 (.230)	DM115224-4040A	4,20 (.165)	5,80 (.228)	40 A	8 AWG
DM115224-4020	DM13042-1	2,54 (.100)	5,54 (.218)	DM115224-4020A	3,25 (.128)	4,70 (.185)	20 A	12 AWG
DM115224-4010	DM13043-1	1,07 (.067)	2,59 (.102)	DM115224-4010A	2,50 (.098)	3,80 (.150)	10 A	16 AWG

Crimp High Power Tooling

M300-BT

	Crimp Tool/Locator			
Wire Size	Crimp Tool	Tool Setting Number Standard Contacts	Tool Setting Number European Contacts	Locator
8 AWG	M300-BT	6	6	TP968
10 AWG	M300-BT	5	2	TP968
12 AWG	M300-BT	1	1	TP968

Metal Backshell

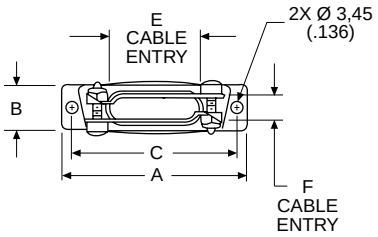
Metal Backshells provide strain relief.
Various profiles available for different cable routing requirements.

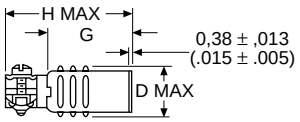
Materials and Finishes

Material:	Brass
Finish:	50μ in. Gold over Copper

Product Features
Qualified to MIL-Spec M85049

Deep Straight Clamp

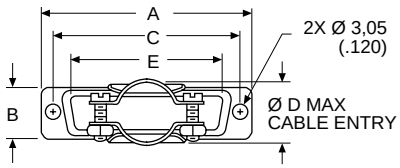


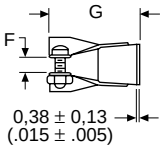


Kit consists of 1 shell, 2 cable clamps, 2 screws, 2 hex nuts

Shell Size	Layout	Part Number Non-Magnetic	A ±0,38 (.015)	B ±0,572 (.0225)	C ±0,13 (.005)	D max.	E ±0,38 (.015)	F ±0,38 (.015)	G ±0,38 (.015)	H max.
DE	9	DE24657-16	30,56 (1.203)	12,484 (.4915)	24,99 (.984)	14,68 (.578)	9,53 (.375)	9,53 (.375)	19,05 (.750)	31,75 (1.250)
DA	15	DA24658-15	38,89 (1.531)	12,484 (.4915)	33,32 (1.312)	14,68 (.578)	18,11 (.713)	7,93 (.312)	19,05 (.750)	31,75 (1.250)
DB	25	DB24659-15	52,78 (2.078)	12,484 (.4915)	47,04 (1.852)	14,68 (.578)	25,40 (1.000)	7,93 (.312)	25,40 (1.000)	39,70 (1.563)
DC	37	DC24660-16	69,04 (2.718)	12,484 (.4915)	63,50 (2.500)	14,68 (.578)	34,93 (1.375)	7,93 (.312)	25,40 (1.000)	39,70 (1.563)
DD	50	DD24661-13	66,68 (2.625)	15,253 (.6005)	61,11 (2.406)	17,45 (.687)	35,71 (1.406)	10,31 (.406)	28,57 (1.125)	42,88 (1.688)

Round Cable Clamp





Kit consists of 1 shell, 2 screws, 2 hex nuts

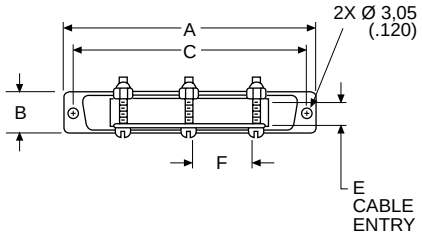
Shell Size	Layout	Part Number Non-Magnetic	A ±0,38 (.015)	B ±0,38 (.015)	C ±0,13 (.005)	ØD max.	E ±0,38 (.015)	F ±0,38 (.015)	G ±0,76 (.030)
DE	9	DE44994-2	30,68 (1.208)	12,70 (.500)	24,99 (.984)	10,31 (.406)	16,79 (.661)	3,18 (.125)	26,18 (1.031)
DA	15	DA20961-16	38,89 (1.531)	12,70 (.500)	33,33 (1.312	10,31 (.406)	24,99 (.984)	3,18 (.125)	26,18 (1.031)
DB	25	DB20962-18	52,78 (2.078)	12,70 (.500)	47,04 (1.852)	15,06 (.593)	38,48 (1.515)	4,75 (.187)	26,98 (1.062)
DC	37	DC20963-17	69,04 (2.718)	12,70 (.500)	63,50 (2.500)	18,23 (.718)	55,14 (2.171)	6,35 (.250)	26,98 (1.062)
DD	50	DD20964-19	66,68 (2.625)	15,47 (.609)	61,11 (2.406)	20,62 (.812)	53,16 (2.093)	7,92 (.312)	26,98 (1.062)

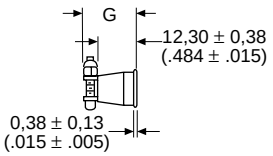
ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Short Straight Clamp

Kit consists of 1 shell,
2 or 3 screws, 2 or 3 hex nuts

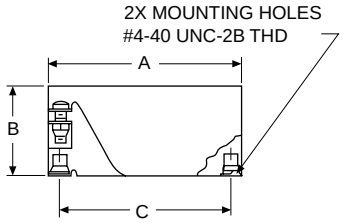


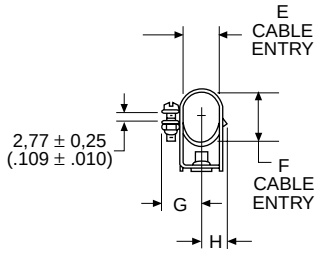


Shell Size	Layout	Part Number Non-Magnetic	No. of Cable Locking Screws Included	A ±0,38 (.015)	B ±0,38 (.015)	C ±0,13 (.005)	E ±0,38 (.015)	F ±0,38 (.015)	G ±0,89 (.035)
DA	15	DA19678-167	2	38,88 (1.531)	12,70 (.500)	33,33 (1.312)	7,51 (.296)	7,93 (.312)	16,36 (.644)
DB	25	DB19678-168	2	52,78 (2.078)	12,70 (.500)	47,04 (1.852)	7,51 (.296)	20,22 (.796)	16,36 (.644)
DC	37	DC19678-138	3	69,04 (2.718)	12,70 (.500)	63,50 (2.500)	7,51 (.296)	17,45 (.687)	16,36 (.644)
DD	50	DD19678-161	3	66,68 (2.625)	15,47 (.609)	61,11 (2.406)	9,91 (.390)	17,45 (.687)	17,63 (.694)

90° Entry

Kit consists of 1 shell,
1 cable clamp, 1 screw, 1 nut, 2 rivnuts
(assembled)



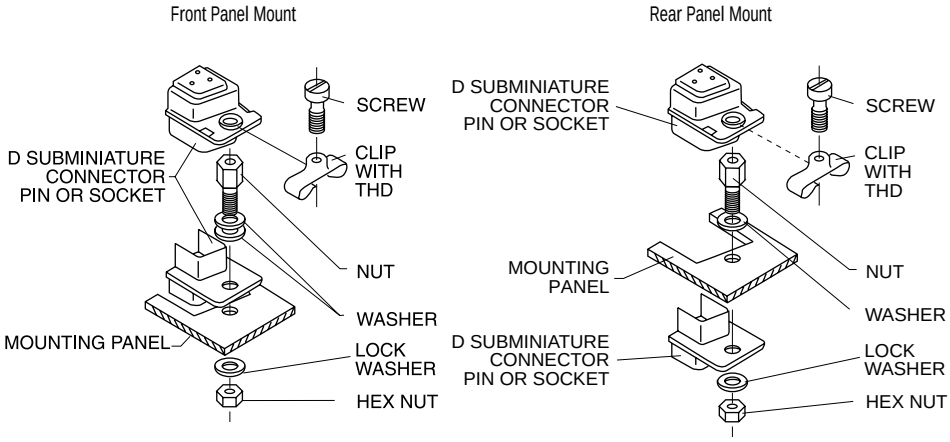


Shell Size	Layout	Part Number Non-Magnetic	A ±0,38 (.015)	B ±0,76 (.030)	C ±0,13 (.005)	E ±0,76 (.030)	F ±0,76 (.030)	G ±0,76 (.030)	H ±0,76 (.030)
DE	9	DE19977-47	30,56 (1.203)	18,24 (.718)	24,99 (.984)	11,10 (.437)	11,10 (.437)	11,89 (.468)	7,14 (.281)
DA	15	DA19977-40	38,89 (1.531)	18,24 (.718)	33,33 (1.312)	11,10 (.437)	11,10 (.437)	11,89 (.468)	7,14 (.281)
DB	25	DB19977-43	52,78 (2.078)	24,58 (.968)	47,04 (1.852)	11,10 (.437)	15,88 (.625)	11,89 (.468)	7,14 (.281)
DC	37	DC19977-45	69,04 (2.718)	30,15 (1.187)	63,50 (2.500)	11,10 (.437)	20,63 (.812)	11,89 (.468)	7,14 (.281)
DD	50	DD19977-44	66,68 (2.625)	31,75 (1.250)	61,11 (2.406)	14,28 (.562)	23,01 (.906)	13,49 (.531)	8,71 (.343)

Screw Lock Assemblies

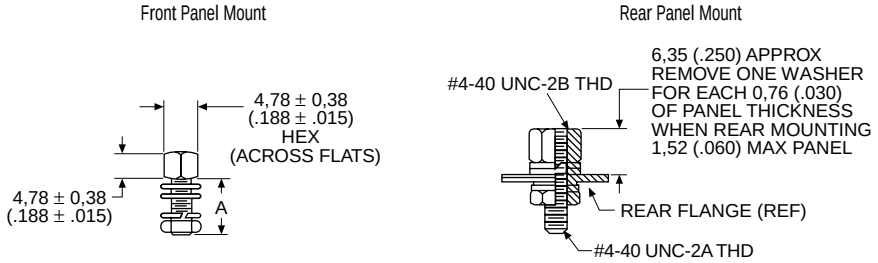
ITT Cannon offers the largest variety of locking and latching hardware.

Product Features
- Ensures positive mating
- Provides locking and latching for high vibration applications



Female Screw Lock

Kit consists of 1 nut, 3 washers, 1 lock washer, 1 hex nut
Order 2 per connector



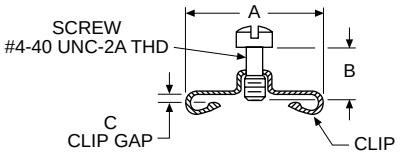
NOTE:
(1) A 6 inch/pound (female) and 4 inch/pound (male) maximum torque during assembly is recommended on steel screw lock assemblies.
(2) A third flat washer is supplied for front panel mounting of tab shell connectors.

Part Number Non-Magnetic Brass Gold Finish	A ±0,38 (.015)
D20418-52	7,92 (.312)
—	12,70 (.500)
D20418-70	14,50 (.571)
D20418-101	15,88 (.625)

Male Screw Lock

Kit consists of 1 screw and 1 clip
Order 2 per connector

Material:	Copper Alloy
Finish:	Gold over Copper



Shell Size	Part Number	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,13 (.005)
DE, DA, DB, DC	D20419-74	14,10 (.555)	6,35 (.250)	1,22 (.048)
DE, DA, DB, DC	D20419-48	14,10 (.555)	7,14 (.281)	1,70 (.067)
DE, DA, DB, DC	D20419-73	14,10 (.555)	7,14 (.281)	1,70 (.067)
DE, DA, DB, DC	D20419-84	14,10 (.555)	7,14 (.281)	2,34 (.092)
DD	D20420-67	16,66 (.656)	7,14 (.281)	1,22 (.048)
DD	D20420-49	16,66 (.656)	6,35 (.250)	1,70 (.067)
DD	D20420-63	16,66 (.656)	7,14 (.281)	1,22 (.048)
DD	D20420-88	16,66 (.656)	7,92 (.312)	2,34 (.092)

NASA/GSFC Cross Reference

NASA/GSFC Part Number	ITT Cannon Part Number	NASA/GSFC Part Number	ITT Cannon Part Number	NASA/GSFC Part Number	ITT Cannon Part Number
GO8P1	030-2042-002	311-P-10-12S-B-15	DBM13W3S-NMB-76	311-P-10-24P-B-12	DDM43W2P-NMB-77
GO8S1	031-1147-002	311-P-10-12S-C-15	DBM-13W3S-NMC-76	311-P-10-24S-C-12	DDM-43W2S-NMB-77
S-311-P-4/6GCP1	DM53740-17	311-P-10-13P-B-12	DBM17W2PNMB77	311-P-10-24S-C-15	DDM-43W2S-NMC-76
S-311-P-4/6GCP2	DM53740-15	311-P-10-13P-B-15	DBM-17W2P-NMB-76	311-P-10-25P-C-15	DDM47W1P-NMC-76
S-311-P-4/6GCP3	DM53740-16	311-P-10-13P-C-12	DBM17W2P-NMC-77	311-P-10-25S-C-15	DDM-47W1S-NMC-76
S-311-P-4/6GCP4	DM53740-18	311-P-10-13P-C-15	DBM-17W2P-NMC-76	311-P-10-3S-B-12	DBM25PNMB77
S-311-P-4/6GCRP1	DM53741-12	311-P-10-13S-B-12	DBM17W2SNMB77	311-P-10-3P-B-15	DBM25PNMB76
S-311-P-4/6GCRP2	DM53741-11	311-P-10-13S-C-12	DBM-17W2S-NMC-77	311-P-10-3P-C-12	DBM25PNMC77
S-311-P-4/6GCRP3	DM53741-10	311-P-10-13S-C-15	DBM-17W2S-NMC-76	311-P-10-3P-C-15	DBM25PNMC76
S-311-P-4/6GCRP4	DM53741-13	311-P-10-14P-B-12	DBM-21W1P-NMB-77	311-P-10-3S-B-12	DBM25PNMB77
S-311-P-4/6GCRS1	DM53743-18	311-P-10-14P-B-15	DBM-21W1P-NMB-76	311-P-10-3S-B-15	DBM-25S-NMB-76
S-311-P-4/6GCRS2	DM53743-16	311-P-10-14S-B-12	DBM-21W1S-NMB-77	311-P-10-3S-C-12	DBM-25S-NMC-77
S-311-P-4/6GCRS3	DM53743-17	311-P-10-14S-B-15	DBM-21W1S-NMB-76	311-P-10-3S-C-15	DBM-25S-NMC-76
S-311-P-4/6GCRS4	DM53743-19	311-P-10-14S-C-15	DBM-21W1S-NMC-76	311-P-10-4P-B-12	DCM37PNMB77
S-311-P-4/6GCS1	DM53742-18	311-P-10-15P-B-12	DCM-8W8P-NMB-77	311-P-10-4P-B-15	DCM37PNMB76
S-311-P-4/6GCS2	DM53742-16	311-P-10-15P-B-15	DCM8W8PNMB76	311-P-10-4P-C-12	DCM-37P-NMC-77
S-311-P-4/6GCS3	DM53742-17	311-P-10-15P-C-12	DCM-8W8P-NMC-77	311-P-10-4P-C-15	DCM37PNMC76
S-311-P-4/6GCS4	DM53742-19	311-P-10-15P-C-15	DCM8W8PNMC76	311-P-10-4S-B-12	DCM37SNMB77
S-311-P-4/6GHP6	DM51157-8	311-P-10-15S-B-12	DCM-8W8S-NMB-77	311-P-10-4S-B-15	DCM-37S-NMB-76
S-311-P-4/6GHRP6	DM51157-5005	311-P-10-15S-B-15	DCM8W8SNMB76	311-P-10-4S-C-12	DCM-37S-NMC-77
S-311-P-4/6GHRS6	DM51155-5005	311-P-10-15S-C-12	DCM-8W8S-NMC-77	311-P-10-4S-C-15	DCM-37S-NMC-76
S-311-P-4/6GHS6	DM51155-7	311-P-10-15S-C-15	DCM-8W8S-MNC-76	311-P-10-5P-B-12	DDM50PNMB77
311P409-1P-B-12	DEMA9PNMBK47FO	311-P-10-16P-B-12	DCM-13W6P-NMB-77	311-P-10-5P-B-15	DDM50PNMB76
311P409-1P-B-15	DEMAK9PNMBK47FO	311-P-10-16P-B-15	DCM-13W6P-NMB-76	311-P-10-5P-C-12	DDM-50P-NMC-77
311P409-1S-B-12	DEMA9SNMBK47FO	311-P-10-16P-C-12	DCM-13W6P-NMC-77	311-P-10-5P-C-15	DDM50PNMC76
311P409-1S-B-15	DEMAK9SNMBK47FO	311-P-10-16P-C-15	DCM-13W6P-NMC-76	311-P-10-5S-B-12	DDM50SNMB77
311P409-2P-B-12	DEMA15PNMBK47FO	311-P-10-16S-B-12	DCM-13W6S-NMB-77	311-P-10-5S-B-15	DDM50SNMB76
311P409-2P-B-15	DEMAK15PNMBK47FO	311-P-10-16S-C-12	DCM-13W6S-NMC-77	311-P-10-5S-C-12	DDM-50S-NMC-77
311P409-2S-B-12	DEMA15SNMBK47FO	311-P-10-16S-C-15	DCM13W6SNMC76	311-P-10-5S-C-15	DDM-50S-NMC-76
311P409-2S-B-15	DEMAK15SNMBK47FO	311-P-10-17P-B-12	DCM17W5PNMB77	311-P-10-6P-B-12	DEM-5W1P-NMB-77
311P409-3P-B-12	DEMA25PNMBK47FO	311-P-10-17P-B-15	DCM-17W5P-NMB-76	311-P-10-6P-B-15	DEM-5W1P-NMB-76
311P409-3P-B-15	DEMAK25PNMBK47FO	311-P-10-17P-C-12	DCM-17W5P-NMC-77	311-P-10-6P-C-15	DEM-5W1P-NMC-76
311P409-3S-B-12	DEMA25SNMBK47FO	311-P-10-17P-C-15	DCM-17W5P-NMC-76	311-P-10-6S-B-12	DEM-5W1S-NMB-77
311P409-3S-B-15	DEMAK25SNMBK47FO	311-P-10-17S-B-12	DCM-17W5S-NMB-77	311-P-10-6P-C-15	DEM-5W1S-NMC-76
311P409-4P-B-12	DEMA37PNMBK47FO	311-P-10-17S-B-15	DCM17W5S-NMB-76	311-P-10-7P-B-12	DAM3W3PNMC76
311P409-4P-B-15	DEMAK37PNMBK47FO	311-P-10-17S-C-12	DCM-17W5S-NMC-77	311-P-10-7P-B-15	DAM-3W3P-NMB-76
311P409-4S-B-12	DEMA37SNMBK47FO	311-P-10-17S-C-15	DCM-17W5S-NMC-76	311-P-10-7P-C-12	DAM3W3P-NMC-77
311P409-4S-B-15	DEMAK37SNMBK47FO	311-P-10-18P-B-12	DCM-21WA4P-NMB-77	311-P-10-7P-C-15	DAM-3W3P-NMC-76
311P409-5P-B-12	DEMA50PNMBK47FO	311-P-10-18P-B-12	DCM21WA4P-NMB-76	311-P-10-7S-B-12	DAM3W3SNMB77
311P409-5S-B-15	DEMAK50PNMBK47FO	311-P-10-18P-C-15	DCM-21WA4P-NMC-76	311-P-10-7S-B-15	DAM3W3SNMB76
311P409-5S-B-12	DEMA50SNMBK47FO	311-P-10-18S-B-12	DCM-21WA4S-NMB-77	311-P-10-7S-C-12	DAM3W3S-NMC-76
311P409-5S-B-15	DEMAK50PNMBK47FO	311-P-10-18S-B-15	DCM21WA4S-NMB-76	311-P-10-7S-C-15	DAM-3W3S-NMC-76
S-311-P-4/10G1OP1	330-5291-081-02	311-P-10-19P-B-12	DCM-21W4P-NMB-77	311-P-10-8P-B-12	DAM-7W2P-NMB-77
S-311-P-4/10G1OS1	031-1007-052-05	311-P-10-19S-B-12	DCM-21W4S-NMB-77	311-P-10-8P-B-15	DAM-7W2P-NMB-76
311-P-10-B-1S-B-15	DEMB9S-NMB-76	311-P-10-19S-C-15	DCM21W4S-NMC-76	311-P-10-8P-C-15	DAM-7W2P-NMC-76
311-P-10-B-4S-B-15	DCMB37S-NMB-76	311-P-10-2P-B-12	DAM15PNMB77	311-P-10-8S-B-12	DAM-7W2S-NMB-77
311-P-10-1P-B-12	DEMPPNMB77	311-P-10-2P-B-15	DAM15PNMB76	311-P-10-8P-C-12	DAM7W2S-NMC-77
311-P-10-1P-B-15	DEM-9P-NMB-76	311-P-10-2P-C-12	DAM15PNMC77	311-P-10-8P-C-15	DAM-7W2S-NMC-76
311-P-10-1P-C-12	DEM9PNMC77	311-P-10-2P-C-15	DAM15PNMC76	311-P-10-9P-B-12	DAM-11W1P-NMB-77
311-P-10-1P-C-15	DEM9PNMC76	311-P-10-2S-B-12	DAM15SNMB77	311-P-10-9P-B-15	DAM-11W1P-NMB-76
311-P-10-1S-B-12	DEM9SNMB77	311-P-10-2S-B-15	DAM-15S-NMB-76	311-P-10-9P-C-12	DAM-11W1P-NMC-77
311-P-10-1S-B-15	DEM-9S-NMB-76	311-P-10-2S-C-15	DAM-15S-NMC-76	311-P-10-9P-C-15	DAM-11W1P-NMC-76
311-P-10-1S-C-12	DEM-9S-NMC-77	311-P-10-2S-C-15	DAM-15S-NMC-76	311-P-10-9S-B-12	DAM-11W1S-NMB-77
311-P-10-1S-C-15	DEM9SNMC76	311-P-10-20P-B-12	DCM-25W3P-NMB-77	311-P-10-9S-B-15	DAM-11W1S-NMB-76
311-P-10-10P-B-12	DBM5W5PNMB77	311-P-10-20P-C-15	DCM25W3P-NMB-76	311-P-10-9S-C-12	DAM-11W1S-NMC-77
311-P-10-10P-B-15	DBM-5W5P-NMB-76	311-P-10-20S-B-12	DCM-25W36-NMB-77	311-P-10-9S-C-15	DAM-11W1S-NMC-76
311-P-10-10P-C-12	DBM-5W5P-NMC-77	311-P-10-20S-C-12	DCM-25W3S-NMC-77	311-P-10B-1S-B-12	DEMB9SNMB77
311-P-10-10P-C-15	DBM-5W5P-NMC-76	311-P-10-20S-C-15	DCM-25W3S-NMC-76	311-P-10B-1S-C-12	DEMB-9S-NMC-77
311-P-10-10S-B-12	DBM-5W5S-NMB-77	311-P-10-21P-C-15	DCM27W2P-NMC-76	311-P-10B-1S-C-15	DEMB9S-NMC-76
311-P-10-10S-B-15	DBM-5W5S-NMB-76	311-P-10-21S-C-15	DCM-27W2S-NMC-76	311-P-10B-13S-B-15	DBMB-17W2S-NMB-76
311-P-10-10S-C-12	DBM-5W5S-NMC-77	311-P-10-22P-B-12	DDM-24W7P-NMB-77	311-P-10B-17S-B-15	DCMB-17W5S-NMB-76
311-P-10-10S-C-15	DBM-5W5S-NMC-76	311-P-10-22P-B-15	DDM24W7PNMB76	311-P-10B-2S-B-12	DAMB15SNMB77
311-P-10-11P-B-12	DBM-9W4P-NMB-77	311-P-10-22P-C-15	DDM-24W7P-NMC-76	311-P-10B-2S-C-12	DAMB-15S-NMC-77
311-P-10-11P-C-15	DBM-9W4P-NMC-76	311-P-10-22S-B-12	DDM24W7SNMB77	311-P-10B-2S-C-15	DAMB15SNMC76
311-P-10-11S-B-12	DBM-9W4S-NMB-77	311-P-10-22S-B-15	DDM-24W7S-NMB-76	311-P-10B-22S-B-15	DDMB-247S-NMB-76
311-P-10-11S-C-15	DBM-9W4S-NMC-76	311-P-10-22S-C-15	DDM-24W7S-NMC-76	311-P-10B-3S-B-12	DBMB-25S-NMB-77
311-P-10-12P-B-12	DBM13W3P-NMB-77	311-P-10-23P-B-12	DDM-36W4P-NMB-77	311-P-10B-3S-B-15	DBMB-25S-NMB-76
311-P-10-12P-B-15	DBM-13W3P-NMB-76	311-P-10-23S-B-12	DDM-36W4S-NMB-77	311-P-10B-3S-C-12	DBMB-25S-NMC-77
311-P-10-12P-C-15	DBM-13W3P-NMC-76	311-P-10-23S-B-15	DDM36W4SNMB76	311-P-10B-3S-C-15	DBMB25SNMC76
311-P-10-12S-B-12	DBM-13W3S-NMB-77	311-P-10-23S-C-15	DDM-36W4S-NMC-76	311-P-10B-4S-B-12	DCMB-37S-NMB-77

NASA/GSFC Cross Reference

NASA/GSFC Part Number	ITT Cannon Part Number	NASA/GSFC Part Number	ITT Cannon Part Number	NASA/GSFC Part Number	ITT Cannon Part Number
311-P-10B-4S-C-12	DCMB-37S-NMC-77	311-P-10B-5S-C-12	DDMB-50S-NMC-77	311-P-10B-8S-B-15	DAMB-7W2S-NMB-76
311-P-10B-4S-C-15	DCMB37S-NMC-76	311-P-10B-5S-C-15	DDMB50S-NMC-76	311-P-10B-9S-B-12	DAMB-11W1S-NMB-77
311-P-10B-5S-B-12	DDMB-50S-NMB-77	311-P-10B-6S-B-15	DEMB-5W1S-NMB-76		
311-P-10B-5S-B-15	DDMB50S-NMB-76	311-P-10B-8S-B-12	DAMB-7W2S-NMB-77		

ESA/SCC Cross Reference

ESA–SCC Part Number	ITT Cannon Part Number	ESA–SCC Part Number	ITT Cannon Part Number	ESA–SCC Part Number	ITT Cannon Part Number
340100101B DEM5W1SNMB	DEM5W1SNMBK52	340100101B DBM17W2POL3NMB	DBM17W2POL3NMBK52	340100101B DAM7W2P1A7NNMB	DAM7W2P1A7NNMBK52
340100101B DAM3W3SNMB	DAM3W3SNMBK52	340100101B DBM21W1POL3NMB	DBM21W1POL3NMBK52	340100101B DAM11W1P1A7NNMB	DAM11W1P1A7NNMBK52
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340100101B DCM8W8SNMB	DCM8W8SNMBK52	340100101B DDM43W2POL3NMB	DDM43W2POL3NMBK52	340100101B DCM25W3P1A7NNMB	DCM25W3P1A7NNMBK52
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340100101B DCM21WA4PNMB	DCM21WA4PNMBK52	340100101B DBM13W3P1A0NNMB	DBM13W3P1A0NNMBK52	340100101B DEM5W1P1A9NNMB	DEM5W1P1A9NNMBK52
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340100101B DDM36W4PNMB	DDM36W4PNMBK52	340100101B DCM17W5P1A0NNMB	DCM17W5P1A0NNMBK52	340100101B DBM13W3P1A9NNMB	DBM13W3P1A9NNMBK52
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340100101B DEM5W1SOL3NMB	DEM5W1SOL3NMBK52	340100101B DCM27W2P1A0NNMB	DCM27W2P1A0NNMBK52	340100101B DCM13W6P1A9NNMB	DCM13W6P1A9NNMBK52
340100101B DAM7W2SOL3NMB	DAM7W2SOL3NMBK52	340100101B DDM24W7P1A0NNMB	DDM24W7P1A0NNMBK52	340100101B DCM17W5P1A9NNMB	DCM17W5P1A9NNMBK52
340100101B DAM11W1SOL3NMB	DAM11W1SOL3NMBK52	340100101B DDM36W4P1A0NNMB	DDM36W4P1A0NNMBK52	340100101B DCM21WA4P1A9NNMB	DCM21WA4P1A9NNMBK52
340100101B DBM9W4SOL3NMB	DBM9W4SOL3NMBK52	340100101B DDM43W2P1A0NNMB	DDM43W2P1A0NNMBK52	340100101B DCM25W3P1A9NNMB	DCM25W3P1A9NNMBK52
340100101B DBM13W3SOL3NMB	DBM13W3SOL3NMBK52	340100101B DDM47W1P1A0NNMB	DDM47W1P1A0NNMBK52	340100101B DCM27W2P1A9NNMB	DCM27W2P1A9NNMBK52
340100101B DBM17W2SOL3NMB	DBM17W2SOL3NMBK52	340100101B DEM5W1S1A7NNMB	DEM5W1S1A7NNMBK52	340100101B DDM24W7P1A9NNMB	DDM24W7P1A9NNMBK52
340100101B DBM21W1SOL3NMB	DBM21W1SOL3NMBK52	340100101B DAM7W2S1A7NNMB	DAM7W2S1A7NNMBK52	340100101B DDM36W4P1A9NNMB	DDM36W4P1A9NNMBK52
340100101B DCM13W6SOL3NMB	DCM13W6SOL3NMBK52	340100101B DAM11W1S1A7NNMB	DAM11W1S1A7NNMBK52	340100101B DDM43W2P1A9NNMB	DDM43W2P1A9NNMBK52
340100101B DCM17W5SOL3NMB	DCM17W5SOL3NMBK52	340100101B DBM9W4S1A7NNMB	DBM9W4S1A7NNMBK52	340100101B DDM47W1P1A9NNMB	DDM47W1P1A9NNMBK52
340100101B DCM21WA4SOL3NMB	DCM21WA4SOL3NMBK52	340100101B DBM13W3S1A7NNMB	DBM13W3S1A7NNMBK52	340100101B DEM5W1SF179ANMB	DEM5W1SF179ANMBK52
340100101B DCM25W3SOL3NMB	DCM25W3SOL3NMBK52	340100101B DBM17W2S1A7NNMB	DBM17W2S1A7NNMBK52	340100101B DAM7W2SF179ANMB	DAM7W2SF179ANMBK52
340100101B DCM27W2OL3NMB	DCM27W2OL3NMBK52	340100101B DBM21W1S1A7NNMB	DBM21W1S1A7NNMBK52	340100101B DAM11W1SF179ANMB	DAM11W1SF179ANMBK52
340100101B DDM24W7SOL3NMB	DDM24W7SOL3NMBK52	340100101B DCM13W6S1A7NNMB	DCM13W6S1A7NNMBK52	340100101B DBM9W4SF179ANMB	DBM9W4SF179ANMBK52
340100101B DDM36W4SOL3NMB	DDM36W4SOL3NMBK52	340100101B DCM17W5S1A7NNMB	DCM17W5S1A7NNMBK52	340100101B DBM13W3SF179ANMB	DBM13W3SF179ANMBK52
340100101B DDM43W2SOL3NMB	DDM43W2SOL3NMBK52	340100101B DCM21WA4S1A7NNMB	DCM21WA4S1A7NNMBK52	340100101B DBM17W2SF179ANMB	DBM17W2SF179ANMBK52
340100101B DDM47W1SOL3NMB	DDM47W1SOL3NMBK52	340100101B DCM25W3S1A7NNMB	DCM25W3S1A7NNMBK52	340100101B DBM21W1SF179ANMB	DBM21W1SF179ANMBK52
340100101B DEM5W1POL3NMB	DEM5W1POL3NMBK52	340100101B DCM27W2S1A7NNMB	DCM27W2S1A7NNMBK52	340100101B DCM13W6SF179ANMB	DCM13W6SF179ANMBK52
340100101B DAM3W3POL3NMB	DAM3W3POL3NMBK52	340100101B DDM24W7S1A7NNMB	DDM24W7S1A7NNMBK52	340100101B DCM17W5SF179ANMB	DCM17W5SF179ANMBK52
340100101B DAM7W2POL3NMB	DAM7W2POL3NMBK52	340100101B DDM36W4S1A7NNMB	DDM36W4S1A7NNMBK52	340100101B DCM21WA4SF179ANMB	DCM21WA4SF179ANMBK52
340100101B DAM11W1POL3NMB	DAM11W1POL3NMBK52	340100101B DDM43W2S1A7NNMB	DDM43W2S1A7NNMBK52	340100101B DCM25W3SF179ANMB	DCM25W3SF179ANMBK52
340100101B DBM9W4POL3NMB	DBM9W4POL3NMBK52	340100101B DDM47W1S1A7NNMB	DDM47W1S1A7NNMBK52	340100101B DCM27W2SF179ANMB	DCM27W2SF179ANMBK52
340100101B DBM13W3POL3NMB	DBM13W3POL3NMBK52	340100101B DEM5W1P1A7NNMB	DEM5W1P1A7NNMBK52	340100101B DDM24W7SF179ANMB	DDM24W7SF179ANMBK52

Dimensions are shown in mm (inch)
Dimensions subject to change

ESA/SCC Cross Reference

ESA–SCC Part Number	ITT Cannon Part Number	ESA–SCC Part Number	ITT Cannon Part Number	ESA–SCC Part Number	ITT Cannon Part Number
340100101B DDM36W4SF179ANMB	DDM36W4SF179ANMBK52	340100101B DAM15S1A9NNMB	DAM15S1A9NNMBK52	340100415B	DM115740-13
340100101B DDM43W2SF179ANMB	DDM43W2SF179ANMBK52	340100101B DBM25S1A9NNMB	DBM25S1A9NNMBK52	340100419B	DM115740-12
340100101B DDM47W1SF179ANMB	DDM47W1SF179ANMBK52	340100101B DCM37S1A9NNMB	DCM37S1A9NNMBK52	340100412B	DM115742-15
340100101B DEM5W1PF179ANMB	DEM5W1PF179ANMBK52	340100101B DDM50S1A9NNMB	DDM50S1A9NNMBK52	340100416B	DM115742-14
340100101B DAM7W2PF179ANMB	DAM7W2PF179ANMBK52	340100101B DEM9P1A9NNMB	DEM9P1A9NNMBK52	340100420B	DM115742-13
340100101B DAM11W1PF179ANMB	DAM11W1PF179ANMBK52	340100101B DAM15P1A9NNMB	DAM15P1A9NNMBK52	340100413B	DM115741-7
340100101B DBM9W4PF179ANMB	DBM9W4PF179ANMBK52	340100101B DBM25P1A9NNMB	DBM25P1A9NNMBK52	340100417B	DM115741-8
340100101B DBM13W3PF179ANMB	DBM13W3PF179ANMBK52	340100101B DCM37P1A9NNMB	DCM37P1A9NNMBK52	340100414B	DM115743-20
340100101B DBM17W2PF179ANMB	DBM17W2PF179ANMBK52	340100101B DDM50P1A9NNMB	DDM50P1A9NNMBK52	340100418B	DM115743-22
340100101B DBM21W1PF179ANMB	DBM21W1PF179ANMBK52	340100101B DEM9SF179ANMB	DEM9SF179ANMBK52	340102207B	DE-59-20
340100101B DCM13W6PF179ANMB	DCM13W6PF179ANMBK52	340100101B DAM15SF179ANMB	DAM15SF179ANMBK52	340102208B	DE-60-20
340100101B DCM17W5PF179ANMB	DCM17W5PF179ANMBK52	340100101B DBM25SF179ANMB	DBM25SF179ANMBK52	340102209B	DA-59-20
340100101B DCM21WA4PF179ANMB	DCM21WA4PF179ANMBK52	340100101B DCM37SF179ANMB	DCM37SF179ANMBK52	340102210B	DA-60-20
340100101B DCM25W3PF179ANMB	DCM25W3PF179ANMBK52	340100101B DDM50SF179ANMB	DDM50SF179ANMBK52	340102211B	DB-59-20
340100101B DCM27W2PF179ANMB	DCM27W2PF179ANMBK52	340100101B DEM9PF179ANMB	DEM9PF179ANMBK52	340102212B	DB-60-20
340100101B DDM24W7PF179ANMB	DDM24W7PF179ANMBK52	340100101B DAM15PF179ANMB	DAM15PF179ANMBK52	340102213B	DC-59-20
340100101B DDM36W4PF179ANMB	DDM36W4PF179ANMBK52	340100101B DBM25PF179ANMB	DBM25PF179ANMBK52	340102214B	DC-60-20
340100101B DDM43W2PF179ANMB	DDM43W2PF179ANMBK52	340100101B DCM37PF179ANMB	DCM37PF179ANMBK52	340102215B	DD-59-20
340100101B DDM47W1PF179ANMB	DDM47W1PF179ANMBK52	340100101B DDM50PF179ANMB	DDM50PF179ANMBK52	340102216B	DD-60-20
340100101B DEM9SNMB	DEM9SNMBK52	340100102B DEMA9SNMB	DEMA9SNMBK52	340102201B	D20418-52
340100101B DAM15SNMB	DAM15SNMBK52	340100102B DAMA15SNMB	DAMA15SNMBK52	340102206B	D115418-70
340100101B DBM25SNMB	DBM25SNMBK52	340100102B DBMA25SNMB	DBMA25SNMBK52	340102258B	D20418-101
340100101B DCM37SNMB	DCM37SNMBK52	340100102B DCMA37SNMB	DCMA37SNMBK52	340102202B	D20419-74
340100101B DDM50SNMB	DDM50SNMBK52	340100102B DDMA50SNMB	DDMA50SNMBK52	340102203B	D20419-48
340100101B DEM9PNMB	DEM9PNMBK52	340100102B DEMA9PNMB	DEMA9PNMBK52	340102204B	D20420-67
340100101B DAM15PNMB	DAM15PNMBK52	340100102B DAMA15PNMB	DAMA15PNMBK52	340102205B	D20420-49
340100101B DBM25PNMB	DBM25PNMBK52	340100102B DBMA25PNMB	DBMA25PNMBK52	340102244B	D20419-73
340100101B DCM37PNMB	DCM37PNMBK52	340100102B DCMA37PNMB	DCMA37PNMBK52	340102245B	D20419-84
340100101B DDM50PNMB	DDM50PNMBK52	340100102B DDMA50PNMB	DDMA50PNMBK52	340102246B	D20420-63
340100101B DEM9SOL3NMB	DEM9SOL3NMBK52	340102217B	DA19678-174	340102247B	D20420-88
340100101B DAM15SOL3NMB	DAM15SOL3NMBK52	340102218B	DB19678-175	340102225B	DA19678-167
340100101B DBM25SOL3NMB	DBM25SOL3NMBK52	340102219B	DC19678-173	340102226B	DB19678-168
340100101B DCM37SOL3NMB	DCM37SOL3NMBK52	340102220B	DD19678-176	340102227B	DC19678-138
340100101B DDM50SOL3NMB	DDM50SOL3NMBK52	340102221B	DA19678-157	340102228B	DD19678-161
340100101B DEM9POL3NMB	DEM9POL3NMBK52	340102222B	DB19678-171	340102239B	DE19977-47
340100101B DAM15POL3NMB	DAM15POL3NMBK52	340102223B	DC19678-162	340102240B	DA19977-40
340100101B DBM25POL3NMB	DBM25POL3NMBK52	340102224B	DD19678-172	340102241B	DB19977-43
340100101B DCM37POL3NMB	DCM37POL3NMBK52	340104001B	DM115224-1040A	340102242B	DC19977-45
340100101B DDM50POL3NMB	DDM50POL3NMBK52	340104003B	DM115224-1020A	340102243B	DD19977-44
340100101B DEM9S1A0NNMB	DEM9S1A0NNMBK52	340104005B	DM115224-1010A	340102234B	DE24657-16
340100101B DAM15S1A0NNMB	DAM15S1A0NNMBK52	340104002B	DM115224-2040A	340102235B	DA24658-15
340100101B DBM25S1A0NNMB	DBM25S1A0NNMBK52	340104004B	DM115224-2020A	340102236B	DB24659-15
340100101B DCM37S1A0NNMB	DCM37S1A0NNMBK52	340104006B	DM115224-2010A	340102237B	DC24660-16
340100101B DDM50S1A0NNMB	DDM50S1A0NNMBK52	340104007B	DM115224-3040A	340102238B	DD24661-13
340100101B DEM9P1A0NNMB	DEM9P1A0NNMBK52	340104008B	DM115224-4040A	340102229B	DE115386-101A
340100101B DAM15P1A0NNMB	DAM15P1A0NNMBK52	340104009B	DM115224-3020A	340102230B	DA115386-104A
340100101B DBM25P1A0NNMB	DBM25P1A0NNMBK52	340104010B	DM115224-4020A	340102231B	DB115386-102A
340100101B DCM37P1A0NNMB	DCM37P1A0NNMBK52	340104011B	DM115224-3010A	340102232B	DC115386-100A
340100101B DDM50P1A0NNMB	DDM50P1A0NNMBK52	340104012B	DM115224-4010A	340102233B	DD115386-103A
340100101B DEM9S1A7NNMB	DEM9S1A7NNMBK52	340100401B	DM115740-5036	340100501B	030-8882-002
340100101B DAM15S1A7NNMB	DAM15S1A7NNMBK52	340100405B	DM115740-5046	340100502B	031-8944-000
340100101B DBM25S1A7NNMB	DBM25S1A7NNMBK52	340100409B	DM115740-5047	340100503B	030-8848-020
340100101B DCM37S1A7NNMB	DCM37S1A7NNMBK52	340100402B	DM115742-5028	340100504B	031-8787-020
340100101B DDM50S1A7NNMB	DDM50S1A7NNMBK52	340100406B	DM115742-5039	340100505B	330-8782-001
340100101B DEM9P1A7NNMB	DEM9P1A7NNMBK52	340100410B	DM115742-5075	340100506B	031-8843-001
340100101B DAM15P1A7NNMB	DAM15P1A7NNMBK52	340100403B	DM115741-5048	340100507B	330-8944-000
340100101B DBM25P1A7NNMB	DBM25P1A7NNMBK52	340100407B	DM115741-5032	340100508B	031-8902-000
340100101B DCM37P1A7NNMB	DCM37P1A7NNMBK52	340100404B	DM115743-5064		
340100101B DDM50P1A7NNMB	DDM50P1A7NNMBK52	340100408B	DM115743-5040		
340100101B DEM9S1A9NNMB	DEM9S1A9NNMBK52	340100411B	DM115740-19		

Selection Guide

		Locking Hardware					
Backshell	Style	Female Screw Lock see page 209	Male Screw Lock see page 208	Sliding Lock Retainer Assembly see page 210	Slide Lock Post see page 211	Spring Latch Plate see page 212	Spring Latch see page 212
EMI Shielded	Snap-Together Metalized Plastic Straight Exit see page 200	—	—	—	—	—	—
EMI Shielded	Snap-Together Metalized Plastic 40° Exit see page 200	—	—	—	—	—	—
EMI Shielded	Die Cast Zinc Metal see page 202	—	▲	—	—	—	—
Metal	Deep Straight Clamp see page 203	●	●	●	●	●	●
Metal	Round Cable Clamp see page 203	●	●	●	●	●	●
Metal	Short Straight Clamp see page 204	●	●	●	●	●	●
Metal	90° Entry see page 204	●	●	●	●	●	●
Plastic	Snap-Together Universal see page 205	●	●	—	—	—	—
Plastic	One-Piece Snap-Together see page 205	—	▲	—	—	—	—
Plastic	One-Piece Plastic Straight Exit see page 206	—	—	●	●	●	●
Plastic	One-Piece Plastic 90° Exit see page 206	—	—	●	●	●	●
Plastic	Dataphone see page 206	—	▲	—	—	—	—
Plastic	Quick Disconnect for IDC Cable see page 207	—	—	—	—	—	—
Plastic	Quick Disconnect for Round Cable — Straight and 90° Exit see page 207	—	—	—	—	—	—

▲ Supplied with backshell
● Optional, compatible locking hardware
— Not compatible

Dimensions are shown in mm (inch)
Dimensions subject to change

Selection Guide

Locking Hardware							
Locking Hook see page 207	Locking Spring see page 207	Jackscrew Assembly see page 213	Jackpost Assembly see page 213	Recessed Jackscrew see page 201	Extended Jackscrew see page 201	Thumbscrew see page 201	Jackpost for In-Line Connections see page 201
—	—	—	—	•	•	•	•
—	—	—	—	•	•	•	•
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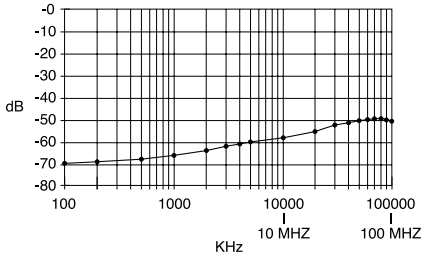
Snap-Together Metalized Plastic

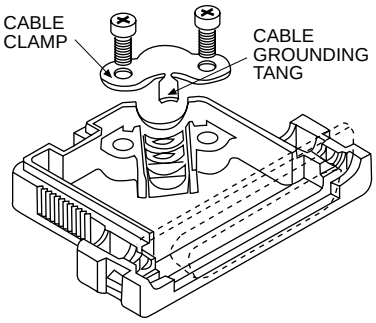
Metalized plastic backshells reduce EMI/RFI emissions.
Metalized plastic provides a light weight solution.
Design includes integral strain relieving cable clamp.

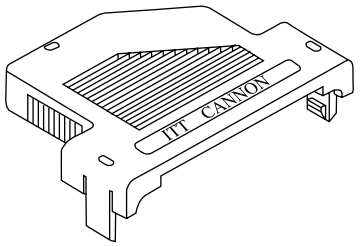
Product Features

- Improves conformance to FCC DOC #20780 shielding requirements
- No crimp ferrule tooling needed
- Quick and simple assembly using snap-together design feature

Attenuation







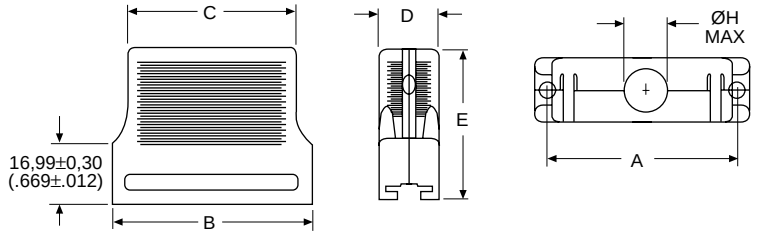
Note: Cable grounding tang not available on DE size backshell.

Specifications	
Attenuation:	−49dB @ 100 MHz
Temperature Range:	−20° C to 80° C

Materials and Finishes	
Material:	Thermoplastic, UL 94V-0 rated
Finish:	Nickel over Copper

Straight Exit

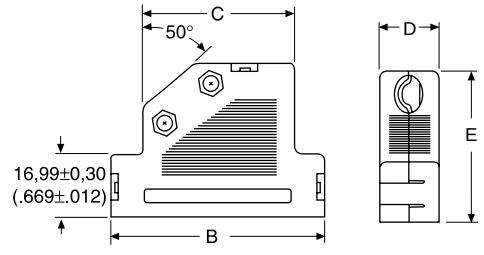
Kit consists of 1 front shell, 1 rear shell, 1 cable clamp, 2 screws
Optional locking hardware sold separately, see page 201.



Shell Size	Layout	Part Number	A ±0,15 (.006)	B ±0,30 (.012)	C ±0,30 (.012)	D ±0,30 (.120)	E ±0,20 (.008)	Ø H Max.
DE	9	DE121073-154	24,95 (.982)	30,81 (1.213)	23,70 (.933)	16,00 (.630)	35,99 (1.417)	7,32 (.288)
DA	15	DA121073-150	33,30 (1.311)	39,09 (1.539)	31,80 (1.252)	16,00 (.630)	42,00 (1.654)	8,31 (.327)
DB	25	DB121073-151	47,00 (1.850)	53,01 (2.087)	45,01 (1.772)	16,00 (.630)	42,00 (1.654)	10,52 (.414)
DC	37	DC121073-152	63,45 (2.498)	69,29 (2.728)	60,30 (2.374)	16,00 (.630)	42,00 (1.654)	12,32 (.485)
DD	50	DD121073-153	61,10 (2.410)	66,90 (2.634)	58,30 (2.295)	19,00 (.748)	42,00 (1.654)	13,00 (.512)

40° Exit

Kit consists of 1 front shell, 1 rear shell, 1 cable clamp, 2 screws
Optional locking hardware sold separately, see page 201.



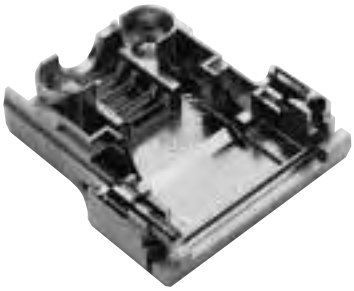
Shell Size	Layout	Part Number	B ±0,30 (.012)	C ±0,30 (.012)	D ±0,30 (.012)	E ±0,20 (.008)	Cable Diameter Min.	Cable Diameter Max.
DE	9	DE121073-54	35,99 (1.417)	22,00 (.866)	16,00 (.630)	35,99 (1.417)	3,51 (.138)	7,49 (.295)
DA	15	DA121073-50	44,29 (1.744)	27,31 (1.075)	16,00 (.630)	42,01 (1.654)	6,50 (.256)	8,99 (.354)
DB	25	DB121073-51	57,99 (2.283)	41,00 (1.614)	16,00 (.630)	42,01 (1.654)	6,50 (.256)	11,00 (.433)
DC	37	DC121073-52	74,50 (2.933)	57,51 (2.264)	16,00 (.630)	42,01 (1.654)	6,50 (.256)	11,00 (.433)
DD	50	DD121073-53	72,97 (2.873)	54,99 (2.165)	19,00 (.748)	42,01 (1.654)	8,99 (.354)	13,00 (.512)

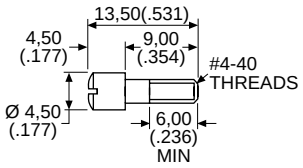
ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Locking Hardware for Snap-Together EMI Shielded Backshell

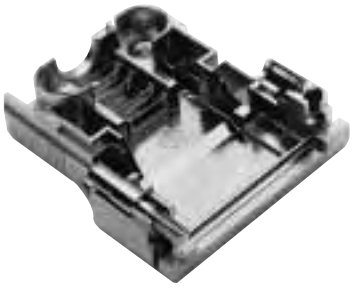
Recessed Jackscrew

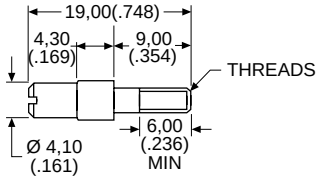




Part Number:	250-8501-004
Material:	Brass
Finish:	Nickel
Quantity Required per Connector:	2

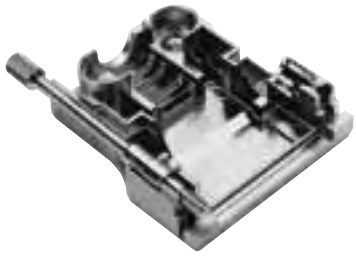
Extended Jackscrew

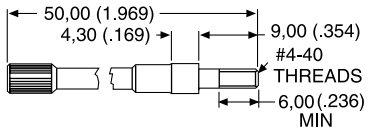




Part Number:	250-8501-009 (M3) 250-8501-010 (#4-40)
Material:	Brass
Finish:	Nickel
Quantity Required per Connector:	2

Thumbscrew

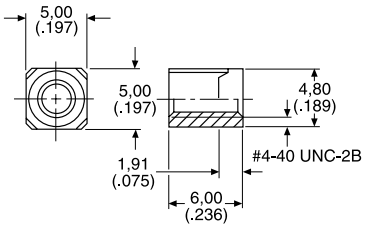




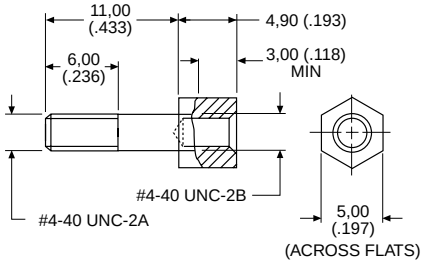
Part Number:	250-8501-013
Material:	Brass
Finish:	Nickel
Quantity Required per Connector:	2

Jackpost for In-Line Connections

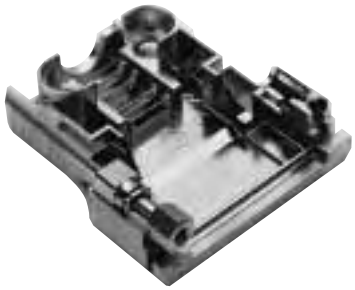
Rectangular Nut



Jackpost



Jackpost Assembly

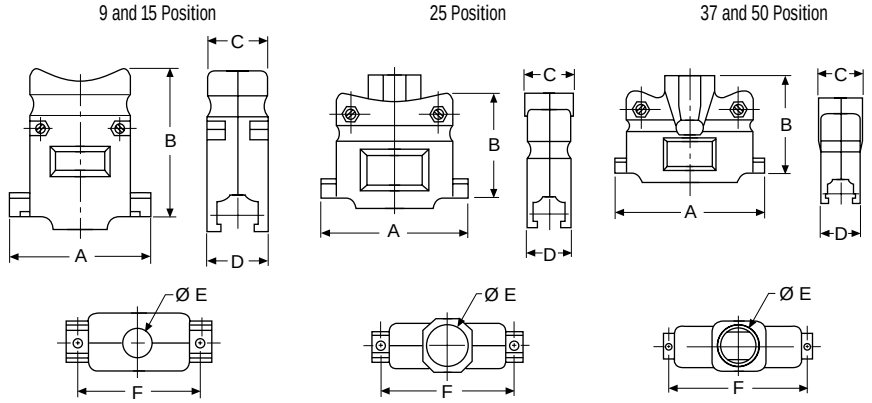


Assembly consists of 1 rectangular nut, 1 jackpost, 1 #4-40 lock washer.

Part Number:	D121073-19
Material:	Brass
Finish:	Nickel
Quantity Required per Connector:	2

Die Cast Zinc Metal Backshell

Straight Exit



Die cast metal backshells reduce EMI/RFI emissions.
Die cast metal backshells offer improved shielding in a rugged package.

Product Features

- Improves conformance to FCC DOC #20780 shielding requirements
- No crimp ferrule tooling needed
- Kit consists of 1 front shell, 1 rear shell, 2 screws, 2 hex nuts, 2 mounting screws, 2 end brackets, 1 set of compression inserts (see this page)

Shell Size	Layout	Part Number	A ±0,13 (.005)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	Ø E ±0,13 (.005)	F ±0,13 (.005)
DE	9	980-2000-345	31,12 (1.225)	37,21 (1.465)	15,75 (.620)	15,75 (.620)	10,16 (.400)	24,99 (.984)
DA	15	980-2000-346	39,12 (1.540)	40,64 (1.600)	15,75 (.620)	15,75 (.620)	10,16 (.400)	33,32 (1.312)
DB	25	980-2000-347	53,09 (2.090)	39,37 (1.550)	17,53 (.690)	15,75 (.620)	13,34 (.525)	47,17 (1.857)
DC	37	980-2000-348	69,34 (2.730)	45,72 (1.800)	21,95 (.864)	15,75 (.620)	18,44 (.726)	63,50 (2.500)
DD	50	980-2000-349	66,70 (2.626)	45,72 (1.800)	21,95 (.864)	18,54 (.730)	18,44 (.726)	61,11 (2.406)

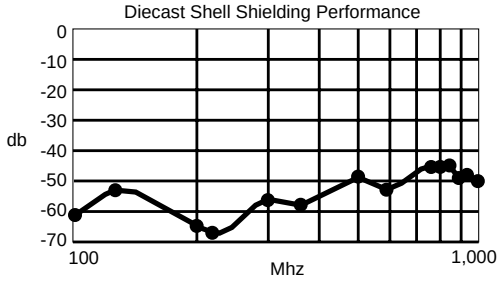
Specifications

Attenuation:	–50 dB @ 1000 MHz
Temperature Range:	–20° C to 80° C

Materials and Finishes

Backshell Material:	Zinc
Backshell Finish:	Clear Zinc
Compression Inserts:	PVC
Hardware Material:	Steel
Hardware Finish:	Clear Zinc

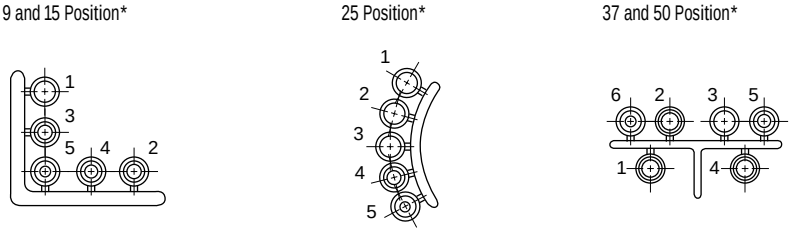
Attenuation



Compression Inserts (Included With Die Cast Zinc Metal Backshell)

Compression inserts accommodate a wide variety of cable sizes.

Position	Cable Diameter
9, 15	.190/.350
25	.190/.460
37, 50	.300/.680



* Inserts may be supplied mirror image

	#1		#2		#3		#4		#5		#6	
Position	O.D.	I.D.	O.D.	I.D.	O.D.	I.D.	O.D.	I.D.	O.D.	I.D.	O.D.	I.D.
9, 15	12,07 (.475)	8,13 (.320)	9,14 (.360)	8,00 (.315)	9,14 (.360)	6,48 (.255)	9,14 (.360)	7,24 (.285)	9,14 (.360)	5,33 (.210)	—	—
25	15,24 (.600)	11,43 (.450)	11,43 (.450)	10,41 (.410)	11,43 (.450)	9,40 (.370)	11,43 (.450)	7,62 (.300)	11,43 (.450)	5,84 (.230)	—	—
37, 50	16,64 (.655)	14,48 (.570)	17,78 (.700)	15,75 (.620)	20,57 (.810)	16,51 (.650)	16,64 (.655)	12,70 (.500)	16,64 (.655)	10,80 (.425)	16,64 (.655)	8,89 (.350)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Metal Backshell

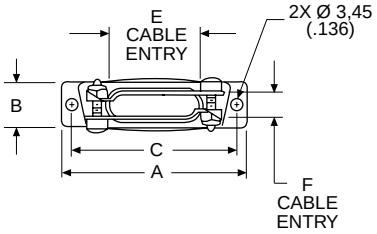
Metal Backshells provide strain relief.
Various profiles available for different cable routing requirements.

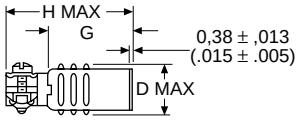
Product Features
Qualified to MIL-Spec M85049

Materials and Finishes

Backshell Material:	Low Carbon Steel
Finish:	Yellow Chromate over Cadmium
Hardware Material:	Steel

Deep Straight Clamp

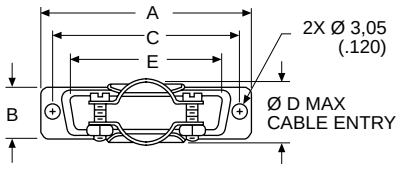


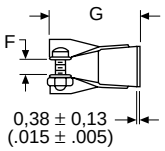


Kit consists of 1 shell, 2 cable clamps, 2 screws, 2 hex nuts

Shell Size	Layout	Part Number	Mil Spec Part Number	A ±0,38 (.015)	B ±0,572 (.0225)	C ±0,13 (.005)	D max.	E ±0,38 (.015)	F ±0,38 (.015)	G ±0,38 (.015)	H max.
DE	9	DE24657	M85049/48-1-1	30,56 (1.203)	12,484 (.4915)	24,99 (.984)	14,68 (.578)	9,53 (.375)	9,53 (.375)	19,05 (.750)	31,75 (1.250)
DA	15	DA24658	M85049/48-1-2	38,89 (1.531)	12,484 (.4915)	33,32 (1.312)	14,68 (.578)	18,11 (.713)	7,93 (.312)	19,05 (.750)	31,75 (1.250)
DB	25	DB24659	M85049/48-1-3	52,78 (2.078)	12,484 (.4915)	47,04 (1.852)	14,68 (.578)	25,40 (1.000)	7,93 (.312)	25,40 (1.000)	39,70 (1.563)
DC	37	DC24660	M85049/48-1-4	69,04 (2.718)	12,484 (.4915)	63,50 (2.500)	14,68 (.578)	34,93 (1.375)	7,93 (.312)	25,40 (1.000)	39,70 (1.563)
DD	50	DD24661	M85049/48-1-5	66,68 (2.625)	15,253 (.6005)	61,11 (2.406)	17,45 (.687)	35,71 (1.406)	10,31 (.406)	28,57 (1.125)	42,88 (1.688)

Round Cable Clamp



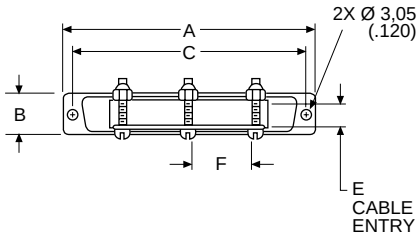


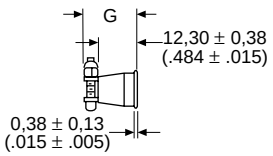
Kit consists of 1 shell, 2 screws, 2 hex nuts

Shell Size	Layout	Part Number	Mil Spec Part Number	A ±0,38 (.015)	B ±0,38 (.015)	C ±0,13 (.005)	Ø D max.	E ±0,38 (.015)	F ±0,38 (.015)	G ±0,76 (.030)
DE	9	DE44994	M85049/48-2-1	30,68 (1.208)	12,70 (.500)	24,99 (.984)	10,31 (.406)	16,79 (.661)	3,18 (.125)	26,18 (1.031)
DA	15	DA20961	M85049/48-2-2	38,89 (1.531)	12,70 (.500)	33,33 (1.312)	10,31 (.406)	24,99 (.984)	3,18 (.125)	26,18 (1.031)
DB	25	DB20962	M85049/48-2-3	52,78 (2.078)	12,70 (.500)	47,04 (1.852)	15,06 (.593)	38,48 (1.515)	4,75 (.187)	26,98 (1.062)
DC	37	DC20963	M85049/48-2-4	69,04 (2.718)	12,70 (.500)	63,50 (2.500)	18,23 (.718)	55,14 (2.171)	6,35 (.250)	26,98 (1.062)
DD	50	DD20964	M85049/48-2-5	66,68 (2.625)	15,47 (.609)	61,11 (2.406)	20,62 (.812)	53,16 (2.093)	7,92 (.312)	26,98 (1.062)

Short Straight Clamp

Kit consists of 1 shell, 2 or 3 screws,
2 or 3 hex nuts



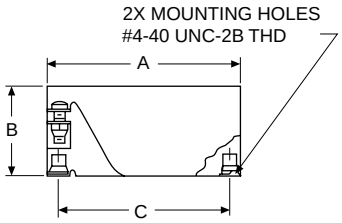


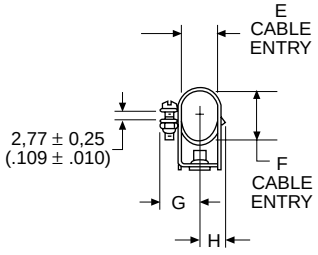
Shell Size	Layout	Part Number	Mil Spec Part Number	No. of Cable Locking Screws Included	A ±0,38 (.015)	B ±0,38 (.015)	C ±0,13 (.005)	E ±0,38 (.015)	F ±0,38 (.015)	G ±0,89 (.035)
DA	15	DA19678-1	M85049/48-3-2	2	38,88 (1.531)	12,70 (.500)	33,33 (1.312)	7,51 (.296)	7,93 (.312)	16,36 (.644)
DB	25	DB19678-2	M85049/48-3-3	2	52,78 (2.078)	12,70 (.500)	47,04 (1.852)	7,51 (.296)	20,22 (.796)	16,36 (.644)
DC	37	DC19678-3	M85049/48-3-4	3	69,04 (2.718)	12,70 (.500)	63,50 (2.500)	7,51 (.296)	17,45 (.687)	16,36 (.644)
DD	50	DD19678-4	M85049/48-3-5	3	66,68 (2.625)	15,47 (.609)	61,11 (2.406)	9,91 (.390)	17,45 (.687)	17,63 (.694)

DE-9 is not available.

90° Entry

Kit consists of 1 shell, 1 cable clamp, 1 screw,
1 nut, 2 rivnuts (assembled)





Shell Size	Layout	Part Number	Mil Spec Part Number	A ±0,38 (.015)	B ±0,76 (.030)	C ±0,13 (.005)	E ±0,76 (.030)	F ±0,76 (.030)	G ±0,76 (.030)	H ±0,76 (.030)
DE	9	DE19977-5	M85049/50-1	30,56 (1.203)	18,24 (.718)	24,99 (.984)	11,10 (.437)	11,10 (.437)	11,89 (.468)	7,14 (.281)
DA	15	DA19977-1	M85049/50-2	38,89 (1.531)	18,24 (.718)	33,33 (1.312)	11,10 (.437)	11,10 (.437)	11,89 (.468)	7,14 (.281)
DB	25	DB19977-2	M85049/50-3	52,78 (2.078)	24,58 (.968)	47,04 (1.852)	11,10 (.437)	15,88 (.625)	11,89 (.468)	7,14 (.281)
DC	37	DC19977-3	M85049/50-4	69,04 (2.718)	30,15 (1.187)	63,50 (2.500)	11,10 (.437)	20,63 (.812)	11,89 (.468)	7,14 (.281)
DD	50	DD19977-4	M85049/50-5	66,68 (2.625)	31,75 (1.250)	61,11 (2.406)	14,28 (.562)	23,01 (.906)	13,49 (.531)	8,71 (.343)

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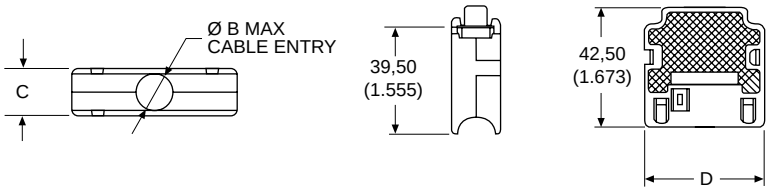
Dimensions are shown in mm (inch)
Dimensions subject to change

Plastic Backshell

Snap-Together Universal



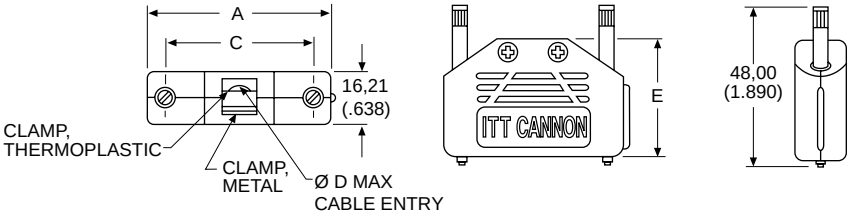
A 2-piece snap-together design for quick assembly
Customer furnishes tie-wrap

Materials and Finishes

Material:	Black Thermoplastic, UL 94V-0 rated

Shell Size	Layout	Part Number	Ø B max.	C ±0,20 (.008)	D ±0,20 (.008)
DE	9	DE115339-20	7,01 (.276)	17,00 (.669)	19,51 (.768)
DA	15	DA115339-21	9,60 (.378)	17,00 (.669)	27,79 (1.094)
DB	25	DB115339-22	11,61 (.457)	17,00 (.669)	41,61 (1.638)
DC	37	DC115339-23	13,00 (.512)	17,00 (.669)	57,99 (2.283)
DD	50	DD115339-24	16,00 (.630)	19,81 (.780)	52,32 (2.060)

One-Piece Snap-Together



Low cost
Easy to assemble
Mounting hardware included
2 thumbscrews, 2 cable clamps

Materials and Finishes

Backshell Material:	Polypropylene
Hardware Material:	Steel
Hardware Finish:	Yellow chromate over zinc

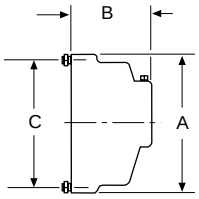
Shell Size	Layout	Part Number	A	C	Ø D max.	E
DE	9	DEBS-9	35,20 (1.386)	24,99 (.984)	5,69 (.224)	27,51 (1.083)
DA	15	DABS-15	43,31 (1.705)	33,33 (1.312)	5,69 (.224)	31,19 (1.228)
DB	25	DBBS-25	57,20 (2.252)	47,04 (1.852)	6,50 (.256)	38,30 (1.508)

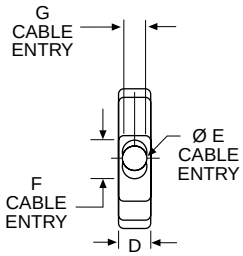
DC-37 and DD-50 are not available.

One-Piece Plastic

Straight Exit

Kit consists of 1 shell, 1 cable clamp,
1 set screw
Mounting hardware included
2 screws #4-24 x 5/16 long self-tapping
Accommodates spring latches





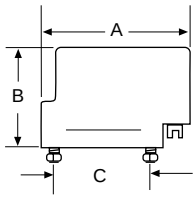
Shell Size	Layout	Part Number	A ±0,38 (.015)	B ±0,38 (.015)	C ±0,13 (.005)	D ±0,38 (.015)	Ø E ±0,25 (.010)	F ±0,25 (.010)	G ±0,25 (.010)
DE	9	DE51218	30,94 (1.218)	25,40 (1.000)	24,99 (.984)	12,70 (.500)	7,14 (.281)	—	—
DA	15	DA51210	39,27 (1.546)	25,40 (1.000)	33,33 (1.312)	12,70 (.500)	9,14 (.360)	—	—
DB	25	DB51212	53,16 (2.093)	31,75 (1.250)	47,04 (1.852)	12,70 (.500)	—	12,52 (.493)	9,15 (.360)
DC	37	DC51214	69,44 (2.734)	38,10 (1.500)	63,50 (2.500)	12,70 (.500)	—	17,63 (.694)	9,15 (.360)
DD	50	DD51216	67,06 (2.640)	38,10 (1.500)	61,11 (2.406)	15,47 (.609)	—	18,64 (.734)	11,89 (.468)

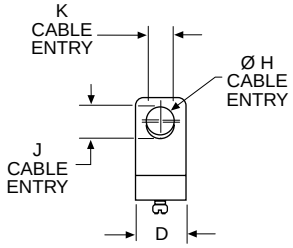
Materials and Finishes

Backshell Material:	Black Thermoplastic, UL 94V-2 rated
Hardware Material:	Steel
Hardware Finish:	Yellow Chromate over Cadmium or Zinc

90° Exit

Kit consists of 1 shell, 1 cable clamp,
1 set screw
Mounting hardware included
2 screws #4-24 x 5/16 long self-tapping





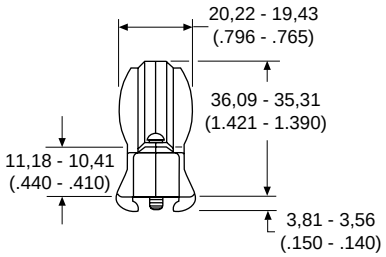
Shell Size	Layout	Part Number	A ±0,38 (.015)	B ±0,38 (.015)	C ±0,13 (.005)	D ±0,38 (.015)	Ø H ±0,25 (.010)	J ±0,25 (.010)	K ±0,25 (.010)
DE	9	DE51219	37,95 (1.494)	25,40 (1.000)	24,99 (.984)	12,70 (.500)	7,14 (.281)	—	—
DA	15	DA51211	46,28 (1.822)	25,40 (1.000)	33,33 (1.312)	12,70 (.500)	9,14 (.360)	—	—
DB	25	DB51213	60,15 (2.368)	31,75 (1.250)	47,04 (1.852)	12,70 (.500)	—	12,52 (.493)	9,15 (.360)
DC	37	DC51215	76,43 (3.009)	38,10 (1.500)	63,50 (2.500)	12,70 (.500)	—	17,63 (.694)	9,15 (.360)
DD	50	DD51217	74,04 (2.915)	38,10 (1.500)	61,11 (2.406)	15,47 (.609)	—	18,64 (.734)	11,89 (.468)

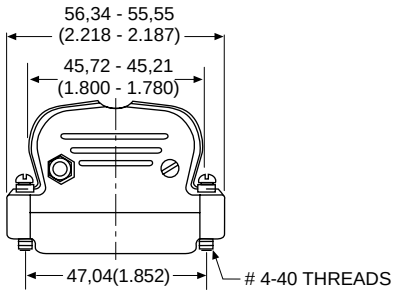
Materials and Finishes

Backshell Material:	Black Thermoplastic, UL 94V-2 rated
Hardware Material:	Steel
Hardware Finish:	Yellow Chromate over Cadmium or Zinc

Dataphone

Available in 25 position only
Mounting hardware included
2 screws #4-40 x 11/16 long





Shell Size	Layout	Part Number	Max. Cable Entry
DB	25	DB51226-1B	7,92 (.312)

Materials and Finishes

Backshell Material:	Black Thermoplastic, UL 94V-0 rated
Hardware Material:	Steel
Hardware Finish:	Clear Chromate over Cadmium or Zinc

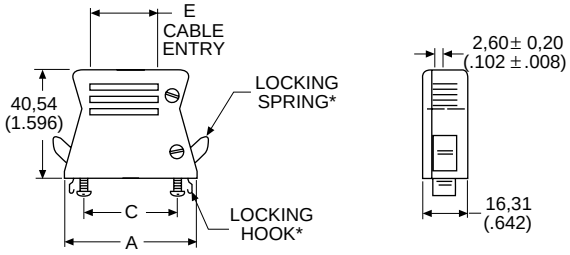
ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change

Quick Disconnect for IDC Cable

IDC

Kit consists of 1 front shell, 1 rear shell, 2 strain reliefs, 5 screws



* Order optional locking hardware separately.

Materials and Finishes

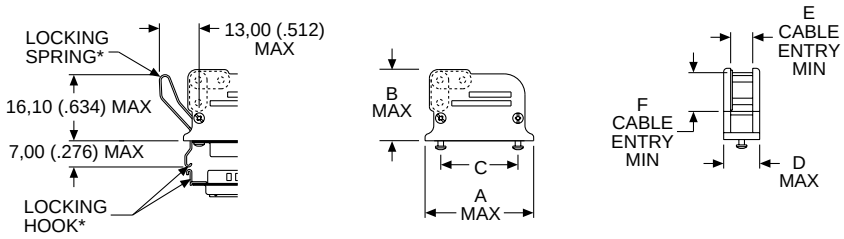
Material:	Black Thermoplastic, UL 94V-0 rated

Shell Size	Layout	Part Number	A max.	C ±0,13 (.005)	E ±0,20 (.008)
DE	9	DE115386-1B	40,69 (1.602)	24,99 (.984)	14,99 (.590)
DA	15	DA115386-2B	49,00 (1.929)	33,30 (1.311)	23,29 (.917)
DB	25	DB115386-3B	62,69 (2.468)	47,04 (1.852)	36,98 (1.456)
DC	37	DC115386-4B	79,20 (3.118)	63,50 (2.500)	53,49 (2.106)

Quick Disconnect for Round Cable

Straight and 90° Exit

Kit consists of 1 front shell, 1 rear shell, 1 cable clamp, 1 spacer, 4 self-tapping screws, 2 machined screws



* Order optional locking hardware separately.

Materials and Finishes

Material:	Black Thermoplastic, UL 94V-0 rated

Shell Size	Layout	Part Number	A max.	B max.	C ±0,15 (.006)	D max.	E min.	F min.
DE	9	DE115339	41,33 (1.627)	32,41 (1.276)	25,00 (.984)	16,51 (.650)	7,70 (.303)	6,70 (.264)
DA	15	DA115339-1	49,63 (1.954)	32,41 (1.276)	33,30 (1.311)	16,51 (.650)	7,70 (.303)	6,70 (.264)
DB	25	DB115339-2	63,65 (2.506)	40,44 (1.592)	47,04 (1.852)	16,51 (.650)	7,70 (.303)	17,70 (.697)
DC	37	DC115339-3	79,86 (3.144)	42,42 (1.670)	63,50 (2.500)	16,51 (.650)	7,70 (.303)	17,70 (.697)
DD	50	DD115339-4	77,57 (3.054)	42,42 (1.670)	61,10 (2.406)	19,51 (.768)	10,69 (.421)	17,70 (.697)

Optional Locking Hardware/Mechanism

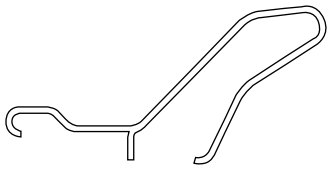
Optional hardware provides quick disconnect for either flat IDC cable or round jacketed cable.

Order 2 per connector

Material:	Corrosion-resistant steel

Locking Hook

Locking Spring



Lock Hook Part Number
015-8755-000
015-8755-001

Lock Spring Part Number
259-8760-000

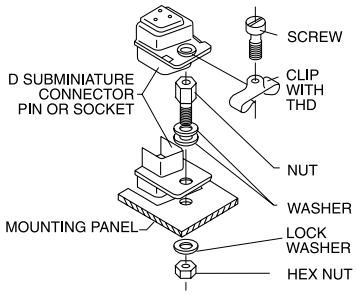
NOTE: Not for use on rear panel mounted connectors.

Screw Lock Assemblies

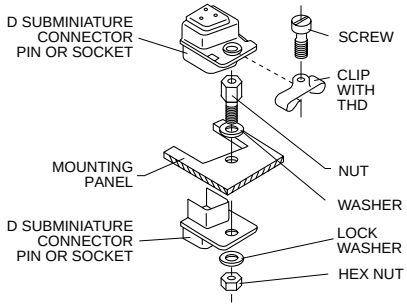
ITT Cannon offers the largest variety of locking and latching hardware.
Refer to the accessories selection guide on pages 198-199 for use with ITT Cannon backshells.

Product Features
- Ensures positive mating
- Provides locking and latching for high vibration applications

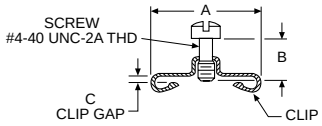
Front Panel Mount



Rear Panel Mount



Male Screw Lock



Kit consists of 1 screw and 1 clip
Order 2 per connector

Material:	Steel
Finish:	Yellow Chromate over Cadmium or Zinc

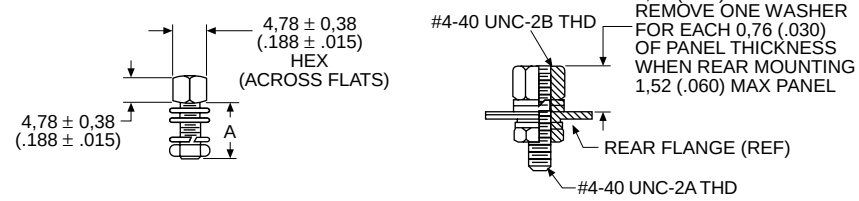
Shell Size	Part Number	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,13 (.005)
DE, DA, DB, DC	D20419	14,10 (.555)	6,35 (.250)	1,22 (.048)
DE, DA, DB, DC	D20419-18	14,10 (.555)	7,14 (.281)	1,70 (.067)
DE, DA, DB, DC	D20419-21	14,10 (.555)	7,14 (.281)	2,34 (.092)
DE, DA, DB, DC	D20419-104	14,10 (.555)	7,92 (.312)	2,34 (.092)
DD	D20420	16,66 (.656)	6,35 (.250)	1,22 (.048)
DD	D20420-13	16,66 (.656)	7,14 (.281)	1,70 (.067)
DD	D20420-15	16,66 (.656)	7,14 (.281)	2,34 (.092)
DD	D20420-86	16,66 (.656)	7,92 (.312)	2,34 (.092)

Dimensions are shown in mm (inch)
Dimensions subject to change

Female Screw Lock

Kit consists of 1 nut, 3 washers, 1 lock washer, 1 hex nut
Order 2 per connector

Material:	Steel



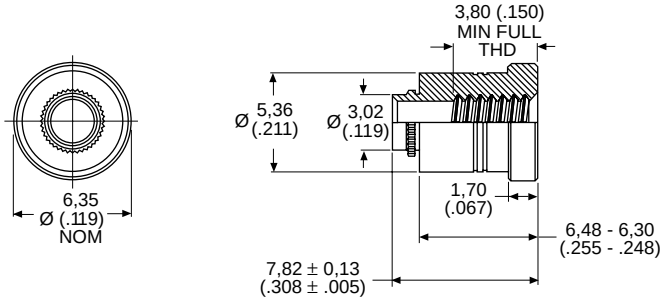
NOTE: (1) A 6 inch/pound (female) and 4 inch/pound (male) maximum torque during assembly is recommended on steel screw lock assemblies.
(2) A third flat washer is supplied for front panel mounting of tab shell connectors.

Yellow Chromate over Cadmium	Mil Spec Part Number	Zinc With Clear Chromate	A ±0,38 (.015)
D20418-2	M24308/26-1	D20418-80	7,92 (.312)
D20418-50	—	—	12,70 (.500)
D20418-39	M24308/26-2	—	15,88 (.625)
D20418-74	—	—	19,05 (.750)

Female Screw Lock for High Volume Applications

Order 2 per connector
Tool required for installation. See page 211.

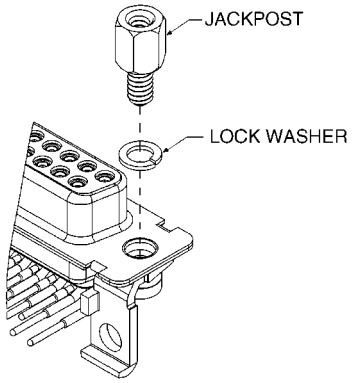
Material:	Steel
Finish:	Zinc



NOTE: Not suitable for rear panel mounting.

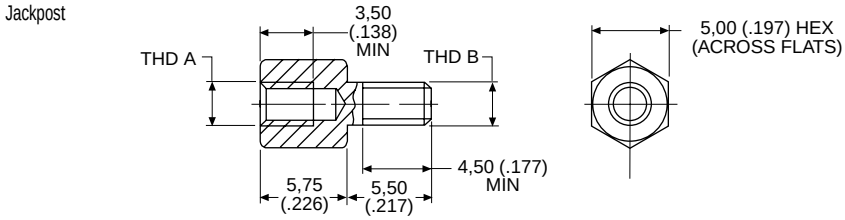
Part Number	Thread Code	Nominal Panel Thickness
980-2000-858	#4-40	1,09 – 0,91 (.043 – .036)
980-2000-859	M3	1,09 – 0,91 (.043 – .036)

Screw Locks for Connectors with Integral Threaded Inserts



Kit consists of 1 jackpost, 1 lock washer
Order 2 per connector

Material:	Brass
Finish:	Nickel



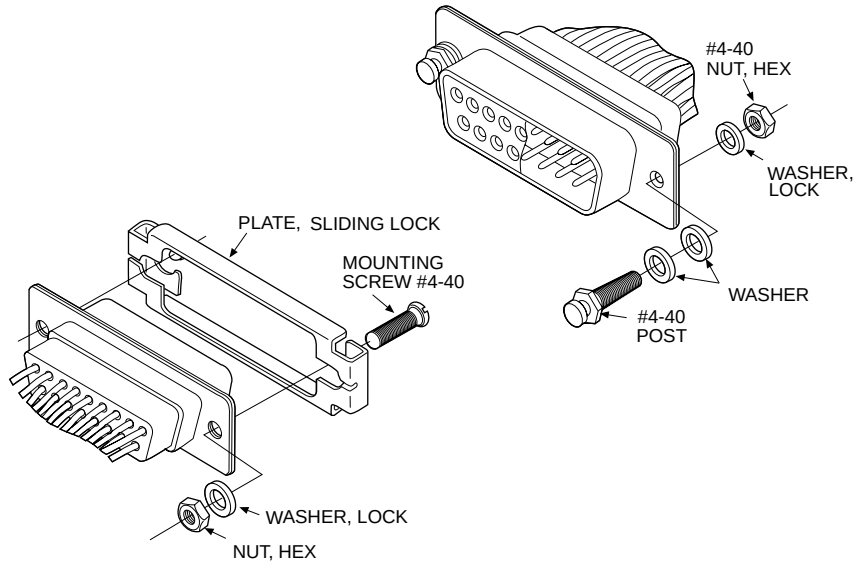
Part Number	Thread Code	
	THD A	THD B
D121073-39	#4-40 UNC-2B	#4-40 UNC-2A
D121073-40	M3	#4-40 UNC-2A
D121073-41	#4-40 UNC-2B	M3
D121073-42	M3	M3

Slide Lock Assemblies

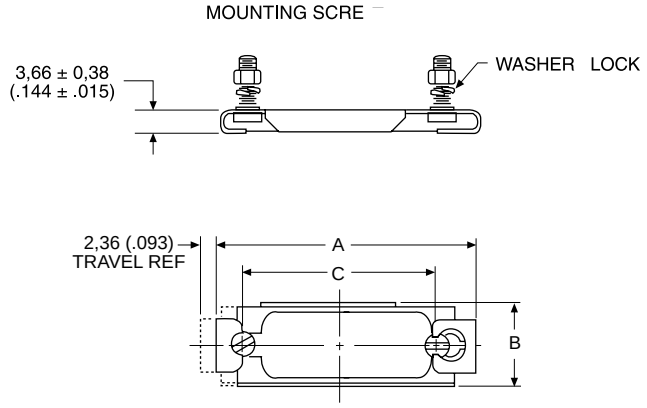
ITT Cannon offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 198-199 for use with ITT Cannon backshells.

Product Features

- Ensures positive mating
- Provides locking and latching for high vibration applications



Sliding Lock Retainer Assembly



- Ideal for Ethernet Applications
- Kit consists of 1 sliding lock plate, 2 mounting screws, 2 lock washers, 2 hex nuts
- Order 1 kit per connector

Description	Material	Finish/ Treatment
Sliding Lock Plate	Stainless Steel	Passivated
Screw, Mounting	Steel	Yellow Chromate Over Cadmium or Zinc
Washer, Lock		
Nut, Hex		

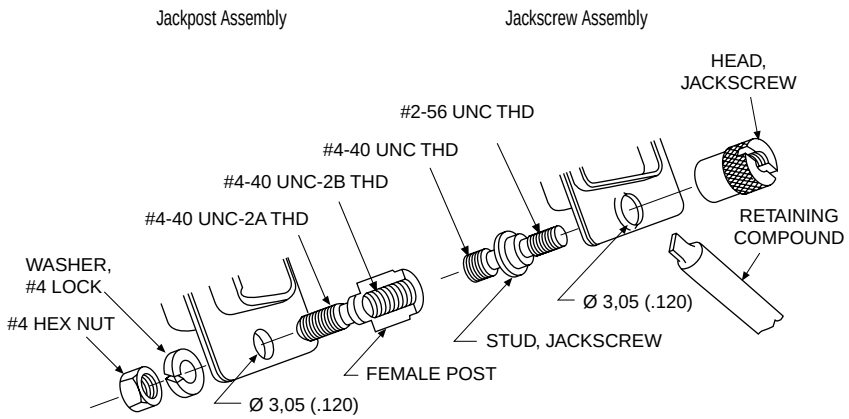
Shell Size	Layout	Part Number	A ±0,38 (.015)	B ±0,38 (.015)	C ±0,13 (.005)
DE	9	DE51224-1	35,05 (1.380)	12,70 (.500)	25,00 (.984)
DA	15	DA51220-1*	43,70 (1.720)	12,70 (.500)	33,32 (1.312)
DB	25	DB51221-1	57,40 (2.260)	12,70 (.500)	47,04 (1.852)
DC	37	DC51222-1	73,86 (2.908)	12,70 (.500)	63,50 (2.500)
DD	50	DD51223-1	71,47 (2.814)	15,47 (.609)	61,11 (2.406)

* Meets IEEE 802.3 Ethernet Specification

Dimensions are shown in mm (inch)
Dimensions subject to change

Jackscrew/Jackpost Assemblies

ITT Cannon offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 198-199 for use with ITT Cannon Connectors.



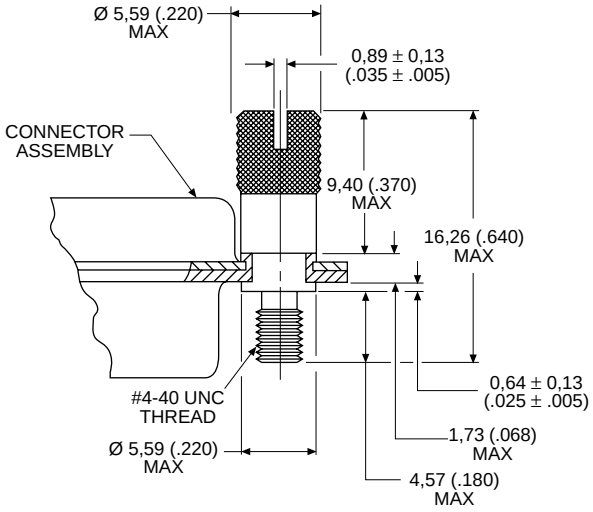
Jackscrew Assembly

Kit consists of 2 studs, 2 heads, 1 tube retaining compound
Order one kit per connector

Part Number:	D110550

Materials and Finishes

Material:	Stainless Steel



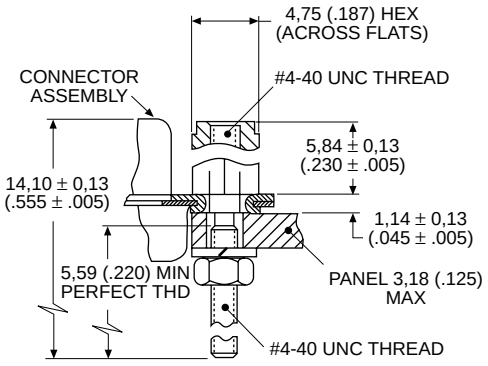
Jackpost Assembly

Kit consists of 2 posts, 2 hex nuts, 2 lock washers
Order one kit per connector

Part Number:	D110551

Materials and Finishes

Material:	Stainless Steel
Treatment:	Passivated



NOTE: Jackpost is not compatible with rear-panel mount connectors.

Guide Pin Plate

Female

Useful in blind mate applications.
Kit consists of 1 plate, 2 screws
Guide pin inserts for Size 8 cavities for Combo D® connectors also available. See page 95.

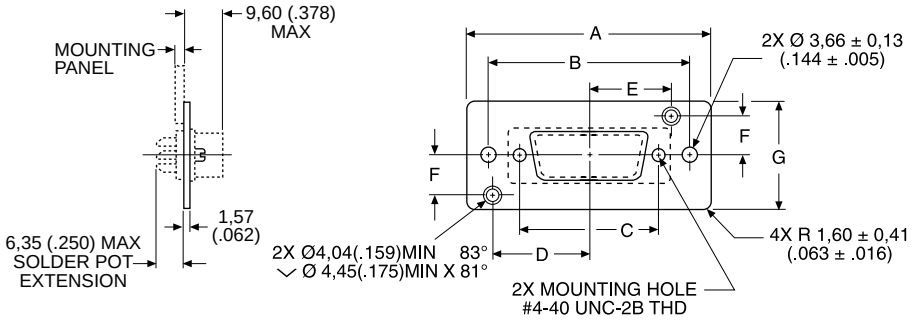
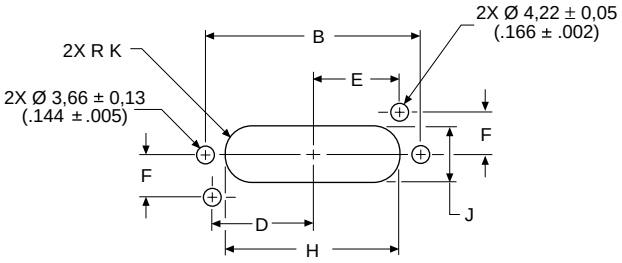


Plate and Hardware Material:	Steel
Plate and Hardware Finish:	Yellow Chromate over Zinc or Cadmium

Shell Size	Layout	Part Number	A ±0,41 (.016)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,13 (.005)	F ±0,13 (.005)	G ±0,41 (.016)	H ±0,41 (.016)	J ±0,41 (.016)	K ±0,41 (.016)
DE	9	DE111920	49,61 (1.953)	40,08 (1.578)	25,00 (.986)	18,65 (.734)	15,27 (.601)	9,52 (.375)	25,40 (1.000)	30,58 (1.204)	12,29 (.484)	6,15 (.242)
DA	15	DA22214	57,96 (2.282)	48,41 (1.906)	33,32 (1.312)	22,81 (.898)	19,43 (.765)	9,52 (.375)	25,40 (1.000)	38,91 (1.532)	12,29 (.484)	6,15 (.242)
DB	25	DB22254	71,63 (2.820)	62,13 (2.446)	47,04 (1.852)	29,67 (1.168)	26,29 (1.035)	9,52 (.375)	25,40 (1.000)	51,21 (2.016)	11,91 (.469)	5,94 (.234)
DC	37	DC22071	88,11 (3.469)	78,59 (3.094)	63,50 (2.500)	37,90 (1.492)	34,52 (1.359)	9,52 (.375)	25,40 (1.000)	67,49 (2.657)	11,91 (.469)	5,94 (.234)
DD	50	DD21961	85,72 (3.375)	76,20 (3.000)	61,11 (2.406)	36,50 (1.437)	33,32 (1.312)	11,10 (.437)	28,58 (1.125)	65,10 (2.563)	14,30 (.563)	7,16 (.282)

Recommended Panel Cutout



ITT Cannon

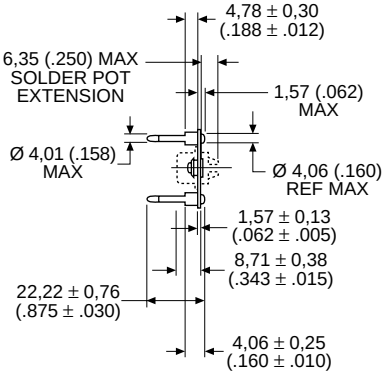
Dimensions are shown in mm (inch)
Dimensions subject to change

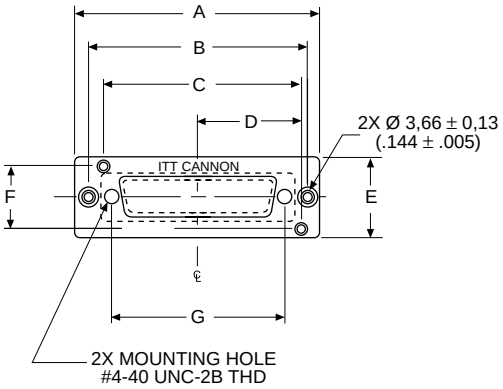
Guide Pin Plate

Male

Useful in blind mate applications.
Kit consists of 1 plate, 2 sems screws, 2 rivets, 2 guide pins, 2 washers
Guide pin inserts for Size 8 cavities for Combo D® connectors also available. See page 95.

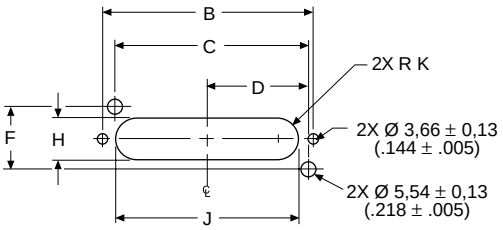
Plate and Hardware Material:	Steel
Plate and Hardware Finish:	Yellow Chromate over Zinc or Cadmium
Guide Pin Material:	Stainless Steel





Shell Size	Layout	Part Number	A ±0,38 (.015)	B ±0,13 (.005)	C ±0.25 (.010)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	G ±0.13 (.005)	H ±0.25 (.010)	J ±0.38 (.015)	K ±0,13 (.005)
DE	9	DE111919	49,61 (1.953)	40,08 (1.578)	33,91 (1.335)	18,65 (.734)	25,40 (1.000)	19,05 (.750)	25,00 (.984)	12,29 (.484)	30,58 (1.204)	6,15 (.242)
DA	16	DA22213	57,94 (2.281)	48,41 (1.906)	42,24 (1.663)	22,81 (.898)	25,40 (1.000)	19,05 (.750)	33,32 (1.312)	12,29 (.484)	38,89 (1.531)	6,15 (.242)
DB	25	DB22255	71,63 (2.820)	62,13 (2.446)	55,96 (2.203)	29,67 (1.168)	25,40 (1.000)	19,05 (.750)	47,04 (1.852)	12,29 (.484)	51,99 (2.047)	6,15 (.242)
DC	37	DC22070	88,09 (3.468)	78,42 (3.094)	72,42 (2.851)	37,90 (1.492)	25,40 (1.000)	19,05 (.750)	63,50 (2.500)	12,29 (.484)	68,25 (2.687)	6,15 (.242)
DD	50	DD21962	85,72 (3.375)	76,20 (3.000)	69,82 (2.749)	36,50 (1.437)	28,58 (1.125)	22,20 (.874)	61,11 (2.406)	15,06 (.593)	66,93 (2.635)	7,52 (.296)

Recommended Panel Cutout

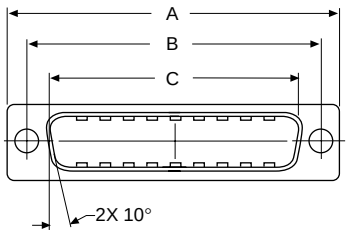


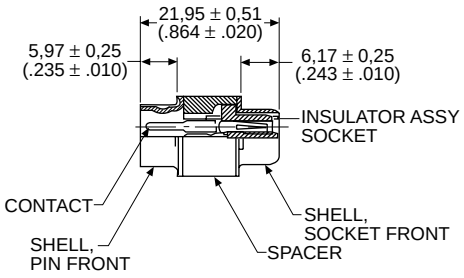
Connector Saver

Connector Saver

Connector Savers are used to minimize wear on cable or panel connectors.

Engaging Face, Pin Side





Note: Hardware removed for clarity.

Shell Size	Layout	Part Numbers	A ±0,40 (.015)	B ±0,25 (.010)	C ±0,25 (.010)
DE	9	DEBU111515	30,81 (1.213)	24,99 (.984)	16,92 (.666)
DA	15	DABU111512	39,14 (1.541)	33,32 (1.312)	25,25 (.994)
DB	25	DBBU111511	53,04 (2.088)	47,04 (1.852)	38,96 (1.534)

Note: DC-37 and DD-50 not available.

Specifications

Temperature: −55° C to 105° C
Current Rating: 7 A
Dielectric Withstanding Voltage: 500 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shells	Steel	Tin/Lead
Insulator	Black Thermoplastic, UL 94V-0	—
Contacts	Copper Alloy	Gold Over Nickel
Spacer	Zinc Alloy	—
Locking Hardware	Steel	Clear Chromate Over Zinc

Dimensions are shown in mm (inch)
Dimensions subject to change

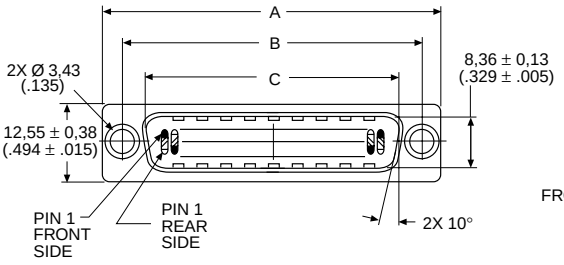
Gender Changer

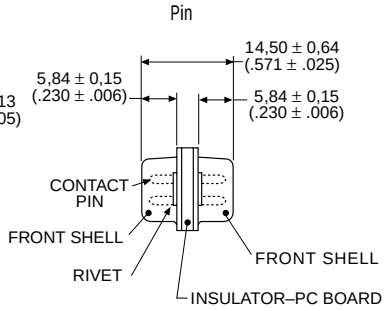
Male/Male

Gender Changers modify the mating interface to allow connectors of the same genders to mate.

Product Features

- Low cost way to correct design errors
- Optional hardware allows design flexibility





Note: Grounding dimples available on male/male only.

Shell Size	Layout	Part Number Without Hardware	Part Number With Hardware	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)
DE	9	DE111805-1	DE111805-5	30,81 (1.213)	24,99 (.984)	16,92 (.666)
DA	15	DA111806-1	DA111806-5	39,14 (1.541)	33,32 (1.312)	25,25 (.994)
DB	25	DB111807-1	DB111807-5	53,04 (2.088)	47,04 (1.852)	38,96 (1.534)
DC	37	DC111808-1	DC111808-5	69,32 (2.729)	63,50 (2.500)	55,42 (2.182)

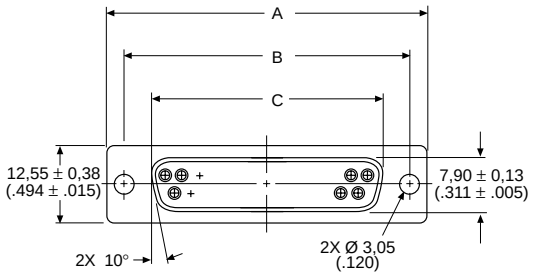
Note: DD-50 not available in male/male.

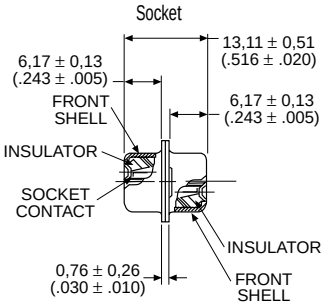
Female/Female

Gender Changers modify the mating interface to allow connectors of the same genders to mate.

Product Features

- Low cost way to correct design errors
- Optional hardware allows design flexibility





Shell Size	Layout	Part Number Without Hardware	Part Number With Hardware	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)
DE	9	DE111813	DE111813-3	30,81 (1.213)	24,99 (.984)	16,33 (.643)
DA	15	DA111810	DA111810-3	39,14 (1.541)	33,32 (1.312)	24,66 (.971)
DB	25	DB111811	DB111811-2	53,04 (2.088)	47,04 (1.852)	38,38 (1.511)

Note: DC-37 and DD-50 not available for female/female.

Specifications

Temperature: −55° C to 105° C
Current Rating: 3 A
Dielectric Withstanding Voltage: 500 VAC at Sea Level

Materials and Finishes

Description		Material	Finish
Shells		Steel	Tin/Lead
Insulator	M/M	Glass Epoxy	—
	F/F	Black Thermoplastic, UL 94V-0	—
Contacts		Copper Alloy	Gold Over Nickel
Rivets (M/M)		Copper Alloy	Tin/Lead
Locking Hardware		Steel	Clear Chromate Over Cadmium or Zinc and Mylar

Dust Cap

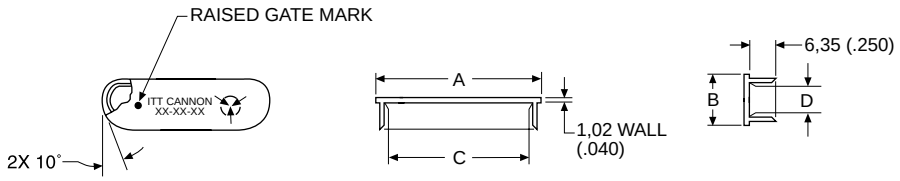
Dust caps provide protection from moisture and dust for unused I/O ports.

Product Features

Conductive Dust Caps provide a surface resistivity of at least 1 x 10^5 ohms/sq
Dust Caps meet the static decay test requirements of MIL-B-81705C, Type II.
Dust Caps have an integral flange for easy application and removal.

Materials and Finishes

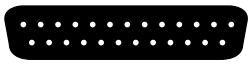
Material:	Black Polyethylene



NOTE: C dim. applies at point of maximum integral interface length.

Part Number	I.D.	A	B	C	D
DE-59-20	Socket	20,32 (.800)	11,43 (.450)	16,36 (.644)	7,59 (.299)
DA-59-20	Socket	28,45 (1.120)	11,68 (.460)	24,59 (.968)	7,62 (.300)
DB-59-20	Socket	42,42 (1.670)	11,68 (.460)	38,25 (1.506)	7,49 (.295)
DC-59-20	Socket	58,93 (2.320)	11,68 (.460)	54,81 (2.158)	7,37 (.290)
DD-59-20	Socket	56,90 (2.240)	14,48 (.570)	53,11 (2.091)	10,41 (.410)
DE-60-20	Pin	21,84 (.860)	12,95 (.510)	17,78 (.700)	8,92 (.351)
DA-60-20	Pin	30,48 (1.200)	12,95 (.510)	26,52 (1.044)	9,02 (.355)
DB-60-20	Pin	44,20 (1.740)	13,46 (.530)	39,60 (1.559)	9,09 (.358)
DC-60-20	Pin	60,71 (2.390)	13,46 (.530)	56,90 (2.240)	9,37 (.369)
DD-60-20	Pin	58,17 (2.290)	16,00 (.630)	54,28 (2.137)	12,04 (.474)

Interfacial Seal



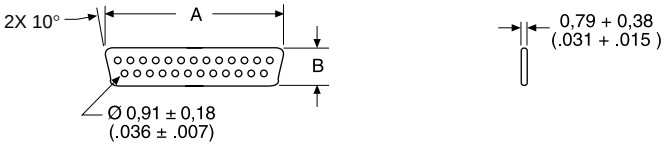
Interfacial seals provide moisture resistance at the mating interface.

Product Features

Other Interfacial Seals in the Combo D® layouts are available upon request.

Materials and Finishes

Material:	Silastic Sheet



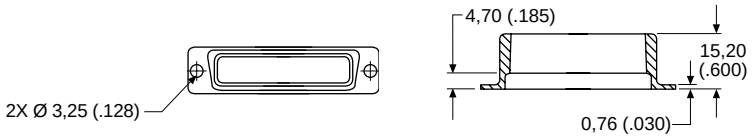
Shell Size	Layout	Part Number	A	B
DE	9	DE53750	16,66 (.656)	8,41 (.331)
DA	15	DA53750-1	24,99 (.984)	8,41 (.331)
DB	25	DB53750-2	38,88 (1.531)	8,41 (.331)
DC	37	DC53750-3	55,14 (2.171)	8,41 (.331)
DD	50	DD53750-4	52,78 (2.078)	11,10 (.437)
DC	21WA4	075-0354-003	55,14 (2.171)	8,41 (.331)

Potting Shell

Potting shells are molded with a thin flange 0,76 (.030) to permit the use of D Subminiature locking devices.
Potting shells hold epoxy in place during curing.

Materials and Finishes

Material:	Nylon
Color:	Natural (white)



Shell Size	Layout	Part Number
DE	9	DE50904-1
DA	15	DA50905-1
DB	25	DB50906-1
DC	37	DC50907-1
DD	50	DD50908-1

Dimensions are shown in mm (inch)
Dimensions subject to change

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Panel Mounting

Figure 1A

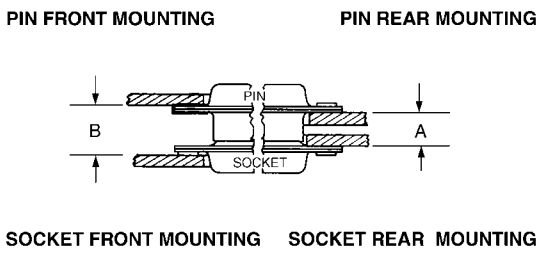


Figure 1B

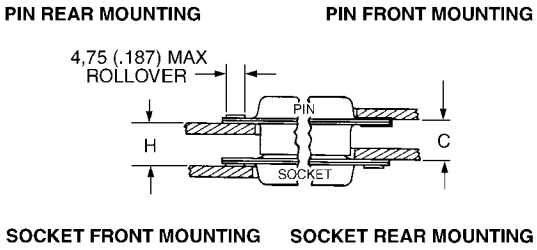


Figure 2

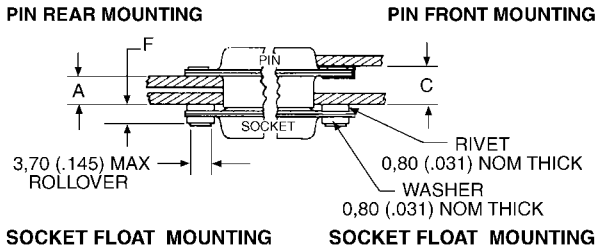


Figure 3

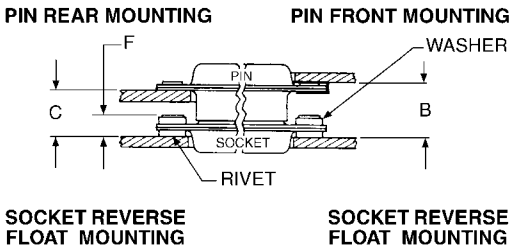


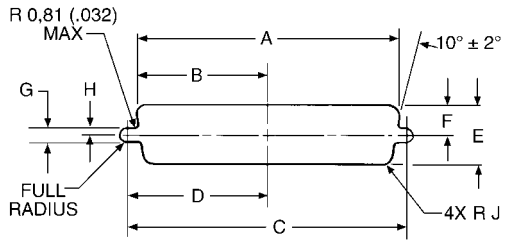
Figure Number	Combination of Mated Connectors			A +0,76 (.030)	B +0,76 (.030)	C +0,76 (.030)	F ±0,25 (.010)	H +0,76 (.030)
	Size	Pin (See Note Below)	Socket					
1A, 1B	A, E	Standard	Standard	6,35 (.250)	8,63 (.340)	7,49 (.295)	—	7,49 (.295)
1A, 1B	B, C, D	Standard	Standard	6,04 (.238)	8,71 (.343)	7,56 (.298)	—	7,18 (.283)
2	A, E	Standard	Float Mount	5,53 (.218)	—	6,68 (.263)	3,04 (.120)	—
2	B, C, D	Standard	Float Mount	5,23 (.206)	—	6,75 (.266)	3,04 (.120)	—
2	A, E	Float Mount	Standard	5,53 (.218)	—	6,68 (.263)	3,04 (.120)	—
2	B, C, D	Float Mount	Standard	5,23 (.206)	—	6,37 (.251)	3,30 (.130)	—
3	A, E	Standard	Reverse Float Mount	—	9,09 (.358)	7,95 (.313)	3,04 (.120)	—
3	B, C, D	Standard	Reverse Float Mount	—	9,16 (.361)	7,64 (.301)	3,04 (.120)	—
3	A, E	Reverse Float Mount	Standard	—	9,09 (.358)	7,95 (.313)	3,04 (.120)	—
3	B, C, D	Reverse Float Mount	Standard	—	9,01 (.355)	7,87 (.310)	3,30 (.130)	—

Notes:
1. A, B, C and H are dimensions between panels and represent the recommended limit to be used in the design of the connector mounting method.
2. It is recommended that only one assembly, either pin or socket, be float mounted.
3. Standard pin assemblies contained 0,38 (.015) thick front shells on E and A sizes; 0,61 (.024) thick front shells on B, C, and D sizes.
4. Standard connectors accommodate a #4 screw. Float mount connectors accommodate a #2 screw.

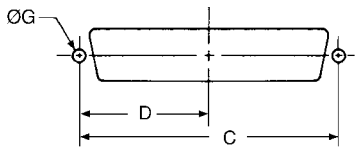
Dimensions are shown in mm (inch)
Dimensions subject to change

Panel Cutouts

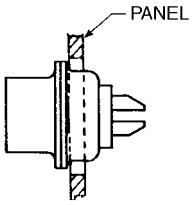
Standard Cutout



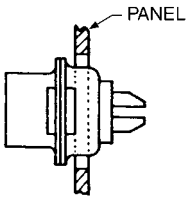
Rear Mounting Cutout (Optional)



Front Panel Mounting

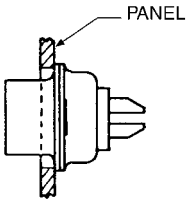


Standard Shell

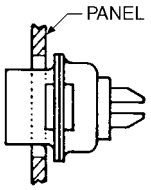


Dual Float Mount Shell

Rear Panel Mounting



Standard Shell



Dual Float Mount Shell

Standard Shell

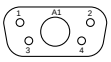
Shell Size	Mounting Method	A ±0,13 (.005)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,13 (.005)	F ±0,13 (.005)	G ±0,05 (.002)	H ±0,05 (.002)	J ±0,05 (.002)
DE	Front	22,19 (.874)	11,09 (.437)	24,99 (.984)	12,49 (.492)	13,03 (.513)	6,52 (.257)	3,04 (.120)	1,52 (.060)	2,10 (.083)
	Rear	20,47 (.806)	10,23 (.403)	24,99 (.984)	12,49 (.492)	11,40 (.449)	5,71 (.225)	3,04 (.120)	1,52 (.060)	3,35 (.132)
DA	Front	30,53 (1.202)	15,26 (.601)	33,32 (1.312)	16,66 (.656)	13,03 (.513)	6,52 (.257)	3,04 (.120)	1,52 (.060)	2,10 (.083)
	Rear	28,80 (1.134)	14,40 (.567)	33,32 (1.312)	16,66 (.656)	11,40 (.449)	5,71 (.225)	3,04 (.120)	1,52 (.060)	3,35 (.132)
DB	Front	44,27 (1.743)	22,14 (.872)	47,04 (1.852)	23,52 (.926)	13,03 (.513)	6,52 (.257)	3,04 (.120)	1,52 (.060)	2,10 (.083)
	Rear	42,51 (1.674)	21,25 (.837)	47,04 (1.852)	23,52 (.926)	11,40 (.449)	5,71 (.225)	3,04 (.120)	1,52 (.060)	3,35 (.132)
DC	Front	60,73 (2.391)	30,37 (1.196)	63,50 (2.500)	31,75 (1.250)	13,03 (.513)	6,52 (.257)	3,04 (.120)	1,52 (.060)	2,10 (.083)
	Rear	59,08 (2.326)	29,54 (1.163)	63,50 (2.500)	31,75 (1.250)	11,40 (.449)	5,71 (.225)	3,04 (.120)	1,52 (.060)	3,35 (.132)
DD	Front	58,34 (2.297)	29,18 (1.149)	61,11 (2.406)	30,55 (1.203)	15,82 (.623)	7,92 (.312)	3,04 (.120)	1,52 (.060)	2,10 (.083)
	Rear	56,33 (2.218)	28,16 (1.109)	61,11 (2.406)	30,55 (1.203)	14,09 (.555)	7,06 (.278)	3,04 (.120)	1,52 (.060)	3,35 (.132)

Dual Float Mount Shell

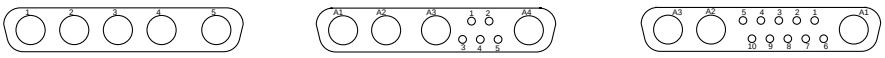
Shell Size	Mounting Method	A ±0,13 (.005)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,13 (.005)	F ±0,13 (.005)	G ±0,05 (.002)	H ±0,05 (.002)	J ±0,05 (.002)
DE	Front	23,01 (.906)	11,50 (.453)	24,99 (.984)	12,49 (.492)	13,84 (.545)	6,93 (.273)	2,23 (.088)	1,11 (.044)	2,10 (.083)
	Rear	21,28 (.838)	10,64 (.419)	24,99 (.984)	12,49 (.492)	12,21 (.481)	6,12 (.241)	2,23 (.088)	1,11 (.044)	3,35 (.132)
DA	Front	31,34 (1.234)	15,67 (.617)	33,32 (1.312)	16,66 (.656)	13,84 (.545)	6,93 (.273)	2,23 (.088)	1,11 (.044)	2,10 (.083)
	Rear	29,61 (1.166)	14,80 (.583)	33,32 (1.312)	16,66 (.656)	12,21 (.481)	6,12 (.241)	2,23 (.088)	1,11 (.044)	3,35 (.132)
DB	Front	45,08 (1.775)	22,55 (.888)	47,04 (1.852)	23,52 (.926)	13,84 (.545)	6,93 (.273)	2,23 (.088)	1,11 (.044)	2,10 (.083)
	Rear	43,33 (1.706)	21,66 (.853)	47,04 (1.852)	23,52 (.926)	12,21 (.481)	6,12 (.241)	2,23 (.088)	1,11 (.044)	3,35 (.132)
DC	Front	61,54 (2.423)	30,78 (1.212)	63,50 (2.500)	31,75 (1.250)	13,84 (.545)	6,93 (.273)	2,23 (.088)	1,11 (.044)	2,10 (.083)
	Rear	59,79 (2.354)	29,89 (1.177)	63,50 (2.500)	31,75 (1.250)	12,21 (.481)	6,12 (.241)	2,23 (.088)	1,11 (.044)	3,35 (.132)
DD	Front	59,15 (2.329)	29,59 (1.165)	61,11 (2.406)	30,55 (1.203)	16,63 (.655)	8,33 (.328)	2,23 (.088)	1,11 (.044)	2,10 (.083)
	Rear	57,15 (2.250)	28,57 (1.125)	61,11 (2.406)	30,55 (1.203)	14,90 (.587)	7,46 (.294)	2,23 (.088)	1,11 (.044)	3,35 (.132)

Plug Contact Cavity Arrangements — Combo D®

Face View Pin Insert

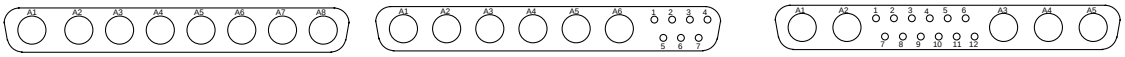


Shell Size	E	A	A	A	A
Contact Arrangment	5W1	3W3	3WK3	7W2	11W1
No. of Size 20 Cavities	4 #20	0 #20	0	5 #20	10 #20
No. of Size 8 Cavities	1 #8	3 #8	3	2 #8	1 #8

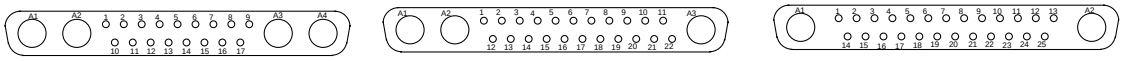


Shell Size	B	B	B
Contact Arrangement	5W5	9W4	13W3
No. of Size 20 Cavities	0 #20	5 #20	10 #20
No. of Size 8 Cavities	5 #8	4 #8	3 #8

Shell Size	B	B
Contact Arrangement	17W2	21W1
No. of Size 20 Cavities	15 #20	20 #20
No. of Size 8 Cavities	2 #8	1 #8



Shell Size	C	C	C
Contact Arrangement	8W8	13W6	17W5
No. of Size 20 Cavities	0 #20	7 #20	12 #20
No. of Size 8 Cavities	8 #8	6 #8	5 #8



Shell Size	C	C	C
Contact Arrangement	21WA4	25W3	27W2
No. of Size 20 Cavities	17 #20	22 #20	25 #20
No. of Size 8 Cavities	4 #8	3 #8	2 #8

Shell Size	D	D
Contact Arrangement	24W7	36W4
No. of Size 20 Cavities	17 #20	32 #20
No. of Size 8 Cavities	7 #8	4 #8

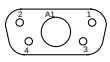
Shell Size	D	D
Contact Arrangement	43W2	47W1
No. of Size 20 Cavities	41 #20	46 #20
No. of Size 8 Cavities	2 #8	1 #8

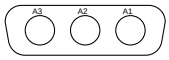
Note: Size 8 Cavities will Accommodate Removable Coaxial, High Power and/or High Voltage Contacts.

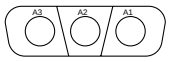
Dimensions are shown in mm (inch)
Dimensions subject to change

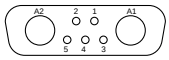
Receptacle Contact Cavity Arrangements — Combo D®

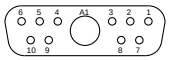
Face View Socket Insert



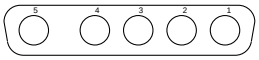


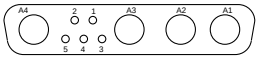


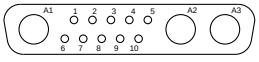




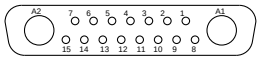
Shell Size	E	A	A	A	A
Contact Arrangement	5W1	3W3	3WK3	7W2	11W1
No. of Size 20 Cavities	4 #20	0 #20	0	5 #20	10 #20
No. of Size 8 Cavities	1 #8	3 #8	3	2 #8	1 #8

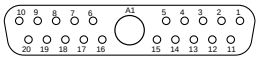




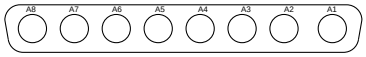


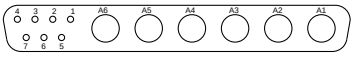
Shell Size	B	B	B
Contact Arrangement	5W5	9W4	13W3
No. of Size 20 Cavities	0 #20	5 #20	10 #20
No. of Size 8 Cavities	5 #8	4 #8	3 #8

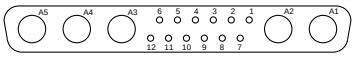




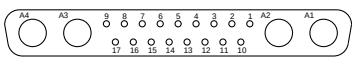
Shell Size	B	B
Contact Arrangement	17W2	21W1
No. of Size 20 Cavities	15 #20	20 #20
No. of Size 8 Cavities	2 #8	1 #8

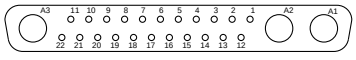


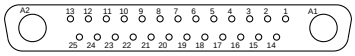




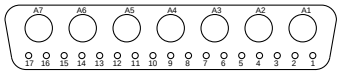
Shell Size	C	C	C
Contact Arrangement	8W8	13W6	17W5
No. of Size 20 Cavitites	0 #20	7 #20	12 #20
No. of Size 8 Cavities	8 #8	6 #8	5 #8

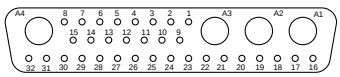




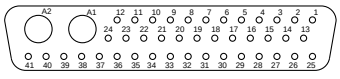


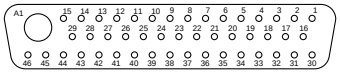
Shell Size	C	C	C
Contact Arrangement	21WA4	25W3	27W2
No. of Size 20 Cavities	17 #20	22 #20	25 #20
No. of Size 8 Cavities	4 #8	3 #8	2 #8





Shell Size	D	D
Contact Arrangement	24W7	36W4
No. of Size 20 Contacts	17 #20	32 #20
No. of Size 8 Contacts	7 #8	4 #8



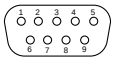


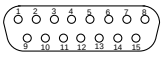
Shell Size	D	D
Contact Arrangement	43W2	47W1
No. of Size 20 Cavities	41 #20	46 #20
No. of Size 8 Cavities	2 #8	1 #8

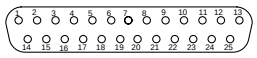
Note: Size 8 Cavities will Accommodate Removable Coaxial, High Power and/or High Voltage Contacts.

Plug Contact Cavity Arrangements

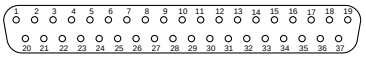
Face View Pin Insert

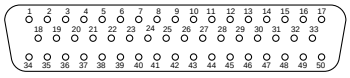






Shell Size	E	A	B
Contact Arrangement	9	15	25
Contact Size	#20	#20	#20

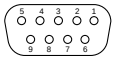


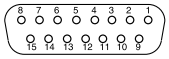


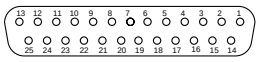
Shell Size	C	D
Contact Arrangement	37	50
Contact Size	#20	#20

Receptacle Contact Cavity Arrangements

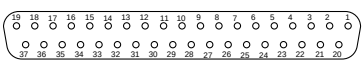
Face View Socket Insert

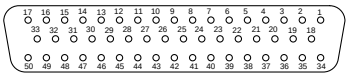






Shell Size	E	A	B
Contact Arrangement	9	15	25
Contact Size	#20	#20	#20





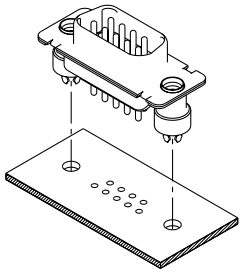
Shell Size	C	D
Contact Arrangement	37	50
Contact Size	#20	#20

ITT Cannon

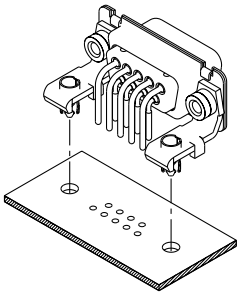
Dimensions are shown in mm (inch)
Dimensions subject to change

Pushfit/Boardlock — Standard

Straight (Z)

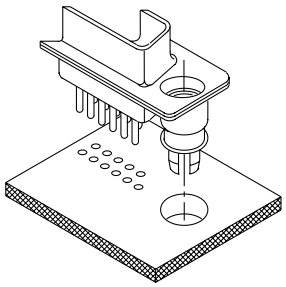


90° (C)

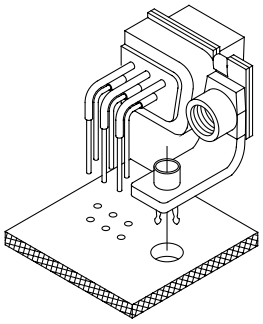


Pushfit/Boardlock — European

Straight (-146)

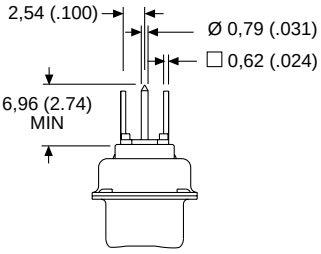


90° (-146)

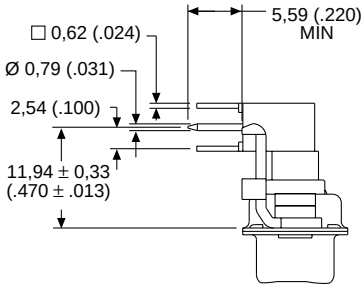


Alternate 50 Ohm Coaxial Configuration

Straight (X)

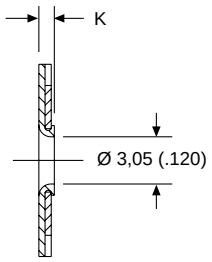


90° (X)

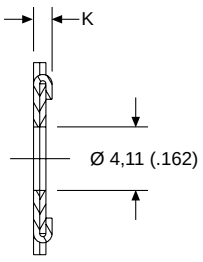


Hardware Views (Standard)

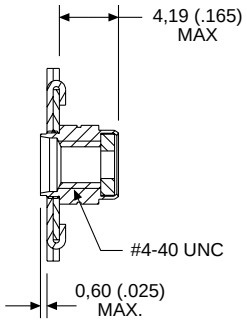
Through Hole (Eyelet)



Tab Shells (K)



Clinch Nut (E)



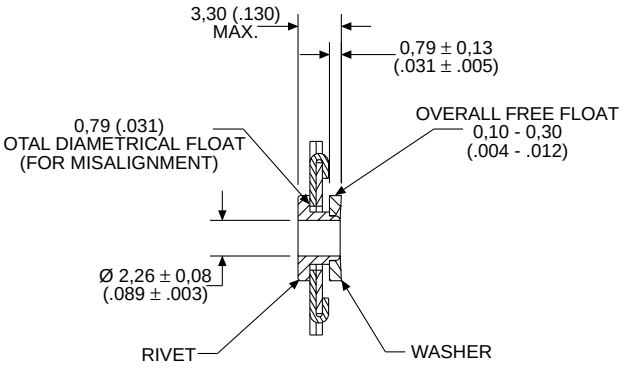
Dimensions — Plug

Shell Size	K ±0,317 (.0125)	K ±0,25 (.010)
DE	1,206 (.0475)	—
DA	1,206 (.0475)	—
DB	—	1,52 (.060)
DC	—	1,52 (.060)
DD	—	1,52 (.060)

Dimensions — Receptacle

Shell Size	K ±0,318 (.0125)
DE	1,206 (.0475)
DA	1,206 (.0475)
DB	1,206 (.0475)
DC	1,206 (.0475)
DD	1,206 (.0475)

Dual Float Mount (Y)



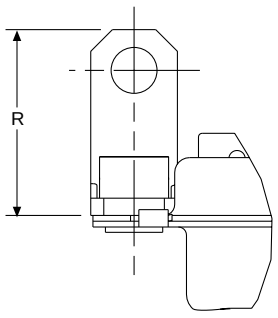
Alternate Bracket Configuration

Supplied with connectors without boardlocks.

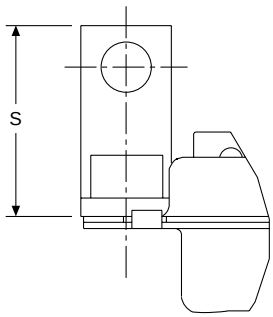
Dimensions

Shell Size	R ±0,25 (.010)	S ±0,25 (.010)
DE, DA, DB, DC	11,61 (.457)	12,78 (.503)
DD	12,78 (.503)	13,95 (.549)

Standard Footprint (P)

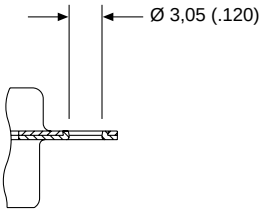


European Footprint (P)

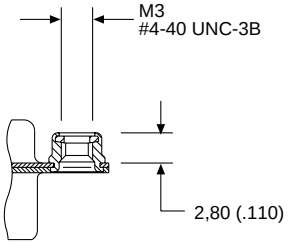


Hardware Views (European)

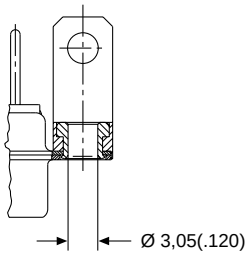
Through Hole



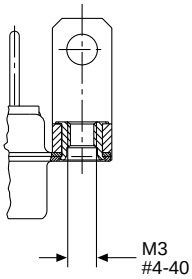
Clinch Nut (X/E)



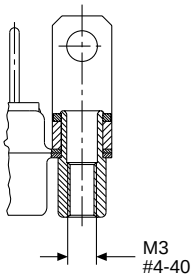
Plastic Bracket with Bushing (1A5N)



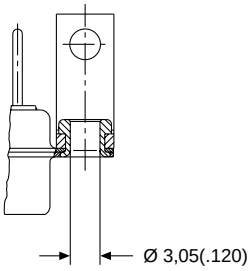
Plastic Bracket with Captive Nut (1ATN/1AVN)



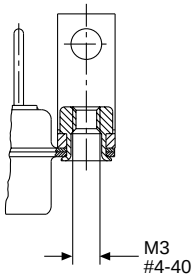
Plastic Bracket with Post (1APN/1A6N)



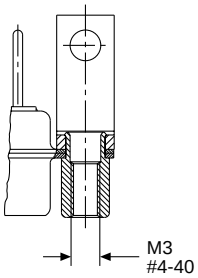
Metal Bracket with Bushing (1AFN)



Metal Bracket with Captive Nut (1A9N/1A7N)

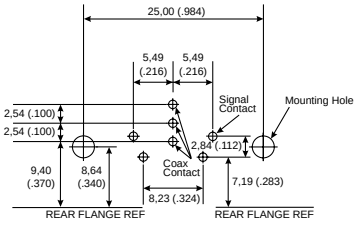


Metal Bracket with Post (1AHN/1A8N)

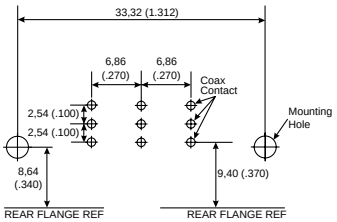


Reader's Resource

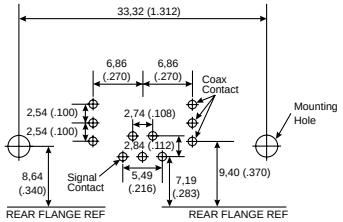
Dimensions are shown in mm (inch)
Dimensions subject to change



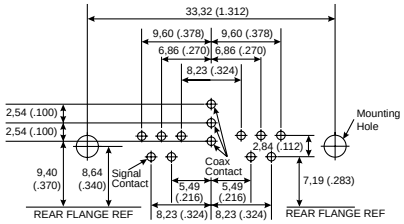
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



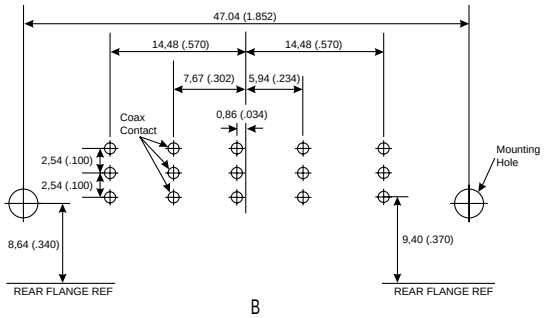
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



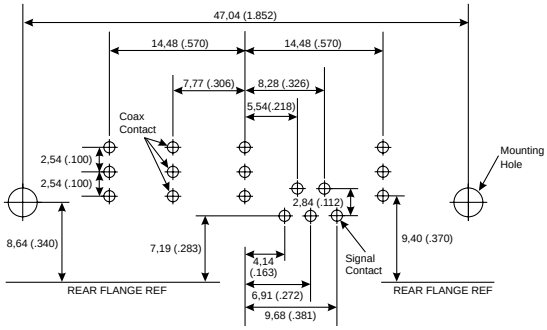
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



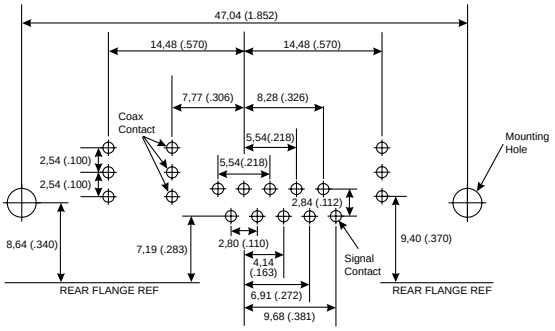
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



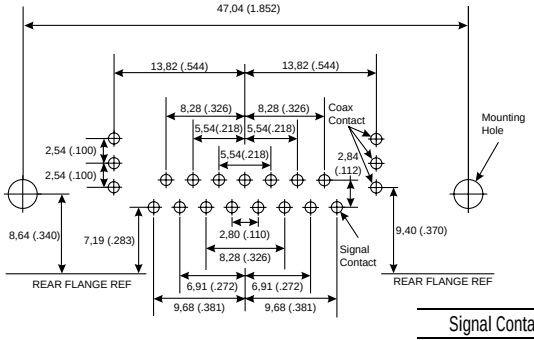
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8

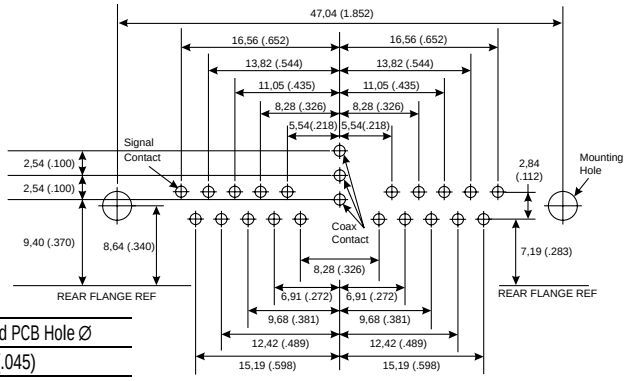


Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

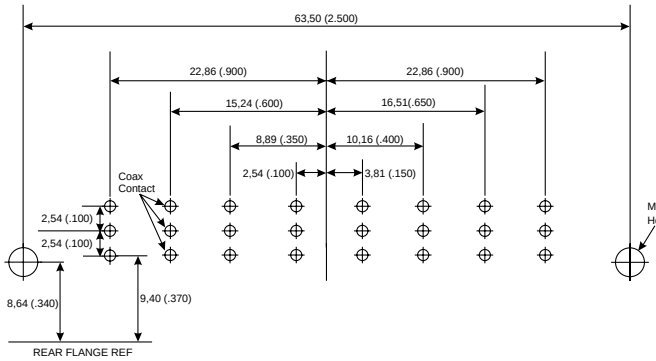
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

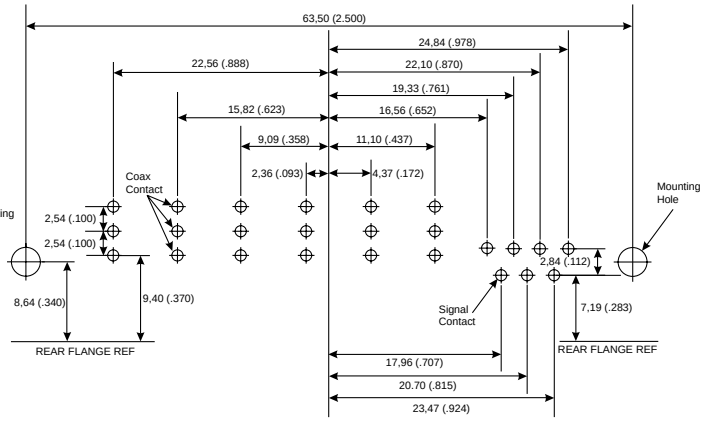
Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)



Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

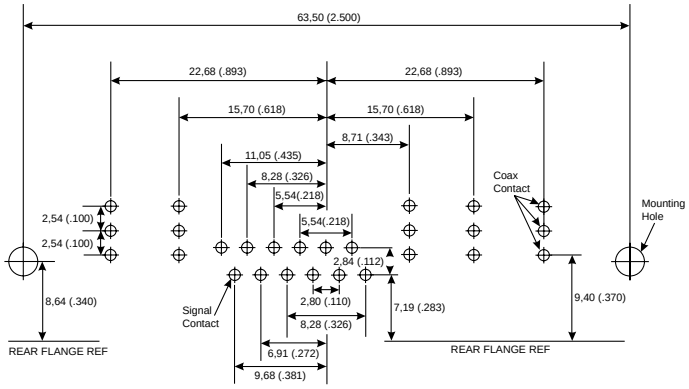
Dimensions are shown in mm (inch)
Dimensions subject to change

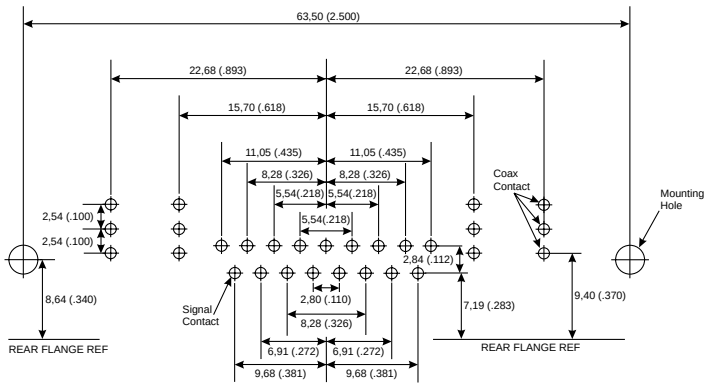




Shell Size	C
Contact Arrangement	8W8
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	8 #8

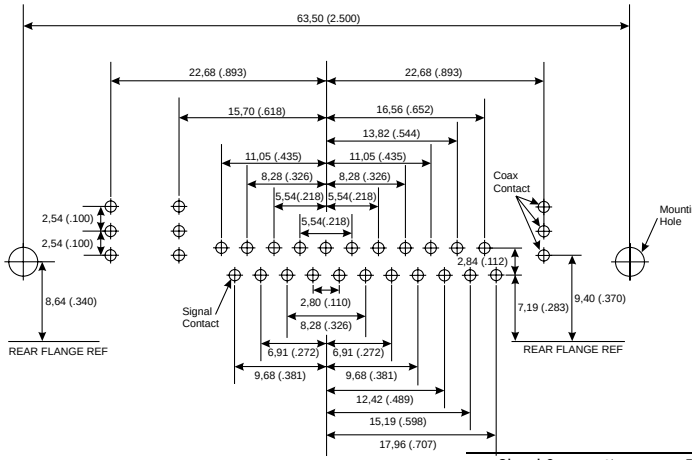
C
13W6
7 #20
6 #8

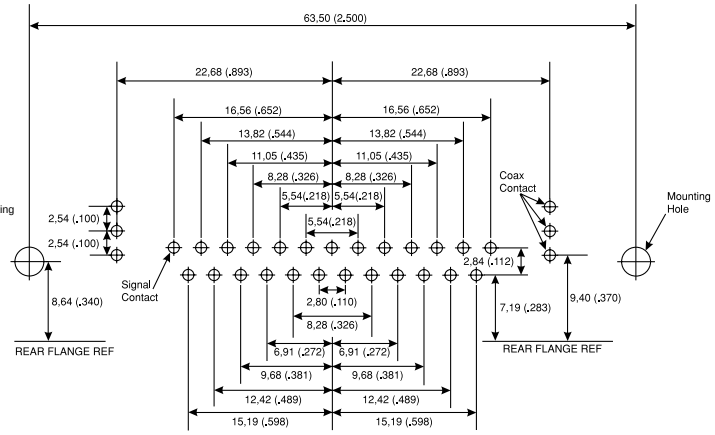




Shell Size	C
Contact Arrangement	17W5
No. of Size 20 Cavities	12 #20
No. of Size 8 Cavities	5 #8

C
21WA4
17 #20
4 #8





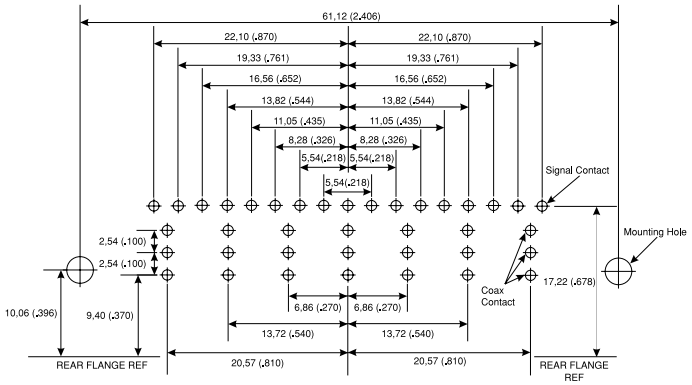
Shell Size	C
Contact Arrangement	25W3
No. of Size 20 Cavities	22 #20
No. of Size 8 Cavities	3 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

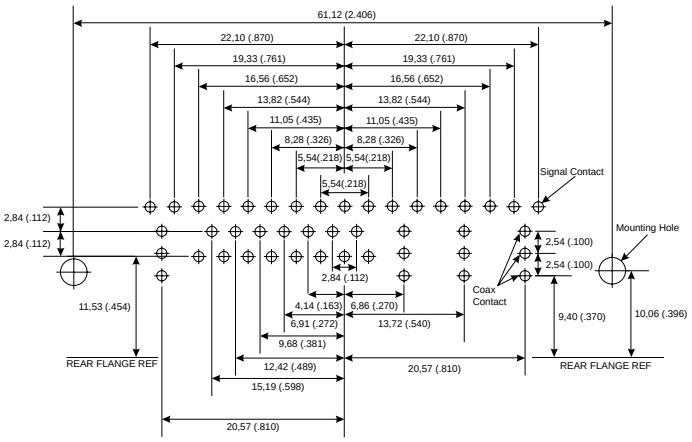
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

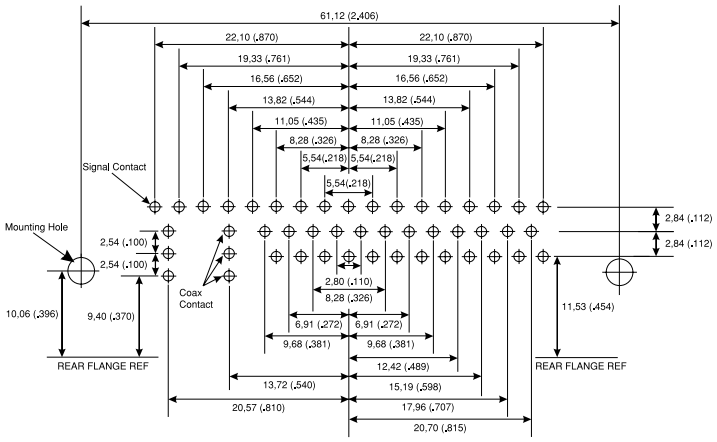
C
27W2
25 #20
2 #8



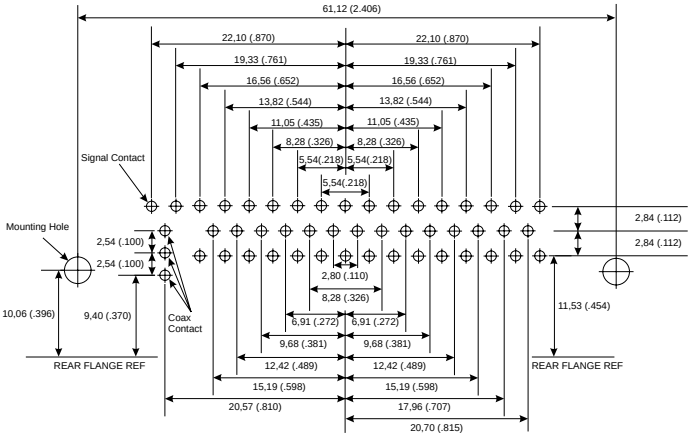
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	7 #8



Shell Size	D
Contact Arrangement	36W4
No. of Size 20 Cavities	32 #20
No. of Size 8 Cavities	4 #8



Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	2 #20



Shell Size	D
Contact Arrangement	47W1
No. of Size 20 Cavities	46 #20
No. of Size 8 Cavities	1 #20

Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

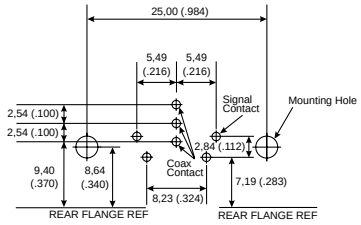
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

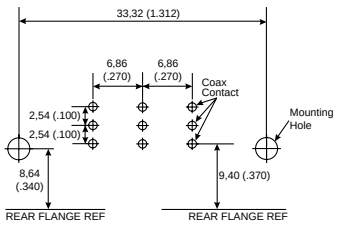
Dimensions are shown in mm (inch)
Dimensions subject to change

PCB Hole Pattern — Standard

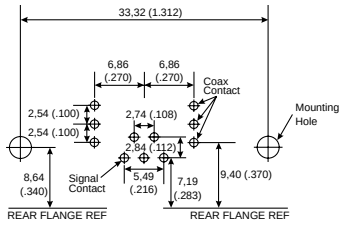
Coaxial 90° — Receptacle



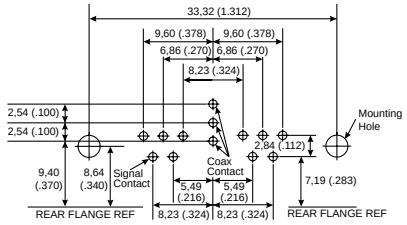
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



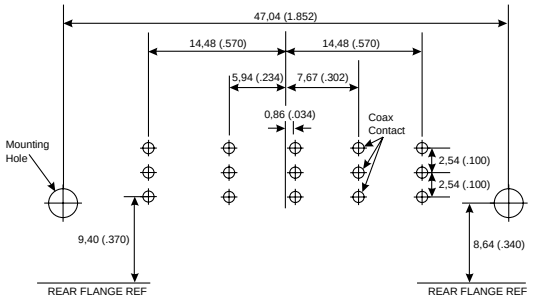
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



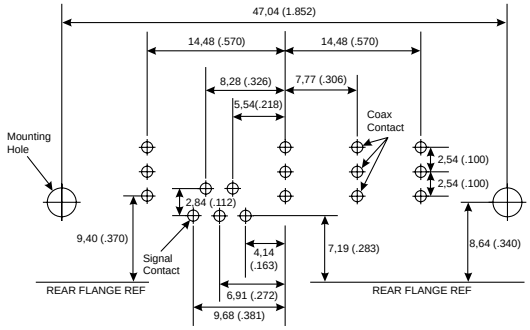
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



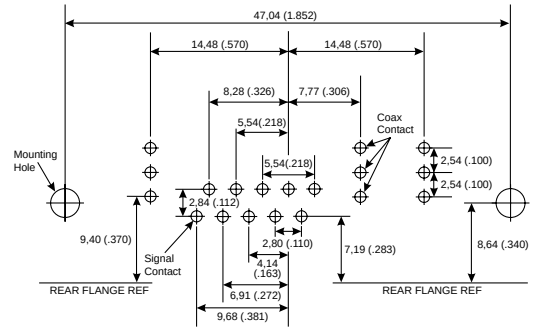
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



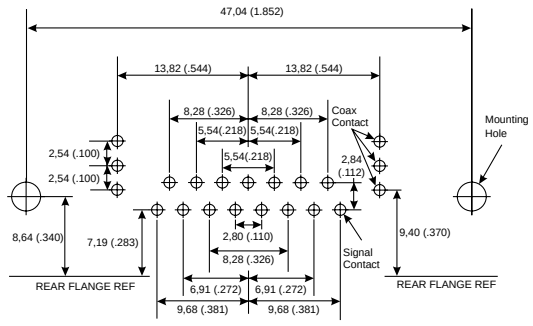
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



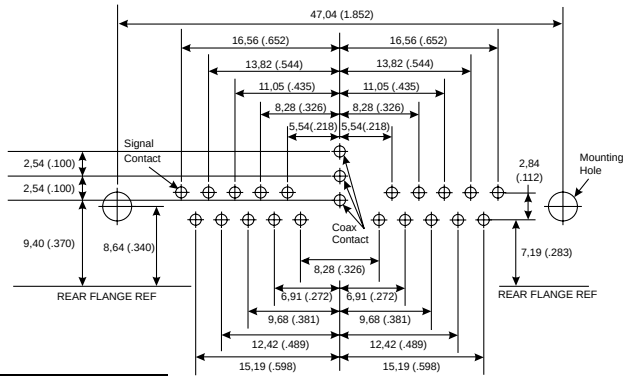
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8



Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

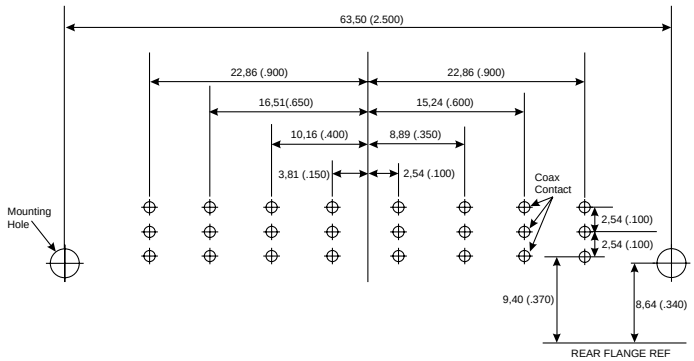
Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

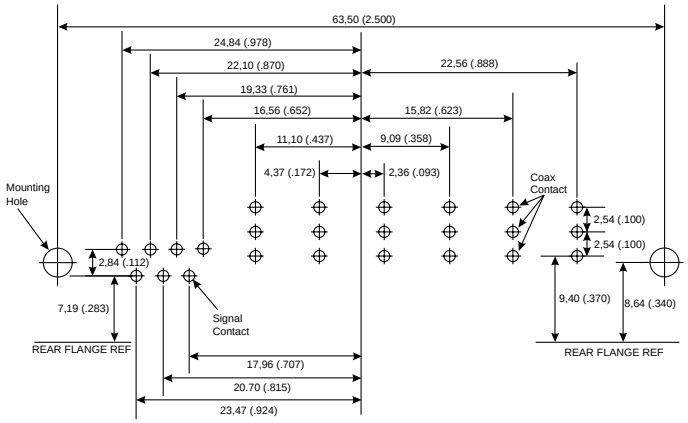
Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

Reader's Resource

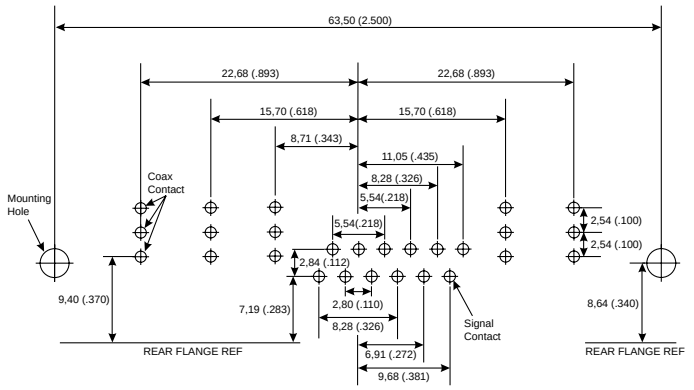
Dimensions are shown in mm (inch)
Dimensions subject to change



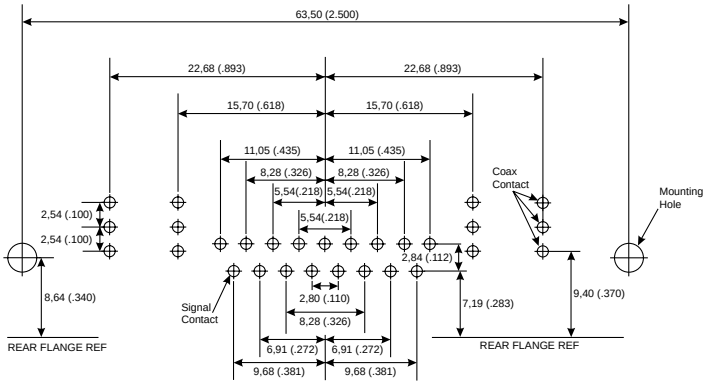
Shell Size	C
Contact Arrangement	8W8
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	8 #8



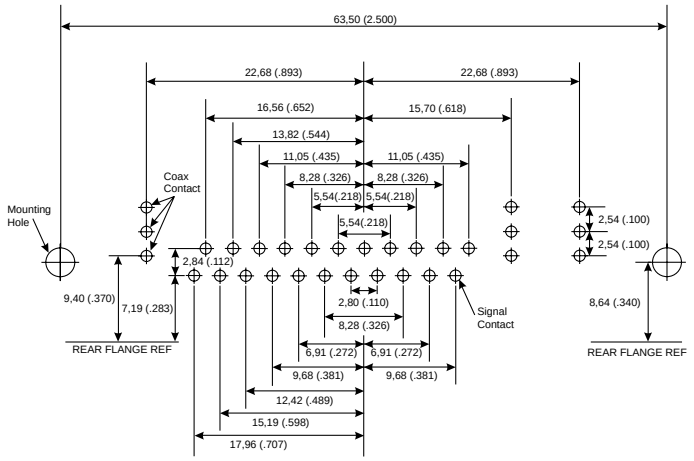
Shell Size	C
Contact Arrangement	13W6
No. of Size 20 Cavities	7 #20
No. of Size 8 Cavities	6 #8



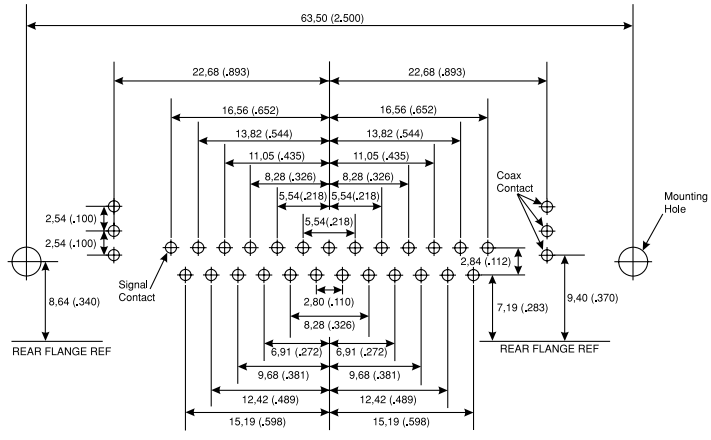
Shell Size	C
Contact Arrangement	17W5
No. of Size 20 Cavities	12 #20
No. of Size 8 Cavities	5 #8



Shell Size	C
Contact Arrangement	21WA4
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	4 #8



Shell Size	C
Contact Arrangement	25W3
No. of Size 20 Cavities	22 #20
No. of Size 8 Cavities	3 #8



Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

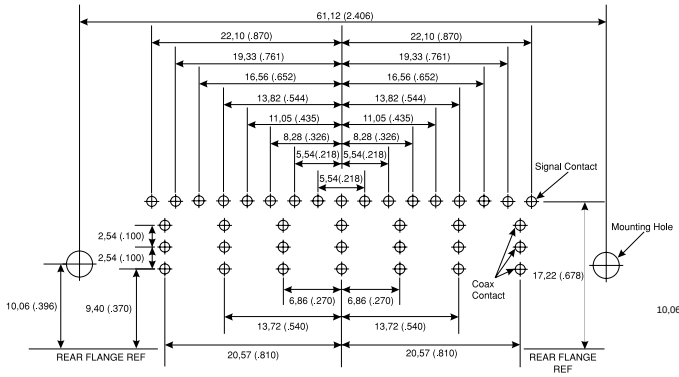
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

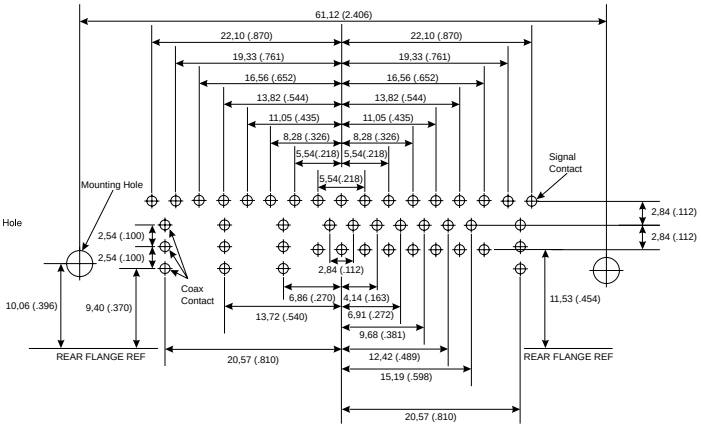
C
27W2
25 #20
2 #8

ITT Cannon

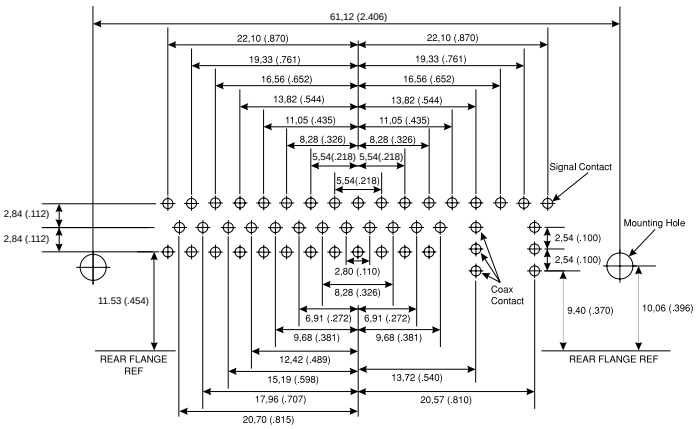
Dimensions are shown in mm (inch)
Dimensions subject to change



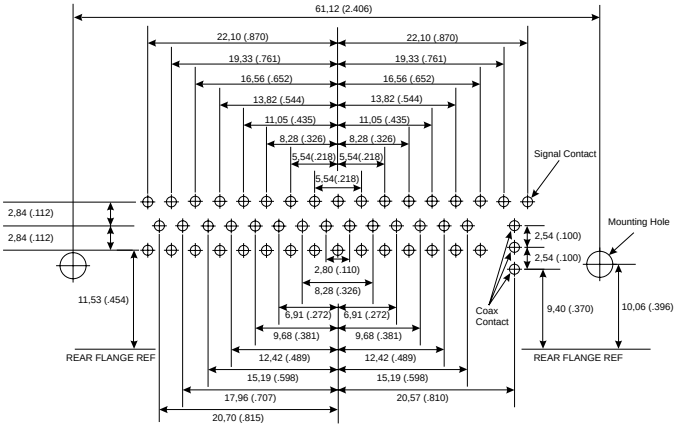
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	7 #8



Shell Size	D
Contact Arrangement	36W4
No. of Size 20 Cavities	32 #20
No. of Size 8 Cavities	4 #8



Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	2 #8



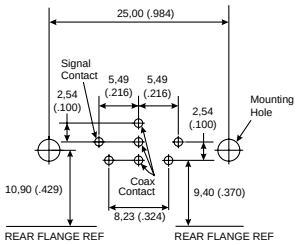
Shell Size	D
Contact Arrangement	47W1
No. of Size 20 Cavities	46 #20
No. of Size 8 Cavities	1 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

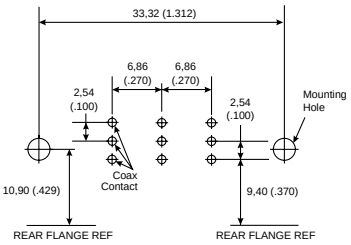
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

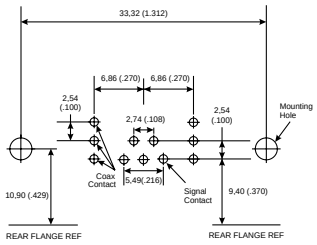
Reader's Resource



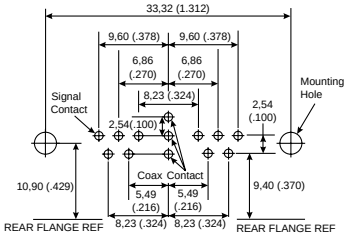
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



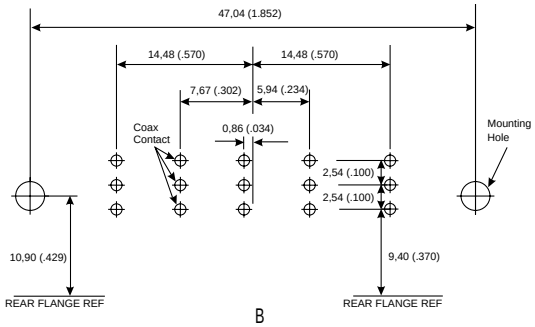
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



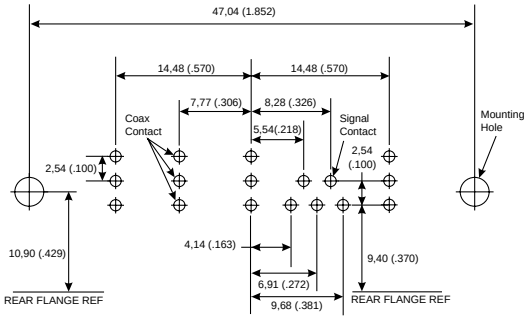
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



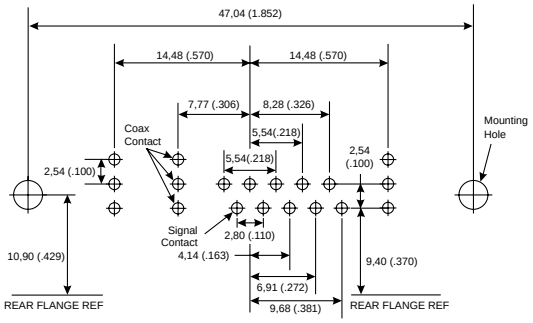
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



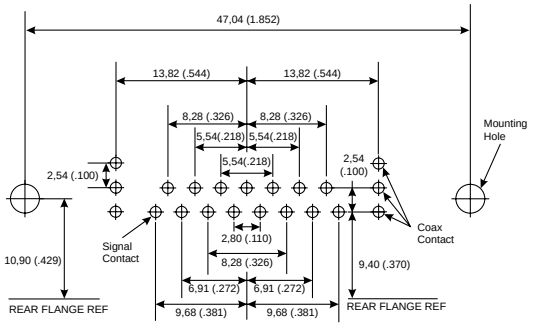
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



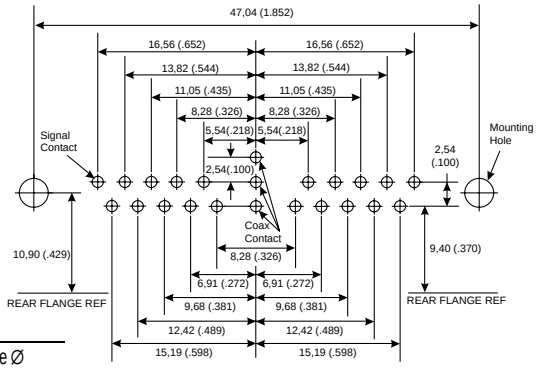
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8



Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

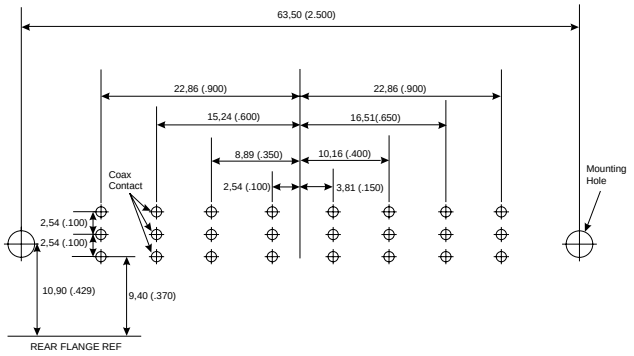
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

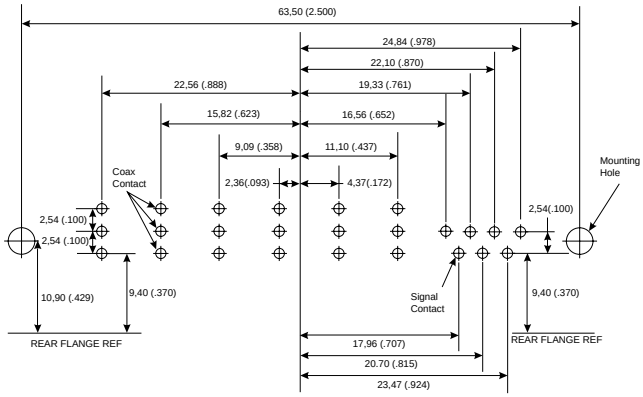
Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

ITT Cannon

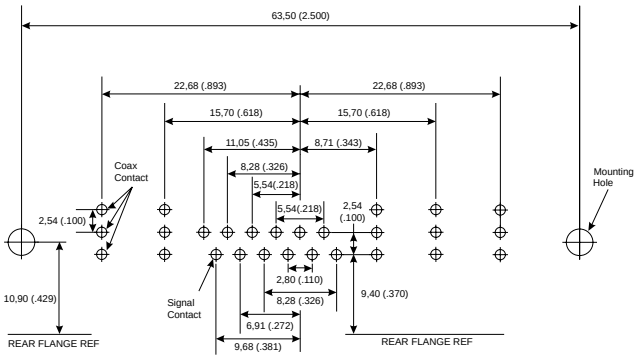
Dimensions are shown in mm (inch)
Dimensions subject to change



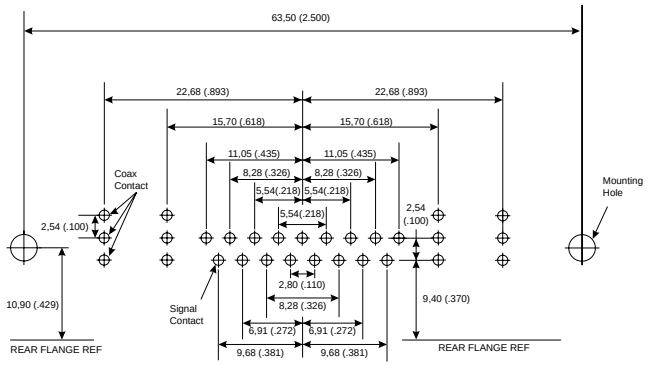
Shell Size	C
Contact Arrangement	8W8
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	8 #8



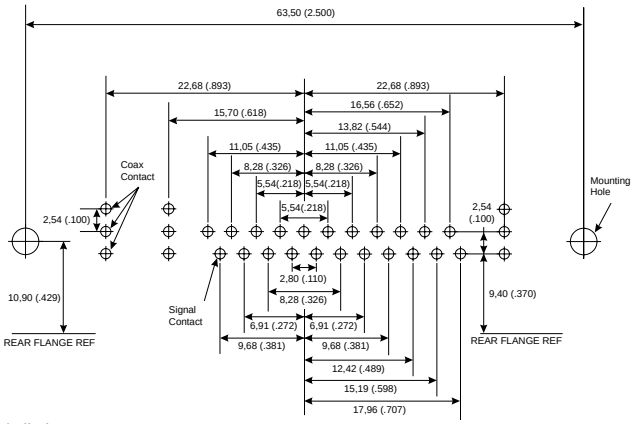
C	
13W6	
7 #20	
6 #8	



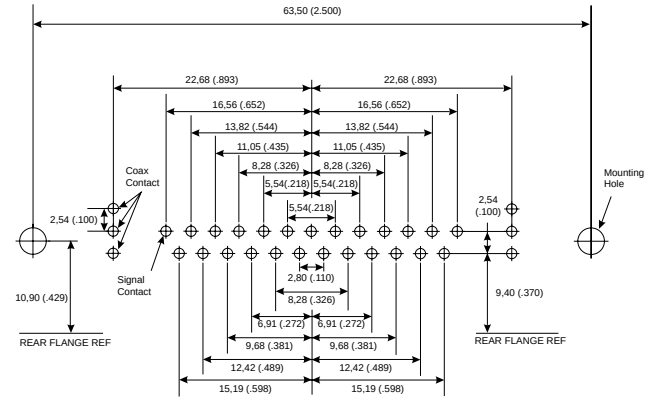
Shell Size	C
Contact Arrangement	17W5
No. of Size 20 Cavities	12 #20
No. of Size 8 Cavities	5 #8



C	
21WA4	
17 #20	
4 #8	



Shell Size	C
Contact Arrangement	25W3
No. of Size 20 Cavities	22 #20
No. of Size 8 Cavities	3 #8



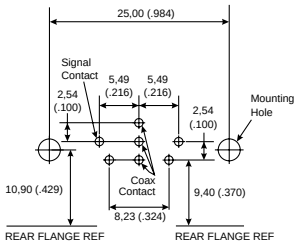
C	
27W2	
25 #20	
2 #8	

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

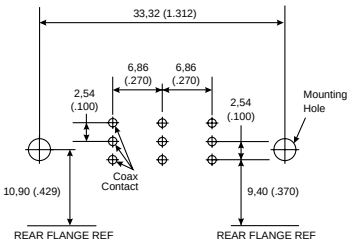
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

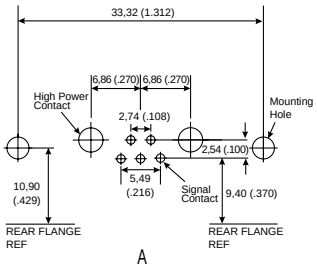
Reader's Resource



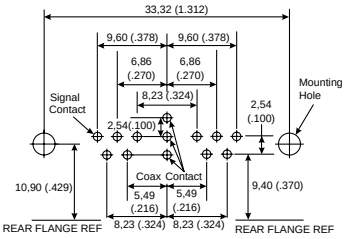
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



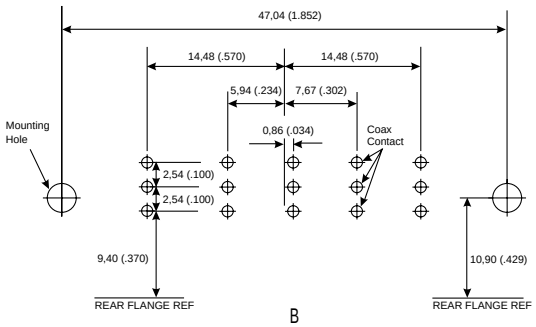
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



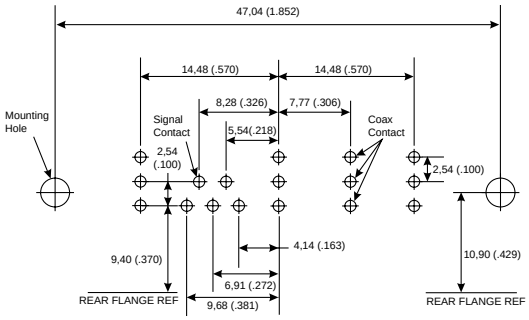
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



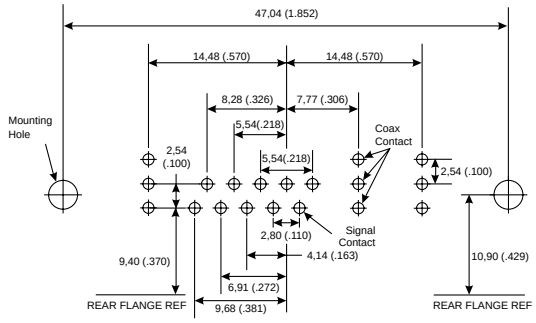
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



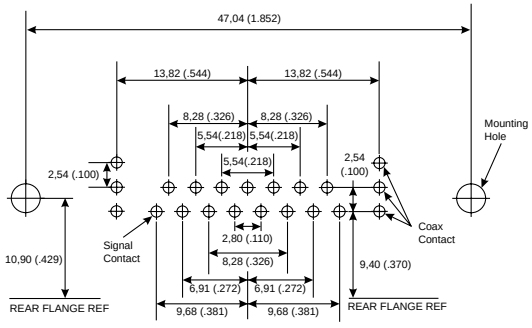
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



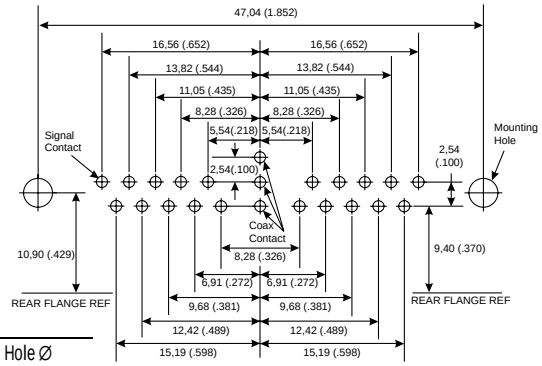
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8



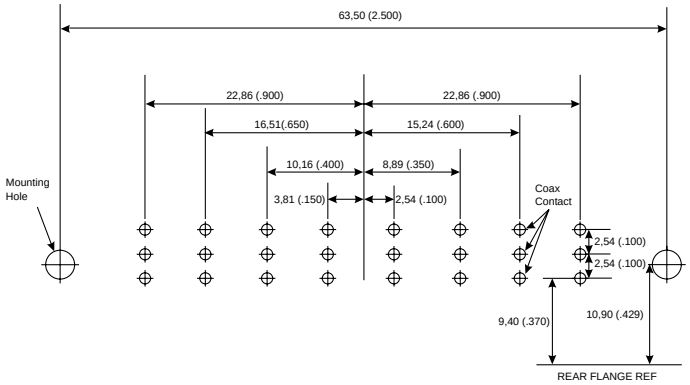
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

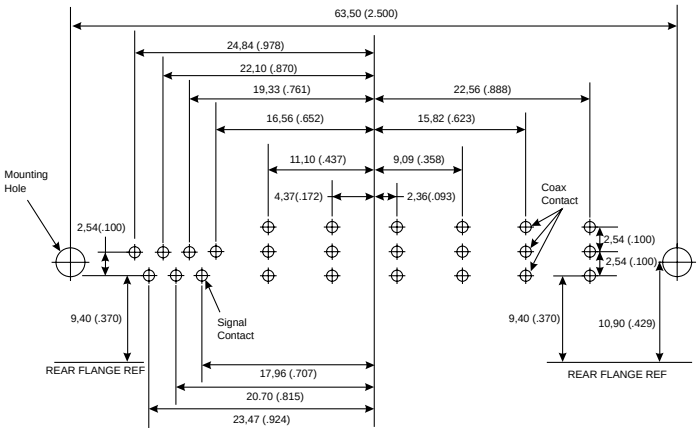
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

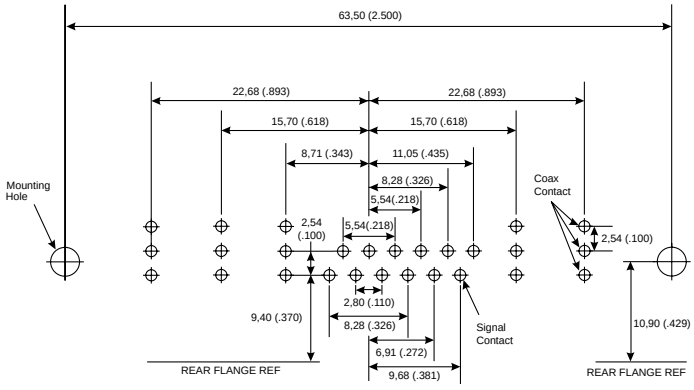
Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

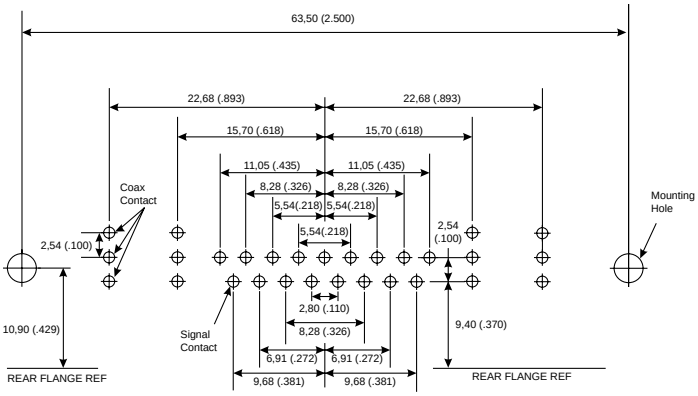
Dimensions are shown in mm (inch)
Dimensions subject to change



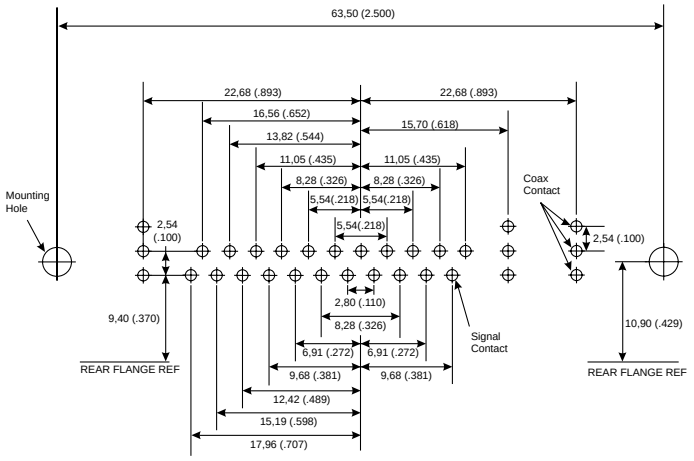


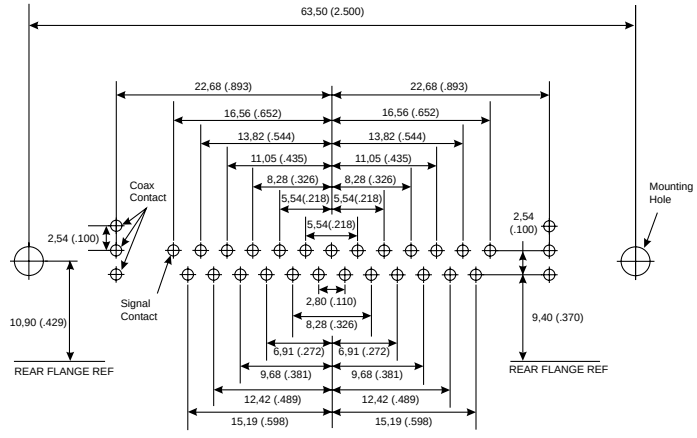
Shell Size	C	C
Contact Arrangement	8W8	13W6
No. of Size 20 Cavities	0 #20	7 #20
No. of Size 8 Cavities	8 #8	6 #8





Shell Size	C	C
Contact Arrangement	17W5	21WA4
No. of Size 20 Cavities	12 #20	17 #20
No. of Size 8 Cavities	5 #8	4 #8





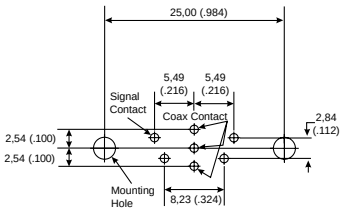
Shell Size	C	C
Contact Arrangement	25W3	27W2
No. of Size 20 Cavities	22 #20	25 #20
No. of Size 8 Cavities	3 #8	2 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

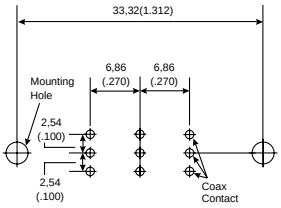
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

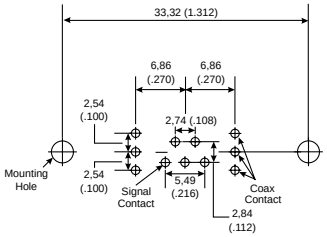
Reader's Resource



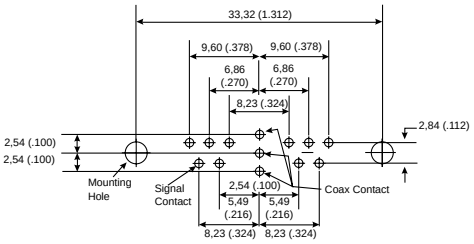
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



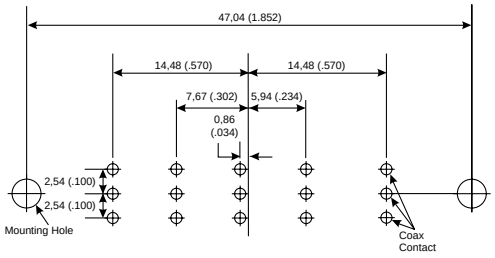
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



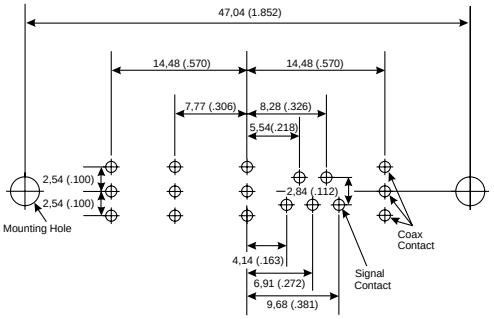
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



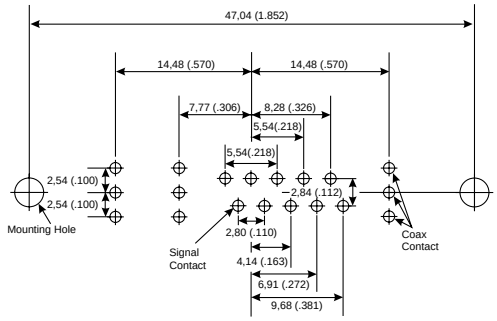
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



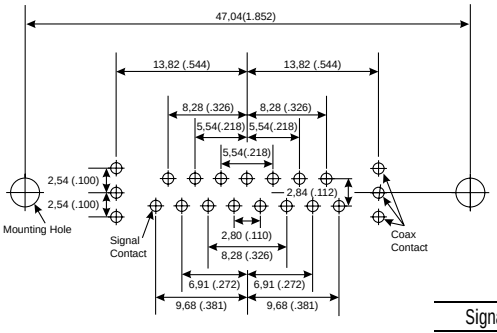
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



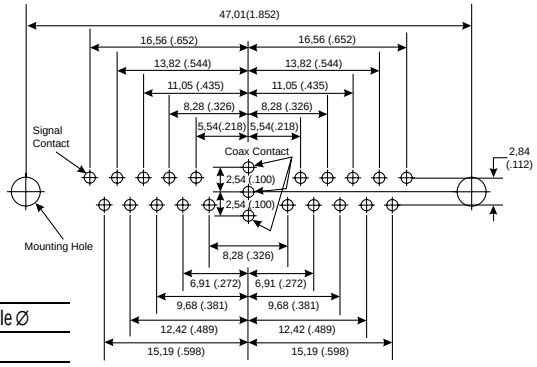
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8



Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

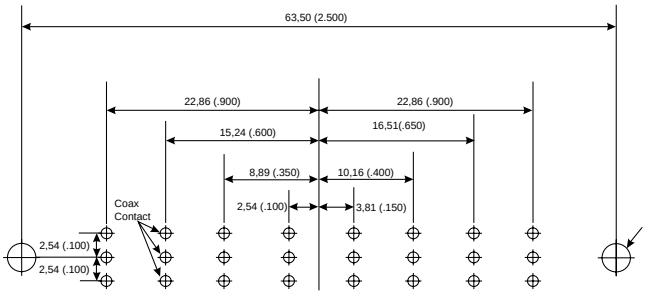
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

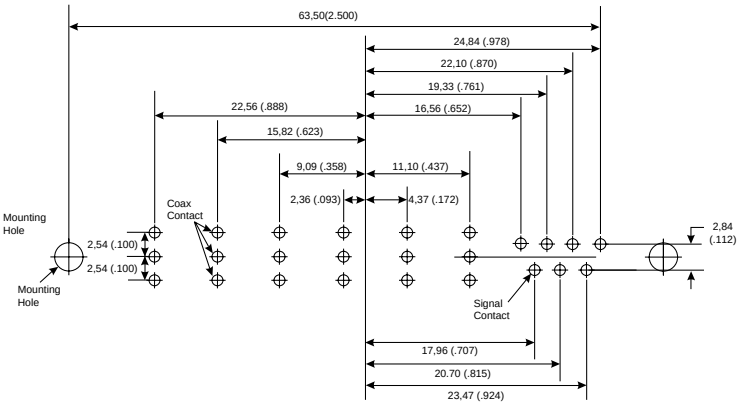
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

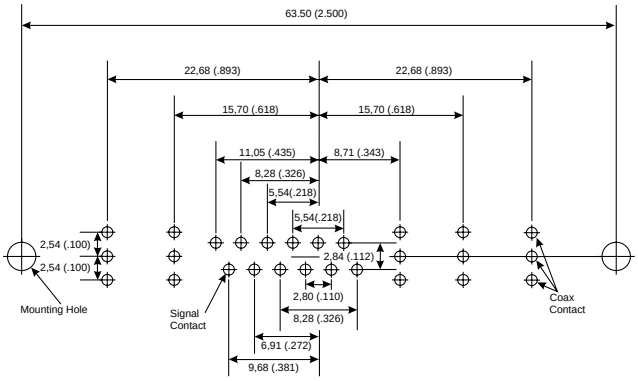
ITT Cannon

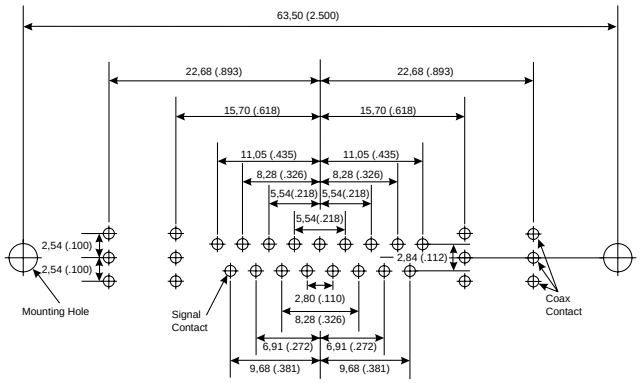
Dimensions are shown in mm (inch)
Dimensions subject to change



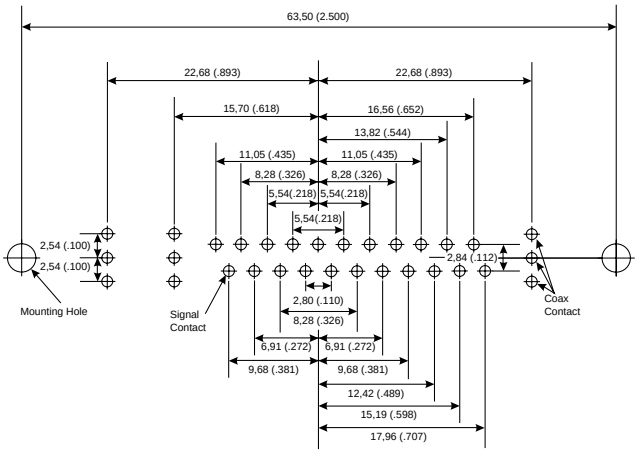


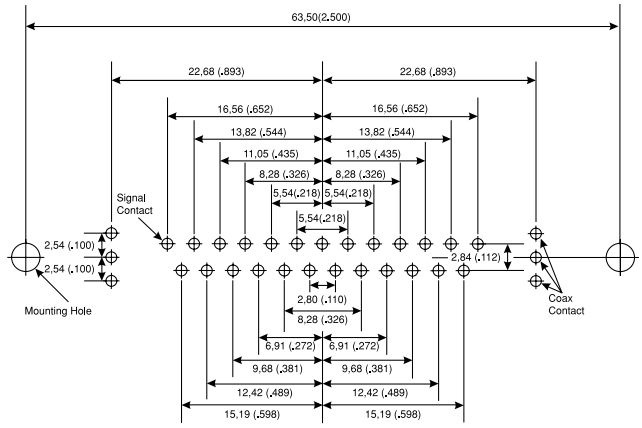
Shell Size	C	C
Contact Arrangement	8W8	13W6
No. of Size 20 Cavities	0 #20	7 #20
No. of Size 8 Cavities	8 #8	6 #8





Shell Size	C	C
Contact Arrangement	17W5	21WA4
No. of Size 20 Cavities	12 #20	17 #20
No. of Size 8 Cavities	5 #8	4 #8





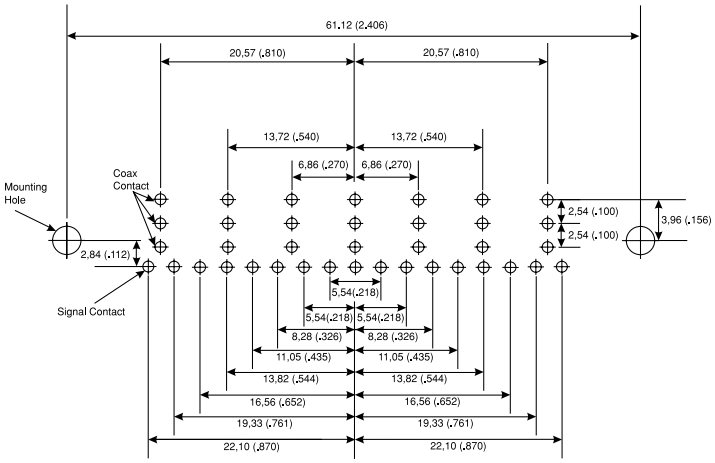
Shell Size	C	C
Contact Arrangement	25W3	27W2
No. of Size 20 Cavities	22 #20	25 #20
No. of Size 8 Cavities	3 #8	2 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

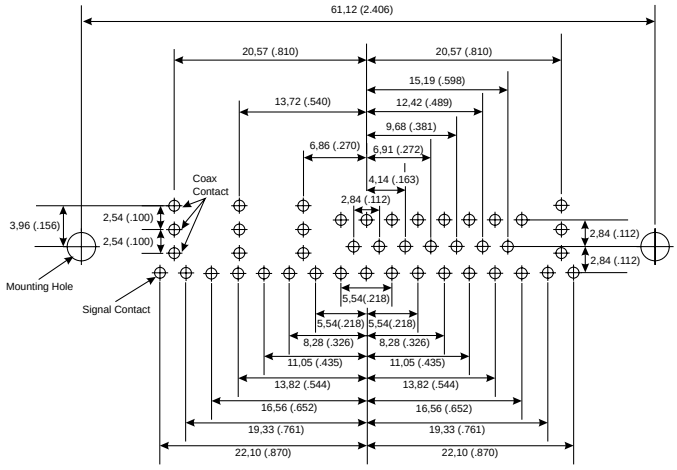
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

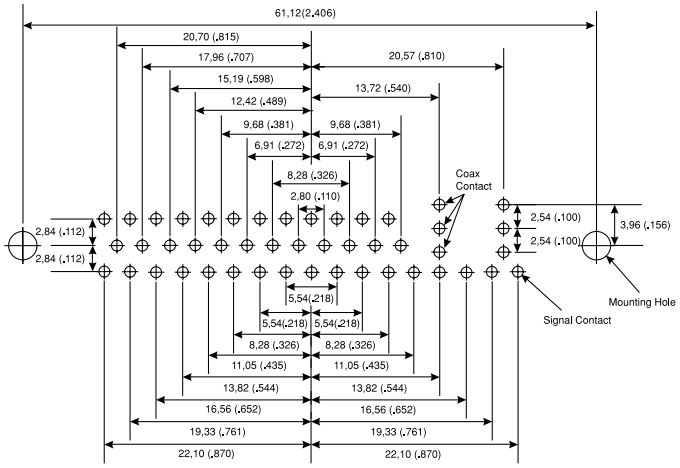
Reader's Resource



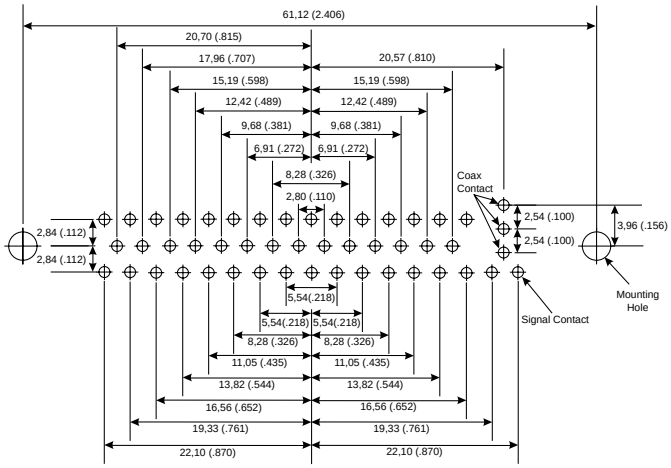
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	7 #8



D	
36W4	
32 #20	
4 #8	



Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	2 #8



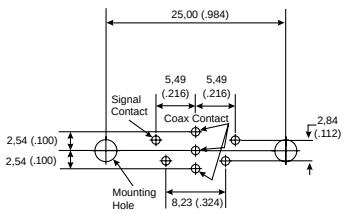
D	
47W1	
46 #20	
1 #8	

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

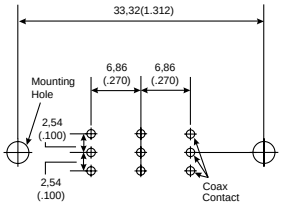
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

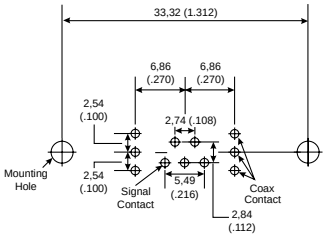
Dimensions are shown in mm (inch)
Dimensions subject to change



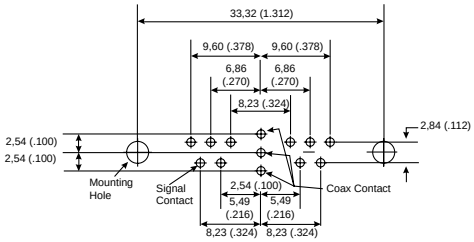
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



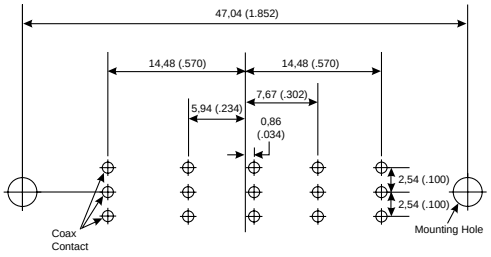
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



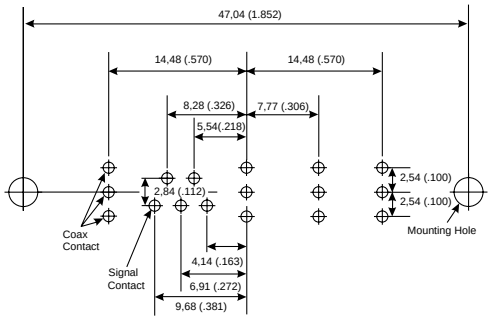
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



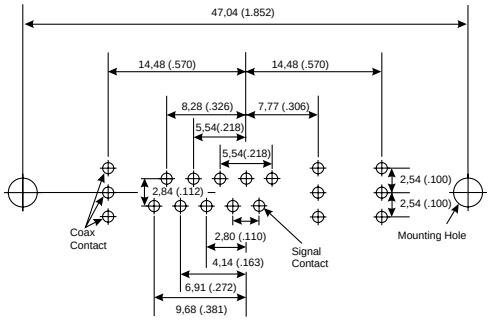
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



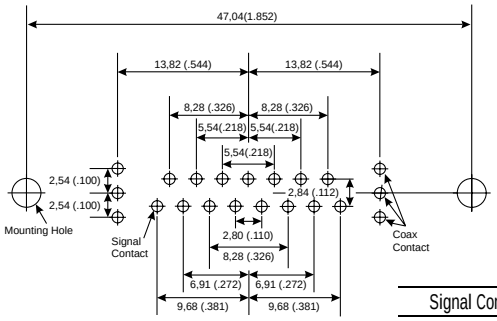
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



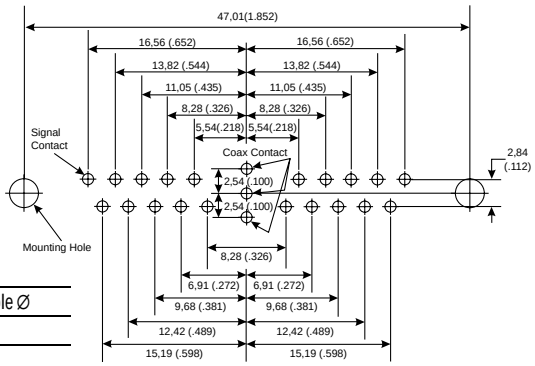
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8

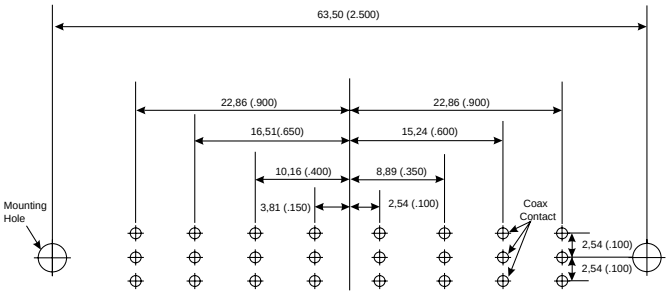


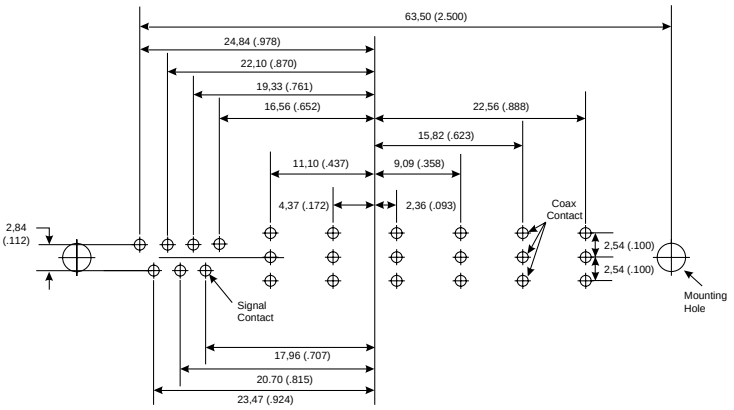
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

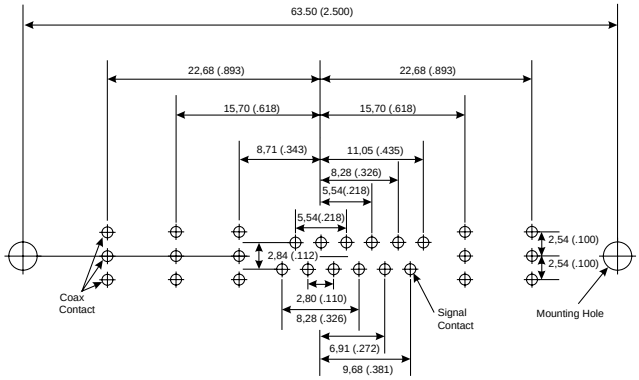
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

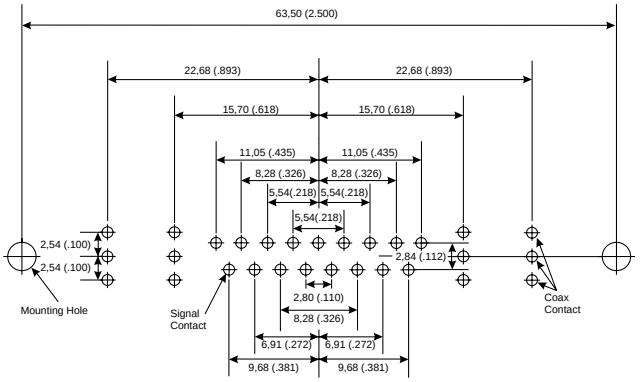
Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)



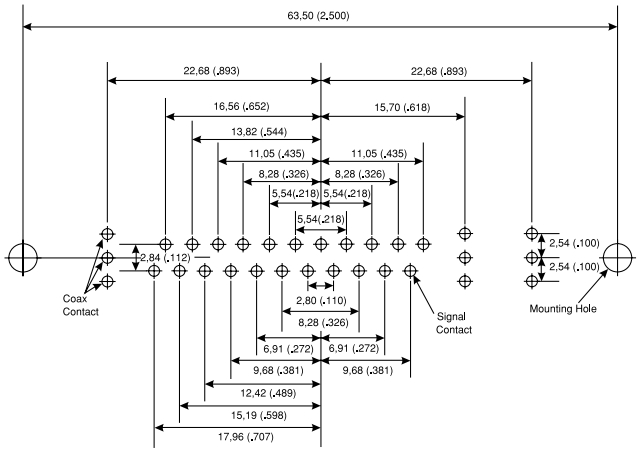


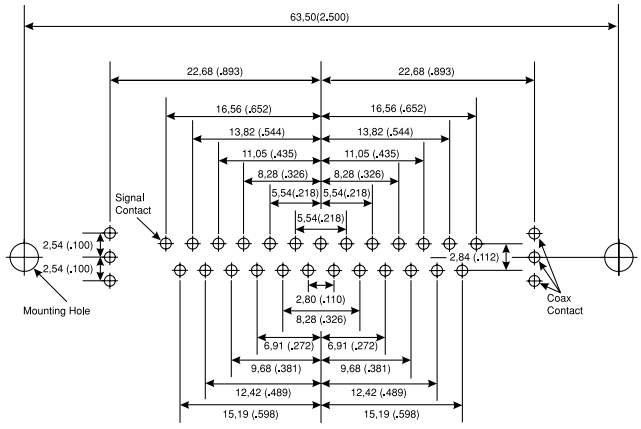
Shell Size	C	C
Contact Arrangement	8W8	13W6
No. of Size 20 Cavities	0 #20	7 #20
No. of Size 8 Cavities	8 #8	6 #8





Shell Size	C	C
Contact Arrangement	17W5	21WA4
No. of Size 20 Cavities	12 #20	17 #20
No. of Size 8 Cavities	5 #8	4 #8





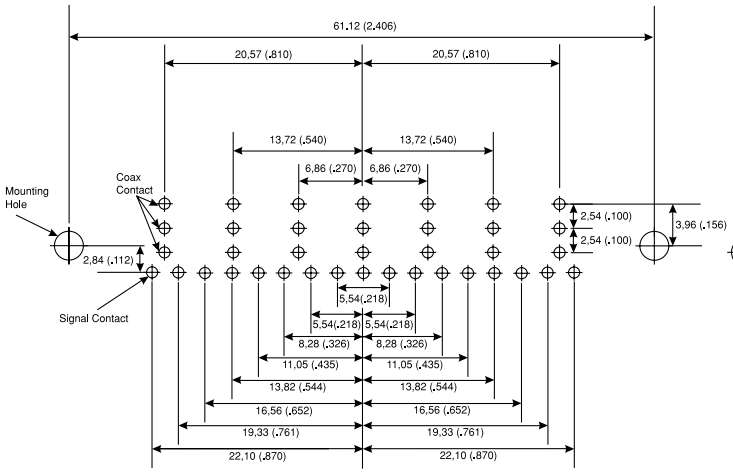
Shell Size	C	C
Contact Arrangement	25W3	27W2
No. of Size 20 Cavities	22 #20	25 #20
No. of Size 8 Cavities	3 #8	2 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

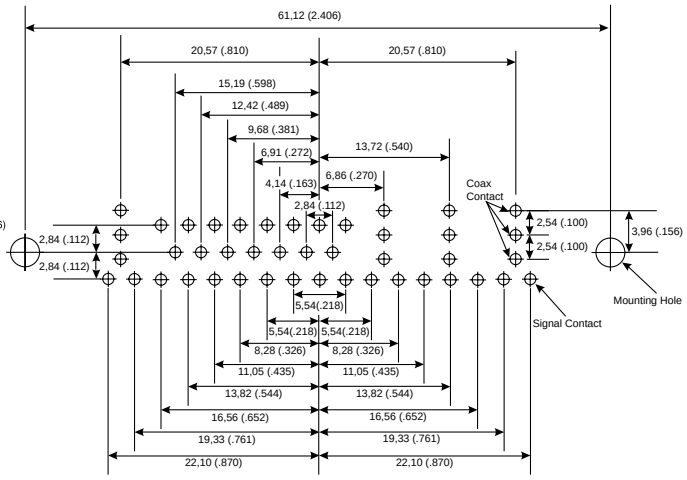
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

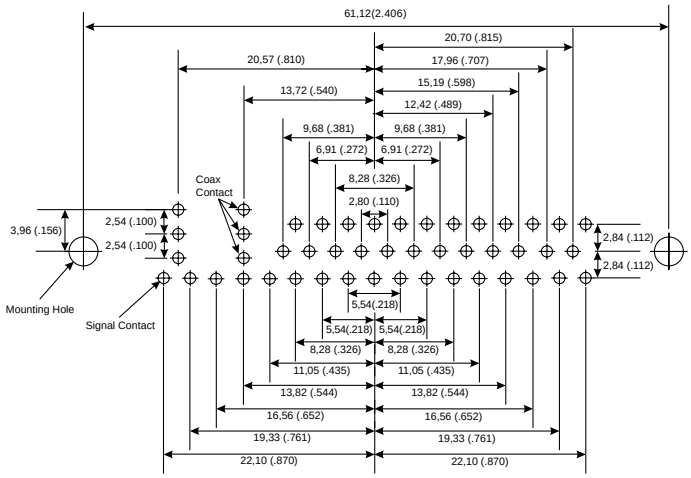
Dimensions are shown in mm (inch)
Dimensions subject to change



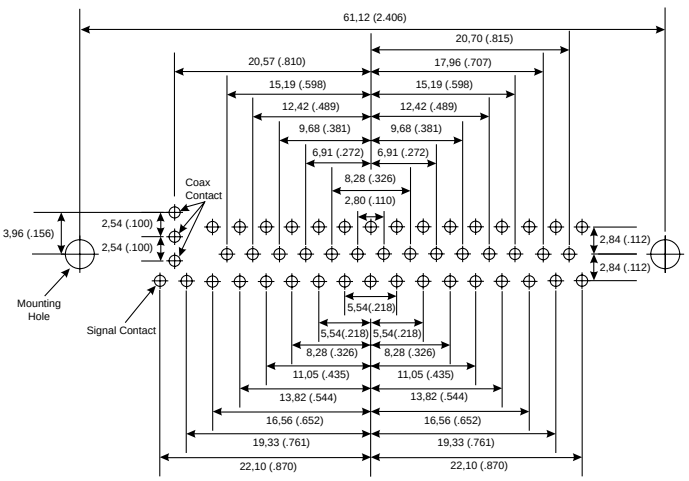
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	7 #8



	D
	36W4
	32 #20
	4 #8



Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	2 #8



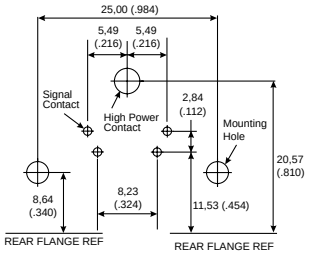
	D
	47W1
	46 #20
	1 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

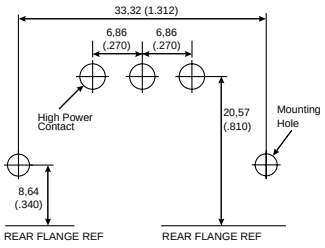
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
Coaxial (C or X)	1,14 (.045)

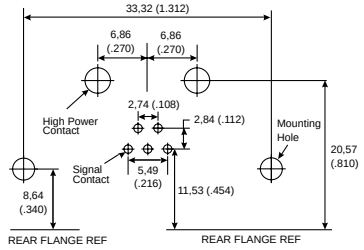
Reader's Resource



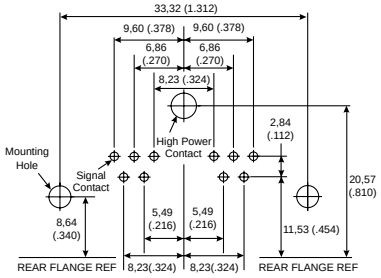
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



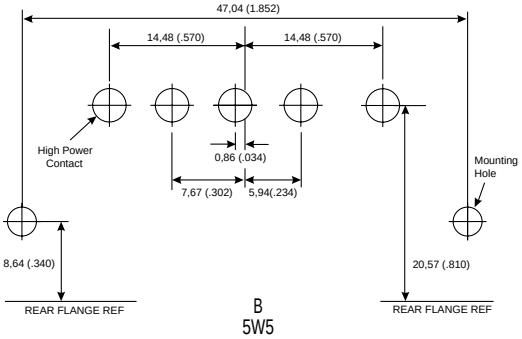
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



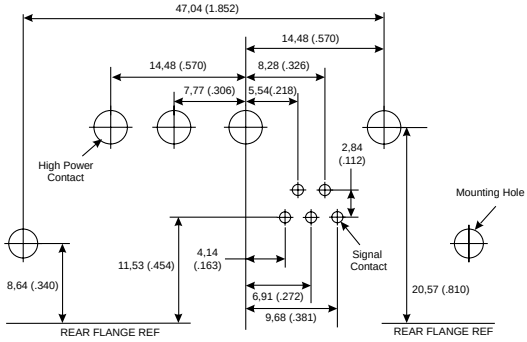
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



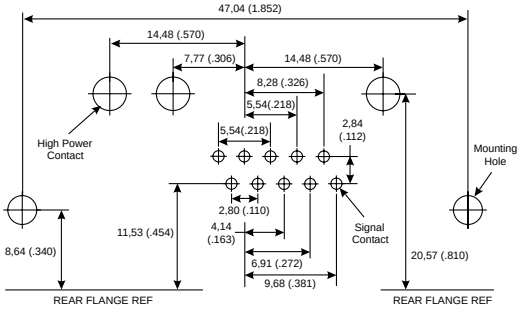
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



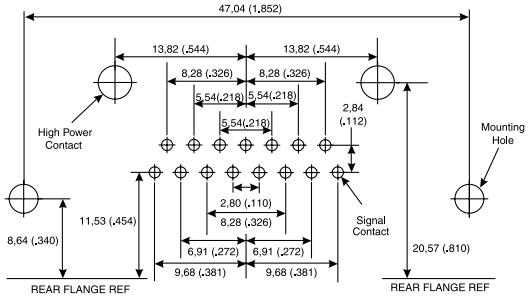
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



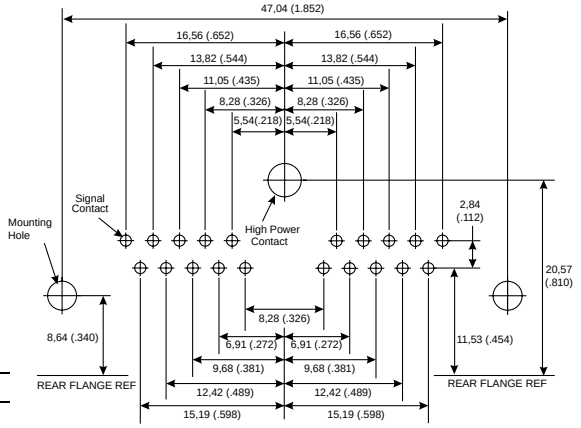
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8



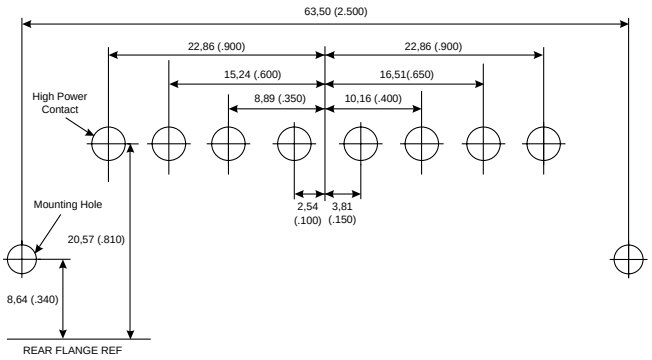
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

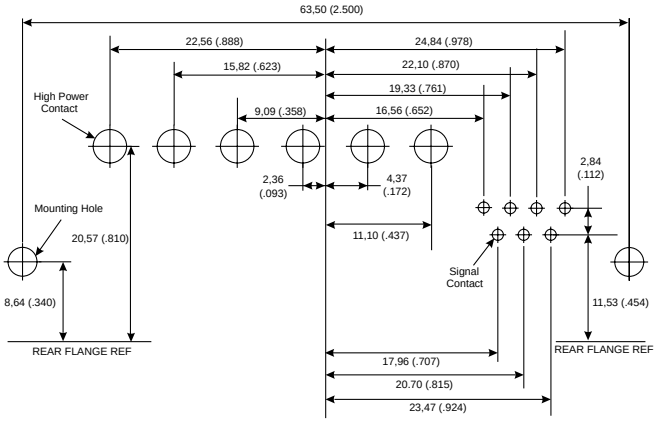
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)

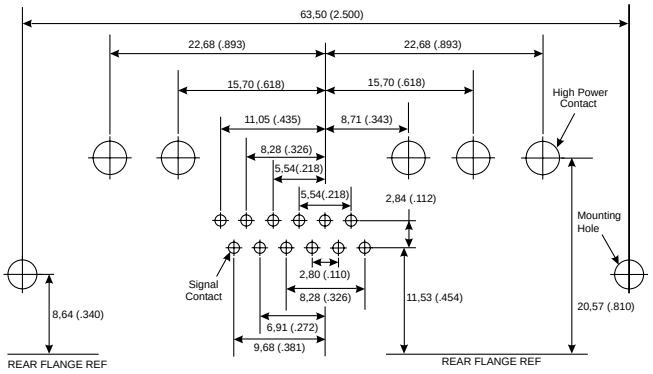
Dimensions are shown in mm (inch)
Dimensions subject to change



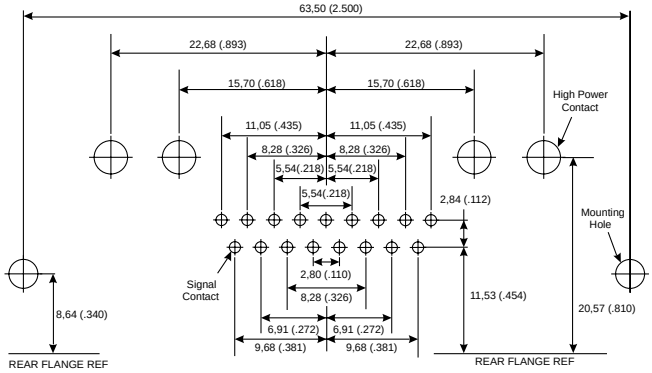
Shell Size	C
Contact Arrangement	8W8
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	8 #8



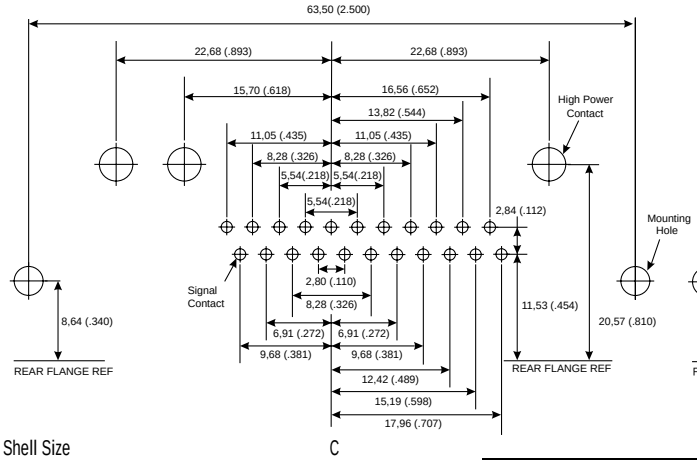
C	
13W6	
7 #20	
6 #8	



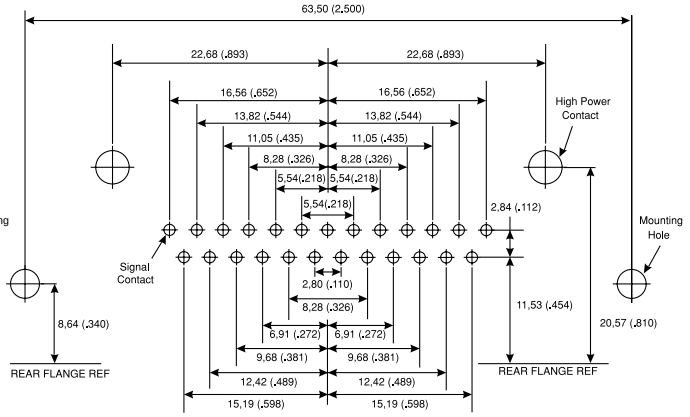
Shell Size	C
Contact Arrangement	17W5
No. of Size 20 Cavities	12 #20
No. of Size 8 Cavities	5 #8



C	
21WA4	
17 #20	
4 #8	



Shell Size	C
Contact Arrangement	25W3
No. of Size 20 Cavities	22 #20
No. of Size 8 Cavities	3 #8



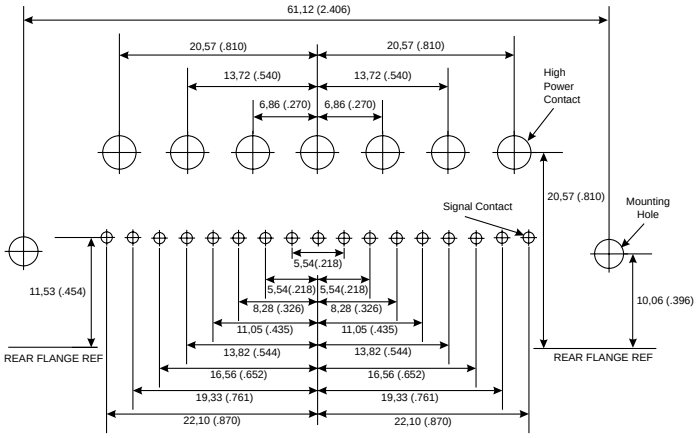
C	
27W2	
25 #20	
2 #8	

Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

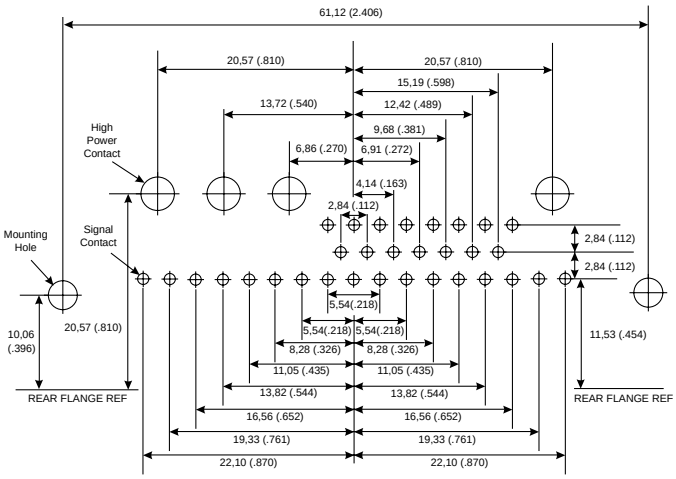
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)

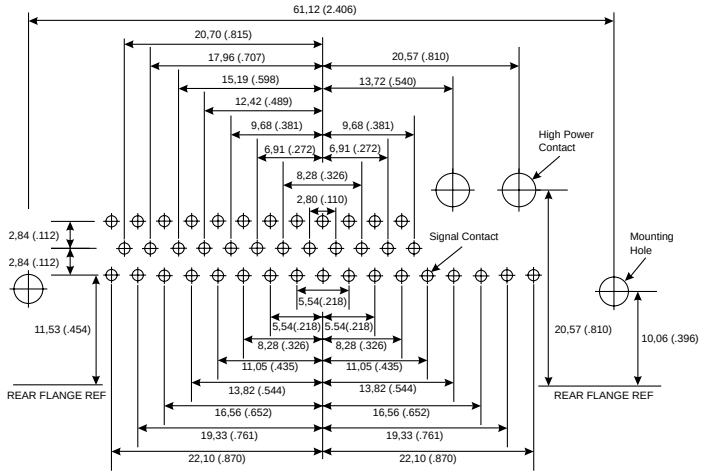
High Power 90° — Plug



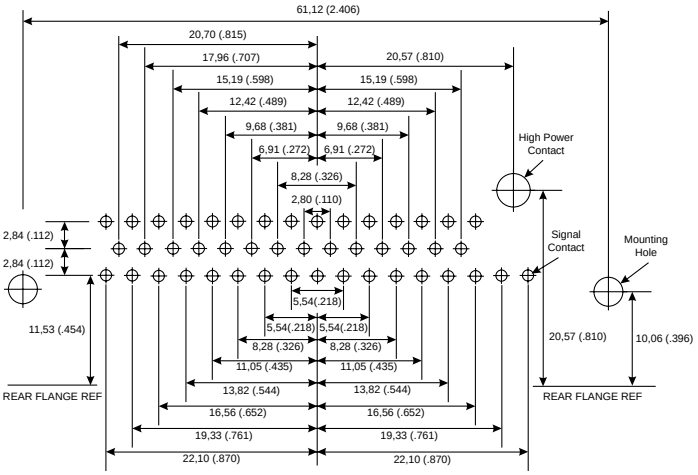
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	7 #8



	D
	36W4
	32 #20
	4 #8



Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	2 #8



	D
	47W1
	46 #20
	1 #8

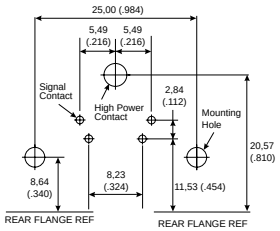
Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

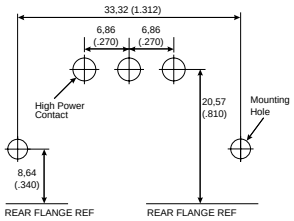
Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)

Reader's Resource

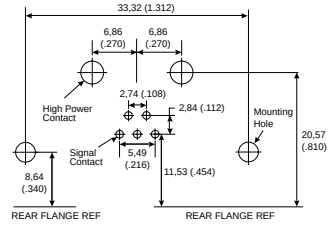
Dimensions are shown in mm (inch)
Dimensions subject to change



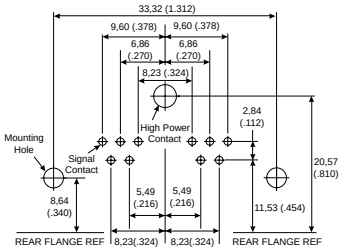
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



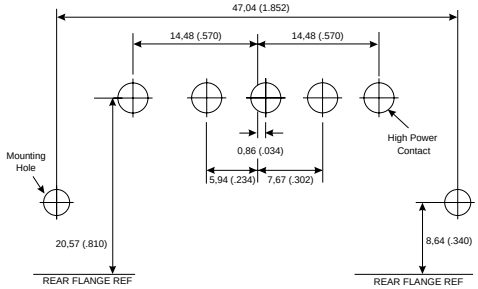
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



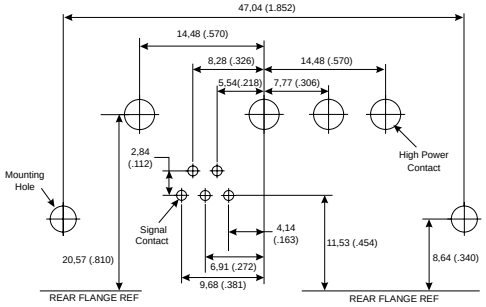
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



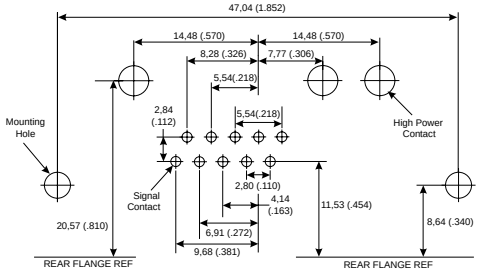
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



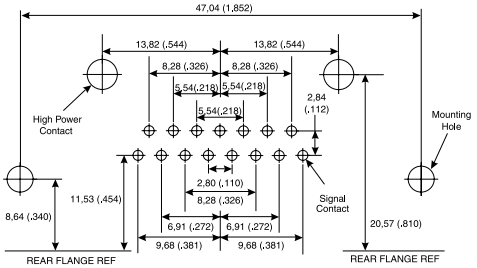
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



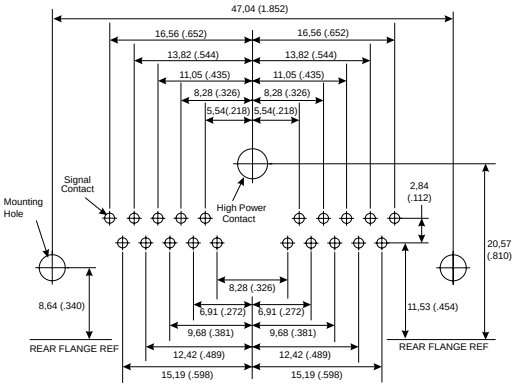
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8

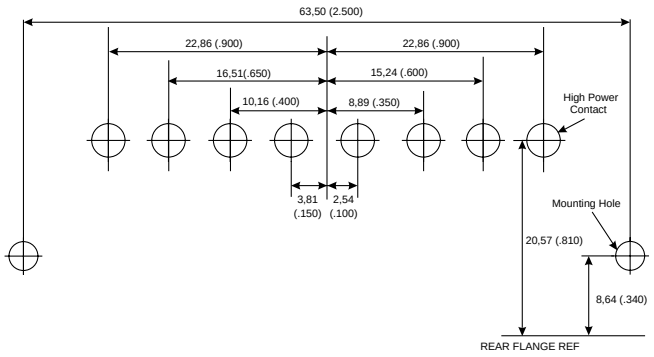


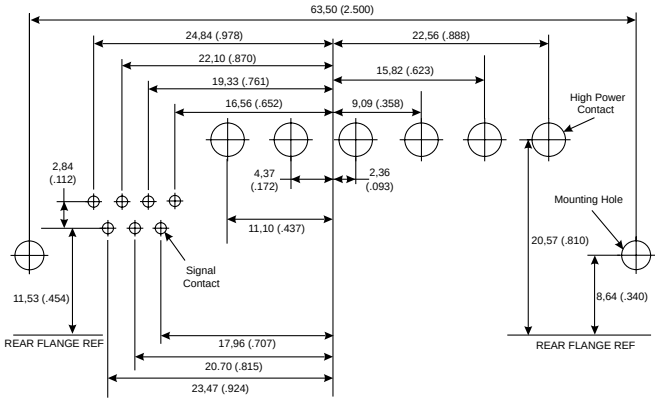
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

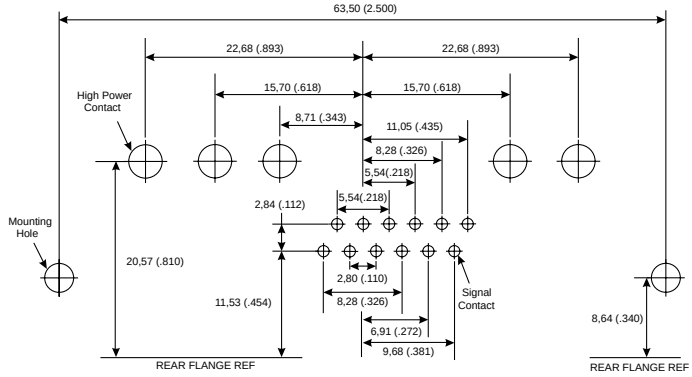
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

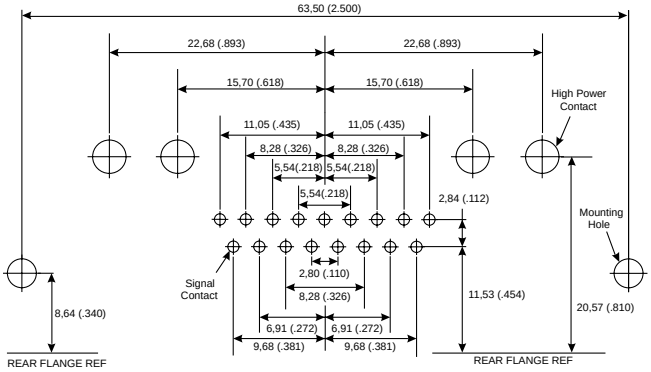
Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)



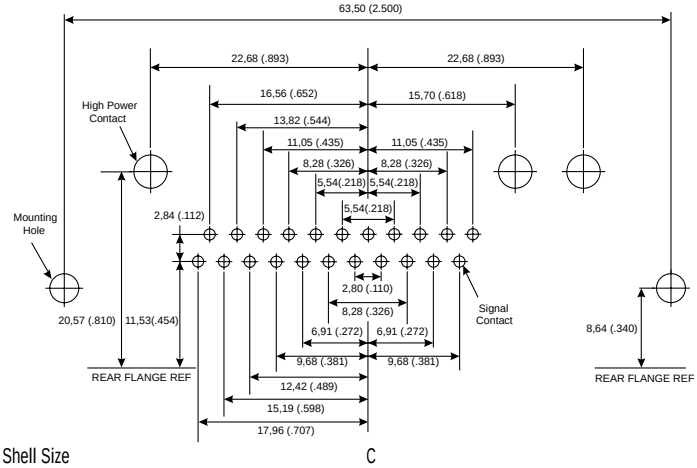


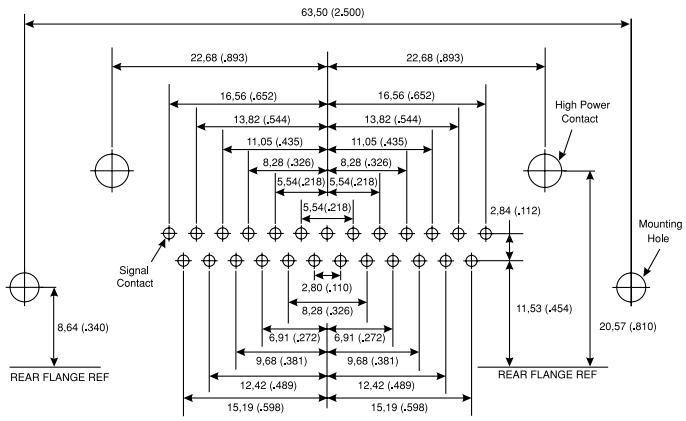
Shell Size	C	C
Contact Arrangement	8W8	13W6
No. of Size 20 Cavities	0 #20	7 #20
No. of Size 8 Cavities	8 #8	6 #8





Shell Size	C	C
Contact Arrangement	17W5	21WA4
No. of Size 20 Cavities	12 #20	17 #20
No. of Size 8 Cavities	5 #8	4 #8





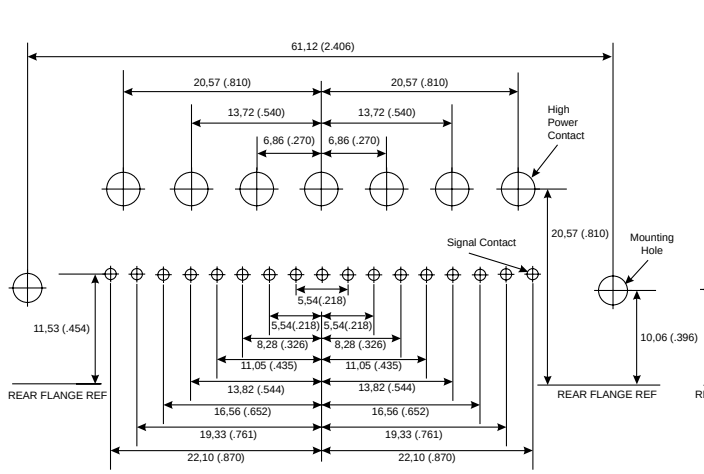
Shell Size	C	C
Contact Arrangement	25W3	27W2
No. of Size 20 Cavities	22 #20	25 #20
No. of Size 8 Cavities	3 #8	2 #8

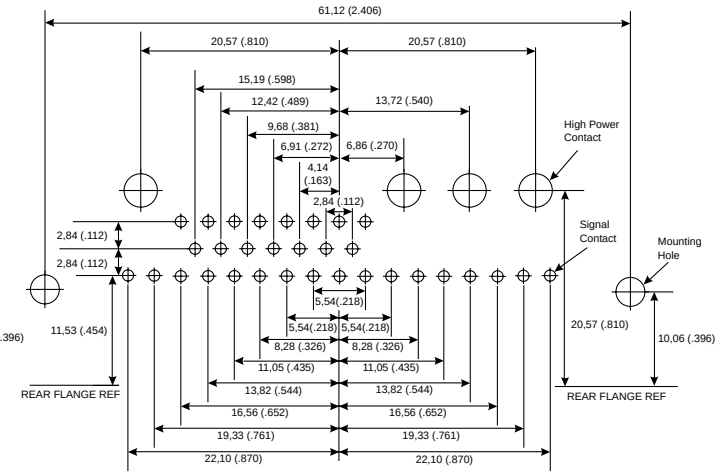
Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

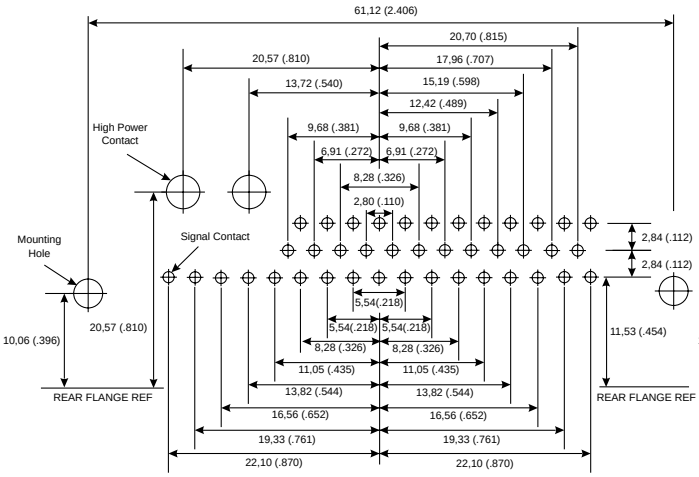
Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)

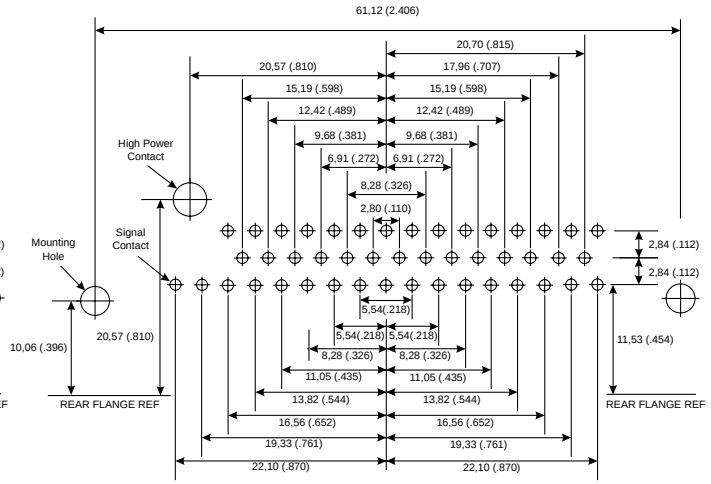
Dimensions are shown in mm (inch)
Dimensions subject to change





Shell Size	D	D
Contact Arrangement	24W7	36W4
No. of Size 20 Cavities	17 #20	32 #20
No. of Size 8 Cavities	7 #8	4 #8





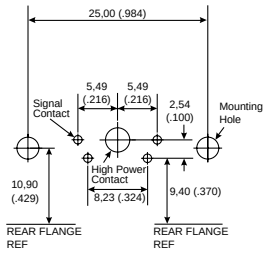
Shell Size	D	D
Contact Arrangement	43W2	47W1
No. of Size 20 Cavities	41 #20	46 #20
No. of Size 8 Cavities	2 #8	1 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)

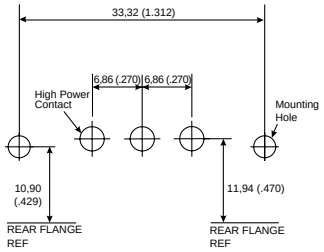
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)

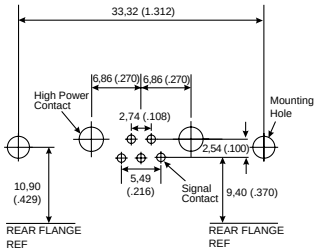
Reader's Resource



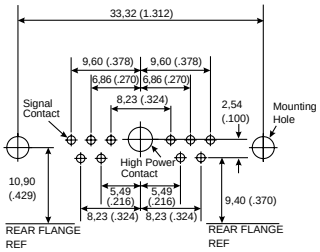
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



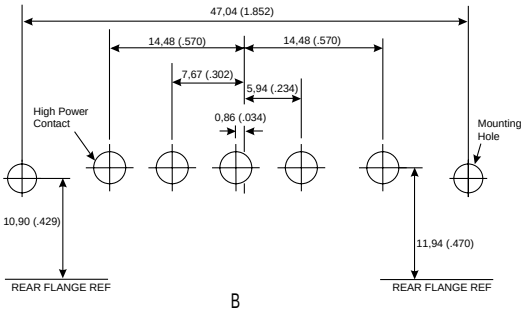
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



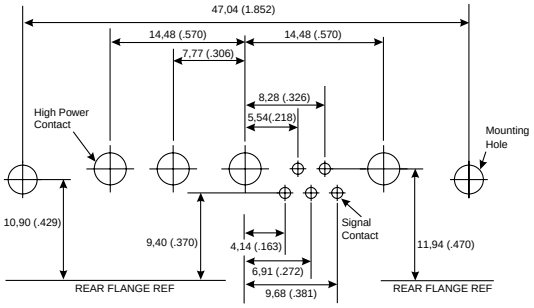
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



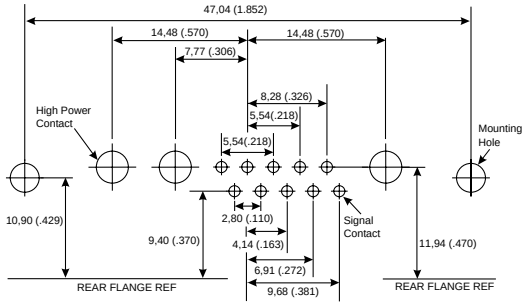
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



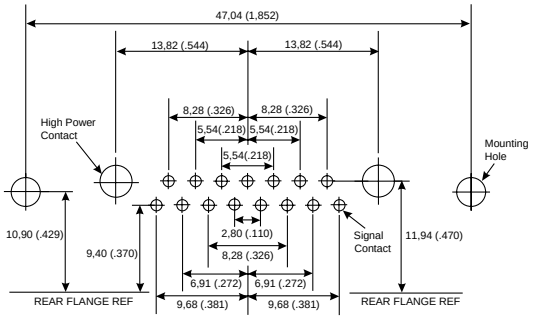
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



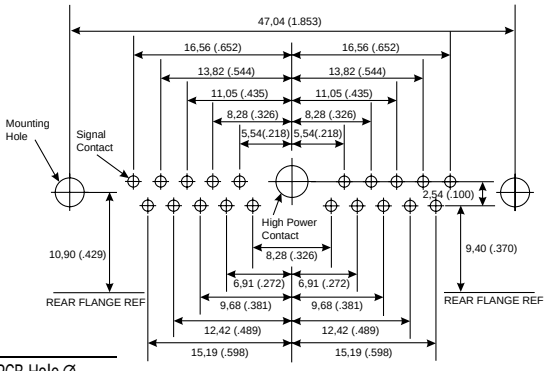
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8



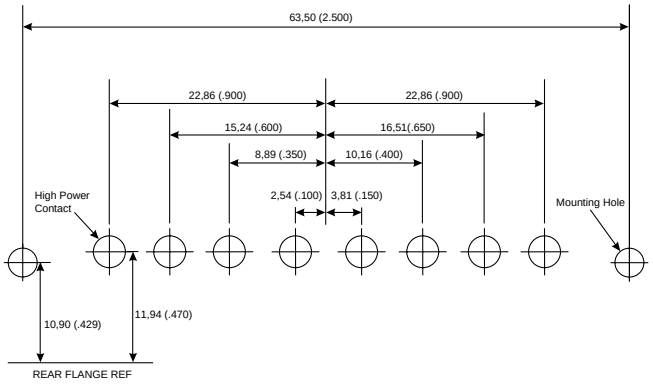
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

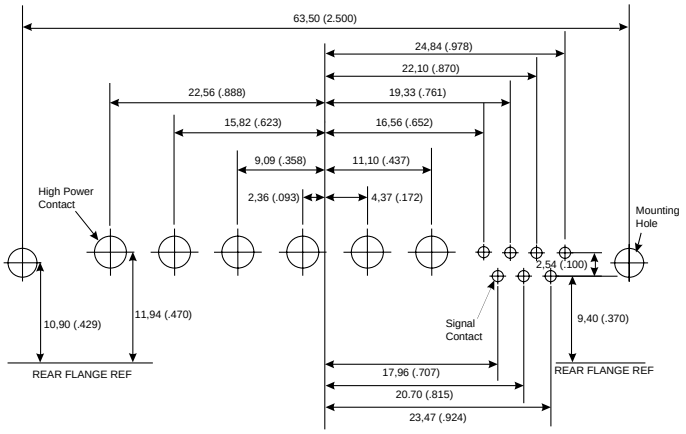
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
High Power (P)	3,28 (.129)

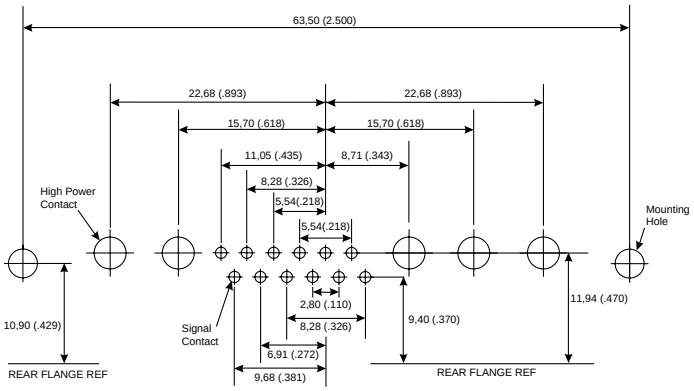
Dimensions are shown in mm (inch)
Dimensions subject to change



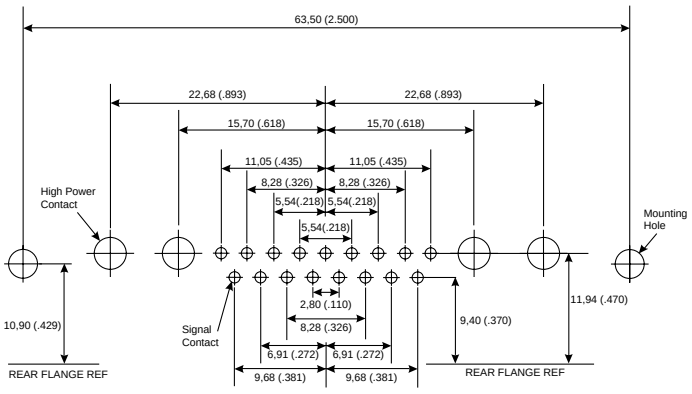
Shell Size	C
Contact Arrangement	8W8
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	8 #8



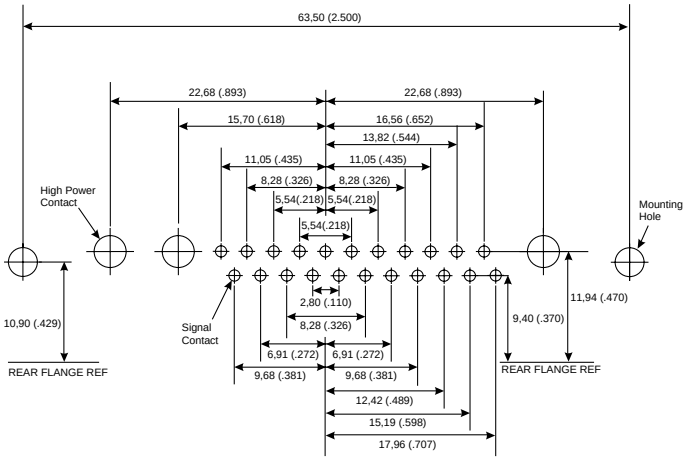
Shell Size	C
Contact Arrangement	13W6
No. of Size 20 Cavities	7 #20
No. of Size 8 Cavities	6 #8



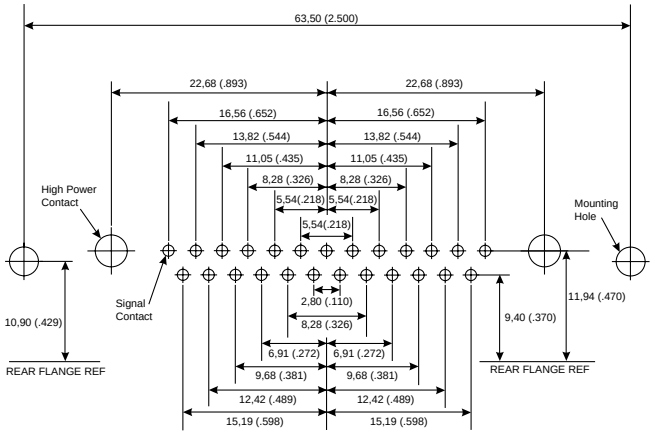
Shell Size	C
Contact Arrangement	17W5
No. of Size 20 Cavities	12 #20
No. of Size 8 Cavities	5 #8



Shell Size	C
Contact Arrangement	21WA4
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	4 #8



Shell Size	C
Contact Arrangement	25W3
No. of Size 20 Cavities	22 #20
No. of Size 8 Cavities	3 #8

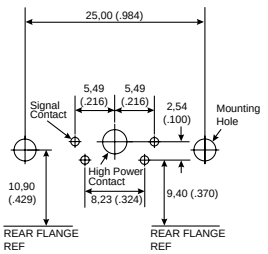


Shell Size	C
Contact Arrangement	27W2
No. of Size 20 Cavities	25 #20
No. of Size 8 Cavities	2 #8

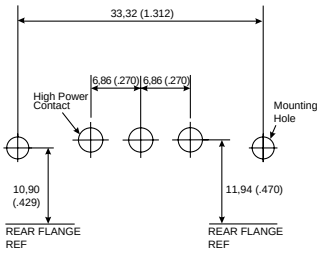
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

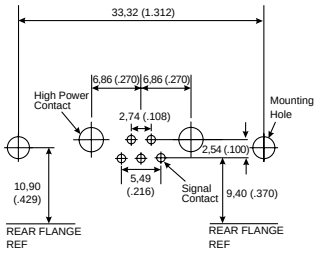
Size 8 Contact Type	Recommended PCB Hole Ø
High Power (P)	3,28 (.129)



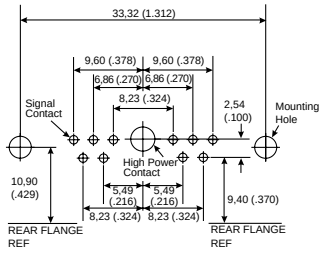
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



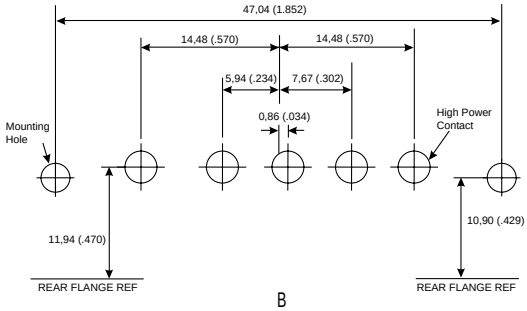
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



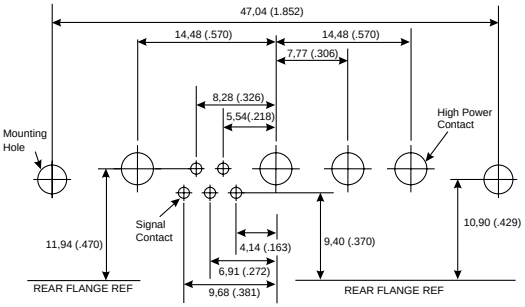
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



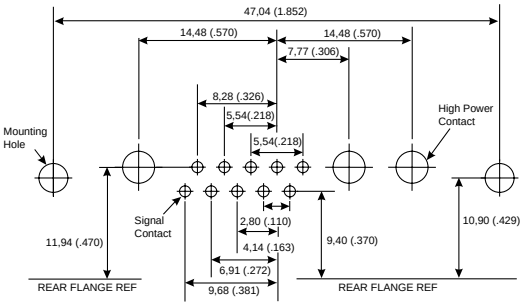
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



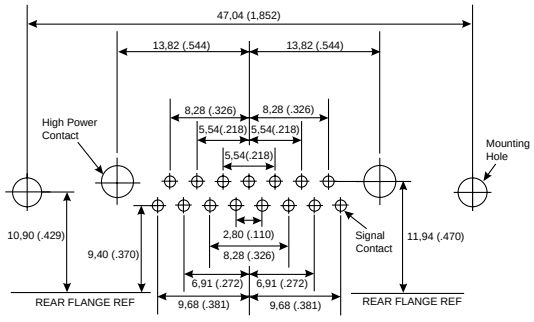
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



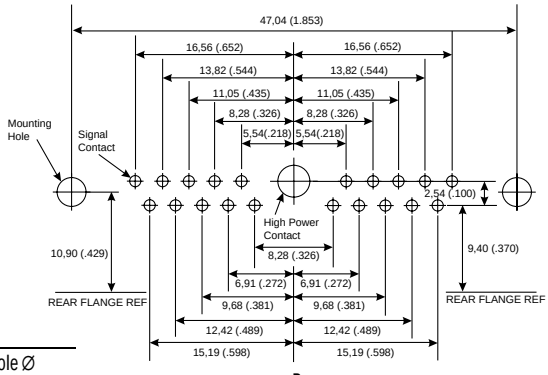
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8



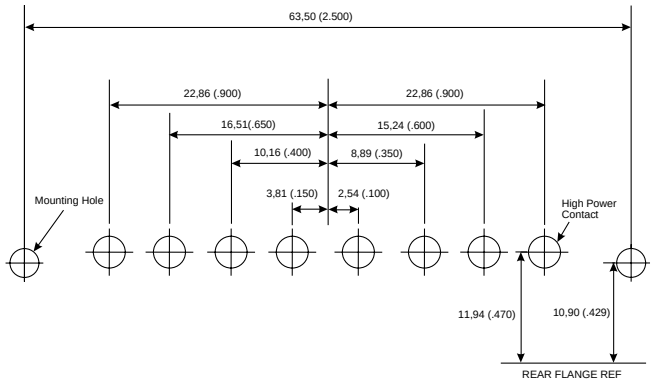
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

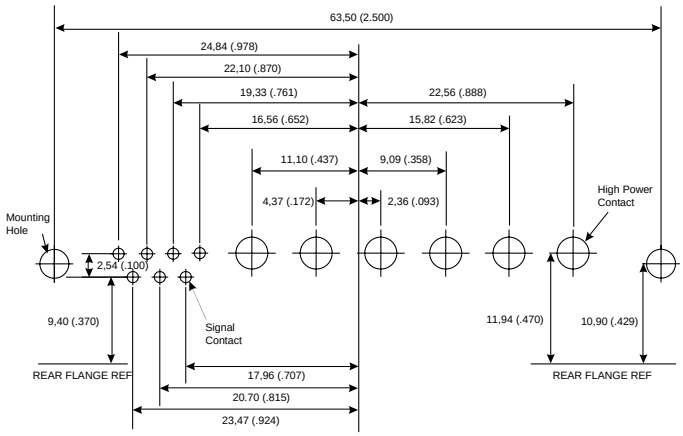
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

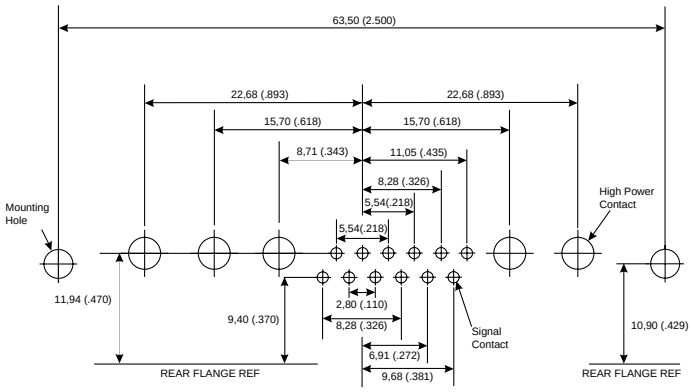
Size 8 Contact Type	Recommended PCB Hole Ø
High Power (P)	3,28 (.129)

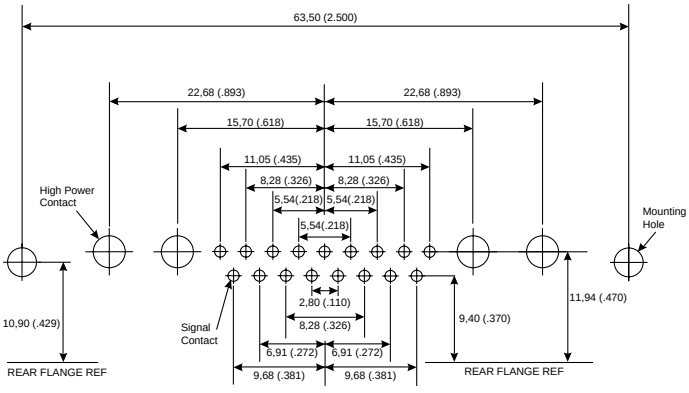
Dimensions are shown in mm (inch)
Dimensions subject to change



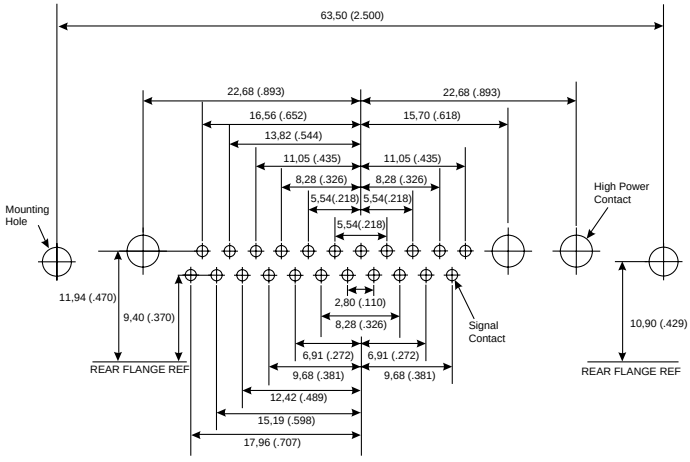


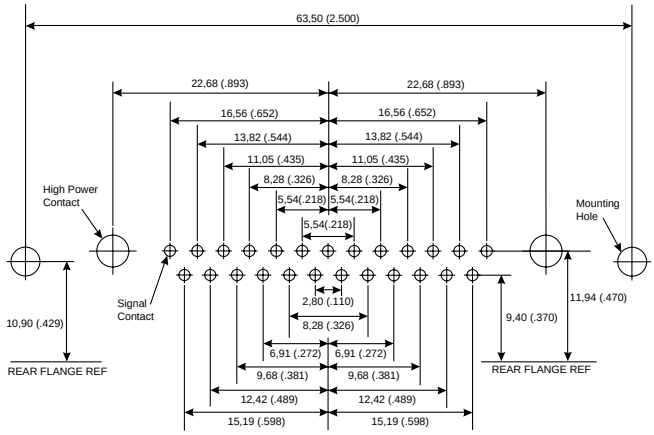
	C	C
Shell Size		
Contact Arrangement	8W8	13W6
No. of Size 20 Cavities	0 #20	7 #20
No. of Size 8 Cavities	8 #8	6 #8





	C	C
Shell Size		
Contact Arrangement	17W5	21WA4
No. of Size 20 Cavities	12 #20	17 #20
No. of Size 8 Cavities	5 #8	4 #8





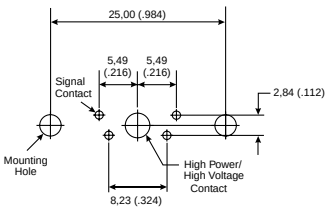
	C	C
Shell Size		
Contact Arrangement	25W3	27W2
No. of Size 20 Cavities	22 #20	25 #20
No. of Size 8 Cavities	3 #8	2 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

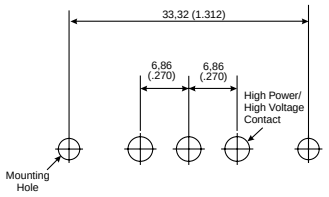
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
High Power (P)	3,28 (.129)

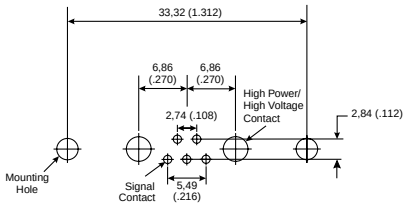
Reader's Resource



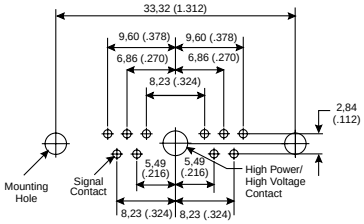
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



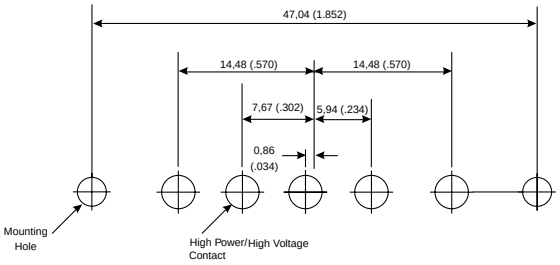
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



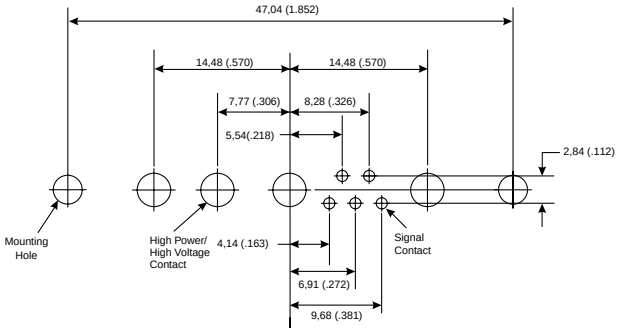
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



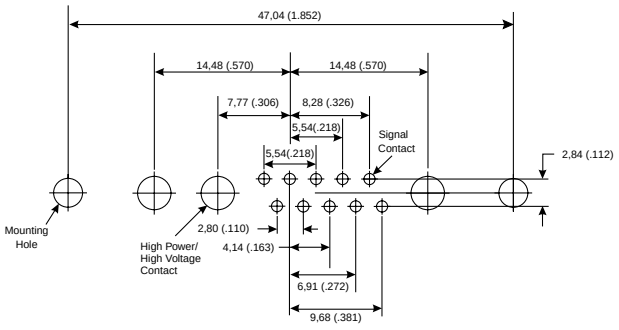
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



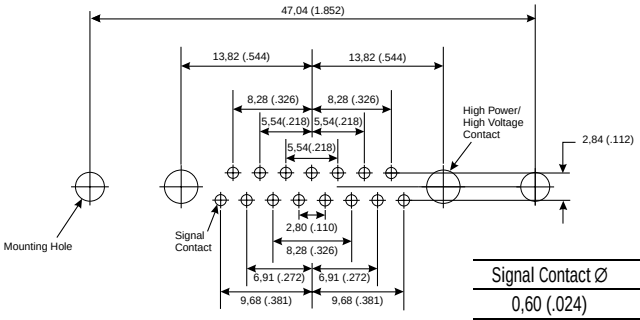
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



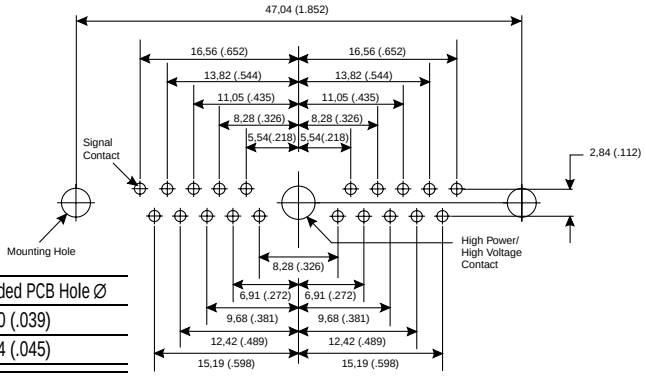
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8



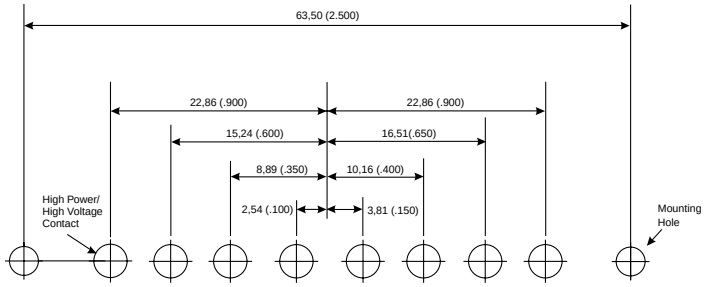
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8

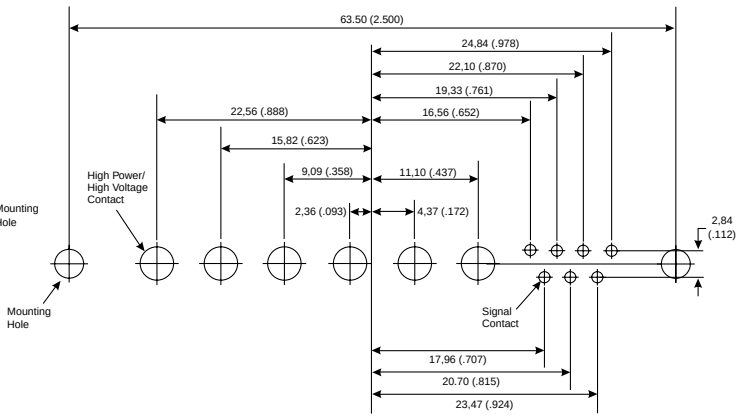
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

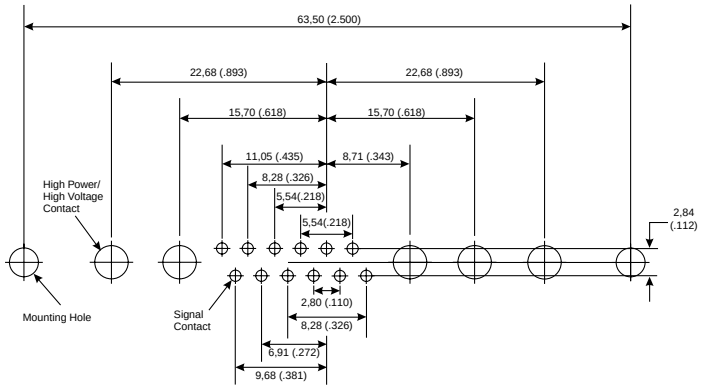
Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)
High Voltage (V)	1,96 (.077)

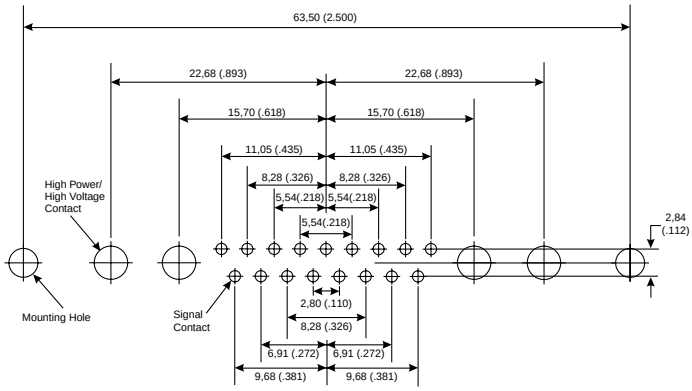
Dimensions are shown in mm (inch)
Dimensions subject to change



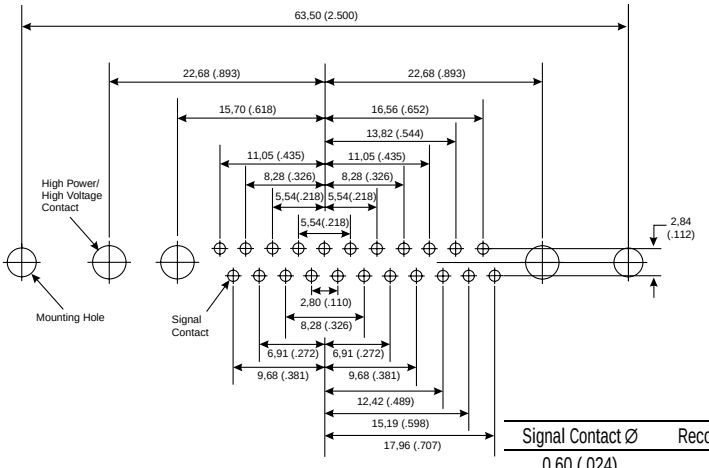


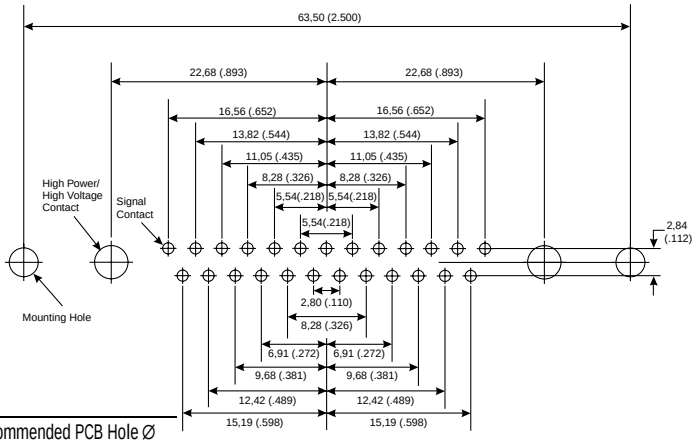
Shell Size	C	C
Contact Arrangement	8W8	13W6
No. of Size 20 Cavities	0 #20	7 #20
No. of Size 8 Cavities	8 #8	6 #8





Shell Size	C	C
Contact Arrangement	17W5	21WA4
No. of Size 20 Cavities	12 #20	17 #20
No. of Size 8 Cavities	5 #8	4 #8



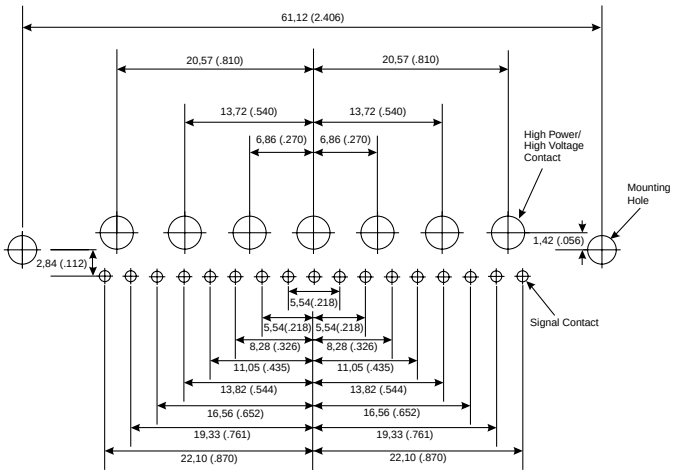


Shell Size	C	C
Contact Arrangement	25W3	27W2
No. of Size 20 Cavities	22 #20	25 #20
No. of Size 8 Cavities	3 #8	2 #8

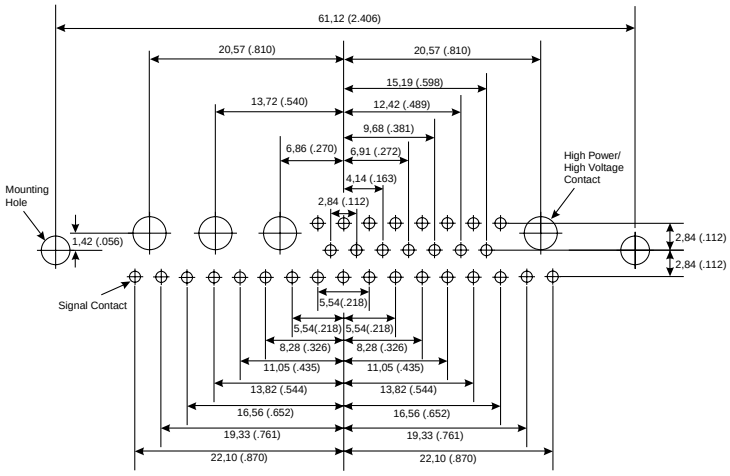
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

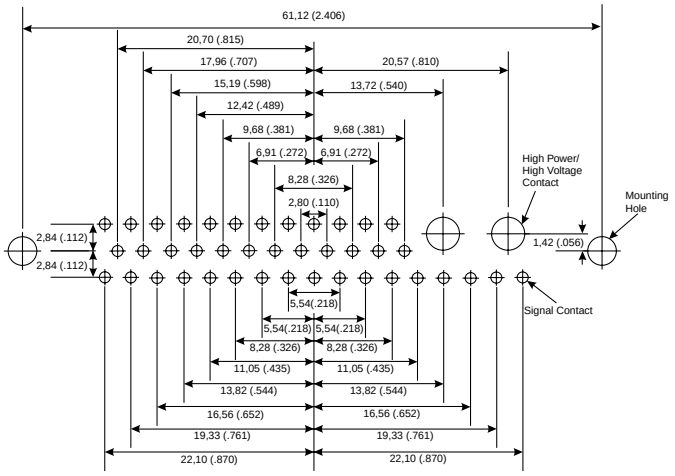
Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)
High Voltage (V)	1,96 (.077)



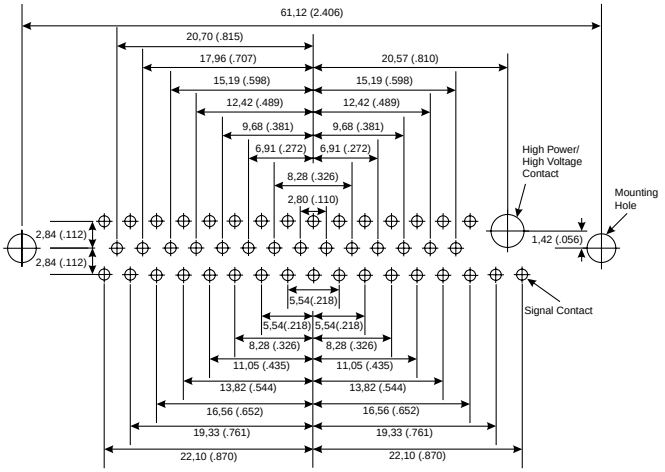
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	7 #8



	D
	36W4
	32 #20
	4 #8



Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	2 #8



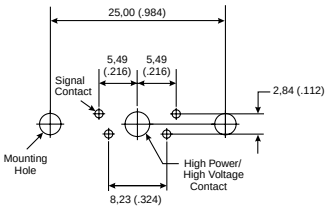
	D
	47W1
	46 #20
	1 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

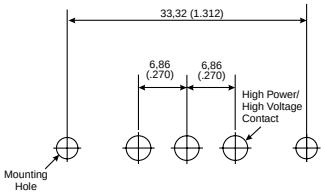
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)
High Voltage (V)	1,96 (.077)

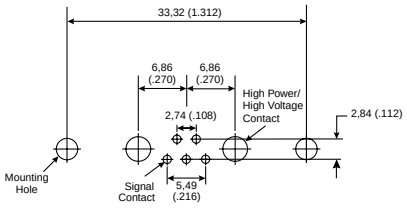
Dimensions are shown in mm (inch)
Dimensions subject to change



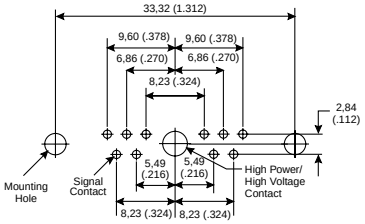
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	1 #8



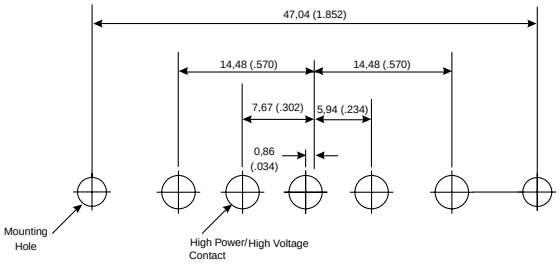
Shell Size	A
Contact Arrangement	3W3
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	3 #8



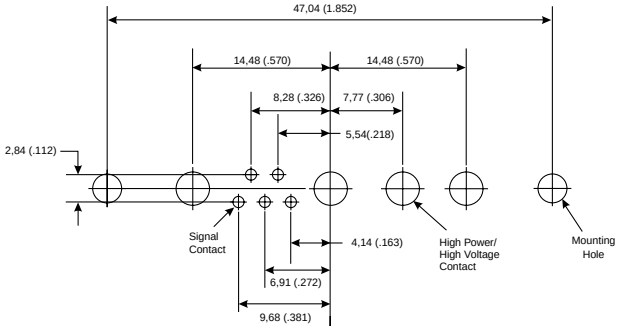
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	2 #8



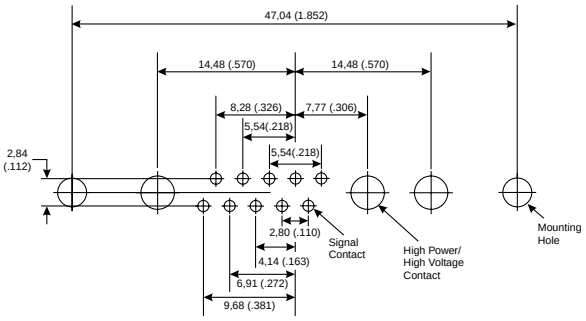
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	1 #8



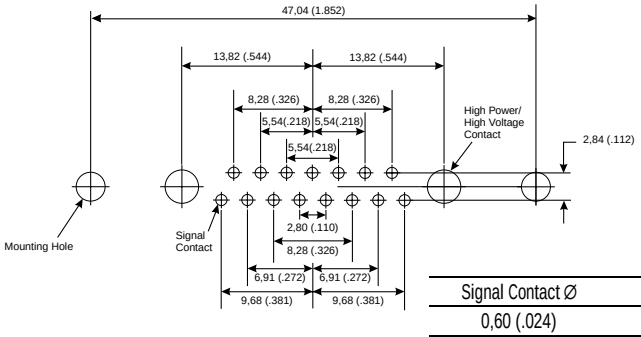
Shell Size	B
Contact Arrangement	5W5
No. of Size 20 Cavities	0 #20
No. of Size 8 Cavities	5 #8



Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	4 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	3 #8

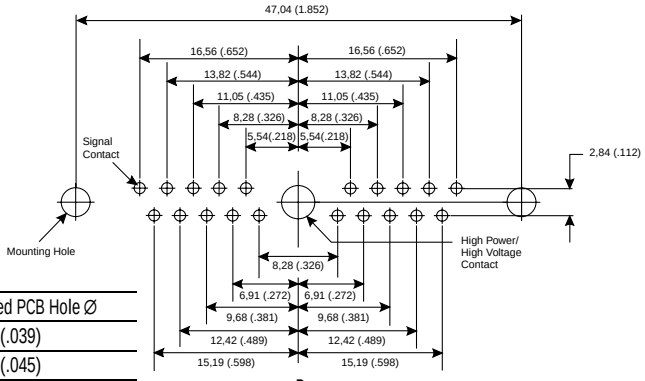


Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	2 #8

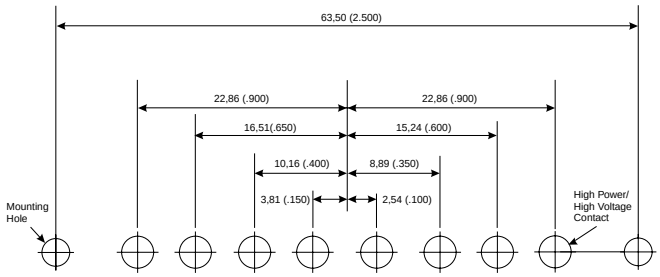
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

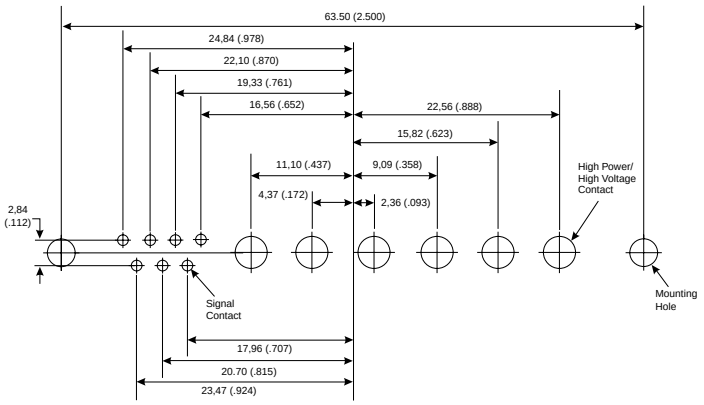
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)
High Voltage (V)	1,96 (.077)

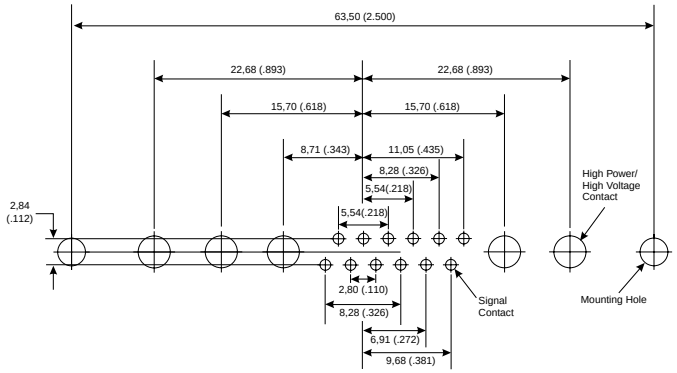


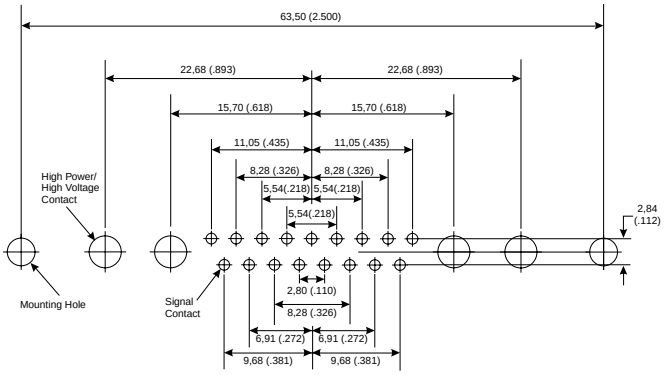
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	1 #8



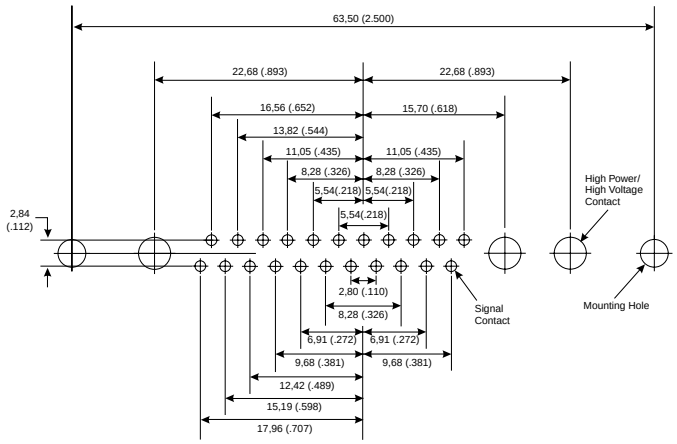


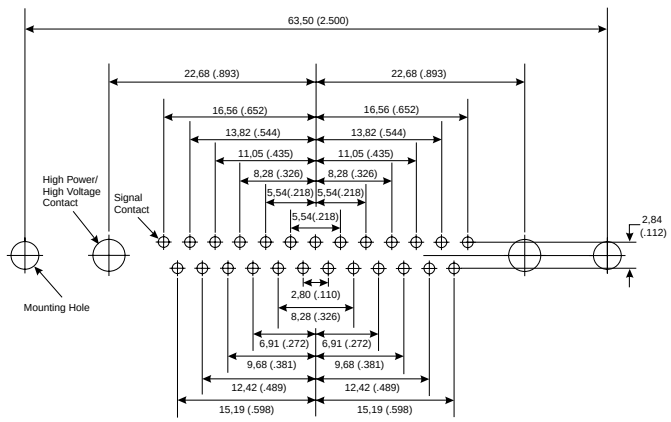
Shell Size	C	C
Contact Arrangement	8W8	13W6
No. of Size 20 Cavities	0 #20	7 #20
No. of Size 8 Cavities	8 #8	6 #8





Shell Size	C	C
Contact Arrangement	17W5	21WA4
No. of Size 20 Cavities	12 #20	17 #20
No. of Size 8 Cavities	5 #8	4 #8





Shell Size	C	C
Contact Arrangement	25W3	27W2
No. of Size 20 Cavities	22 #20	25 #20
No. of Size 8 Cavities	3 #8	2 #8

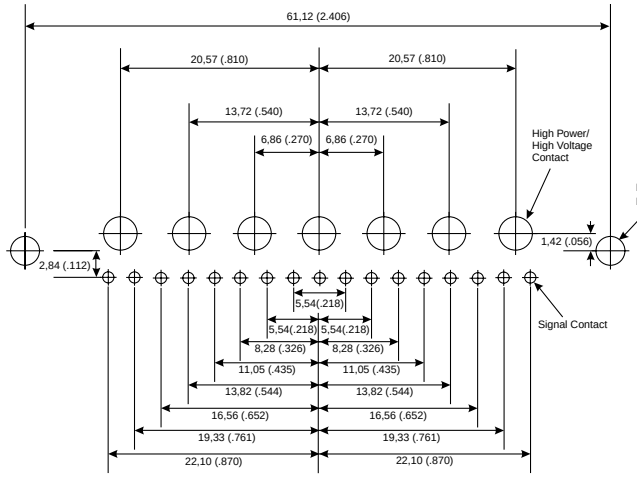
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

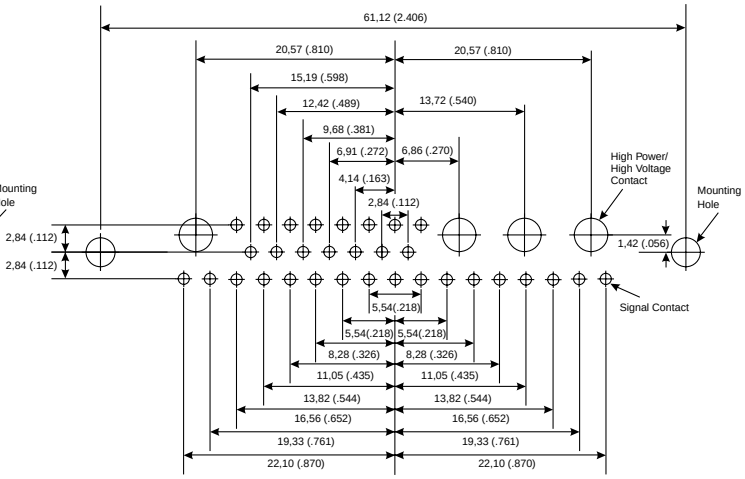
Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)
High Voltage (V)	1,96 (.077)

Dimensions are shown in mm (inch)
Dimensions subject to change

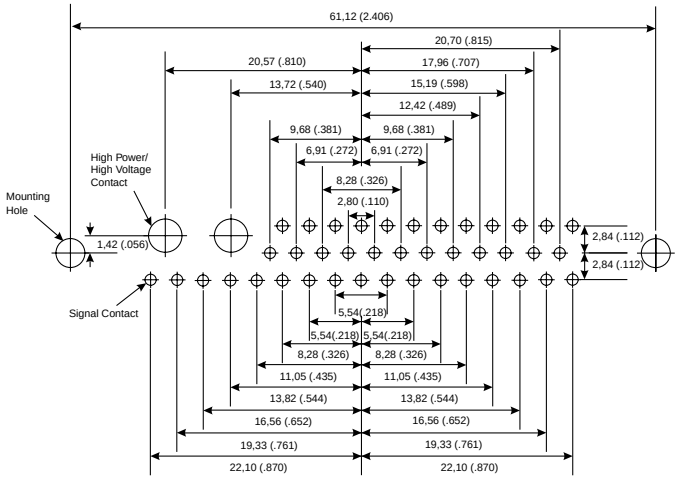
PCB Hole Pattern — Standard/European High Power/Voltage Straight — Receptacle



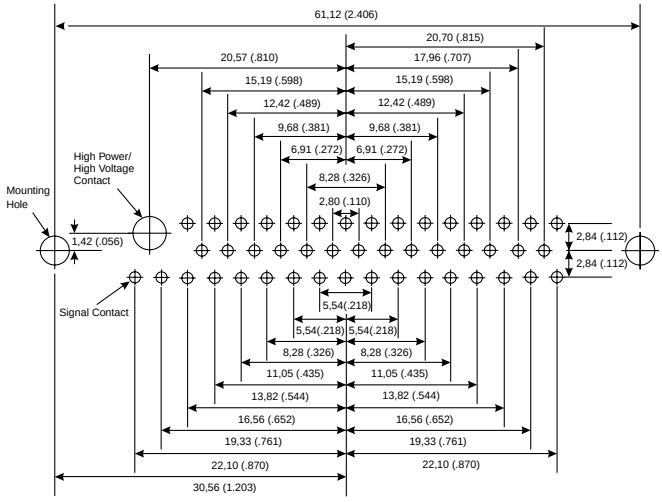
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	7 #8



D	
36W4	
32 #20	
4 #8	



Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	2 #8



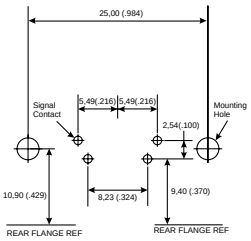
D	
47W1	
46 #20	
1 #8	

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)

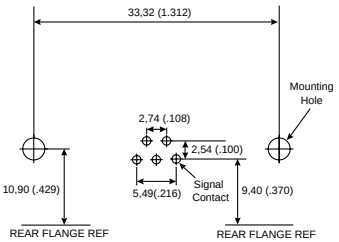
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Size 8 Contact Type	Recommended PCB Hole Ø
High Power (H)	3,56 (.140)
High Voltage (V)	1,96 (.077)

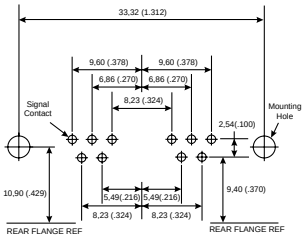
Reader's Resource



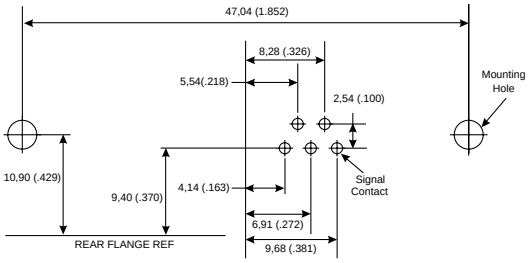
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	0 #8



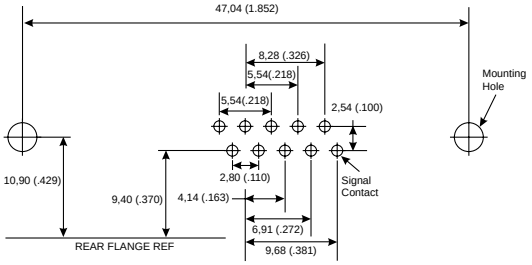
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	0 #8



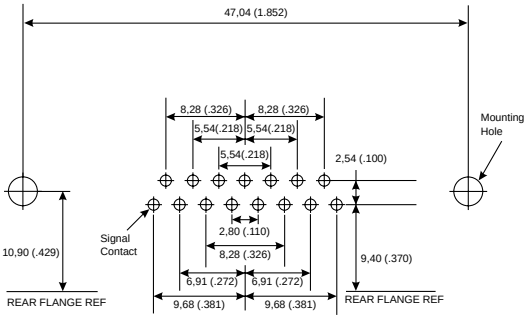
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	0 #8



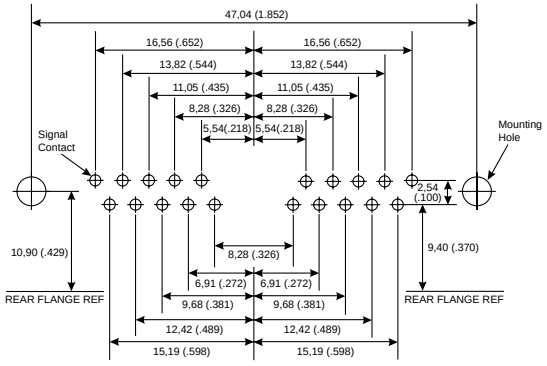
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	0 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	0 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	0 #8



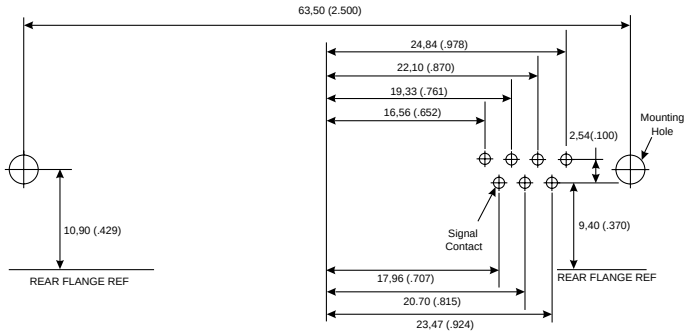
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	0 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

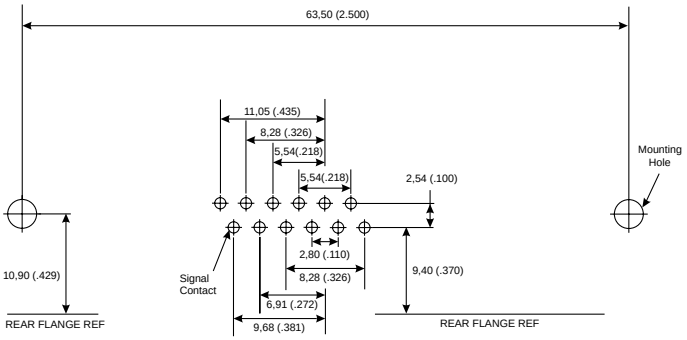
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

ITT Cannon

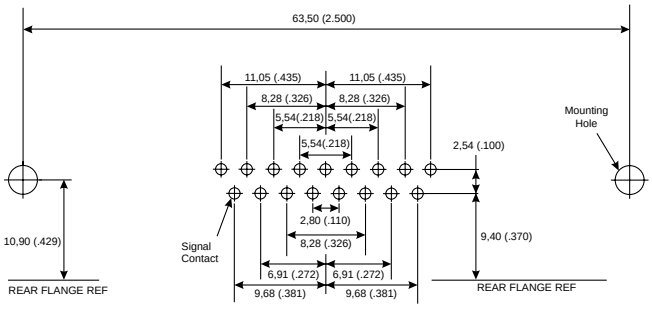
Dimensions are shown in mm (inch)
Dimensions subject to change



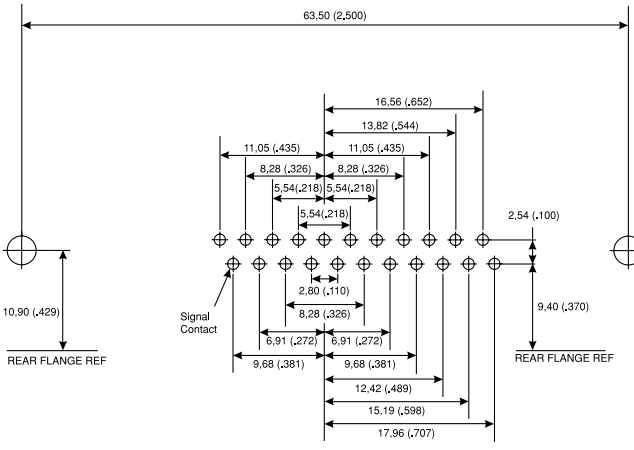
Shell Size	C
Contact Arrangement	13W6
No. of Size 20 Cavities	7 #20
No. of Size 8 Cavities	0 #8



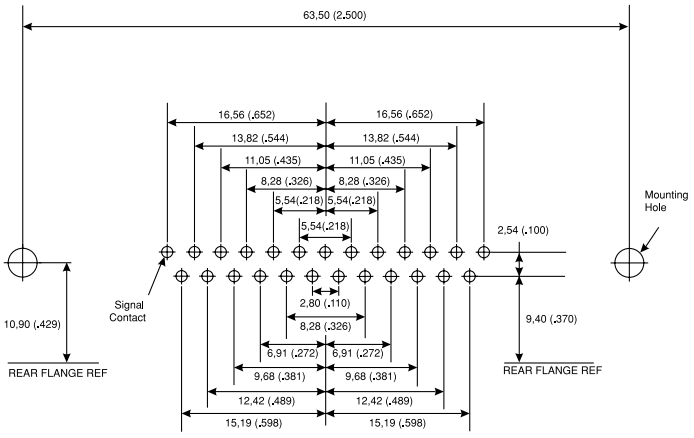
Shell Size	C
Contact Arrangement	17W5
No. of Size 20 Cavities	12 #20
No. of Size 8 Cavities	0 #8



Shell Size	C
Contact Arrangement	21WA4
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	0 #8



Shell Size	C
Contact Arrangement	25W3
No. of Size 20 Cavities	22 #20
No. of Size 8 Cavities	0 #8

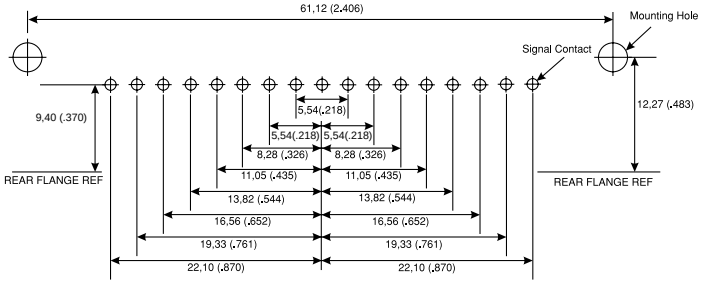


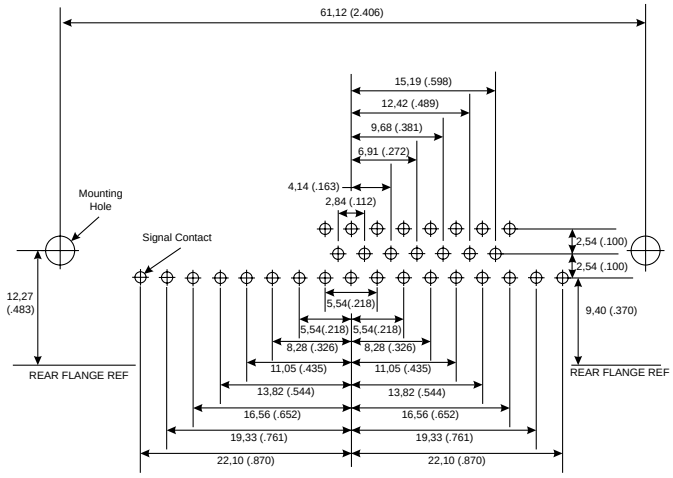
Shell Size	C
Contact Arrangement	27W2
No. of Size 20 Cavities	25 #20
No. of Size 8 Cavities	0 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

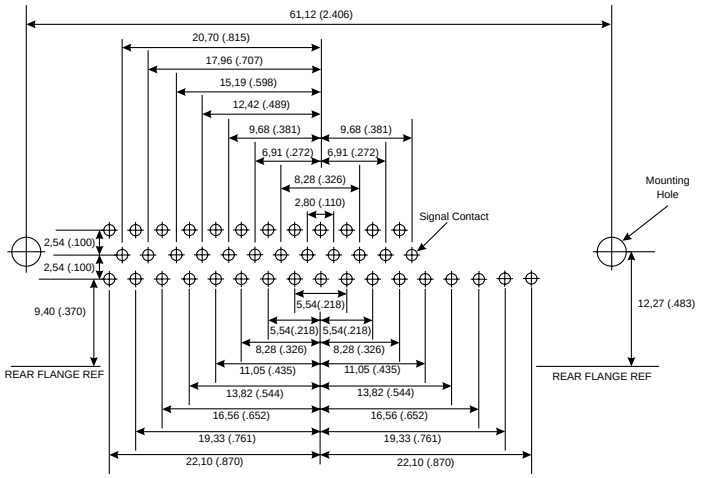
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

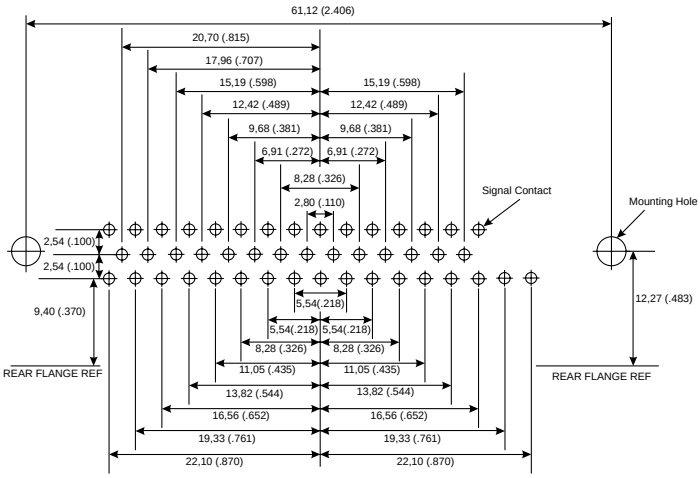
Reader's Resource





Shell Size	D	D
Contact Arrangement	24W7	36W4
No. of Size 20 Cavities	17 #20	32 #20
No. of Size 8 Cavities	0 #8	0 #8



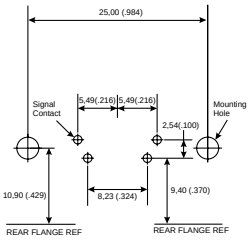


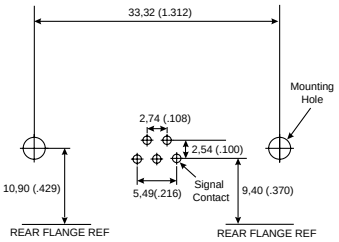
Shell Size	D	D
Contact Arrangement	43W2	47W1
No. of Size 20 Cavities	41 #20	46 #20
No. of Size 8 Cavities	0 #8	0 #8

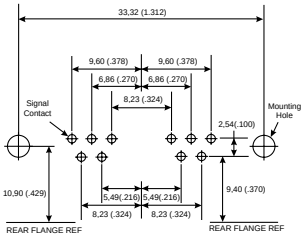
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

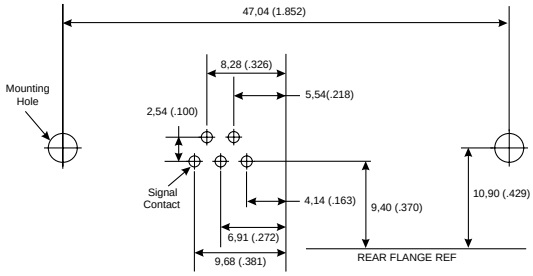
Dimensions are shown in mm (inch)
Dimensions subject to change

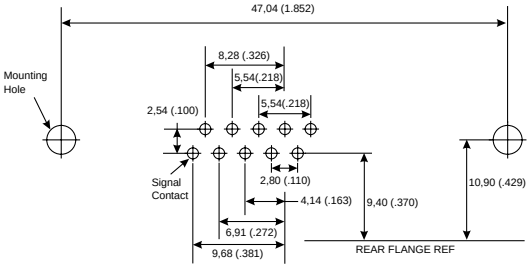




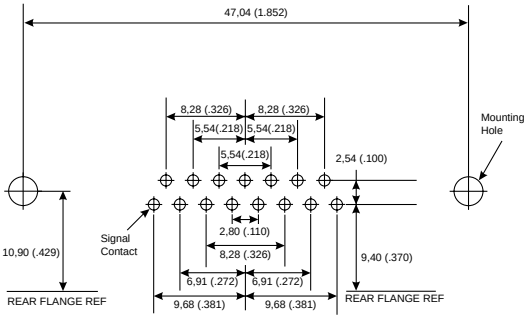


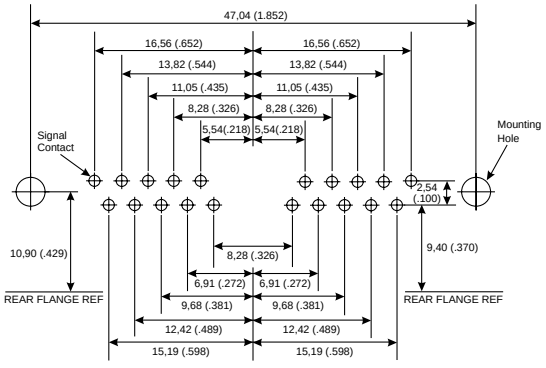
Shell Size	E	A	A
Contact Arrangement	5W1	7W2	11W1
No. of Size 20 Cavities	4 #20	5 #20	10 #20
No. of Size 8 Cavities	0 #8	0 #8	0 #8





Shell Size	B	B
Contact Arrangement	9W4	13W3
No. of Size 20 Cavities	5 #20	10 #20
No. of Size 8 Cavities	0 #8	0 #8



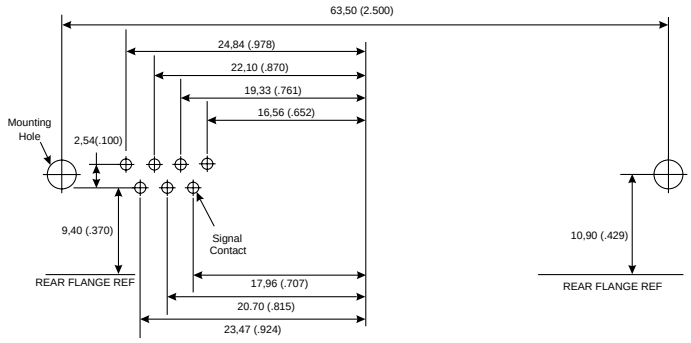


Shell Size	B	B
Contact Arrangement	17W2	21W1
No. of Size 20 Cavities	15 #20	20 #20
No. of Size 8 Cavities	0 #8	0 #8

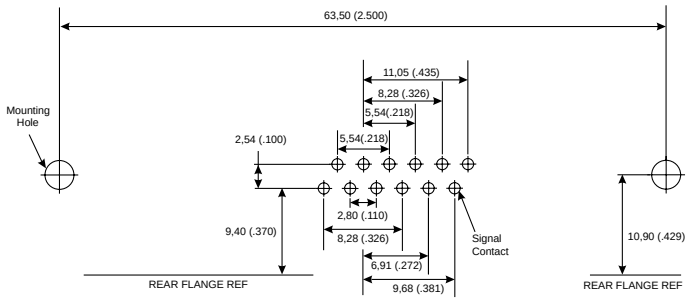
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

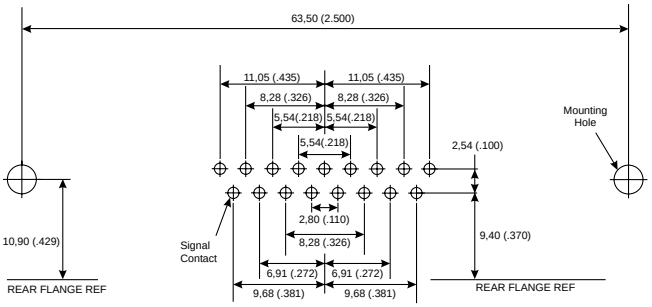
Reader's Resource



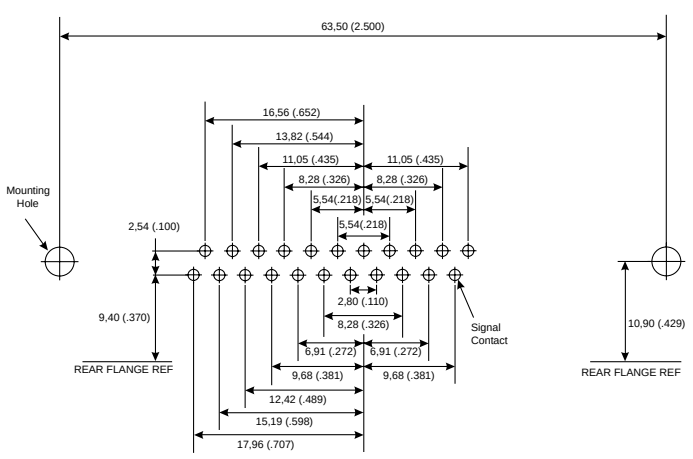
Shell Size	C
Contact Arrangement	13W6
No. of Size 20 Cavities	7 #20
No. of Size 8 Cavities	0 #8



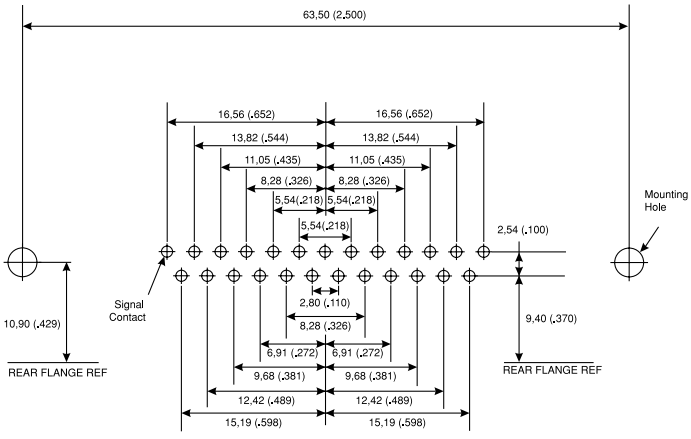
Shell Size	C
Contact Arrangement	17W5
No. of Size 20 Cavities	12 #20
No. of Size 8 Cavities	0 #8



Shell Size	C
Contact Arrangement	21WA4
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	0 #8



Shell Size	C
Contact Arrangement	25W3
No. of Size 20 Cavities	22 #20
No. of Size 8 Cavities	0 #8

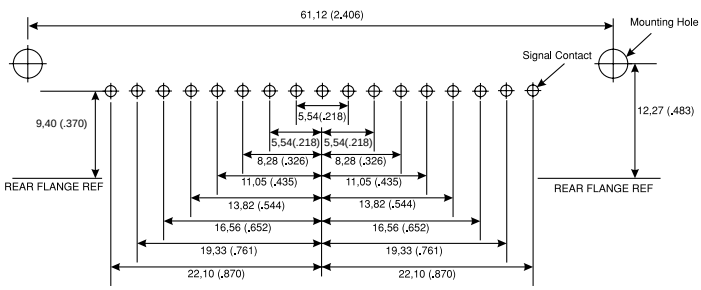


Shell Size	C
Contact Arrangement	27W2
No. of Size 20 Cavities	25 #20
No. of Size 8 Cavities	0 #8

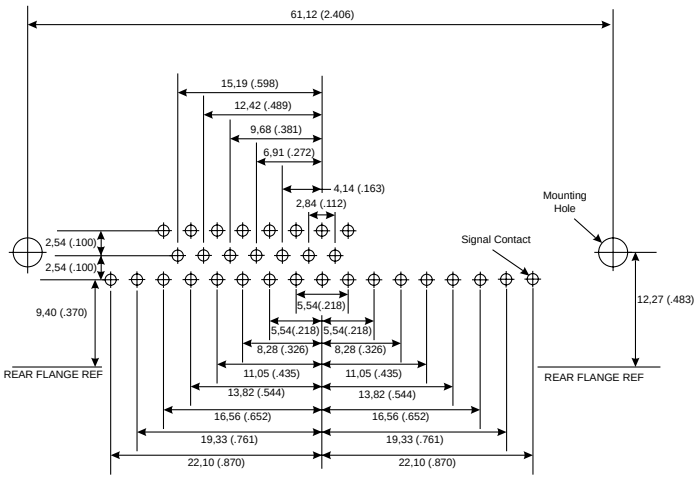
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

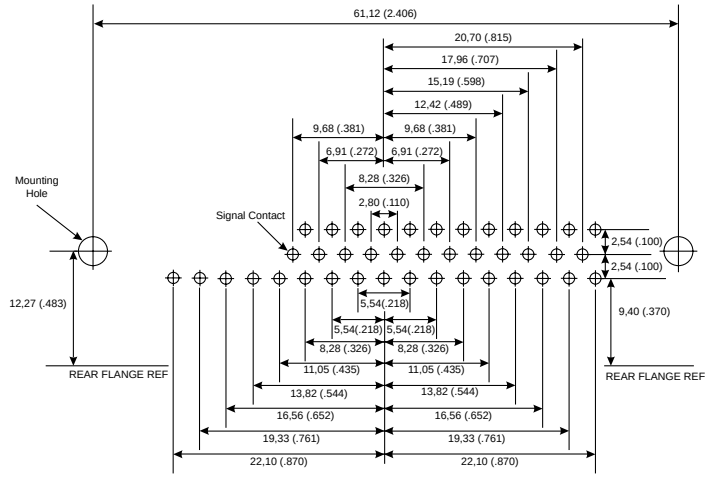
Dimensions are shown in mm (inch)
Dimensions subject to change



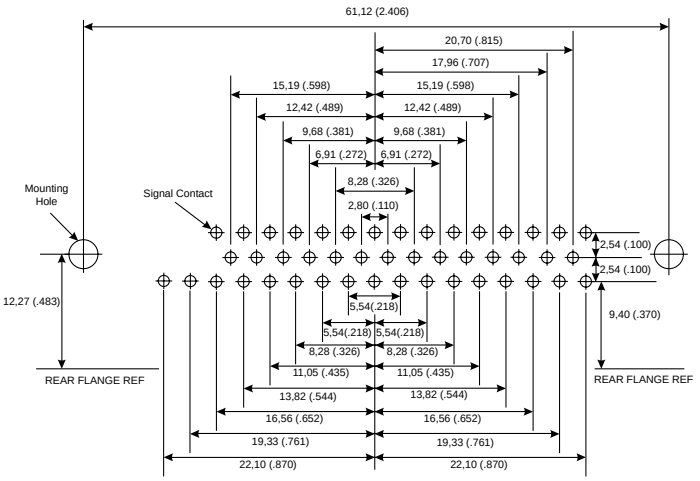
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	0 #8



Shell Size	D
Contact Arrangement	36W4
No. of Size 20 Cavities	32 #20
No. of Size 8 Cavities	0 #8



Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	0 #8

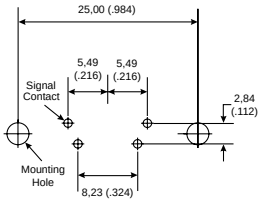


Shell Size	D
Contact Arrangement	47W1
No. of Size 20 Cavities	46 #20
No. of Size 8 Cavities	0 #8

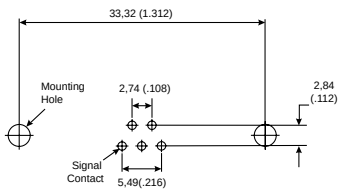
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

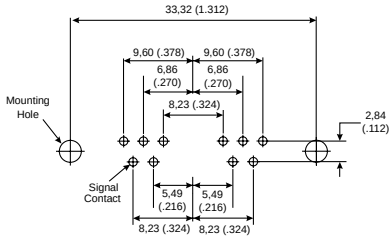
Reader's Resource



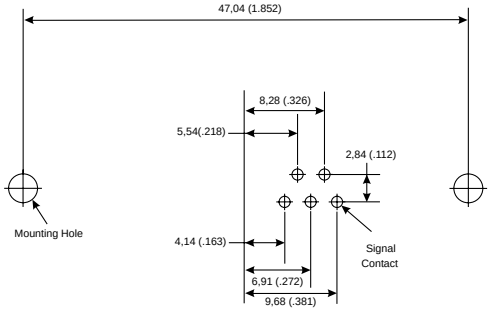
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	0 #8



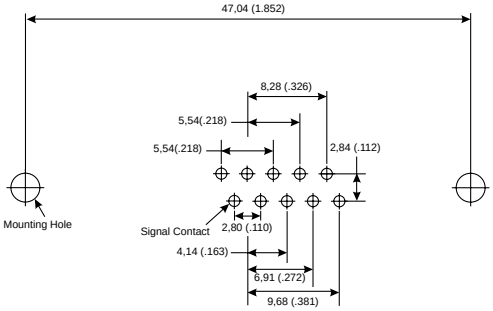
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	0 #8



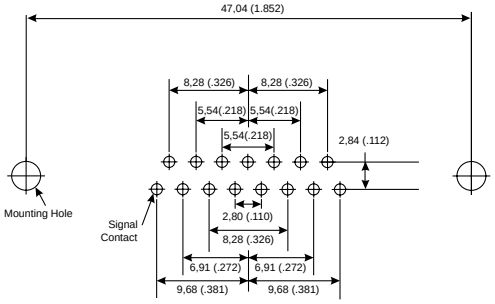
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	0 #8



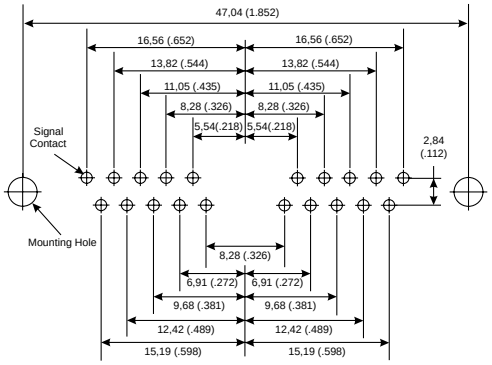
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	0 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	0 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	0 #8



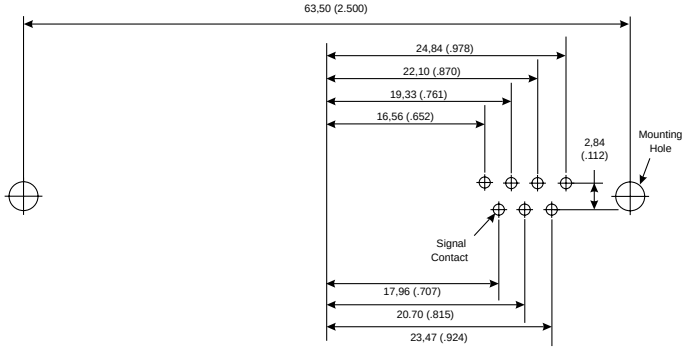
Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	0 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

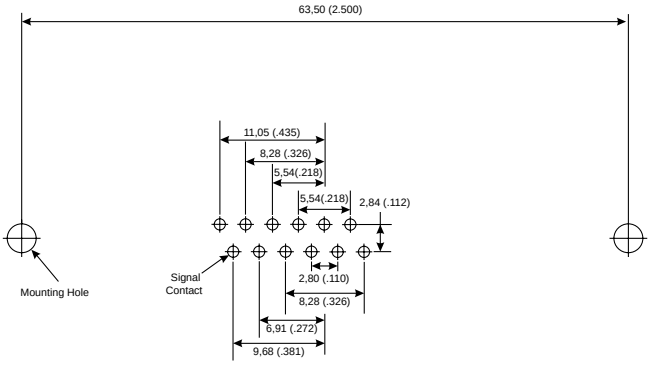
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

ITT Cannon

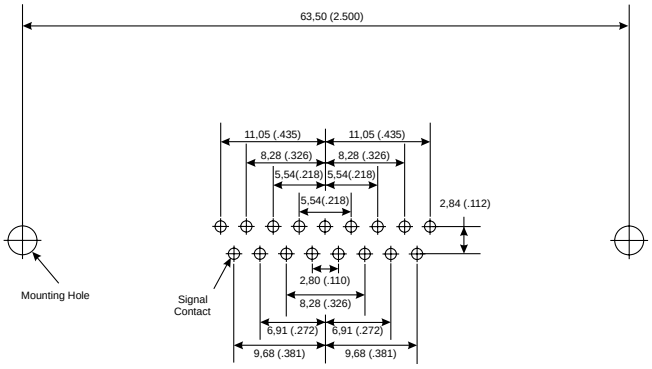
Dimensions are shown in mm (inch)
Dimensions subject to change



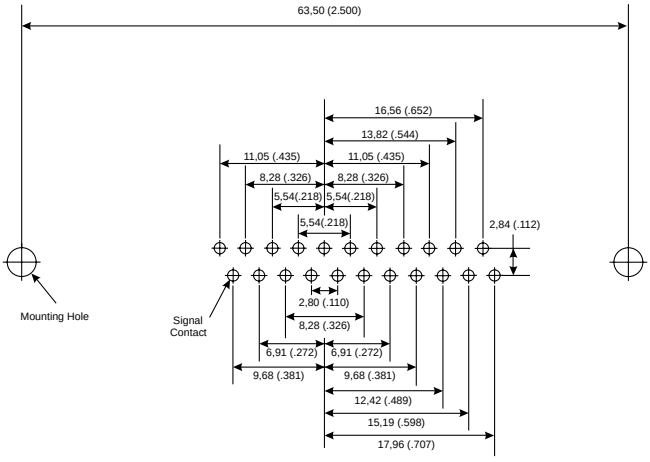
Shell Size	C
Contact Arrangement	13W6
No. of Size 20 Cavities	7 #20
No. of Size 8 Cavities	0 #8



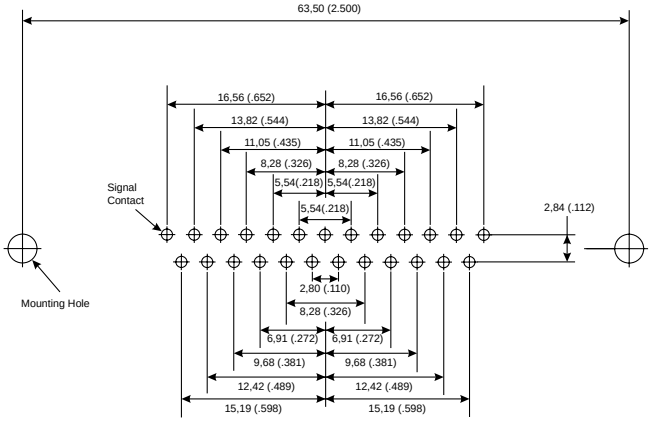
Shell Size	C
Contact Arrangement	17W5
No. of Size 20 Cavities	12 #20
No. of Size 8 Cavities	0 #8



Shell Size	C
Contact Arrangement	21WA4
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	0 #8



Shell Size	C
Contact Arrangement	25W3
No. of Size 20 Cavities	22 #20
No. of Size 8 Cavities	0 #8

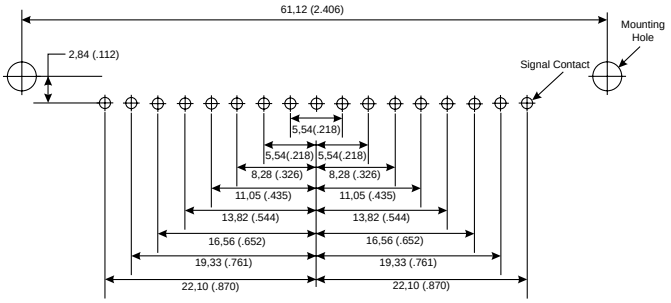


Shell Size	C
Contact Arrangement	27W2
No. of Size 20 Cavities	25 #20
No. of Size 8 Cavities	0 #8

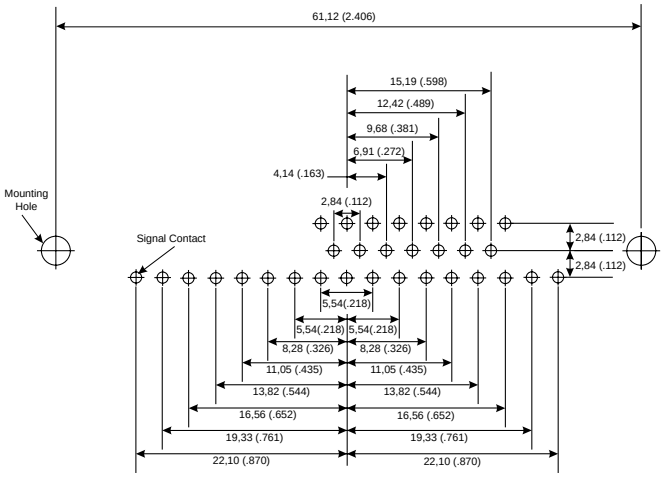
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

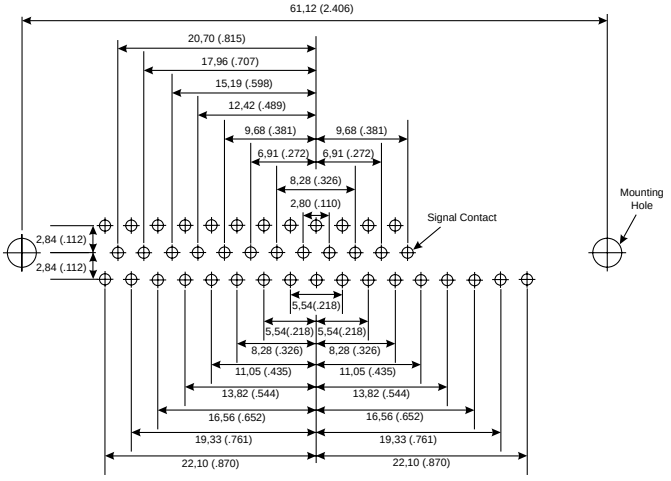
Reader's Resource



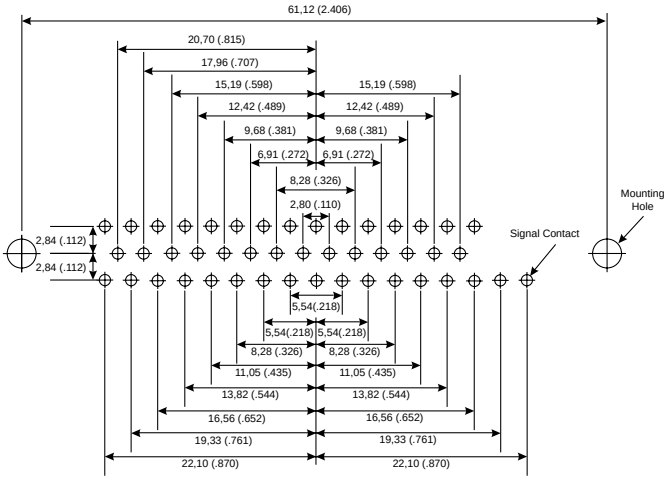
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	0 #8



Shell Size	D
Contact Arrangement	36W4
No. of Size 20 Cavities	32 #20
No. of Size 8 Cavities	0 #8



Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	0 #8

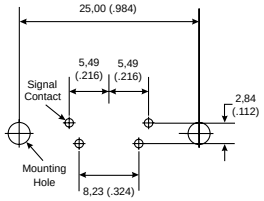


Shell Size	D
Contact Arrangement	47W1
No. of Size 20 Cavities	46 #20
No. of Size 8 Cavities	0 #8

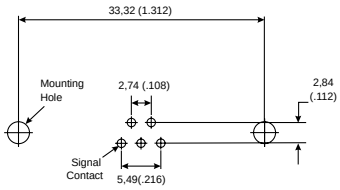
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

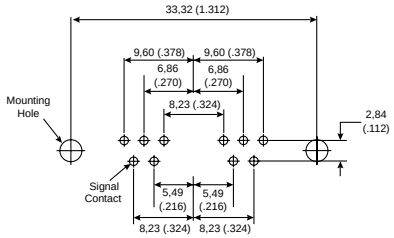
Dimensions are shown in mm (inch)
Dimensions subject to change



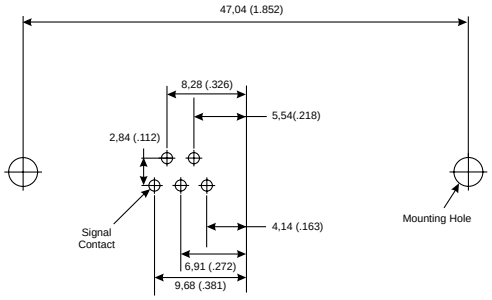
Shell Size	E
Contact Arrangement	5W1
No. of Size 20 Cavities	4 #20
No. of Size 8 Cavities	0 #8



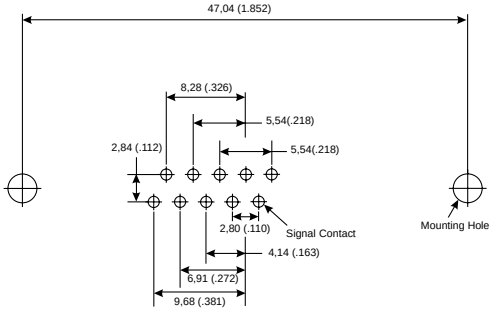
Shell Size	A
Contact Arrangement	7W2
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	0 #8



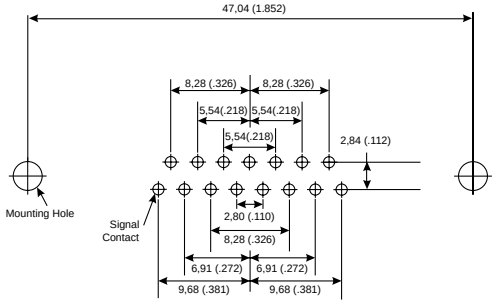
Shell Size	A
Contact Arrangement	11W1
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	0 #8



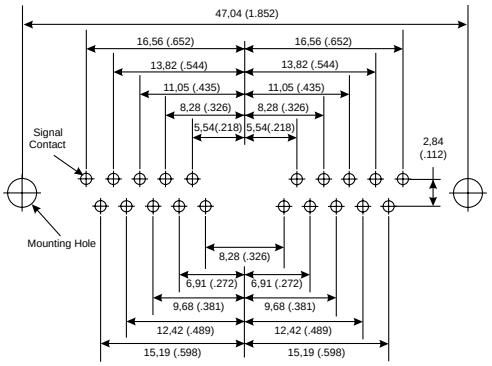
Shell Size	B
Contact Arrangement	9W4
No. of Size 20 Cavities	5 #20
No. of Size 8 Cavities	0 #8



Shell Size	B
Contact Arrangement	13W3
No. of Size 20 Cavities	10 #20
No. of Size 8 Cavities	0 #8



Shell Size	B
Contact Arrangement	17W2
No. of Size 20 Cavities	15 #20
No. of Size 8 Cavities	0 #8

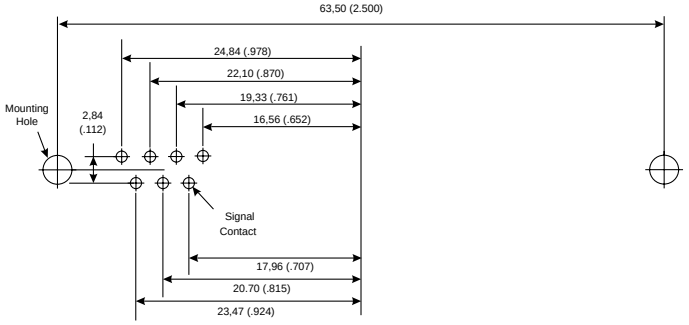


Shell Size	B
Contact Arrangement	21W1
No. of Size 20 Cavities	20 #20
No. of Size 8 Cavities	0 #8

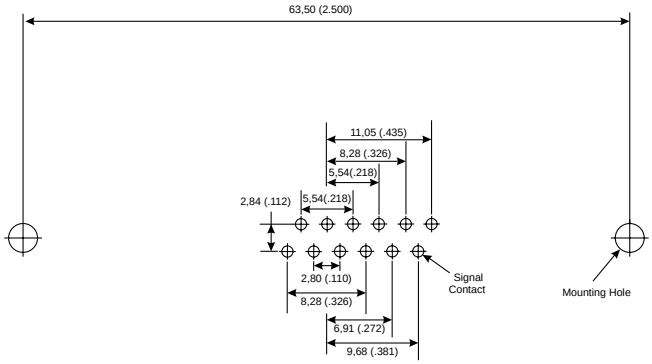
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

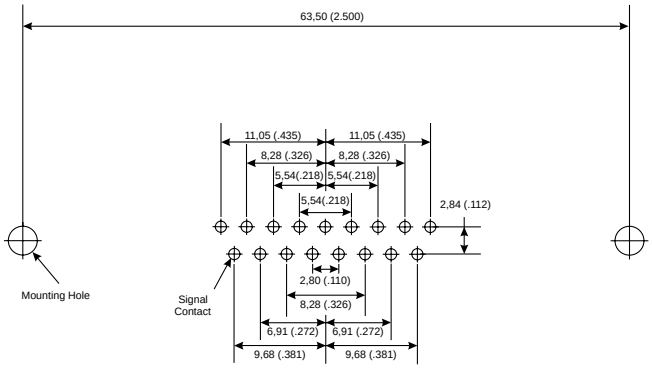
Reader's Resource



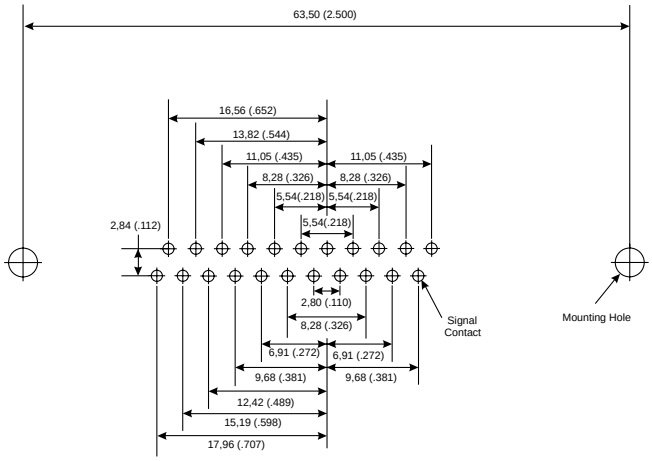
Shell Size	C
Contact Arrangement	13W6
No. of Size 20 Cavities	7 #20
No. of Size 8 Cavities	0 #8



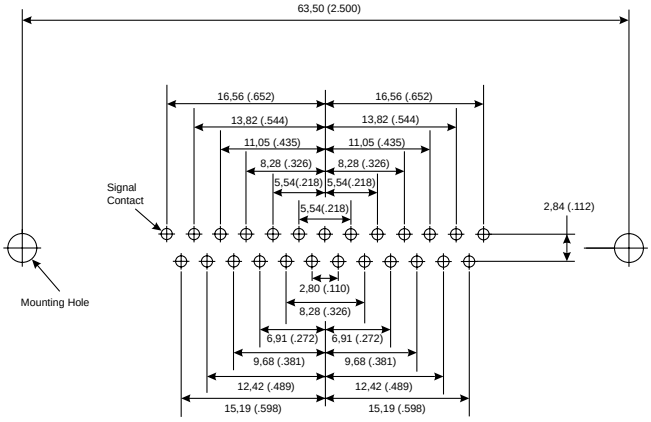
Shell Size	C
Contact Arrangement	17W5
No. of Size 20 Cavities	12 #20
No. of Size 8 Cavities	0 #8



Shell Size	C
Contact Arrangement	21WA4
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	0 #8



Shell Size	C
Contact Arrangement	25W3
No. of Size 20 Cavities	22 #20
No. of Size 8 Cavities	0 #8

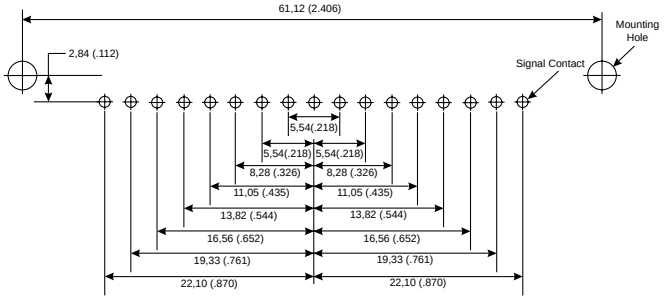


Shell Size	C
Contact Arrangement	27W2
No. of Size 20 Cavities	25 #20
No. of Size 8 Cavities	0 #8

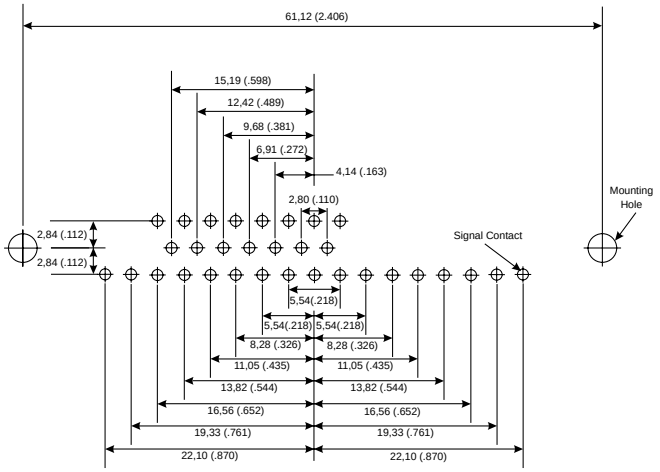
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

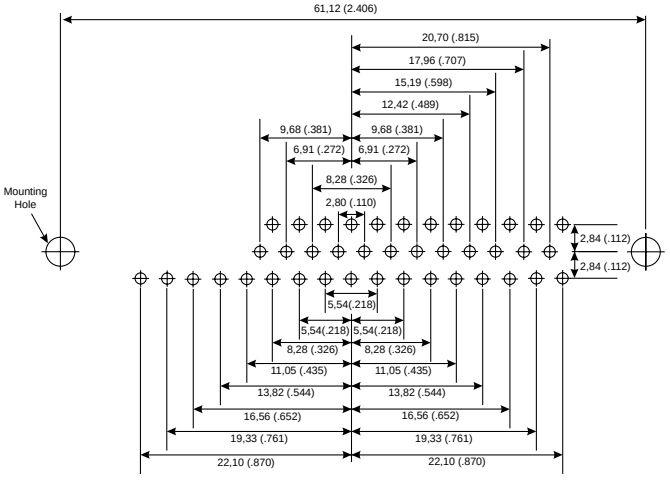
Dimensions are shown in mm (inch)
Dimensions subject to change



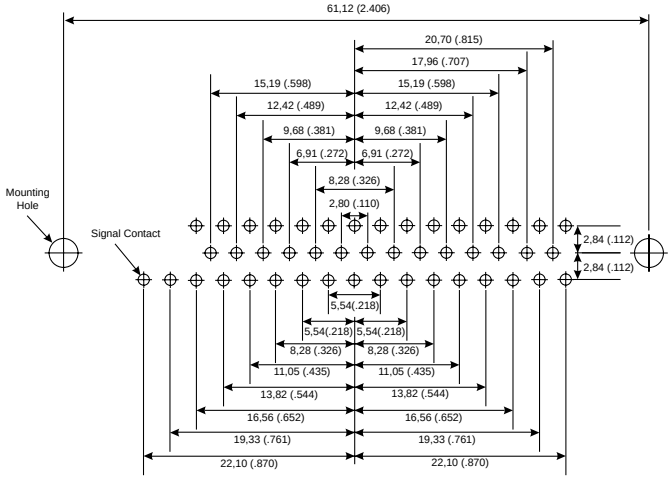
Shell Size	D
Contact Arrangement	24W7
No. of Size 20 Cavities	17 #20
No. of Size 8 Cavities	0 #8



	D
	36W4
	32 #20
	0 #8



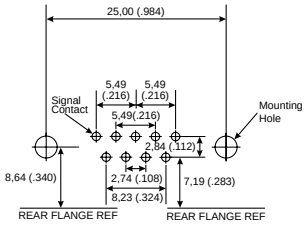
Shell Size	D
Contact Arrangement	43W2
No. of Size 20 Cavities	41 #20
No. of Size 8 Cavities	0 #8



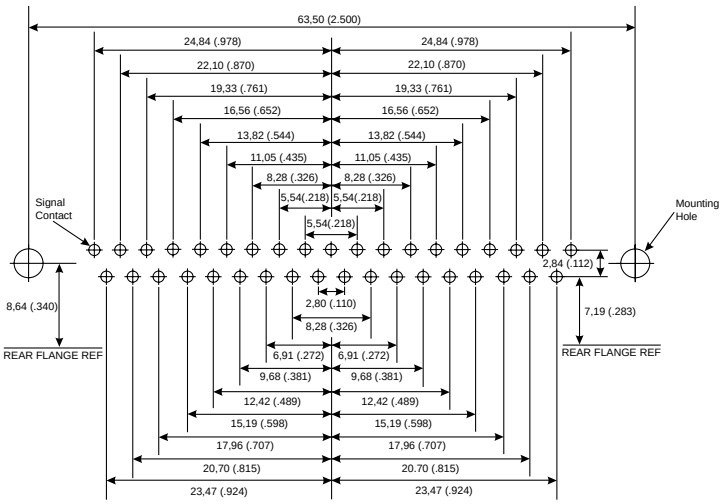
	D
	47W1
	46 #20
	0 #8

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

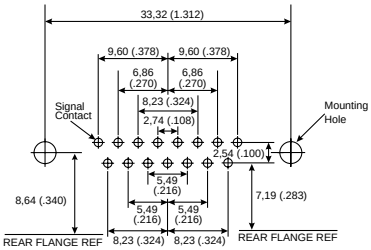
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)



9 Contacts



37 Contacts



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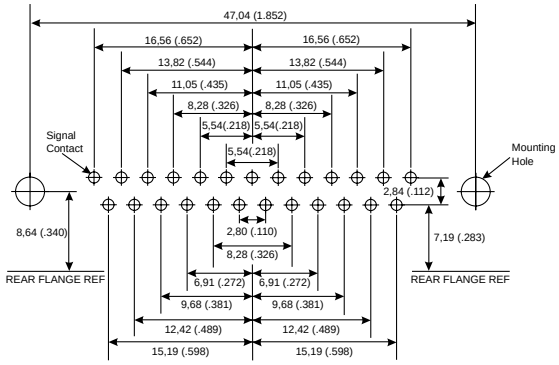

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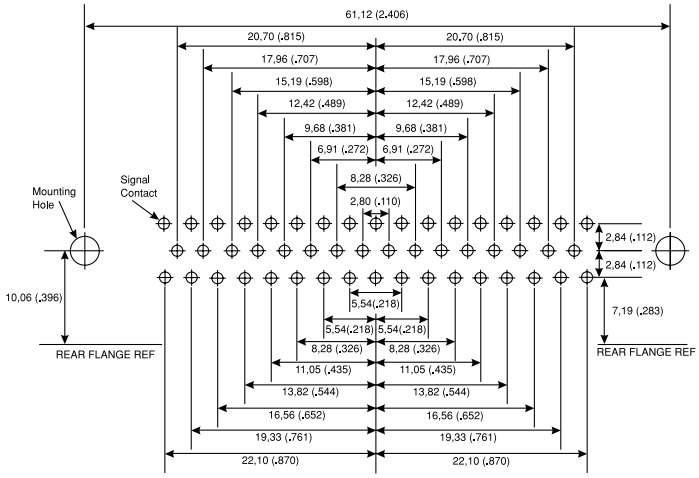


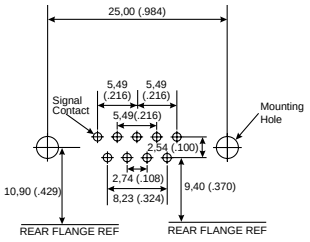
50 Contacts

Signal Contact Ø	Recommended PCB Hole Ø
0,76 (.030)	1,14 (.045)
1,00 (.040)	1,40 (.055)

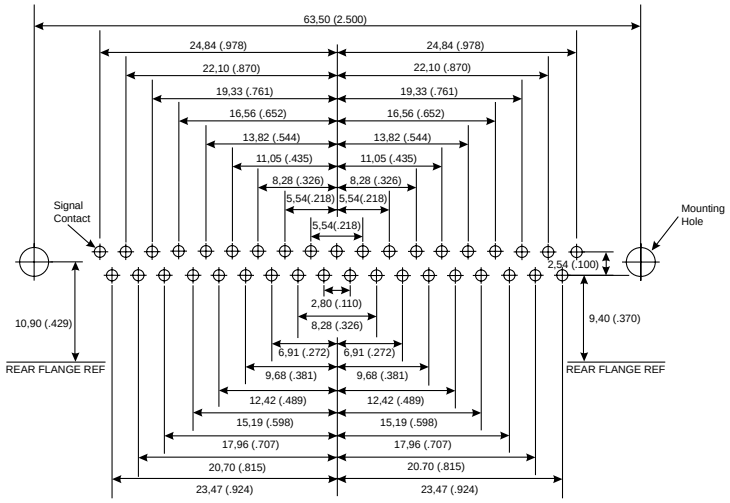
Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

ITT Cannon

Dimensions are shown in mm (inch)
Dimensions subject to change



9 Contacts



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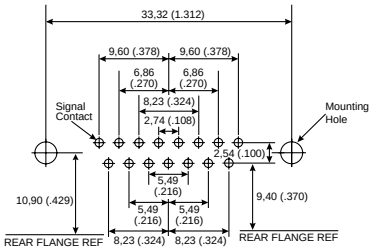

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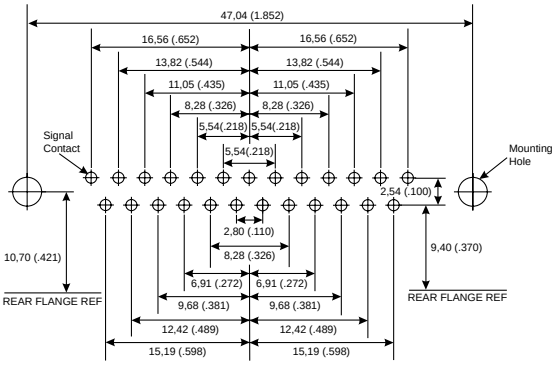

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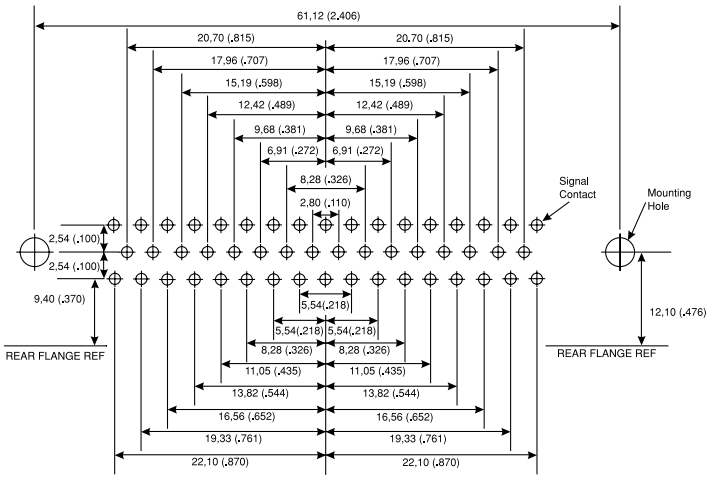
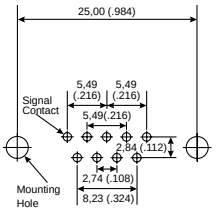


50 Contacts

Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Reader's Resource



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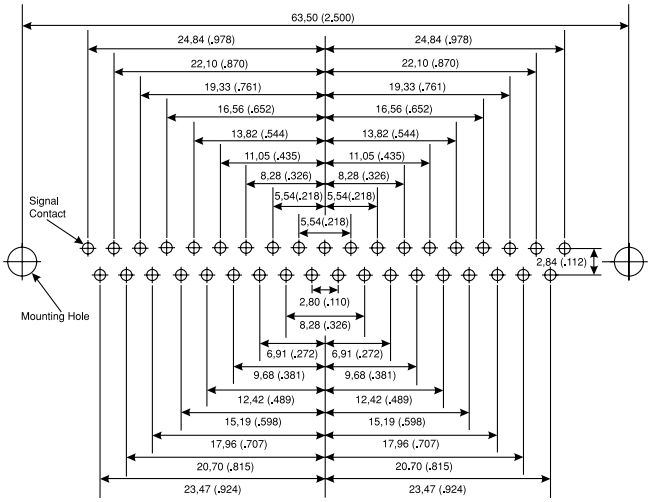

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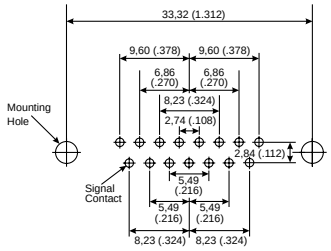

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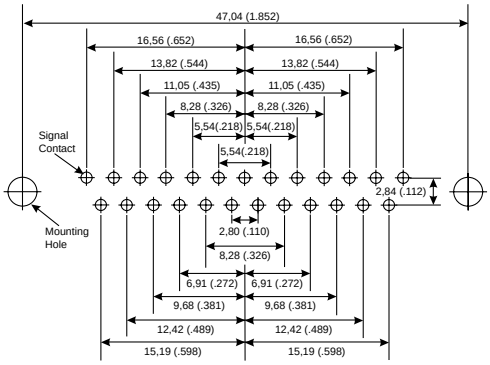

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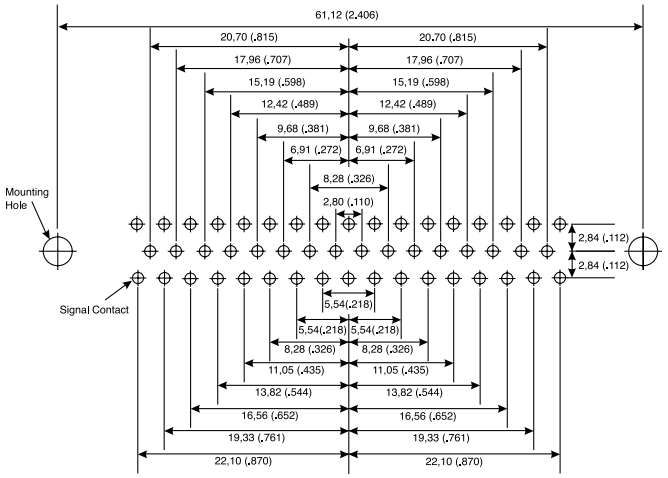


50 Contacts

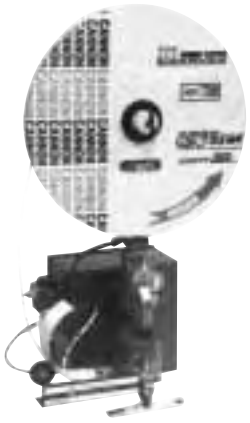
Signal Contact Ø	Recommended PCB Hole Ø
0,60 (.024)	1,00 (.039)
0,76 (.030)	1,14 (.045)
1,00 (.040)	1,40 (.055)

Mounting Type	Recommended PCB Hole Ø
Without Boardlock	3,05 (.120)
With Boardlock	3,10 (.122)

Dimensions are shown in mm (inch)
Dimensions subject to change

ABT-607 Pneumatic Crimper

ABT-607



Products: D*A, MDSM, 75 Ohm Crimp Coax

The ABT-607 is a pneumatic powered and controlled machine. It is designed for customers with moderate volume. This machine is designed to semi-automatically crimp stamped and formed contacts onto pre-stripped stranded or single conductor electrical wire. This machine will accomodate size 34 thru 12 AWG wire and is actuated by the use of a foot pedal.

Machine Crimp Rate: 800 per hour

Power Requirements: Pneumatic = 100 psi, 2 cu. ft. per min.

ABT-620 UCCS Semi-Automatic Crimper/Stripper

ABT-620 UCCS

Products: D*A, MDSM

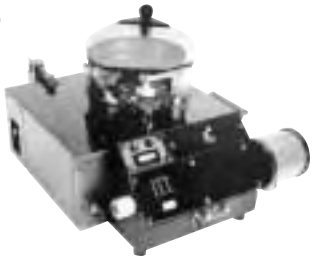
The ABT-620 Universal Cannon Crimper/Stripper is a pneumatic powered, microprocessor controlled machine. It is designed to semi-automatically strip insulation from stranded or single conductor electrical wire and attach a stamped and formed contact by crimping. The machine will accommodate 34 thru 12 AWG wire. Primary application of the machine is the termination of jacketed cable where the individual leads cannot be stripped on fully automated equipment. The ABT-620 UCCS operates automatically upon insertion of a wire or it can be switched over to foot pedal operation as desired.

Machine Strip/Crimp Rate: 1200+ per hour

Power Requirements: Electrical = 115 VAC, 60 Hz, 20 A
Pneumatic = 80 psi, 3 cu. ft. per min.

CBT-646 Vibra-Bowl Crimper

CBT-646



Products: D*MA

The CBT-646, Vibra-Bowl Crimper is a pneumatically powered, electronically controlled machine. It is designed to semi-automatically crimp closed barrel, machined contacts, as used in the aerospace and commercial industries. The machine will accommodate wire sizes 30 thru 12 AWG. The CBT-646 is actuated automatically upon insertion of a pre-stripped stranded or single conductor wire.

Machine Crimp Rate: 1300+ per hour

Power Requirements: Electrical = 115 VAC, 60 Hz, 5 A
Pneumatic = 85 psi, 2 cu. ft. per min.

Glossary of Terms

In every job speciality there are certain words and phrases used by the ''insiders'' which after a time become almost a language unique to that speciality. D Subminiature technology is a typical example of that condition.

The following pages provide some explanations, in an attempt to clarify some of the terms that are commonly used by engineers and sales staff at ITT Cannon.

The list is not comprehensive, but highlights many of the expressions commonly used. Should you have any comments or additions please contact us. Feedback will be appreciated.

Accelerated Aging — A connector test in which temperature, voltage, current, or other parameters are increased beyond the normal operating values to observe deterioration in a relatively short period of time.

Accessories — Auxiliary devices such as cable clamps, endbells, gaskets, or any number of mechanical hardware devices that can be added to a connector.

Alloy — A composition of two or more elements, of which at least one is a metal. In connector applications it is usually a combination of metals which is used to create an alloy superior in performance to any of its individual components.

Alternating Current — A flow of electricity which reaches a maximum in one direction, decreases to zero, then reverses itself and reaches maximum in the opposite direction. This cycle is repeated continuously. The number of such cycles per second is the frequency. The average value of the voltage during any cycle is zero. Abbreviated ac.

Ambient Temperature — The temperature of the environment surrounding the connector. Usually the air. Normally used as the reference when specifying the OPERATING TEMPERATURE range of the connector.

Ampere — A unit of electrical current or rate of flow of electrons. One volt across one ohm of resistance causes a current of 1 ampere. Abbreviated Amp or A.

Anodize — A protective, insulating oxide layer formed on a metal by electrolytic action. Occasionally used as the outer most layer in connector plating, anodize is a very tough, non-conductive plating.

Attenuation — Power loss in an electrical system, expressed in decibels.

AWG — American Wire Gauge. A standard for wire diameters based on the approximate circular mil area of the wire. As numbers get larger, wire diameters decrease in size (a size 16 AWG wire has a larger diameter than a size 22 AWG).

Backshell — (Also known as Endbell) The outer rear end of the connector which is attached by means of internal threads or screws. It adapts the connector to its wire connections in a variety of ways. Typical backshells might have cable clamps to secure a wire bundle, ridges for heat shrink tubing, pipe threads, or shielded termination mechanisms. Backshells may be straight, 90°, or 45°.

Bandwidth — The range of frequencies within which performance falls within specific limits. Usually the bandwidth is given as an operating range and the operating specifications apply only to that bandwidth, unless otherwise stated.

Bar — A centimeter-gram-second unit of pressure (force exerted on a unit of area) equal to 1,000,000 dynes per square centimeter. Formerly known as microbar. Its symbol is b.

Base Metal — The metal which the connector or connector component is made and over which various platings will be deposited.

Beryllium Copper — An alloy of copper used to make contacts. It is relatively expensive, but has superior spring qualities, is resistant to fatigue, and can operate at higher temperatures than other materials such as phosphor bronze. It is used when numerous insertion and extraction cycles are required.

Body — The main portion of the connector made of the shell, insulator, and contacts.

Boot — A rear accessory, usually made of a resilient material, which is used around a multiconductor cable to add additional insulation, strength, abrasion resistance, or sealing.

Brass — Metal alloy of copper and zinc used for contacts. It is low cost, an excellent conductor, and resists fatigue.

Breakdown — An electrical discharge through a connector insulator or insulation on a wire. A catastrophic failure mode.

Breakdown Voltage — The voltage at which an insulator ruptures.

Breakout — The point at which wires are separated from a multi-conductor cable or wire bundle for routing to other points.

C — Abbreviation for Centigrade, or more properly Celsius, since the term Centigrade was officially abandoned by international agreement in 1948. See CELSIUS.

Cable Assembly — A cable (or bundle of cables) with plugs and/or receptacles on each end.

Cable Clamp — A rear connector clamping accessory which tightens over a cable or wire bundle to provide strain relief to the cable. The cable clamp may be part of a more elaborate endbell or it may be used alone. Some cable clamps also provide cable jacket sealing using a resilient gland; for example the MS3057-C, others provide only strain relief.

Cadmium — A metallic element chemically related to zinc and mercury, widely used for plating. It has an extraordinary ability to resist outdoor corrosion. It is especially resistant to alkali. Cadmium is electrically conductive and it is easy to solder. Its symbol is Cd.

CECC — Abbreviation for Electronic Components Committee of CENELEC, the European committee for Electrotechnical Standardization. CECC uses the IEC test methods, and thus is based upon worldwide standards.

Celsius — A temperature scale in which the freezing point of water is 0° and the boiling point is 100° at normal atmospheric pressure. Formerly known as Centigrade, but officially changed to Celsius by international agreement in 1948.

CEN — Abbreviation for European Committee for Standardization. A European standards group corresponding to the ISO at the European level.

CENELEC — Abbreviation for European Committee for Electrical Standardization. A European standards group corresponding to the IEC at the European level.

Chamfer — A bevel cut on the inside edge of an insulator contact cavity or a mounting hole. In a contact cavity the chamfer is intended to guide the mating pin into the cavity. In a mounting hole it is a countersink to accept a cone shaped bolt.

Characteristic Impedance — The characteristic impedance of a transmission line is the impedance of the line when it is terminated in a perfect load (a load that absorbs all the energy and reflects none, such that VSWR = 1.00).

Clearance Hole — See Through Hole.

Closed Entry — An insulator design which limits the diameter of the mating contacts.

Dimensions are shown in mm (inch)
Dimensions subject to change

Glossary of Terms

Closed Socket Contact — A socket contact in which the mating cavity limits the entry of a contact or probe having a diameter larger than the mating pin.

Coax — Abbreviation for coaxial.

Coaxial Cable — A cable that comprises a single copper wire surrounded by insulating material, wire shielding or mesh, and a plastic protective sheath.

Component — An essential functional part of the connector.

Contact — The conductive element in a connector which makes the actual connection between the wire and the mating connector for the purpose of transferring electrical energy. Ideally the contact should add nothing to the circuit. In the real world, however, contacts typically have a small CONTACT RESISTANCE and associated potential drop.

Contact Alignment — The overall play that a contact has in the insulator cavity to allow the mating contacts to self align. Also called contact float.

Contact Arrangement — See LAYOUT.

Contact Cavity — A defined hole in the connector insulator into which the contacts fit. The cavities are generally marked with a unique designation or number for ease of identification.

Contact Resistance — The maximum amount of resistance which a contact introduces into the connection when carrying a specified current (usually stated in milliohms). When not stated, values are typically given for ''Initial'' or ''new'' contacts. Most specifications also limit the maximum resistance during or after each of a series of extreme tests, such as ''Contact Resistance After Corrosion Test''. These figures are typically slightly higher than ''Initial''.

Contact Retention — The maximum allowable axial load which can be applied to a contact from either direction without it being dislodged from the insulator. Usually stated in Newtons or pounds of force.

Contact Separation Force — The force required to separate a pair of mated contacts. Usually stated in Newtons or pounds of force.

Contact Size — This usually relates to the maximum size wire this contact can nominally accommodate. It is based on that AWG size most closely corresponds to the circular mil area of the engaging end of a pin contact for that size. For example, a size 16 contact can accomodate a size 16 AWG wire maximum and the pin corresponds to the CMA of a size 16 AWG. Note, however, that oversized crimp pots are available for some crimp contacts which will allow, for example, a size 16 contact to accommodate a size 14 AWG wire.

Contact Spacing — The distance between the centers of adjacent contacts.

Creepage — The conduction of electricity across the surface of an insulator.

Creepage Distance — The shortest distance between contacts of opposite polarities, or between a live contact and ground, measured over the surface of the insulator.

Creepage Path — A path across the surface of the insulator between two conductors. Lengthening the path reduces the possibility of arc damage.

Crimp — A method of attaching a contact to a wire through the application of pressure.

Crimp Contact — A contact which is terminated to a wire by means of crimping with an appropriate die and tool. After termination, an insertion tool is normally used to insert the crimped contact into the connector. Removable crimp contacts can be FRONT RELEASE or REAR RELEASE. An extraction tool is usually required to remove the contact.

Crosstalk — Undesired electrical currents in conductors caused by electromagnetic or electrostatic coupling from other conductors or from external sources. Also, leakage of optical power from one optical conductor to another.

CSA — Abbreviation for Canadian Standards Association.

Current — The movement of electrons through a conductor. Current is measured in amperes. Its symbol is L.

Current Rating — The maximum current that a particular wire, contact, or connector can accommodate. NOTE: When several wires are used in a single connector or elevated temperature or altitude is involved, derating curves must be applied to these ratings. A typical derating system is MIL-W-5088 which allows the user to calculate the derating effects of current, ambient temperature, number of wires in the bundle, and altitude.

Decibel — A standard unit of measure for transmission gain or loss. It expresses the ratio of power input to power output. Abbreviated dB. The term dBm is used when 1 milliwatt is the reference level.

Derating — To reduce the voltage, current, or power rating of a connector to improve its reliability or to permit operation at high ambient temperatures or altitudes.

Derating Curve — A graph of the change in power handling capability of a connector as a function of ambient temperature or altitude. Typically the graphed function is curved, hence the name.

Diallyl Phthalate — A thermosetting plastic used for insulators and some types of connector housings. It has outstanding resistance to chemicals, excellent dimensional stability, and superior electrical insulating properties.

Dielectric — An insulator used to isolate two conductors having a low loss factor (RF cables). The perfect insulator is a vacuum.

Dielectric Constant — That property (K) of an insulating material which is the ratio of the parallel capacitance (C) of a given configuration of electrodes with the material as the dielectric, to the capacitance of the same electrode configuration with a vacuum as the dielectric.

Digital — A signal comprising discrete elements.

DIN — Abbreviation for Deutsche Industrie Norm, a German standards organization.

Direct Current — An essentially constant value of current that flows in only one direction. Abbreviated dc.

Dust Cap — A cover used in place of a mating connector to seal it against dirt and moisture. Usually secured to the connector by a captive chain, wire, or rope.

Electroplating — To deposit a metal on the surface of a conductor using electrolysis.

EMI/RFI — Electro-Magnetic Interference and Radio Frequency Interference. This is unwanted stray electronic radiation which may enter, and/or be emitted by an electronic system. The most common method of shielding interconnections against this radiation is to use wires with a metallic braided shield and a connector system which will extend the shield through the interconnection. This type of design will keep radiation from entering, or being emitted by the system. Backshells for shielded cable and connectors with threads or grounding fingers are typically used for this purpose. Call for the specific EMI/RFI accommodations of the connectors in this catalog.

Glossary of Terms

EN — Abbreviation for Euro Norm. A European market-wide product standard.

Endbell — See BACKSHELL.

Extraction Tool — A device used to remove a (removable) contact from a connector insulator. The extraction tool may be inserted into the mating face of the insulator (FRONT RELEASE) or the wire side (REAR RELEASE). In either case, the contact comes out the rear, or wire side, of the connector.

Fahrenheit — A temperature scale in which the freezing point of water is defined as 32° and the boiling point is 212° at normal atmospheric pressure. See the conversion tables for converting Fahrenheit to Celsius. Abbreviated F.

Female Contact — See SOCKET CONTACT.

Ferrule — A bell shaped ring which is placed over a WIRE SEALING GROMMET to provide uniform axial compression of the grommet and to minimize the transmission of torque to the grommet when the backshell is screwed on to the rear of the connector. Ferrules are a part of the sealing mechanism at the rear of a connector. Ferrules are normally a separate component part of the connector although some backshells have integrated ferrules. Ferrules are usually made from a thermoplastic material, but occasionally ferrules are made of metal.

Finish — The metalic coatings used on contacts and metal connectors. These are thin layers of metal designed to improve conductivity, solderability, or to resist corrosion. Typical contact finishes are gold or silver. Typical shell finishes are olive drab over cadmium, electroless nickel, or black anodize.

Flange — A square mounting flange with four mounting holes for bolting the connector to a panel. The mounting holes may be through holes or threaded.

Flanged Receptacle — (Also known as a Box Mount or Wall Mount) The shell of this connector has a square flange with mounting holes at each corner. Mounting holes are usually through holes, but may be threaded. Flanged receptacles can usually be front or rear panel mounted depending upon panel thickness. Some connectors have two different versions, one for front mounting, and one for rear panel mounting.

Flash Plating — As commonly used in connector terminology, flash refers to extremely thin platings of metal, for example: gold flash is a very thin plating of gold. So thin, that the thickness is generally not specified.

Front Mounting — A receptacle that can only be mounted to the front of a panel with its mounting FLANGE outside the equipment.

Front Release — For crimp type removable contacts, front release means that the appropriate extraction tool is *inserted from the front*, or mating face, of the connector. The contact is then pushed out the *rear* (wire side) of the connector.

Gas Tight — The mating of two contact surfaces which are so tight that corrosive gasses can not enter the joint.

Gold — A precious metal that is more conductive than silver or copper. Because it does not corrode and is highly conductive, it is used as plating for contacts. Its chemical symbol is Au.

Grommet Cavity — A defined hole in the WIRE SEALING GROMMET through which the wires are passed. The cavities are generally marked with a unique designation or number for ease of use.

Guide Pin — A special pin which is inserted into a socket contact before the contact can be inserted into the connector insulator. Guide pins provide a rounded surface at the front of the socket and greatly aid in pushing the contact into the insulator thus avoiding damage to both the insulator and the contact. Typically, small size socket contacts require the use of guide pins while larger sizes can be inserted without them.

Harness — A group of wires or cables bundled together with attached connectors and/or components in a preshaped assembly.

Hz — Symbol for Hertz, an international unit of frequency equal to one cycle per second. That is, 20,000 Hz is 20,000 cycles per second.

I/O — Input/Output

IEC — Abbreviation for the International Electrotechnical Commission. An international organization that develops standards exclusively for electrical engineering. CENELEC is the equivalent organization at the European level.

Impedance Match — When a transmission line is terminated so that VSWR = 1.00. Another definition is when a source is terminated in an impedance that allows optimum energy transfer.

Indentor — The part of a crimping die which indents the contact barrel to form the actual crimp. Indentors normally make six or eight multiple indentions for each crimp.

Initial — A test result taken prior to any other environmental testing. For example, contact resistance is frequently specified ''Initial'', that is, with ''new'' contacts. Most specifications also limit the maximum resistance during or after each of a series of extreme tests, such as ''Contact Resistance After Corrosion Test''. These figures are typically slightly higher than ''Initial''.

Insert — See INSULATOR.

Insert Arrangement — See LAYOUT.

Insert Retention Force — The maximum allowable force which should be applied to the face of the insulator without dislodging it from the shell or causing any change in connector performance specifications. Usually stated in Newtons or pounds of force.

Insertion Force — The effort, usually stated in ounces or Newtons, required to engage two contacts or connector halves.

Insertion Loss — The attenuation that results when a transducer is inserted in a transmission line. It is the ratio of the power input to the transducer to the power out of the transducer expressed in decibels.

Insertion Tool — A small, hand-held tool used to insert contacts into a connector.

Insulation — A material that has high electrical resistance and is suitable for covering or encasing electrical components to prevent a short circuit.

Insulation Displacement Connector (IDC) — A connector contact with sharp tines which pierce and displace the wire insulation and make direct electrical connection with the conductor. Normally used with multipin connectors which must be terminated to flat cable. This is a fast, low cost method to terminate many conductors simultaneously.

Insulation Resistance — The minimum resistance (usually stated in Megohms) between adjacent contacts and between the contacts and the shell at a specific voltage. When not stated, values are typically given for new insulators. Most specifications also specify minimum resistance figures during or after each of a series of extreme tests, such as ''Insulation Resistance During Dry Heat''.

Insulation Support — An extended portion at the rear of a crimp contact that is crimped around the wire insulation to provide extra strain relief. This crimp is in addition to the crimp over the conductor which provides the actual electrical termination.

Glossary of Terms

Insulator — The insulating element into which the contacts are mounted in a connector. This can be a resilient material, thermoplastic, or a thermoset compound, among other materials.

Insulator Rotation — A method of differentiating a circular connector if more than one connector with the same sex and layout is to be used in a system. The insulator is permanently positioned in the shell so that only a connector with the same degree of rotation can be mated with it. Possible rotations are specific to each layout with some layouts having many possible rotations and others having none. A chart of valid rotations is listed by layout for connectors capable of being rotated. Most connector series use the military convention of assigning letter designations for specific degrees of rotation (for example: W, X, Y, Z). See KEYING.

Interchangeable — The characteristic of connectors in which a connector half of one manufacturer or series will directly replace that of another manufacturer and provide the same electrical and mechanical function.

Intermateable — The characteristic of connectors in which a connector half of one manufacturer or series will mate directly with the connector half of another manufacturer.

Intermittent — Occurring at intervals. A connection which passes electrical current only in random or undesirable intervals.

Intermountable — The characteristic of connectors in which one manufacturer's connector or series will mount in exactly the same panel space and mounting holes as another manufacturer's product.

ISO — Abbreviation for the International Standards Organization. A group that operates at the international level and sets most standards for industry, with the exception of electrical engineering and telecommunications which are set by the IEC and ITU respectively. CEN is the equivalent organization at the European level.

Jacket — The outermost layer of insulation in a cable composed of several wires.

Jackscrew — A screw attached to one half of a connector pair used to mechanically align, draw them together, and lock them in place.

Key — A mechanism used to polarize connectors by the user. See KEYING.

Keying — A method of differentiating a connector if more than one connector with the same sex and layout is to be used in a system. The key is usually a pin or other projection which can be located in a contact cavity or slot. The key will prevent a connector without a matching orifice from mating. Keying and POLARIZATION serve the same function, but keying can be done by the user, while polarization is manufactured into the connector and normally can not be altered by the user.

Layout — The number, size, and geometric arrangement of the contacts in a connector. When a connector is said to have a certain ''layout'' it refers to a specific contact configuration. For example, Combo D® has 2 pages of drawings showing the arrangement of the contacts in the insulator. Each of these contact cavity arrangements can be referred to as a layout.

Locator — A part of a crimping tool TURRET. Rotation of the locator sets the tool for a particular size or sex contact. See TURRET.

Male Contact — See PIN CONTACT.

Mating Life — The minimum number of times a connector can be mated and unmated and still meet all of its design specifications. The maximum life may be much higher than this figure.

Mil — One thousandth of an inch (.001). Used in the United States as a unit of length in wire diameters and linear dimensions.

Mil-Spec — Abbreviation for Military Specification.

Milliampere — One one-thousandth (.001) of an ampere. Abbreviated mA.

Millimeter — Metric unit of linear measure. 1 millimeter = .03937 inches. Abbreviated mm.

Milliohm — One one-thousandth (.001) of an ohm. Abbreviated mΩ.

mm^2 — Millimeters squared. A standard for wire diameters used in Europe instead of AWG. As numbers get larger, wire diameters increase in size. The relationship between mm^2 and AWG is reverse logarithmic. 1 mm^2 = 1973 circular mils. A conversion graph is needed to make accurate comparisons between AWG and mm^2. Call for assistance.

Mounting Clip — Any of a variety of mounting accessories used to secure a connector or connector pair to a rigid surface.

Multi-Conductor Cable — Two or more individual wires surrounded by a jacketing material.

Nest — The portion of a crimping die that supports the contact barrel during crimping.

Newton — A unit of acceleration. One Newton is the force capable of accelerating 1 kilogram to one meter per second per second. 1 pound force = 4.448221 Newtons. Abbreviated N.

Ohm — The unit of electrical resistance. One ohm is the value of resistance through which a potential difference of one volt will maintain a current of one ampere. Its symbol is the Greek letter omega (Ω).

Operating Temperature — The range of AMBIENT TEMPERATURES over which the connector can operate and still meet all of its design specifications.

Operating Voltage — The range of voltages over which the connector can be operated. Safety precautions must be taken anytime a voltage in excess of 50V is to be used in a circuit. Check your local and national codes for guidelines.

Outgassing — The circumstance in which an insulator releases gasses trapped within it under a vacuum or conditions of decreased pressure, high heat, or both.

Panel — The outside surface of a piece of equipment on to which connectors are mounted. The panel is usually made of metal.

Panel Mount — A connector designed to be mounted on a panel by means of screws or jam nut.

PCB — Abbreviation for Printed Circuit Boards.

Performance Class 1 — Performance class per European specification DIN 41652, specifying contact performance to 500 mating cycles, followed by testing per DIN 41640, Part 21. The contact is subjected to severe environmental conditions, including industrial gasses, after the 500 mating cycles, and must meet basic contact resistance, engaging force, and separation force tests.

Performance Class 2 — Performance class per European specification DIN 41652, specifying contact performance to 200 mating cycles, followed by testing per DIN 41640, Part 21. The contact is subjected to severe environmental conditions, including industrial gasses, after the 200 mating cycles, and must meet basic contact resistance, engaging force, and separation force tests.

Glossary of Terms

Performance Class 3 — Performance class per European specification DIN 41652, specifying contact performance to 50 mating cycles, followed by testing per DIN 41640, Part 21. The contact is subjected to severe environmental conditions, including industrial gasses, after the 50 mating cycles, and must meet basic contact resistance, engaging force, and separation force tests.

Peripheral Seal — A resilient seal used to keep moisture from entering the connector at the point where the plug and receptacle shells meet. A common method is to use flat gaskets on receptacles and O-rings on plugs.

Phosphor Bronze — An alloy of copper, tin, and phosphorus used to make spring contacts. It is typically used in lower cost contacts where frequent insertions and withdrawals and high temperatures are not a factor.

Pin — A male contact. See PIN CONTACT.

Pin Contact — The contact which has a long shaft at the engagement end which enters the socket contact.

Plating — See FINISH.

Plug — The male portion of a connector pair usually employing a coupling nut to secure it to the receptacle half. A plug may have either pin or socket contacts.

Polarization — A mechanical mechanism that allows connector halves to intermate in only one specific orientation. This can be accomplished by asymmetrical shapes of the two halves as in a D Subminiature connector, insulator rotation, keys, keyways, ramps, or other means. Polarization prevents connectors of the same size and/or same layout from intermating when this is undesirable, such as when two otherwise identical connectors are used on the same panel. Polarization is typically done by the assembler and can not be changed by the user, while keying is typically done by the user with an auxiliary keying device.

Polarizing Pin — A mechanism used to polarize connectors, manufactured into the connector. See KEYING.

Potting — The permanent sealing of a cable to a connector using an insulating material such as potting compound to exclude moisture or provide strain relief. See POTTING CUP.

Potting Compound — A sealing material used in potting to fill a potting cup.

Potting Cup — A bell-shaped (plastic) backshell with an enlarged opening for the wires. After the connector is loaded with wired contacts, the potting cup is attached to the rear of the connector. The inside of the cup is then filled with a potting compound. When the compound hardens, it forms a solid, permanent, watertight mass around the wires.

Potting Ring — A portion of the POTTING CUP which secures the bell shaped cup to the rear of the connector, usually by means of internal threads.

Pre-Tin — To apply tin-lead solder to the contact solder cup and/or conductor prior to soldering the two together.

Rear Mounting — A receptacle that mounts through the panel from the rear, with its mounting flange inside the equipment. Typically, rear mount receptacles are slightly longer than front mount types to allow for the thickness of the panel. Flange mount receptacles usually come in front and rear mount versions. All Jam nut receptacles are rear mount.

Rear Release — For crimp type removable contacts, rear release means that the appropriate extraction tool is *inserted from the rear*, or wire side, of the connector. The contact is then pulled out the rear of the connector.

Receptacle — The connector half that mates with the plug. The receptacle has threads, pins or ramps which engage the coupling nut on the plug, locking the two halves together. A receptacle may have either pin or socket contacts.

REF — Abbreviation for Reference.

Removable Contact — A contact which can be inserted and removed from the insulator by the user. An insertion tool and extraction tool are normally required to insert and remove the contact.

Removal Tool — See EXTRACTION TOOL

Resistance — That property of a substance which impedes current and results in the dissipation of power in the form of heat. The unit of resistance is the ohm.

Return Loss — The ratio of the power reflected from a discontinuity in a transmission line to the power incident.

RFI — See EMI/RFI.

Root Mean Square — The square root, of the average of the squares, of the values of a periodic quantity (like alternating current), taken through one complete period. It is the effective quantity of a periodic quantity. Abbreviated rms.

Salt Spray Test — A test, or series of tests, in which mated and/or unmated connectors are subjected to salt water under specified conditions. Used to test the connector's resistance to corrosion and any associated degradation in electrical function.

Screw Machine Contact — A contact made from a solid bar or rod using screw machine operations. Some screw machine contacts include secondary elements which are welded, crimped, or formed around the basic screw machined part to complete the contact.

Selective Plating — The application of metal PLATING to selective areas of the contact, particularly those areas subject to wear. Precious metal platings may be applied selectively to those contact surfaces responsible for the electrical connection, reducing the contact cost without sacrificing electrical performance.

Shell — The outside case of a connector into which the insulator and contacts are situated.

Shell Size — A standard system developed for military circular connectors for indicating the diameter of the shell. The system is based upon 1/16" increments, that is, a size 16 shell is one inch in diameter.

Shield Effectiveness — The ability of a shield to screen out undesirable signals.

Shock — An abrupt impact applied to a stationary object. It is usually expressed in gravities (g).

Socket — A female contact. See SOCKET CONTACT.

Socket Contact — The contact which has an opening at the engagement end to accept the pin contact.

Solder Contact — A contact which is terminated to the wire with solder. Solder contacts are normally bonded into the insulator and can not be removed by the user. The alternative is crimp contacts to which a wire is attached by crimping. Crimp contacts can usually be inserted and removed by the user.

Solder Cup — The end of a SOLDER CONTACT is designed to accept a wire which will then be soldered to the contact.

Stamped and Formed Contact — Contacts made by stamping and forming a sheet of metal rather than by machining metal stock. Also see SCREW MACHINE CONTACTS.

Dimensions are shown in mm (inch)
Dimensions subject to change

Glossary of Terms

Star Clip — One of several designs used for screw machine socket contacts. A tiny plated star shaped clip is captivated inside a solid barrel into which the pin contact fits. The clip creates a multi-point area of mechanical and electrical continuity between the mated contacts.

Stripper — A tool to remove insulation from a wire.

Test Voltage — The range of voltages over which the connector has been tested per the perimeters in the applicable specification.

Thermoplastic — A plastic material that can be softened by heat and rehardened into a solid state by cooling. This process can be accomplished using a variety of techniques.

Thermoset — A plastic material which hardens when heat and pressure are applied. Unlike thermoplastic, it cannot be remelted or remolded.

Through Hole — (Also known as a clearance hole) A mounting hole without threads.

Turret — An interchangeable device which is attached to a CRIMP TOOL that allows the tool to crimp a range of contacts. Each turret is made to crimp a specific style contact or a range of contacts and/or wire gauges. See LOCATOR.

UL — Abbreviation for Underwriter's Laboratories, a corporation supported by a group of underwriters for the purpose of establishing safety standards covering certain types of equipment and components in the United States.

UL 94V-O — A flammability performance rating set by Underwriter's Laboratories for plastics.

V — Symbol for volt.

Vac — Volts, alternating current.

Vdc — Volts, direct current.

Vibration — A continuously reversing change in the magnitude of a given force.

Volt — The unit of measurement of electromotive force. It is equivalent to the force required to produce a current of 1 ampere through a resistance of one ohm.

Voltage — The force which causes current to flow through an electrical conductor. Its symbol is E. The greatest effective difference in potential between and two conductors of a circuit.

Voltage Drop — The difference in voltage between two points in a circuit due to the loss of electrical pressure as a current flows through an impedance.

Voltage Rating — The maximum voltage which a connector can sustain without breaking down or varying from design specifications.

Voltage Standing Wave Ratio — If a signal is sent down a transmission line any discontinuity will send a reflection back in the opposite direction.

Wire Sealing Grommet — A resilient disc with holes in it to accommodate the individual wires entering the rear of the connector. Each cavity forms a tight seal against the wire insulation (as long as wires within the specified diameter are used). The grommet seals the back of the connector against moisture, dirt, and air. The grommet is normally held in place and compressed by a backshell and/or ferrule. It is usually a separate component, but may be part of the insulator itself. Also see GROMMET CAVITY.

Wire Size — A numerical designation for conductor diameter. This catalog uses American Wire Gauge (AWG) which is based on the approximate circular mil area of the wire. See AWG and mm^2.

Wrap Post Contact — A type of contact which is terminated by wrapping wire around a post in a manner that deforms the wire and creates a gas-tight connection between the wire and the post. This method is slow and labor intensive. If used at all, it is used in prototype work.

Obsolete Products

General Application Connectors♦

D*C	*Burgun D* with snap-in, rear release machined or stamped crimp contacts. Refer to D*U products.	D*PF	Straight and 90° PCB applications, UL 94V-0 rated. Refer to D* products.	D*11148 D*(SMT)	SMT – Surface Mount D, no replacement, only through holes available. Refer to ZED* products.
D*P	90° connectors for I/O applications, UL 94V-0 rated. Refer to D*U products	AD*	Part number change only. Refer to ZD* products.	D*P1	Machined pressfit replaced by stamped pressfit. Refer to D*NG products.
				D*TC	Part number change only. Refer to D* products.

Available Products Not Listed Within This Publication

General Application Connectors♦

D*U	*Burgun D* with snap-in, rear release machined or stamped crimp contacts, UL 94V-0 rated.	D*MA	Military specification quality removable crimp style contacts for high performance applications.
D*SF	*Speedy D* for IDC ribbon cable, UL 94V-0 rated, accomodates Sizes 28-26 AWG cable on 1,27 (.050) conductor spacing.	ZD*A	Low cost, stamped contacts, high density 90° PCB connectors.

Special Application Connectors♦♦

GD*	*Grommet D* environmentally sealed, crimp, snap-in, rear release contacts.
D*D	Environmentally sealed, cast aluminium shell. Product not intermatable with M24308 type D Subminiature connectors.

♦ Commercial Applications Only

♦♦ Military or Commercial Applications

Consult factory for details.

Dimensions are shown in mm (inch)
Dimensions subject to change

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Dimensions are shown in mm (inch)
Dimensions subject to change

Product Safety Information

THIS NOTE MUST BE READ IN CONJUNCTION WITH THE PRODUCT DATA SHEET/CATALOG. FAILURE TO OBSERVE THE ADVICE IN THIS INFORMATION SHEET AND THE OPERATING CONDITIONS SPECIFIED IN THE PRODUCT DATA SHEET/CATALOG COULD RESULT IN HAZARDOUS SITUATIONS.

1 MATERIAL CONTENT AND PHYSICAL FORM
Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials and can be divided into two groups.
a) Printed circuit types and low cost audio types which employ all plastic insulators and casings.
b) Rugged, Fire Barrier and High Reliability types with metal casings and either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with type of connector and also application and are usually manufactured from either: Copper, copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

2 FIRE CHARACTERISTICS AND ELECTRIC SHOCK HAZARD
There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionisation and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering or slack screw terminals. Overheating may occur if the ratings in the product Data Sheet/Catalog are exceeded and can cause breakdown of insulation and hence electric shock.
If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper of spring contacts, formation of oxide film on contacts and wires and leakage currents through carbonisation of insulation and tracking paths. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

3 HANDLING
Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers.
Electrical connectors may be damaged in transit to the customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

4 DISPOSAL
Incineration of certain materials may release noxious or even toxic fumes.

5 APPLICATION
Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts on an unmated connector. Voltages in excess of 30 V ac or 42.5 V dc are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no high resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheet/Catalog.
Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

IMPORTANT GENERAL INFORMATION

(i) Air and creepage paths/Operating voltage
The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations.
For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

(ii) Temperature
All information given are temperature limits. The operation temperature depends on the individual application.

(iii) Other important information
ITT Cannon continuously endeavours to improve their products. Therefore, ITT Cannon products may deviate from the description, technical data and shape as shown in this catalog and data sheets.

ITT Cannon manufactures the highest quality products available in the marketplace; however these products are intended to be used in accordance with the specifications in this publication. Any use or application that deviates from the stated operating specifications is not recommended and may be unsafe. No information and data contained in this publication shall be construed to create any liability on the part of ITT Cannon. Any new issue of this publication shall automatically invalidate and supersede any and all previous issues. A limited warranty applies to ITT Cannon products. Except for obligations assumed by ITT Cannon under this warranty, ITT Cannon shall not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind, whether or not based on express or implied warranty, contract, negligence or strict liability arising in connection with the design, manufacture, sale, use or repair of the products. Product availability, prices and delivery dates are exclusively subject to our respective order confirmation form; the same applies to orders based on development samples delivered. This publication is not to be construed as an offer. It is intended merely as an invitation to make an offer. By this publication, ITT Cannon does not assume responsibility or any liability for any patent infringements or other rights of third parties which may result from its use. Reprinting this publication is generally permitted, indicating the source. However, ITT Cannon's prior consent must be obtained in all cases.

W E ' R E P A R T O F Y O U R W O R L D

I N I N T E R C O N N E C T T E C H N O L O G Y

We are focused on your world with Innovation, Experience, Reliability & Responsiveness.

Don't blink.

No industry in the world moves faster than electronics. Take a snapshot of it today, and it all changes by tomorrow.

When you need to bring your products to market more quickly, you most likely seek a partner who moves just as fast as you do. A company at the forefront with the latest in products and service.

At ITT Cannon, we have made it our business to understand your world. Or should we say, the many parts of your world:

- The places in the world where you do business.
- The products you bring to the world.
- The service you require from suppliers to compete in the world.

At ITT Cannon, we are proud of a heritage that helped pioneer the electronics industry from its infancy in the early part of this century, to the highly advanced technologies of the present.

Today, we serve nearly every industry in which the increased demand for reliable and innovative interconnect systems is critical:

- Computers (Personal computers, portables and peripherals)
- Telecommunications (Network systems and services/LAN; mobile)
- Transportation (Automobiles, heavy-duty vehicles, rail and mass transit)
- Military/Aerospace (Commercial and military aircraft, defense and space)
- Industrial (Factory automation and instrumentation)
- Medical (Diagnostic equipment)
- Broadcasting
- Consumer Products

As ITT Cannon begins our ninth decade in business, we are proud to provide our global and regional customers with the most reliable electronic products and services available:

- Interconnects and cable assemblies
- RF connectors
- Switches and conductive rubber switchpads
- Test accessories
- I/O card, memory card and smart card interconnects
- Local area network components (copper and fiber optic)
- Turn-key network systems and services
- Customer use tooling

I N N O V A T I O N

A commitment to concurrent engineering helps you reach your markets faster

Let us bring our spirit of innovation to your world. Experienced engineering teams located throughout the globe work hand-in-hand with our customers. And since these teams are thoroughly networked together, you benefit from 24 hour-a-day concurrent engineering capability. These teams advance your project from initial product concepts to final design and into production.

Our teams are experts in computer-based design, modeling and analysis to assure robust product designs. We are also well-versed in performance simulation, as well as verification of mechanical and electrical properties. ITT Cannon utilizes Pro/ENGINEER* software which allows us to develop products and manufacturing processes concurrently, and to easily evaluate multiple design alternatives. This means better designed products, produced faster and at a lower cost.

ITT Cannon's Integrated Product Development process (IPD) allows us to minimize cycle time for first article and volume production.

*A trademark of Parametric Technology Corp.

E X P E R I E N C E

Worldwide capacity to meet all of your delivery requirements

Our decades of manufacturing experience, help us bring the latest products to your world. With automated manufacturing capacity strategically located in North America, Europe and Asia, we can produce products in either large or small quantities to quickly meet your exact requirements.

ITT Cannon is able to modify existing products to suit special customer requirements. With global manufacturing capacity in every continent, we are also able to source product from the location that best suits your needs. This means we have the flexibility to select the most advantageous shipping methods and other logistical options.

ITT Cannon has established Centers of Excellence for world class capabilities such as: Machining, stamping, surface plating, molding, cable assembly and network systems technology — all utilizing the most advanced CAM equipment.

R E L I A B I L I T Y

We don't stop at ''world class quality'' — Continuous improvement is our standard

Our goal is to bring world class electronics to your world. This commitment to perfection has helped ITT Cannon's global facilities earn ISO 9000 certification. We have invested in world class process controls for both assembly and component manufacturing.

ITT Cannon has also met or exceeded the quality system requirements from all customers who have conducted audits. We participate in ship-to-stock programs with many of these customers worldwide and have received numerous quality and preferred supplier awards from customers throughout the world in each of the industries we serve.

R E S P O N S I V E N E S S

A singular focus on responding to your needs

We know that to be responsive, we must know your world inside and out: your particular company, your industry and your challenges. Each of ITT Cannon's thousands of employees worldwide is focused on responding to you with timely and dependable information — and on ensuring that we keep the commitments we make. For instance, our globally linked computer system tracks the status of your order anywhere in the world.

You also benefit from our field applications and sales network, which provides industry-specific knowledge to help you design in the best product for your application.

Our distribution network is one of the most extensive in the industry, and can provide you off-the-shelf product to meet the most challenging delivery requirements.

A N I N V I T A T I O N T O S H A R E Y O U R W O R L D

Innovation. Experience. Reliability. Responsiveness.

At ITT Cannon, these are the strengths that we bring to our customers each and every day. Just as we have for nearly nine decades. We pride ourselves on a level of service and manufacturing know-how that has enabled us to lead our industry. Exceeding your expectations — not just meeting them — is how we approach every project.

With the world moving faster all the time, ITT Cannon is a partner who can help you get your products to market not just on time, but ahead of the competition.

At ITT Cannon, we realize that each customer we serve has their own special needs and expectations. That is why we would welcome the opportunity to discuss your project, your company, your industry — yes, your world.