

INTRODUCTION:

Adam Tech Right Angle .318" footprint PCB D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a low cost industry standard connection. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T
Insulator color: Black
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate on mating area. Tin over copper underplate on PCB tails.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

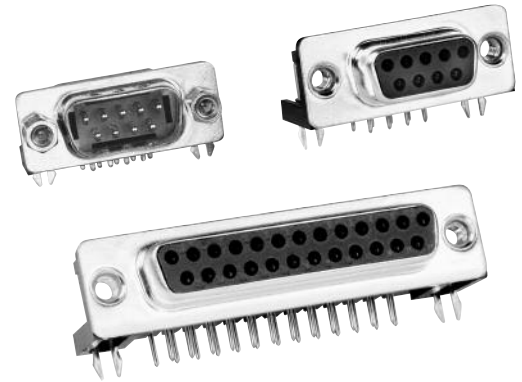
Operating temperature: -65°C to +125°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION



SHELL SIZE/ POSITIONS

DE09 = 9 Position
DA15 = 15 Position
DB25 = 25 Position
DC37 = 37 Position

CONTACT TYPE

PL = Plug, .318" Footprint
SL = Socket, .318" Footprint

MATING FACE MOUNTING OPTIONS

3 = #4-40 fixed jackscrews
4 = #4-40 flush threaded inserts
5 = #4-40 flush threaded inserts with removable jackscrews installed
6 = .120" non-threaded mounting holes

* See Mounting Option diagrams pg. 74

PCB MOUNTING OPTIONS

1 = Wrap around ground straps with thru holes
2 = Forked board locks
3 = Top side only ground straps with thru holes
4 = Top side only ground straps with #4-40 threaded screw holes

* See Mounting Option diagrams pg. 74

OPTIONS:

Add designator(s) to end of part number

15 = 15 μ m gold plating in contact area
30 = 30 μ m gold plating in contact area

EMI = Ferrite filtered version for EMI/RFI suppression

LPJ = Loose packed jackscrews

F = Superior retention 4 prong boardlocks

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

R = Round jackscrews

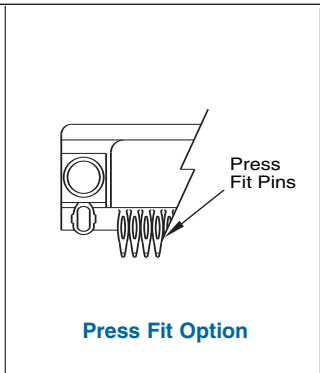
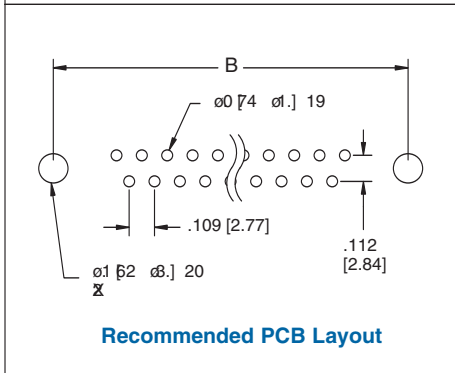
PF = Press fit pins

PLUG

DB25-PL-25

SOCKET

DB25-SL-24



Unit: Inch [mm]

Pos.	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]

MATING FACE & PCB MOUNTING OPTIONS

<p>OPTION 13</p> <p>ø.126 Thru Hole #4-40 Fixed Jackscrew Wrap Around Ground Strap</p>	<p>OPTION 14</p> <p>ø.126 Thru Hole #4-40 Threaded Insert Wrap Around Ground Strap</p>	<p>OPTION 15</p> <p>ø.126 Thru Hole #4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap</p>
<p>OPTION 16</p> <p>ø.126 Thru Hole ø.120 Thru Hole Wrap Around Ground Strap</p>	<p>OPTION 23</p> <p>FORKED BOARD LOCK #4-40 Fixed Jackscrew</p> <p><i>* Standard Stocked Item</i></p>	<p>OPTION 23-R OPTION 27</p> <p>#4-40 Rivited Round Jackscrew (Shown) #4-40 Rivited Hex Jackscrew (Not Shown) FORKED BOARD LOCK #4-40 Rivited Round Jackscrew</p>
<p>OPTION 24</p> <p>FORKED BOARD LOCK #4-40 Threaded Insert</p> <p><i>* Standard Stocked Item</i></p>	<p>OPTION 24-F</p> <p>4 PRONG BOARD LOCK #4-40 Threaded Insert</p>	<p>OPTION 25</p> <p>FORKED BOARD LOCK Removable Jackscrew #4-40 Threaded Insert</p> <p><i>* Standard Stocked Item</i></p>
<p>OPTION 26</p> <p>FORKED BOARD LOCKS ø.120 Thru Hole</p>	<p>OPTION 33</p> <p>ø.126 Thru Hole #4-40 Fixed Jackscrew Top Side Ground Strap</p>	<p>OPTION 34</p> <p>ø.126 Thru Hole #4-40 Threaded Insert Top Side Ground Strap</p>
<p>OPTION 35</p> <p>ø.126 Thru Hole #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap</p>	<p>OPTION 36</p> <p>ø.126 Thru Hole ø.120 Thru Hole Top Side Ground Strap</p>	<p>OPTION 43</p> <p>#4-40 Threaded Hole #4-40 Fixed Jackscrew Top Side Ground Strap</p>
<p>OPTION 44</p> <p>#4-40 Threaded Hole #4-40 Threaded Insert Top Side Ground Strap</p>	<p>OPTION 45</p> <p>#4-40 Threaded Hole #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap</p>	<p>OPTION 46</p> <p>ø.120 Thru Hole #4-40 Threaded Hole Top Side Ground Strap</p>

INTRODUCTION:

Adam Tech Right Angle .590" footprint PCB D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are an excellent choice for a low cost industry standard connection. They are available with full or half mounting flanges. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Half or Full flange options
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 µin Optional) over Nickel underplate.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. Initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

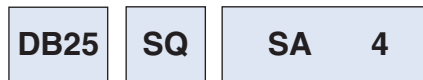
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
 CSA Certified File No. LR1578596



ORDERING INFORMATION



SHELL SIZE/ POSITIONS

DE09 = 9 Position
 DA15 = 15 Position
 DB25 = 25 Position
 DC37 = 37 Position

CONTACT TYPE

PQ = Plug,
 .590" Footprint
 SQ = Socket,
 .590" Footprint

MATING FACE MOUNTING OPTIONS

3 = #4-40 fixed jack screws
 4 = #4-40 flush threaded inserts
 5 = #4-40 flush threaded inserts with removable jack screws installed
 6 = .120" non-threaded mounting holes

* See Mounting Option diagrams page 77

PCB MOUNTING OPTIONS

SA = Wrap around ground straps with thru holes on half flange

SB = Wrap around ground straps with thru holes on full flange

SC = Top side only ground straps with thru holes on half flange

SD = Top side only ground straps with thru holes on full flange

F = Forked boardlocks on half flange

R = Forked boardlocks on full flange

* See Mounting Option diagrams page 77

OPTIONS:

Add designator(s) to end of part number

15 = 15 µin gold plating in contact area

30 = 30 µin gold plating in contact area

EMI = Ferrite filtered version for EMI/RFI suppression

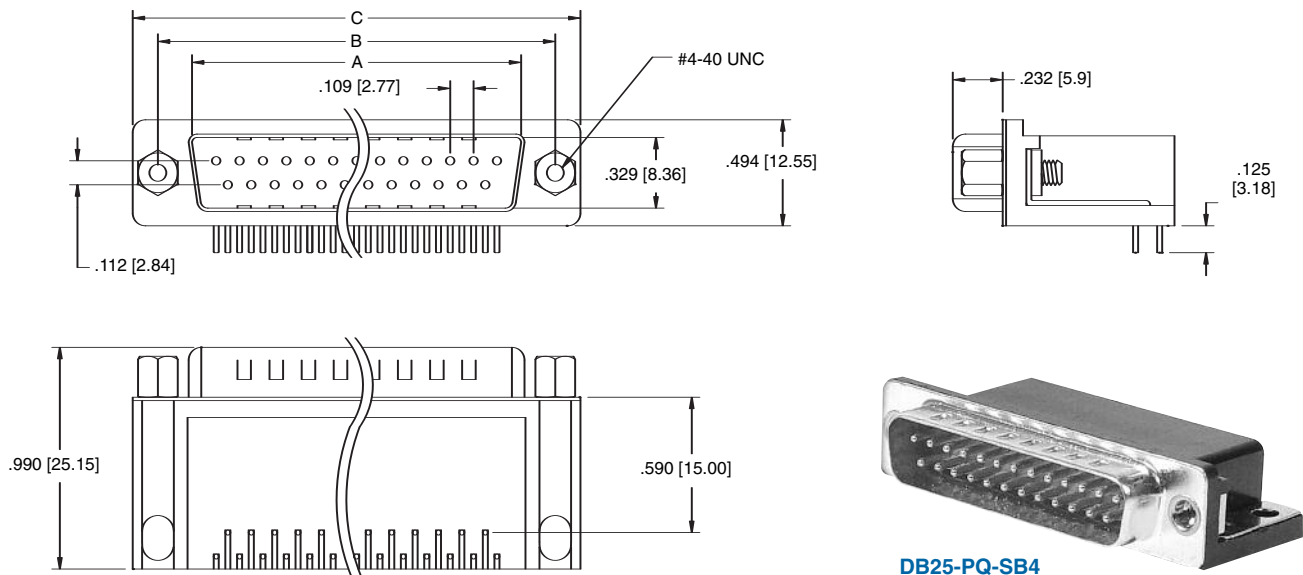
LPJ = Loose packed jackscrews

F = Superior retention 4 prong boardlocks

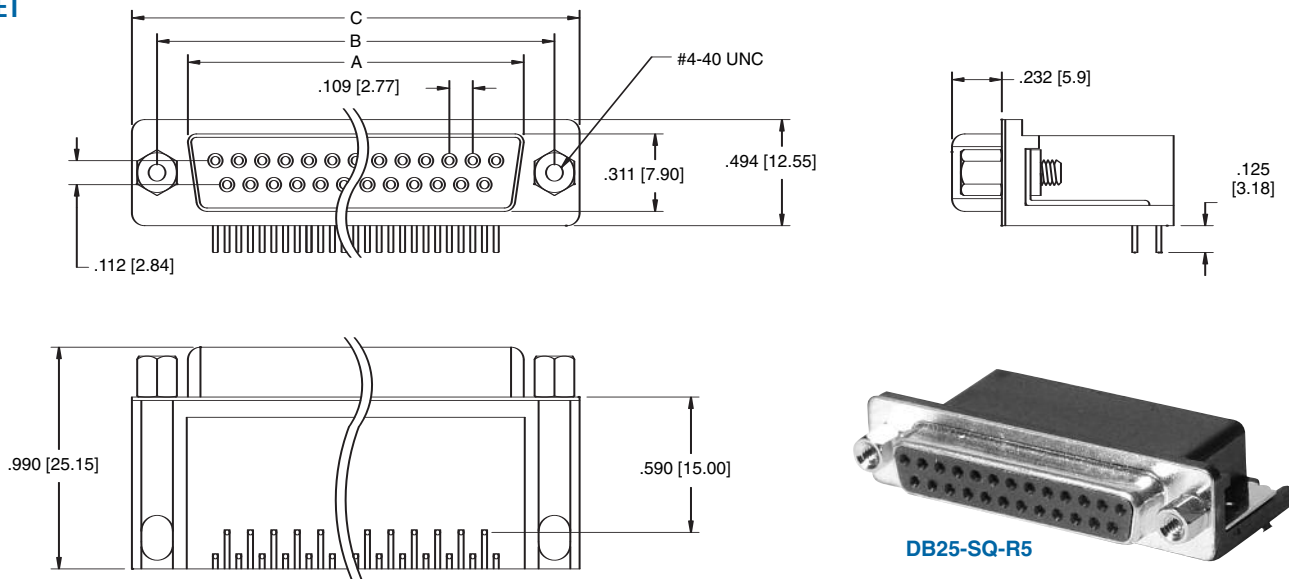
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

R = Round jackscrews

PLUG



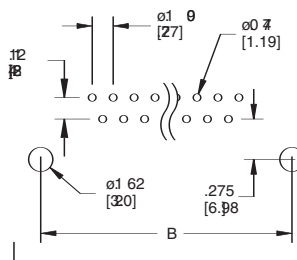
SOCKET



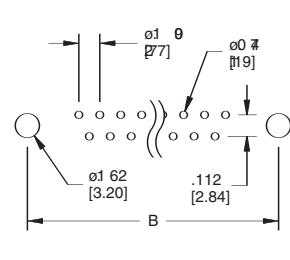
Unit: Inch [mm]

Pos.	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]

Half Flange PCB Layout for PCB mounting options (SA, SC, F)



Full Flange PCB Layout for PCB mounting options (SB, SD, R)



PCB Edge

MATING FACE & PCB MOUNTING OPTIONS

<p>OPTION SA3</p> <p>#4-40 Fixed Jackscrew Wrap Around Ground Strap on Half Flange ø.126 Thru Hole</p>	<p>OPTION SA4</p> <p>#4-40 Threaded Insert Wrap Around Ground Strap on Half Flange ø.126 Thru Hole</p>	<p>OPTION SA5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap on Half Flange ø.126 Thru Hole</p>
<p>OPTION SA6</p> <p>#4-40 Threaded Insert Wrap Around Ground Strap on Half Flange ø.126 Thru Hole ø.120 Thru Hole</p>	<p>OPTION SB3</p> <p>#4-40 Fixed Jackscrew Wrap Around Ground Strap on Full Flange ø.126 Thru Hole</p>	<p>OPTION SB4</p> <p>#4-40 Threaded Insert Wrap Around Ground Strap on Full Flange ø.126 Thru Hole</p>
<p>OPTION SB5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap on Full Flange ø.126 Thru Hole</p>	<p>OPTION SB6</p> <p>#4-40 Threaded Insert Wrap Around Ground Strap on Full Flange ø.126 Thru Hole ø.120 Thru Hole</p>	<p>OPTION SC3</p> <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Half Flange ø.126 Thru Hole</p>
<p>OPTION SC4</p> <p>#4-40 Threaded Insert Top Side Ground Strap, Half Flange ø.126 Thru Hole</p>	<p>OPTION SC5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Half Flange ø.126 Thru Hole ø.120 Thru Hole</p>	<p>OPTION SC6</p> <p>#4-40 Threaded Insert Top Side Ground Strap, Half Flange ø.126 Thru Hole ø.120 Thru Hole</p>
<p>OPTION SD3</p> <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Full Flange ø.126 Thru Hole</p>	<p>OPTION SD4</p> <p>#4-40 Threaded Insert Top Side Ground Strap, Full Flange ø.126 Thru Hole</p>	<p>OPTION SD5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Full Flange ø.126 Thru Hole</p>
<p>OPTION SD6</p> <p>#4-40 Threaded Insert Top Side Ground Strap, Full Flange ø.126 Thru Hole ø.120 Thru Hole</p>	<p>OPTION F3</p> <p>#4-40 Fixed Jackscrew Half Flange Forked Board Lock</p>	<p>OPTION F4</p> <p>#4-40 Threaded Insert Half Flange Forked Board Lock</p>
<p>OPTION F5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Half Flange Forked Board Lock</p>	<p>OPTION F6</p> <p>#4-40 Threaded Insert Half Flange Forked Board Lock ø.120 Thru Hole</p>	<p>OPTION R3</p> <p>#4-40 Fixed Jackscrew Full Flange Forked Board Lock</p>
<p>OPTION R4</p> <p>#4-40 Threaded Insert Full Flange Forked Board Lock</p>	<p>OPTION R5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Full Flange Forked Board Lock</p>	<p>OPTION R6</p> <p>#4-40 Threaded Insert Full Flange Forked Board Lock ø.120 Thru Hole</p>

INTRODUCTION:

Adam Tech Straight PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost, sturdy, full metal body industry standard connection. These connectors are manufactured with precision stamped or machined turned contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0

Optional Hi-Temp insulator: Nylon 6T

Insulator Colors: Black (White optional)

Contacts: Phosphor Bronze

Shell: Steel, Tin or Zinc plated

Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate overall

Electrical:

Operating voltage: 250V AC / DC max.

Current rating: 5 Amps max.

Contact resistance: 20 m Ω max. initial

Insulation resistance: 5000 M Ω min.

Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max

Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C

Soldering process temperature:

Standard insulator: 235°C

Hi-Temp insulator: 260°C

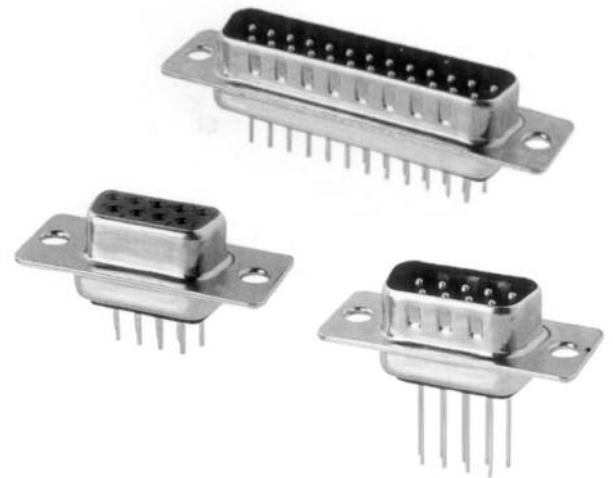
PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053

CSA Certified File No. LR1578596



ORDERING INFORMATION



SHELL SIZE/ POSITIONS

DE09 = 9 Position

DA15 = 15 Position

DB25 = 25 Position

DC37 = 37 Position

DD50 = 50 Position

CONTACT TYPE

PT = Plug, Straight PCB Tail, Standard Profile

ST = Socket, Straight PCB Tail, Standard Profile

PE = Plug, Straight PCB Tail, High Profile

SE = Socket, Straight PCB Tail, High Profile

MOUNTING OPTIONS

Blank = .120" Mounting Holes

SL = Bottom side riveted #4-40 Clinch Nuts

JS = Top side riveted #4-40 Jackscrews

BL = Riveted #4-40 Internal Threaded Standoffs with Boardlocks

R = Riveted Round Jack Screws

JSL = Bottom side riveted #4-40 Clinch Nuts with Jack Screws installed

TERMINAL LENGTH

1 = Standard tail length for .062" thru .125" PCB's (E = .189")

2 = Wire wrap tail (E = .512")

OPTIONS:

Add designator(s) to end of part number

15 = 15 μ m gold plating in contact area

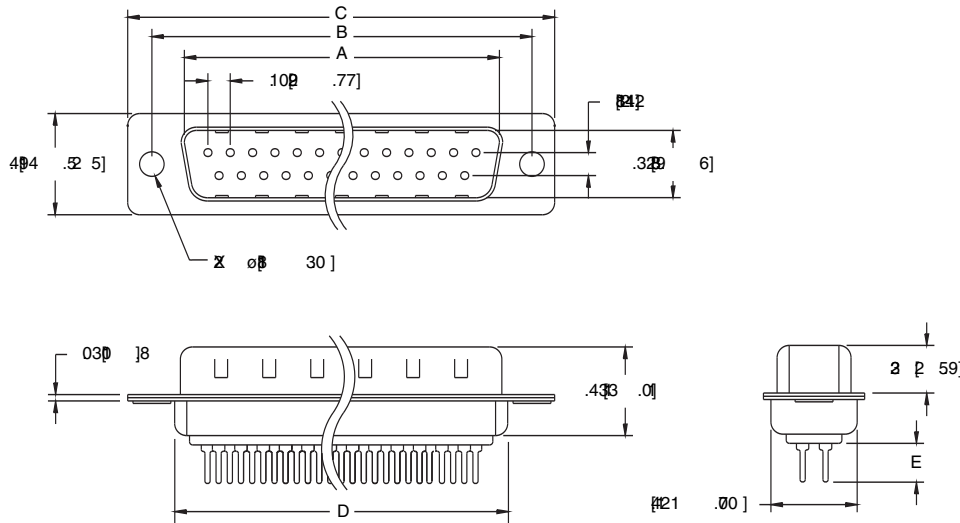
30 = 30 μ m gold plating in contact area

EMI = Ferrite filtered version for EMI / RFI suppression (Page 72)

HT = Hi-Temp insulator for hi-temp soldering processes up to 260°C

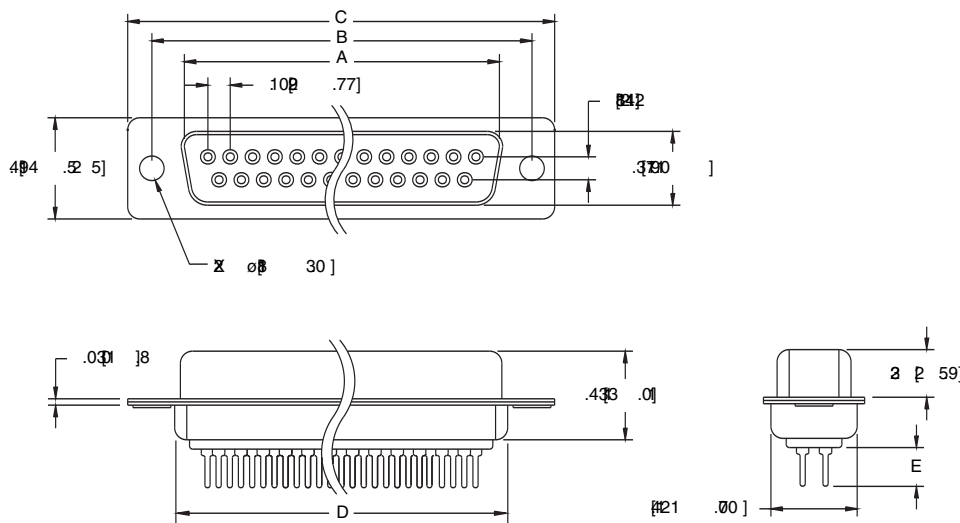
MOUNTING OPTIONS

PLUG

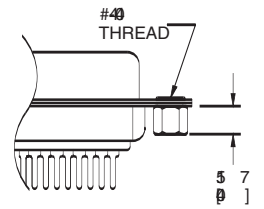


*E = .189" or .512"

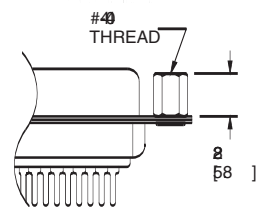
SOCKET



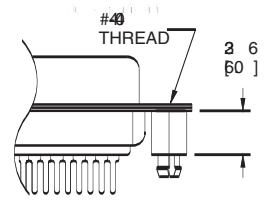
*E = .189" or .512"



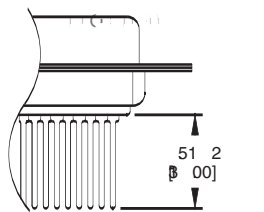
SL Option
Bottom side riveted #4-40 Clinch Nuts



JS Option
Top side riveted #4-40 Jack Screws



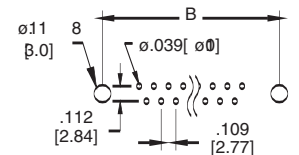
BL Option
#4-40 Threaded Boardlocks



Wire Wrap Tail Option
Terminal length -2 wire wrap tail

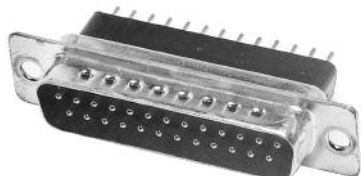
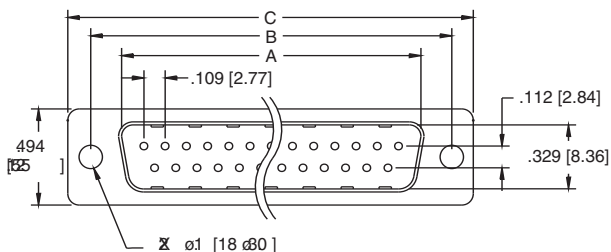
Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]

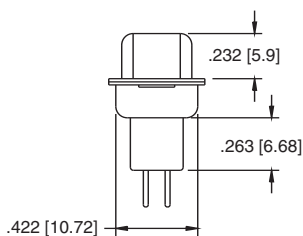
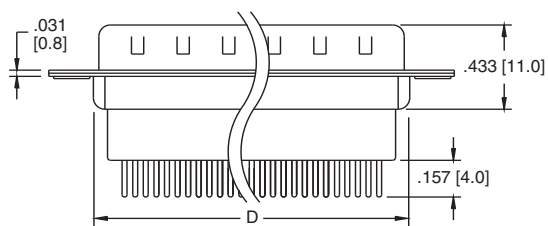


Recommended PCB Layout

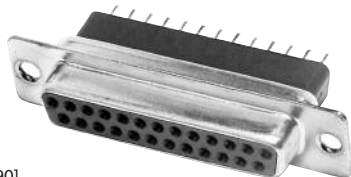
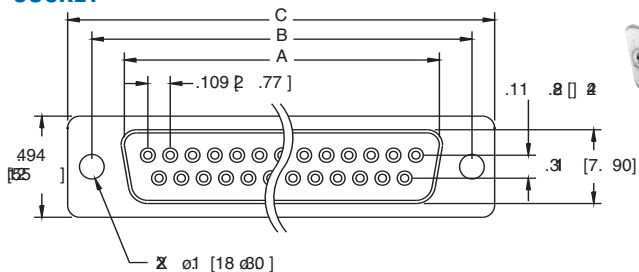
PLUG



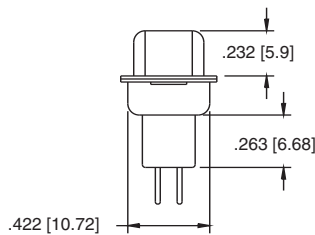
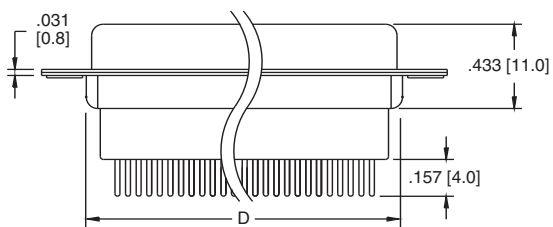
DB25-PE-1



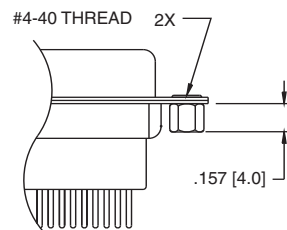
SOCKET



DB25-SE-1

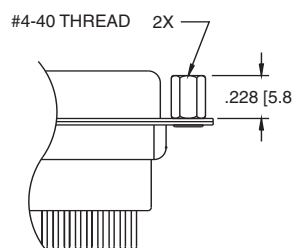


MOUNTING OPTIONS



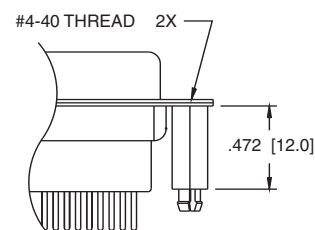
SL Option

Bottom side riveted #4-40
Clinch Nuts



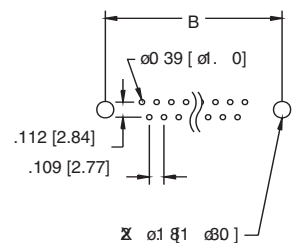
JS Option

Top side riveted #4-40
Jack Screws



BL Option

#4-40 Threaded Boardlocks



Recommended PCB Layout

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]

INTRODUCTION:

Adam Tech Combination Signal/Coax D-Sub connectors are a popular interface for many mixed signal I/O applications. Offered in five shell sizes they are a good choice for a low cost industry standard connection that requires utilization of standard signal and high performance, low impedance signals either in signal-coax or signal - power choices. Adam Tech connectors are manufactured with precision stamped standard signal contacts and precision turned coax contacts. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

Electrical:

Operating voltage: 250V AC / DC max.
Signal Current rating: 5 Amps max.
High Power contact current rating: 20 or 40 Amps.
Coaxial Impedance: 50Ω (75Ω optional)
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION



SHELL CONFIGURATIONS

D1W1, D2W2, D3W3,
D5W1, D5W5, D7W2,
D8W8, D9W4N,
D11W1, D13W3,
D13W6, D17W2,
D17W5, D21W1,
D21W4, D24W7,
D25W3, D27W2,
D36W4, D43W2

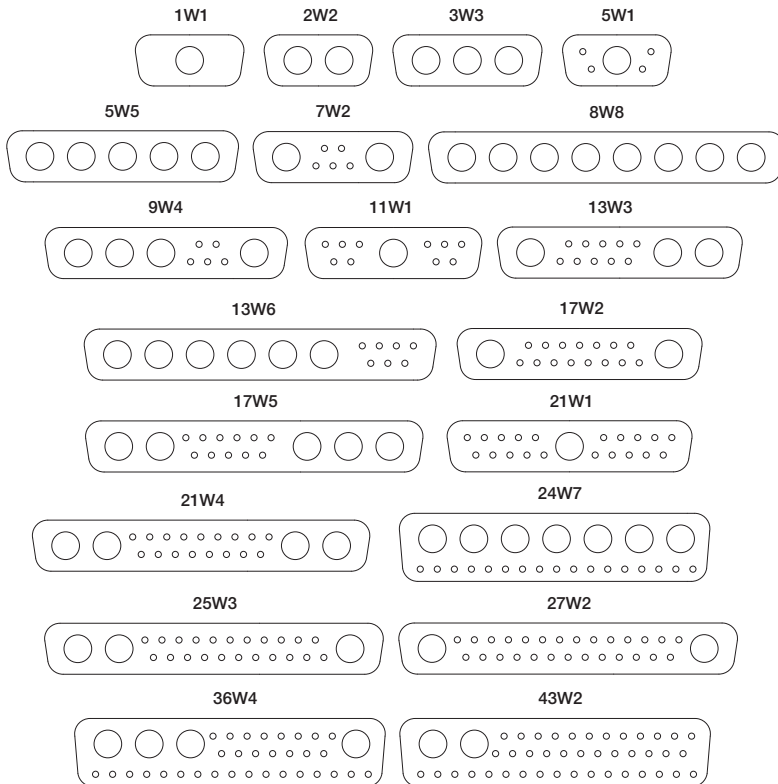
RATING SIGNAL - COAX

1 = 50 Ohm
2 = 75 Ohm

SIGNAL - POWER

3 = 10 Amps
4 = 20 Amps
5 = 30 Amps
6 = 40 Amps
7 = 50 Amps

SHELL CONFIGURATIONS



TYPE

SIGNAL-COAX

PT= Plug, Straight PCB
ST= Socket, Straight PCB
PL= Plug, Right Angle PCB
SL= Socket, Right Angle PCB
PD= Plug, Solder Cup
SD= Socket, Solder Cup

SIGNAL-POWER

PTP= Plug, Straight PCB,
Power Contacts
STP= Socket, Straight PCB,
Power Contacts
PLP= Plug, Right Angle PCB,
Power Contacts
SLP= Socket, Right Angle
PCB, Power Contacts
PDP= Plug, Solder Cup
Power Contacts
SDP= Socket, Solder Cup
Power Contacts

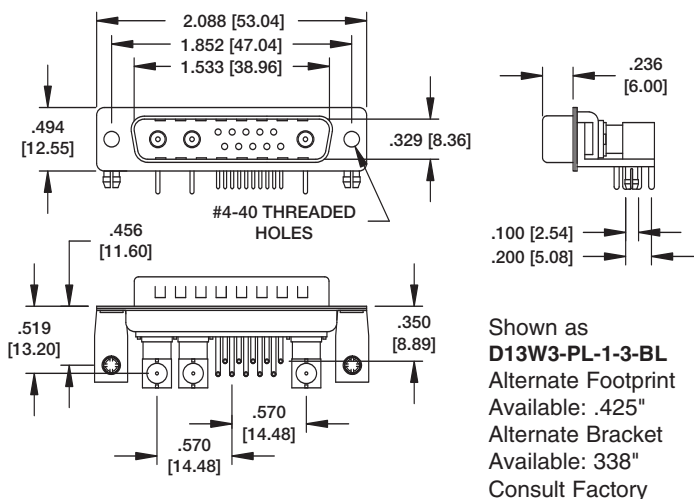
MOUNTING RIGHT ANGLE

- 1 = 120" non-threaded mounting holes, no bracket
- 2 = Short Bracket with #4-40 flush threaded inserts in mounting holes
- 2A = Short Bracket with #4-40 flush threaded inserts in mounting holes Jack Screws installed
- 3 = Long Bracket with #4-40 flush threaded inserts in mounting holes
- 3A = Long Bracket with #4-40 flush threaded inserts in mounting holes Jack Screws installed

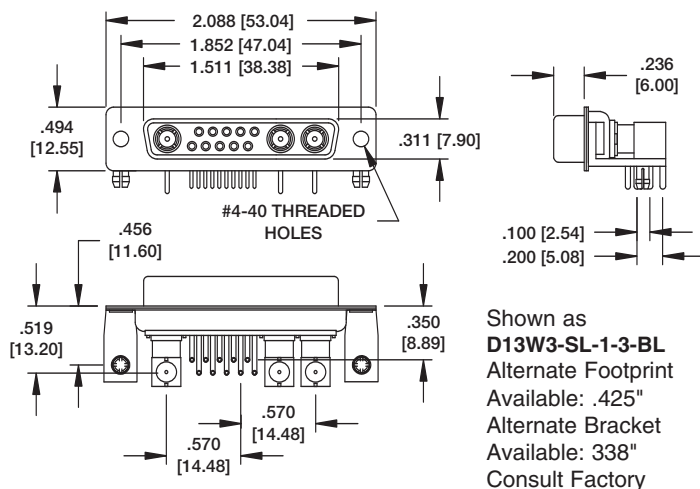
MOUNTING STRAIGHT

- JS = Riveted #4-40 Jack Screws on top of flange
- SL = Riveted #4-40 clinch nuts on bottom of flange
- BL = Riveted Board Locks

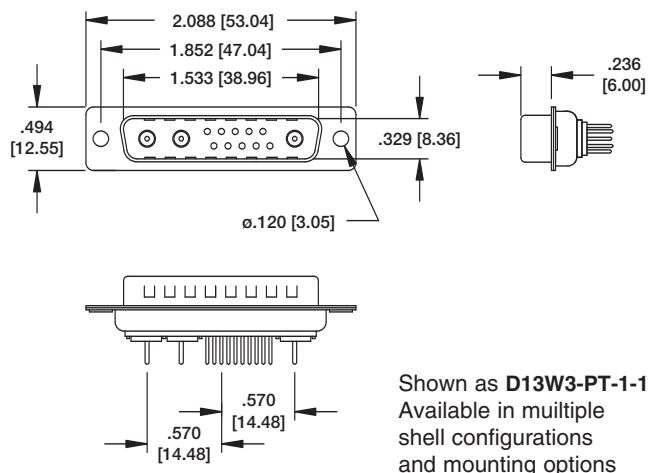
PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-COAX



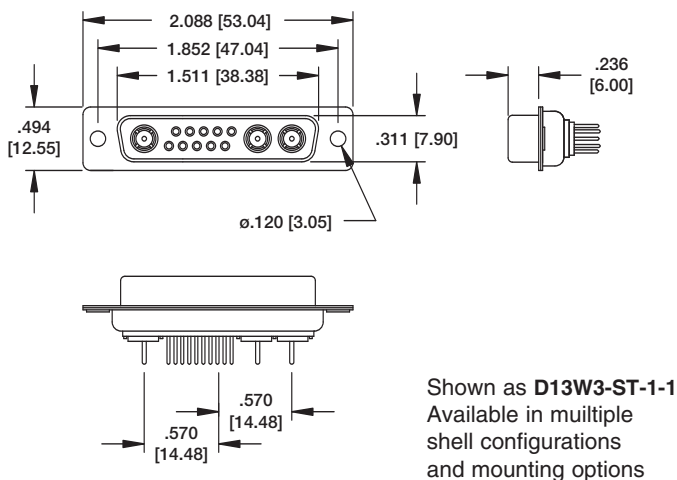
SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-COAX



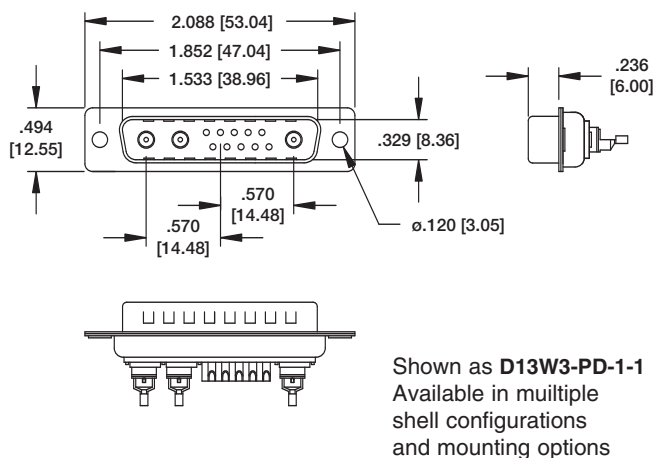
PLUG - STRAIGHT PCB MOUNT SIGNAL-COAX



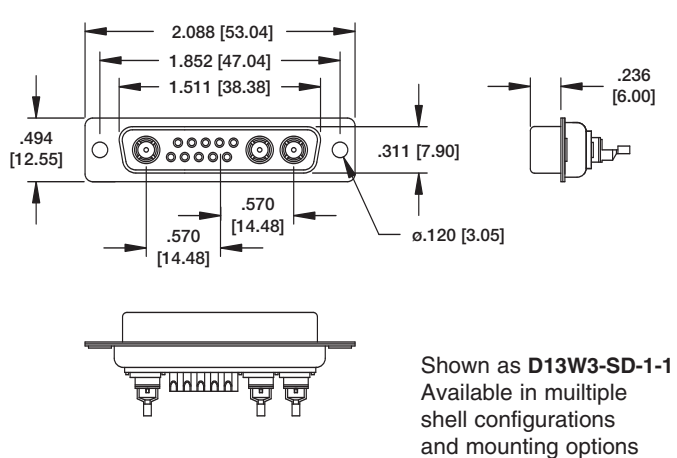
SOCKET - STRAIGHT PCB MOUNT SIGNAL-COAX



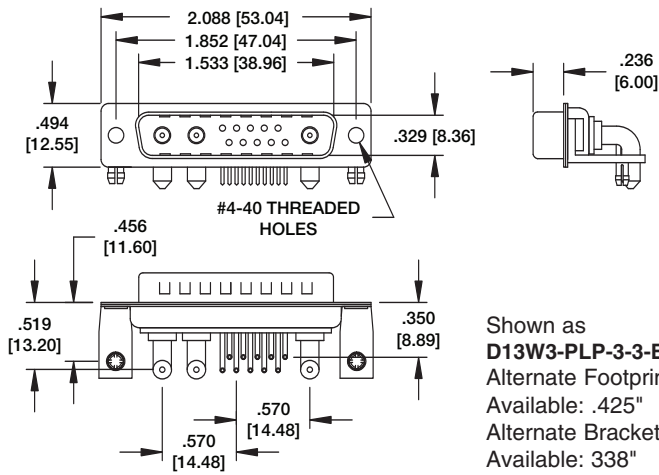
PLUG - STRAIGHT SOLDER CUP SIGNAL-COAX



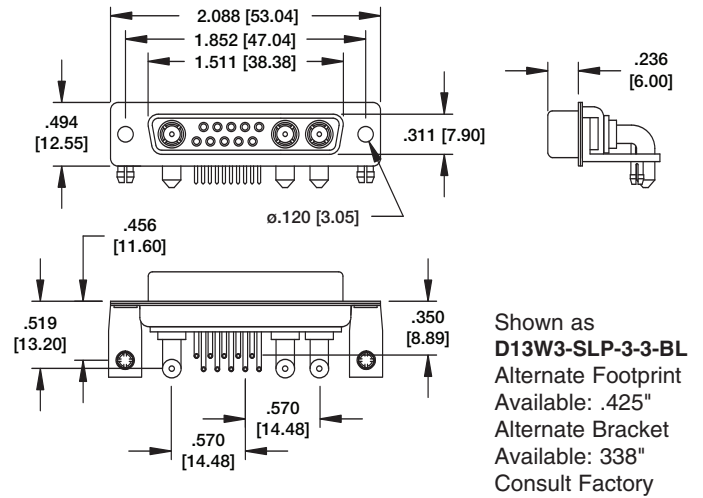
SOCKET - STRAIGHT SOLDER CUP SIGNAL-COAX



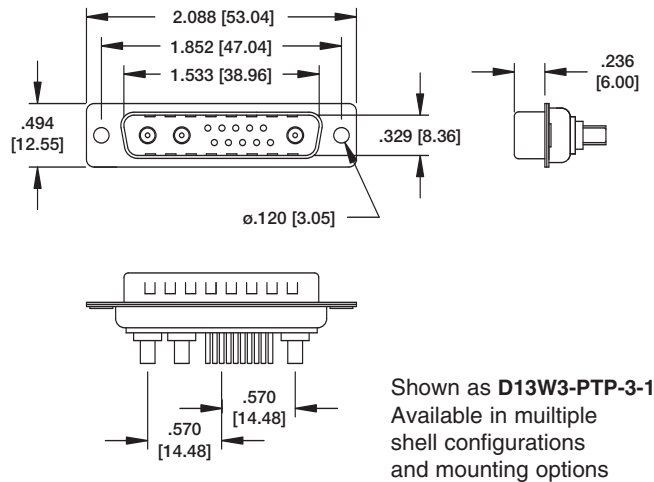
PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



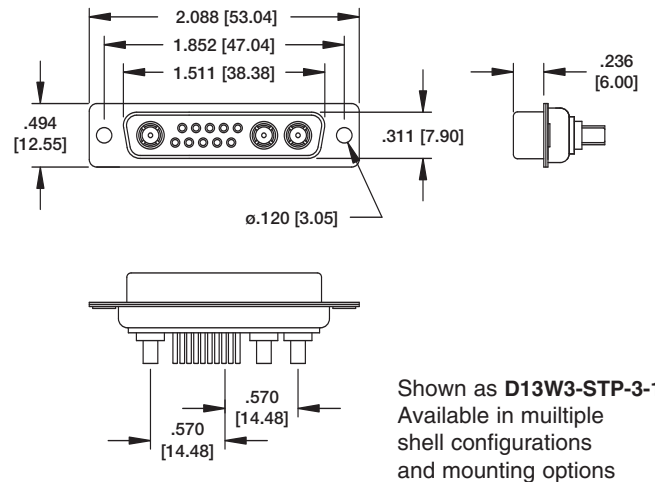
SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



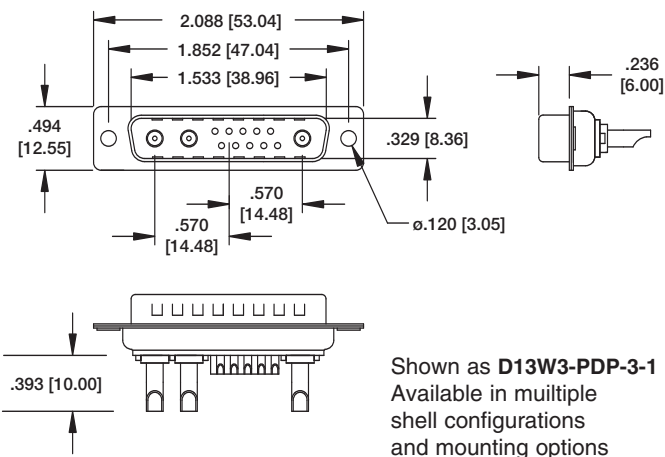
PLUG - STRAIGHT PCB MOUNT SIGNAL-POWER



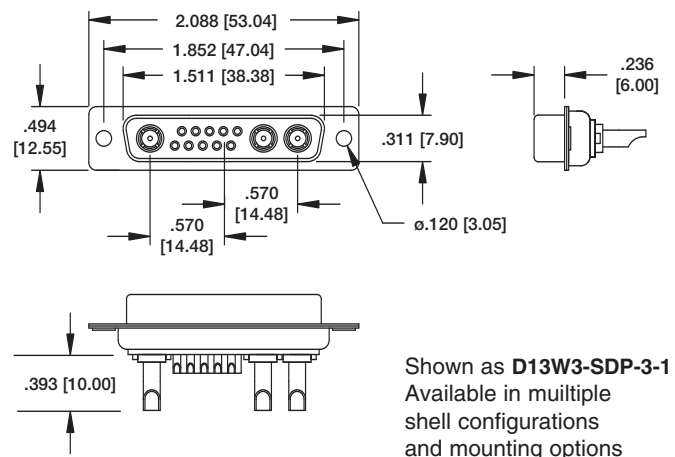
SOCKET - STRAIGHT PCB MOUNT SIGNAL-POWER



PLUG - STRAIGHT SOLDER CUP SIGNAL-POWER



SOCKET - STRAIGHT SOLDER CUP SIGNAL-POWER



INTRODUCTION:

Adam Tech Flush Mount Straight PCB tail D-Sub connectors are a popular interface for many limited space I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Low profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 µin optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. Initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

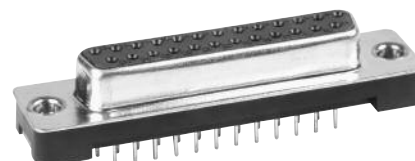
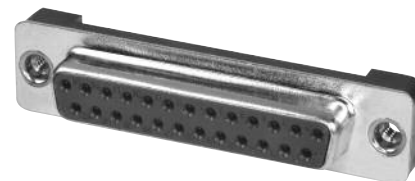
Operating temperature: -65°C to +125°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized Fil No. E224053
 CSA Certified File No. LR1578596



ORDERING INFORMATION

DB25

SA

M2

SHELL SIZE/ POSITIONS

DE09 = 9 Position
DA15 = 15 Position
DB25 = 25 Position
DC37 = 37 Position

CONTACT TYPE

PA = Plug, Flush mount,
Straight PCB Tail
SA = Socket, Flush Mount,
Straight PCB Tail

MOUNTING OPTIONS

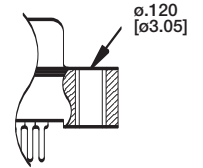
M1 = Thru Holes
Mounting
M2 = Threaded Holes
Mounting
M1-R3 = Riveted Round
Jackscrews
M1-R-BL = Riveted Round
Jackscrews with
Boardlock
M2-JS = Threaded Hole
Mounting with
removable
Jackscrews
M2-BL = Riveted #4-40
Internal Threaded
Standoffs with
Boardlocks
M2-BL-JS = Removable
Jackscrew with
Boardlock

OPTIONS:

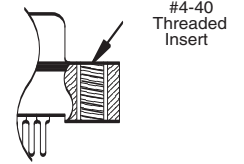
Add designator(s) to end of part number
15 = 15 µin gold plating in contact area
30 = 30 µin gold plating in contact area
PF = Press Fit Pins
HT = Hi-Temp insulator for hi-temp soldering
 processes up to 260°C

MOUNTING OPTIONS

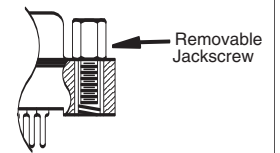
M1 Option
Thru-Hole
Mounting



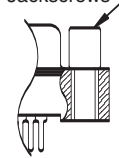
M2 Option
Threaded Hole
Mounting



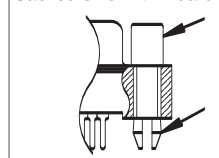
M2-JS
Threaded Hole
Mounting with
removable
Jack Screws



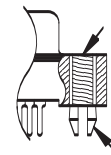
M1-R3
Riveted Round
Jackscrews



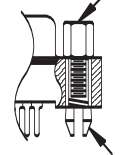
M1-R-BL
Riveted Round
Jackscrews with Boardlock



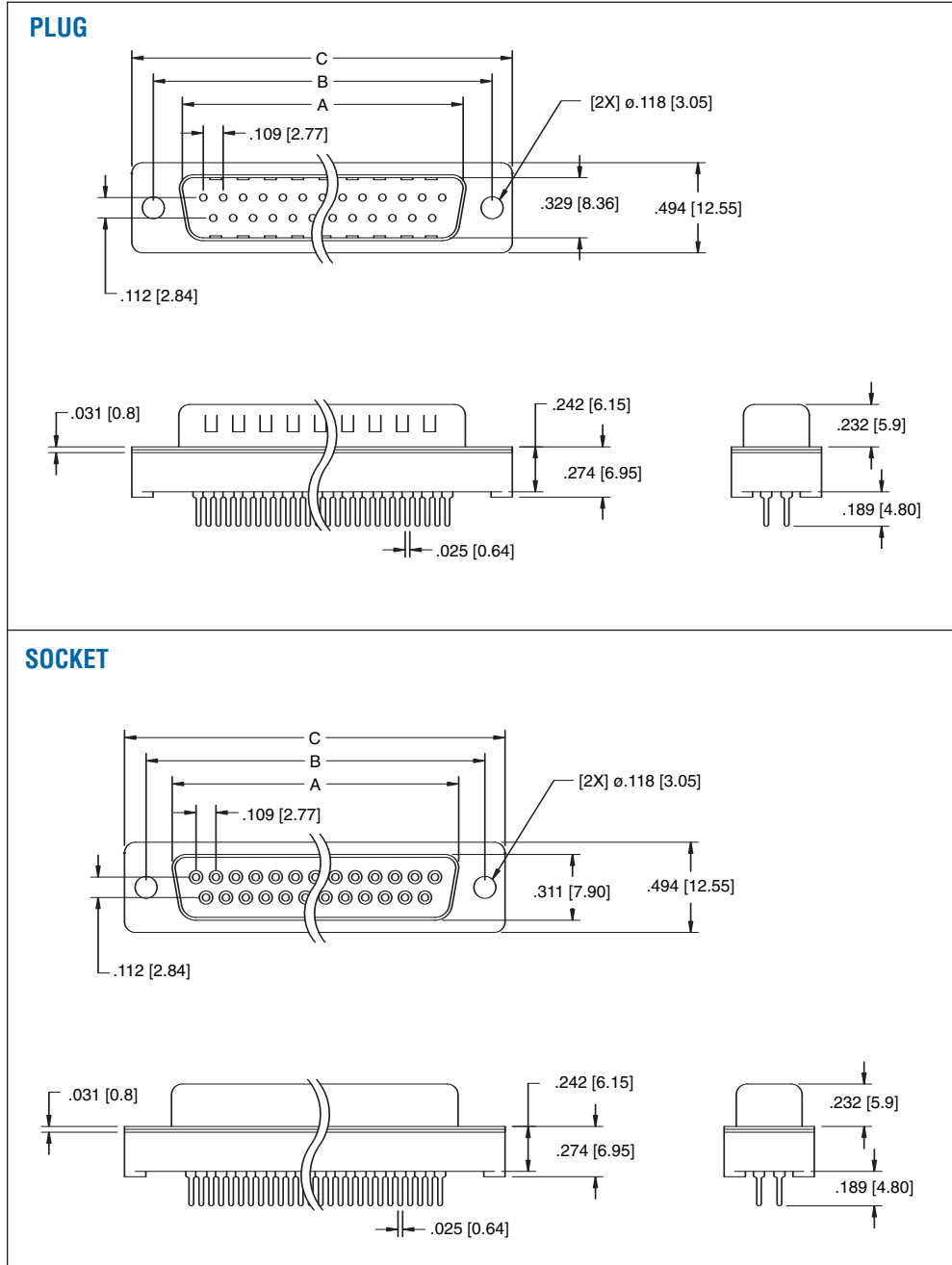
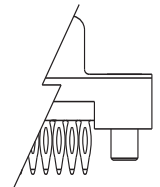
M2-BL
#4-40 Threaded
Insert with Boardlock



M2-BL-JS
Removable Jackscrew
with Boardlock

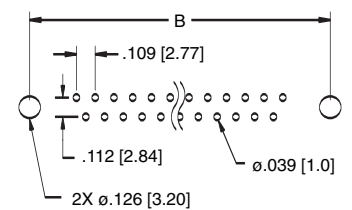


**Press Fit PCB
Tail Option**



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]



Recommended PCB Layout

INTRODUCTION:

Adam Tech Right Angle slimline PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Short profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T
Insulator Color: Black
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

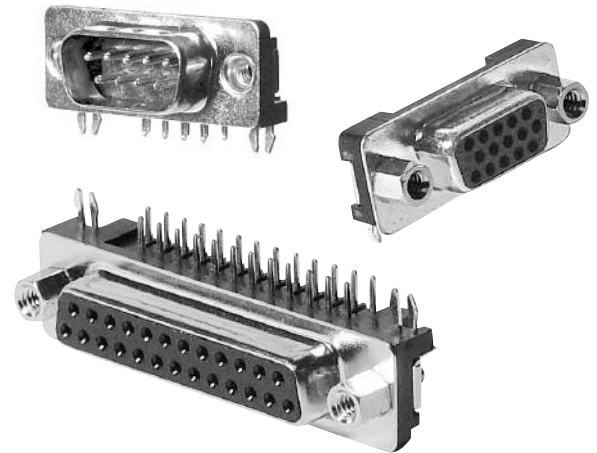
Operating temperature: -65°C to +125°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION

DB25

SN

24

SHELL SIZE/ POSITIONS

DE09 = 9 Positions
DB25 = 25 Positions
HD15 = High Density
15 Positions

MOUNTING OPTIONS

24 = Forked Boardlocks
for PCB Retention and
#4-40 threaded inserts
in mounting holes
25 = Forked Boardlocks
for PCB retention and
#4-40 threaded inserts
in mounting holes with
installed jackscrews

CONTACT / TYPE

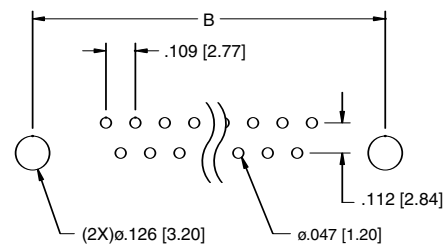
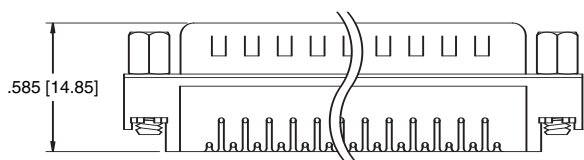
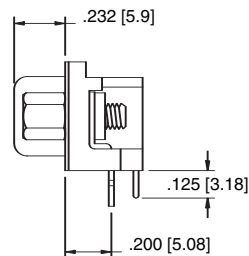
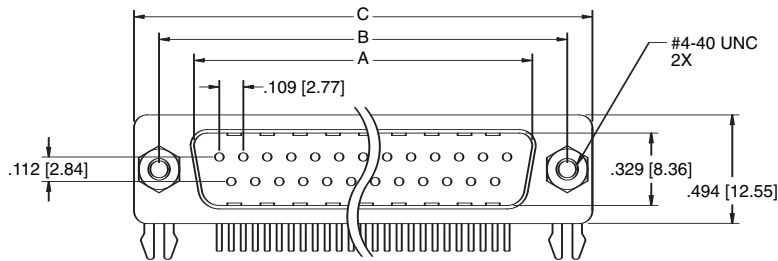
PN = Plug, .197" Slimline
SN = Socket, .197" Slimline

OPTIONS:

Add designator(s) to end of part number

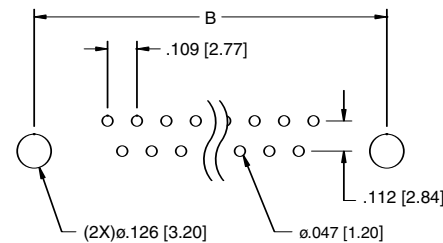
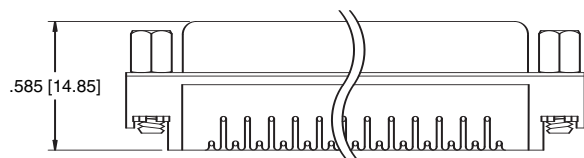
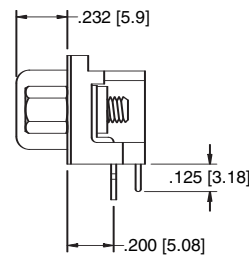
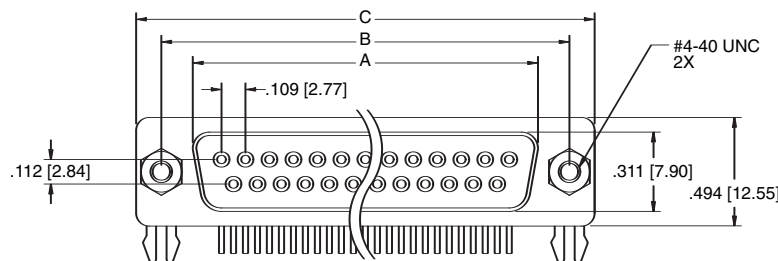
- 15 = 15 μ m gold plating in contact area
- 30 = 30 μ m gold plating in contact area
- LPJ = Loose packed jackscrews
- HT = Hi-Temp insulator for Hi-Temp soldering
processes up to 260°C
- R = Round jackscrews installed

PLUG



Recommended PCB Layout

SOCKET



Recommended PCB Layout

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]

INTRODUCTION:

Adam Tech Right Angle slimline SMT D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Short profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: Hi-Temperature thermoplastic, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze or Brass
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate on mating area, Tin over Copper underplate on SMT tails.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 1 Amp max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C
Soldering process temperature: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION

DB25

SS

24

SHELL SIZE/ POSITIONS

DE09 = 9 Positions
DB25 = 25 Positions
HDL15 = High Density
15P

MOUNTING OPTIONS

24 = Forked Boardlocks
for PCB Retention and
#4-40 threaded inserts
in mounting holes
25 = Forked Boardlocks
for PCB retention and
#4-40 threaded inserts
in mounting holes with
installed jackscrews

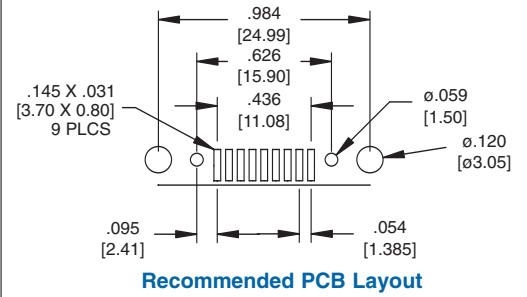
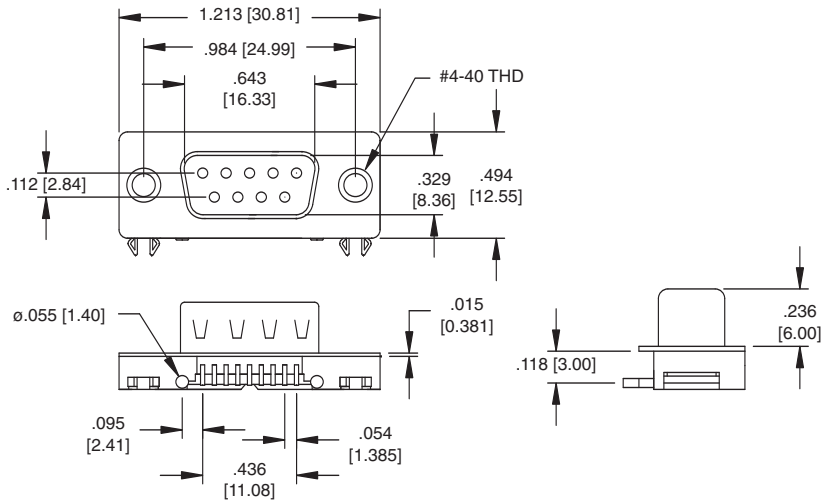
CONTACT / TYPE

PS = Plug Surface Mount
SS = Socket Surface Mount

OPTIONS:

Add designator(s) to end of part number
15 = 15 μ m gold plating in contact area
30 = 30 μ m gold plating in contact area
R = Round jackscrews

9P PLUG

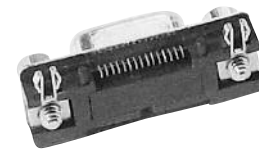
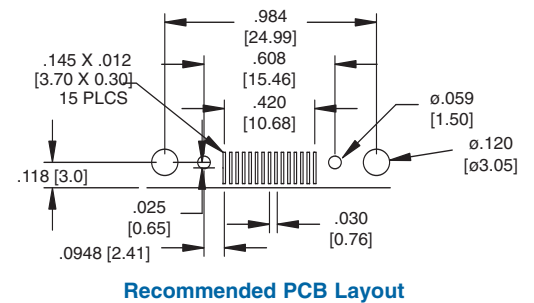
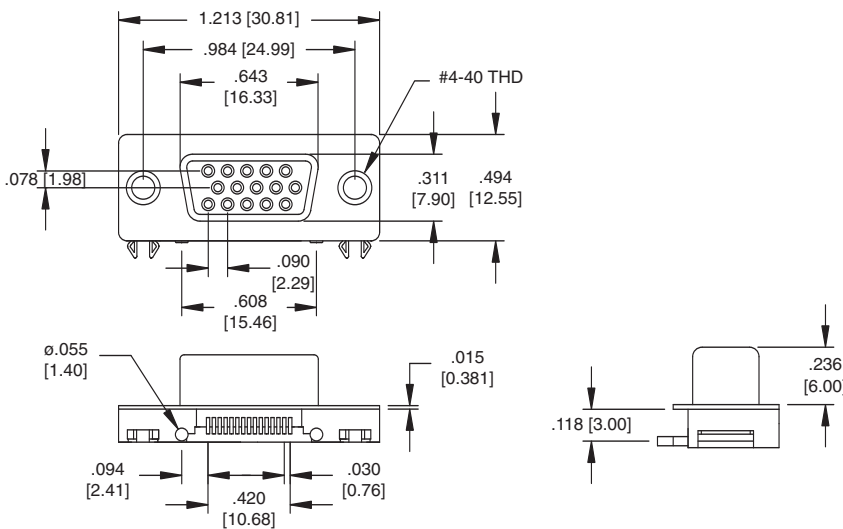


DE09-SS-24



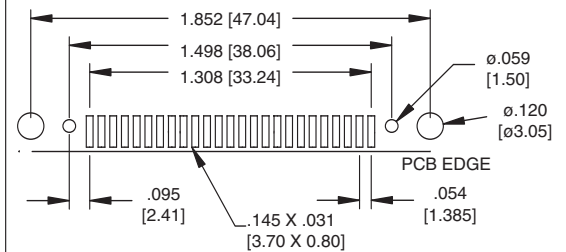
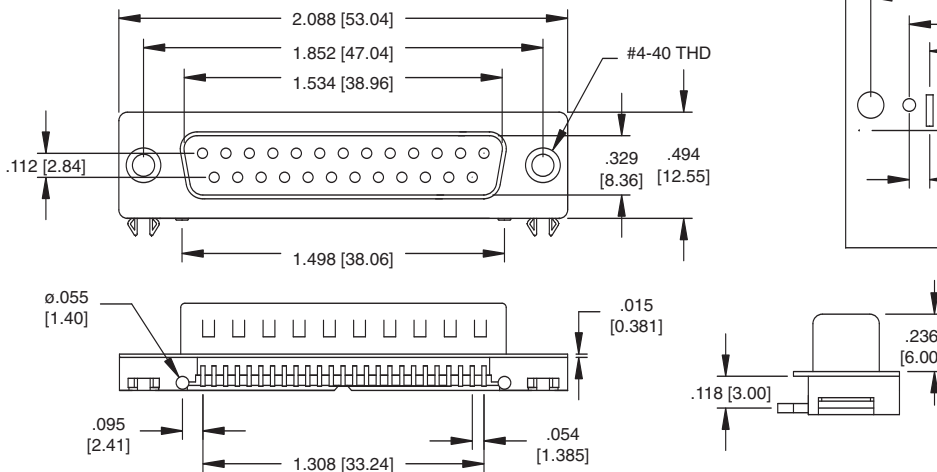
DE09-PS-25

HD15 SOCKET



HDL15-SS-25

25P PLUG



DB25-PS-24

INTRODUCTION

Adam Tech Right Angle .283" footprint Machine Contact PCB D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a high reliability industry standard connection. These connectors are manufactured with precision machine turned contacts and offer an exceptional high reliability connection. They are available in a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Exceptional Machine Contact connection
- Industry standard compatibility
- Durable metal shell design
- Precision turned screw machined contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
 Insulator Colors: White (Black optional)
 Contacts: Phosphor Bronze
 Shell: Steel, Tin plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 µin Optional) over Nickel underplate.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
 CSA Certified File No. LR1578596



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number
 15 = 15 µin gold plating in contact area
 30 = 30 µin gold plating in contact area
 BK = Black insulator
 HT = Hi-Temp insulator for Hi-Temp
 soldering processes up to 260°C

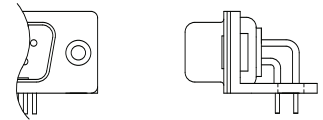
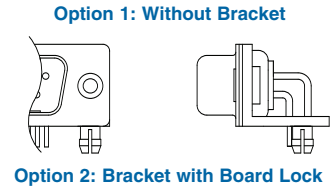
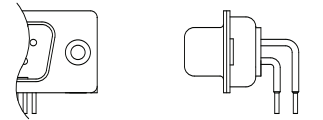
PLUG



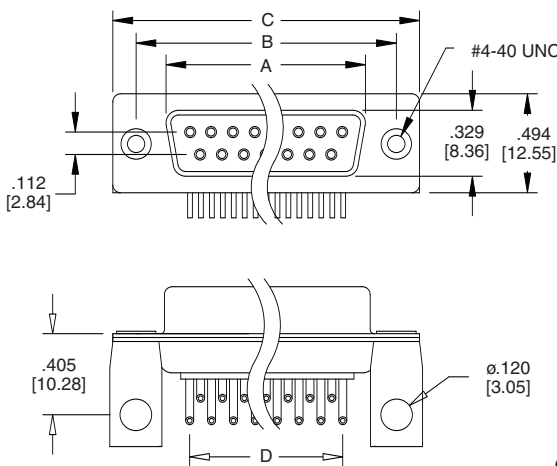
X = FO OTPRINT DISTANCE
 C = .283 [7.20] FOOTPRINT
 G = .370 [9.40] FOOTPRINT
 F = .545 [13.84] FOOTPRINT

Choice of Plastic or Metal Bracket
 Metal Bracket version shown

PCB MOUNTING OPTIONS



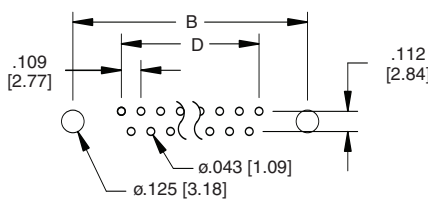
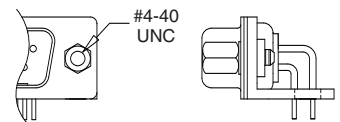
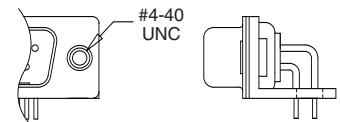
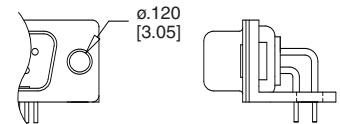
SOCKET



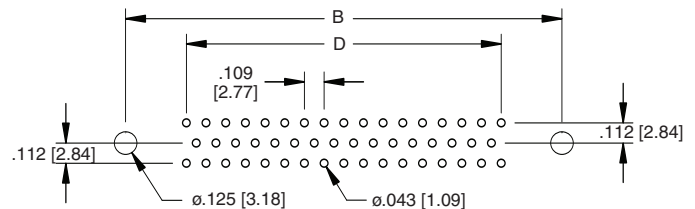
X = FO OTPRINT DISTANCE
 C = .283 [7.20] FOOTPRINT
 G = .370 [9.40] FOOTPRINT
 F = .545 [13.84] FOOTPRINT

Choice of Plastic or Metal Bracket
 Metal Bracket version shown

MATING FACE MOUNTING OPTIONS



Recommended PCB Layout 9, 15, 25 & 37 Position



Recommended PCB Layout 50 Position

Unit: Inch / mm

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.436 [11.08]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	.763 [19.39]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.310 [33.24]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	1.963 [49.86]
50	2.790 [52.80]	2.016 [52.34]	2.402 [61.00]	2.646 [67.20]	1.744 [44.32]

INTRODUCTION:

Adam Tech Flat Cable IDC D-Sub connectors are a popular interface for many I/O and cable assembly applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost industry standard connection that terminates .050" flat cable quickly, easily and compactly. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Quickly terminates to flat cable
- Industry standard compatibility
- Durable metal shell design
- Integral strain relief available
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Colors: Black (Blue optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate, Nickel over copper underplate on IDC area

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min
Recommended cable size: 28 to 30 Awg.

Temperature Rating:

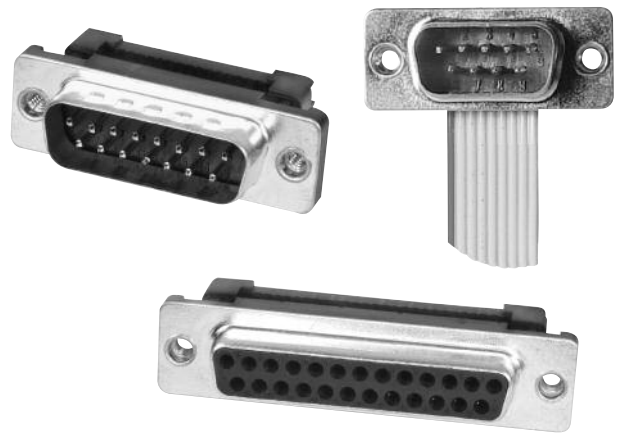
Operating temperature: -65°C to +125°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION



SHELL SIZE/ POSITIONS

DE09 = 9 Position
DA15 = 15 Position
DB25 = 25 Position
DC37 = 37 Position
DD50 = 50 Position

CONTACT TYPE

PF = Plug, IDC
SF = Socket, IDC

MOUNTING OPTIONS

1 = .130" mounting holes
2 = #4-40 threaded
flush inserts
(Metal Shell only)

BODY CONSTRUCTION

M = Metal shell
P = All plastic body

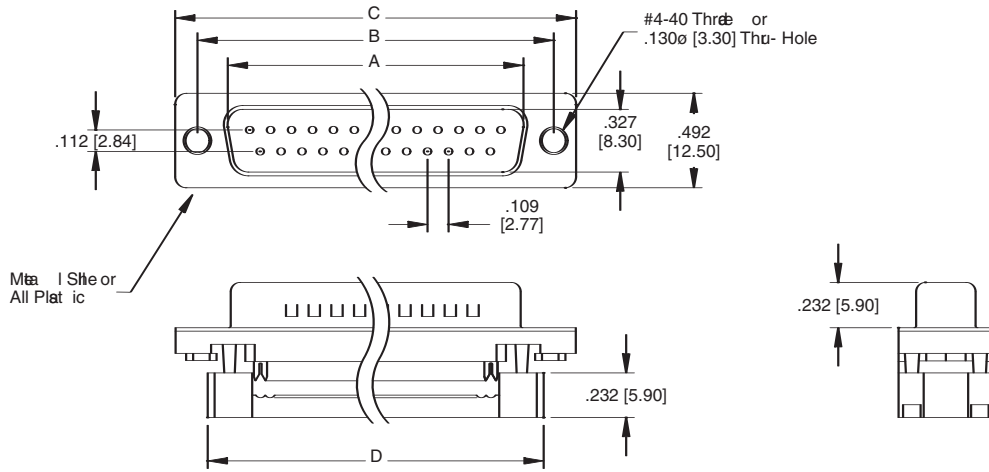
Strain Relief

Part No.:
DSR - xx
(xx = No. of Positions)

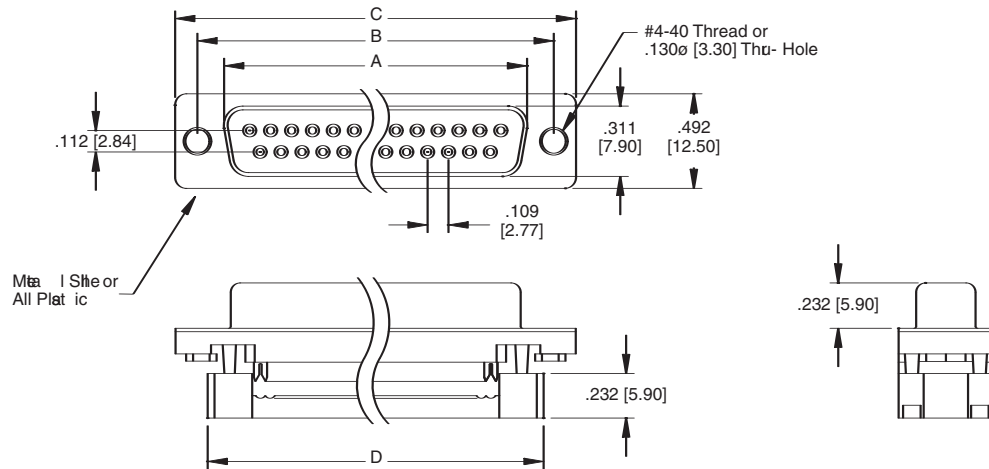
OPTIONS:

Add designator(s) to end of part number
15 = 15 μ m. gold in contact area
30 = 30 μ m. gold in contact area
BU = Blue color insulator

PLUG



SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.883 [22.44]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.213 [30.81]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.755 [44.57]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.414 [61.32]

INTRODUCTION:

Adam Tech Solder Cup D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions, they are an excellent choice for a low cost industry standard connection. These connectors are manufactured with precision stamped contacts, and offer a wide selection of mating and mounting options. Adam Tech Solder Cup connectors can be soldered to cable ends or mounted directly to a PCB card edge.

FEATURES:

- Cable or edge card mounting
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate underall.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION



SHELL SIZE/ POSITIONS

DE09 = 9 Position
DA15 = 15 Position
DB25 = 25 Position
DC37 = 37 Position
DD50 = 50 Position

MOUNTING OPTIONS

Blank = .120" Mounting Holes
SL = Bottom Side
Riveted, #4-40
clinch nuts
JS = Top Side
Riveted, #4-40
Jack Screws

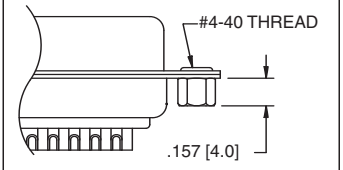
CONTACT TYPE

PD = Solder Cup, Plug
SD = Solder Cup, Socket

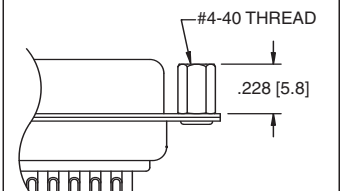
OPTIONS:

Add designator(s) to end of part number
15 = 15 μ m gold plating in contact area
30 = 30 μ m gold plating in contact area
EMI = Ferrite filtered version for EMI / RFI
suppression (Page 72)
WT = White Color Insulator

MOUNTING OPTIONS

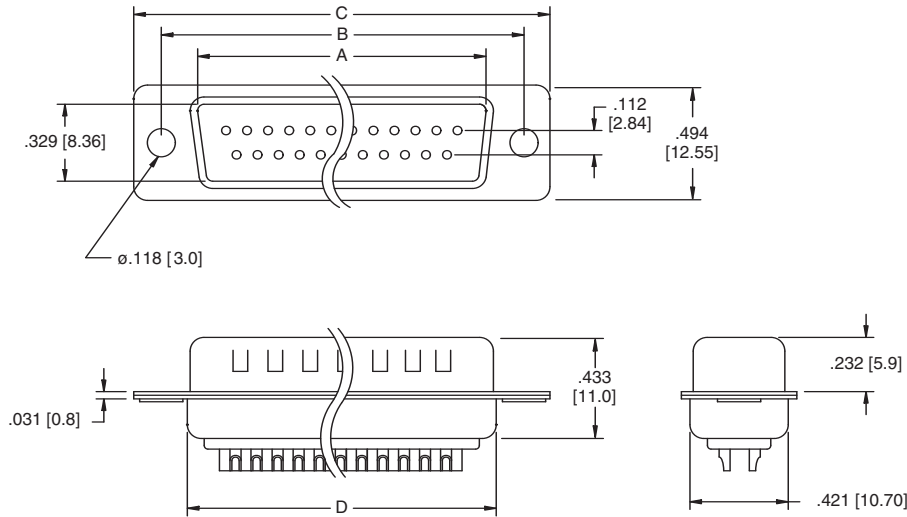


SL Option
Bottom side riveted #4-40 Clinch Nuts

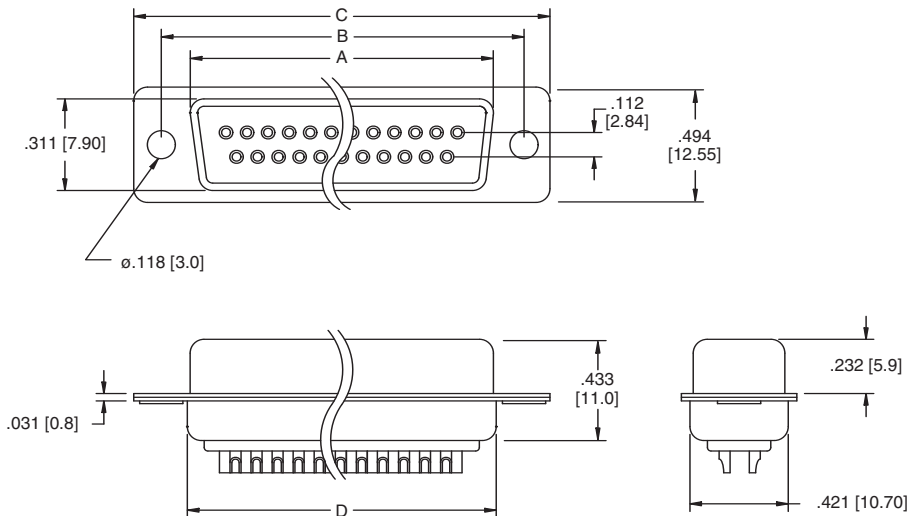


JS Option
Top side riveted #4-40 Jack Screws

PLUG



SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]

INTRODUCTION:

Adam Tech Crimp and Poke D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a low cost alternative to soldering a connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.

FEATURES:

- Low cost no solder alternative
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Color: Black

Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 µin Optional) over Nickel underplate.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C

PACKAGING:

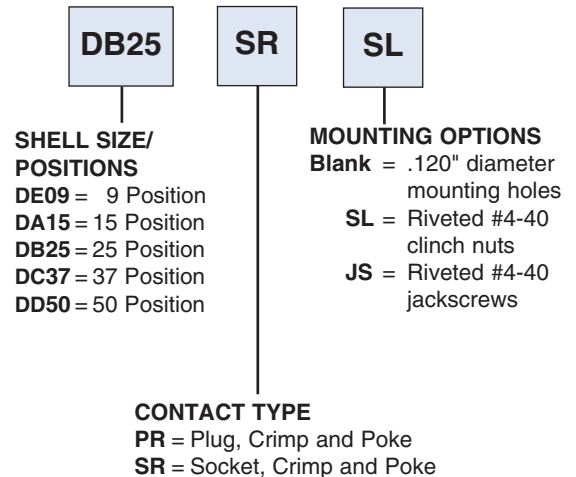
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

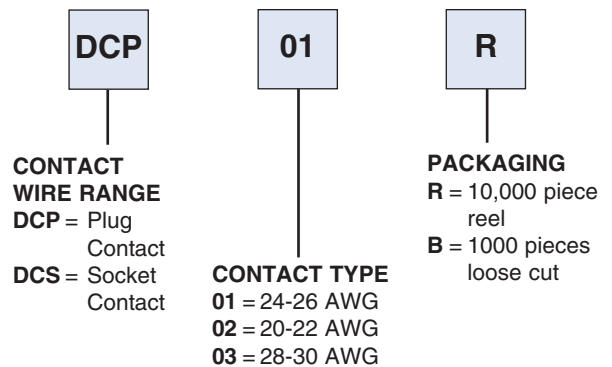
UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION HOUSING



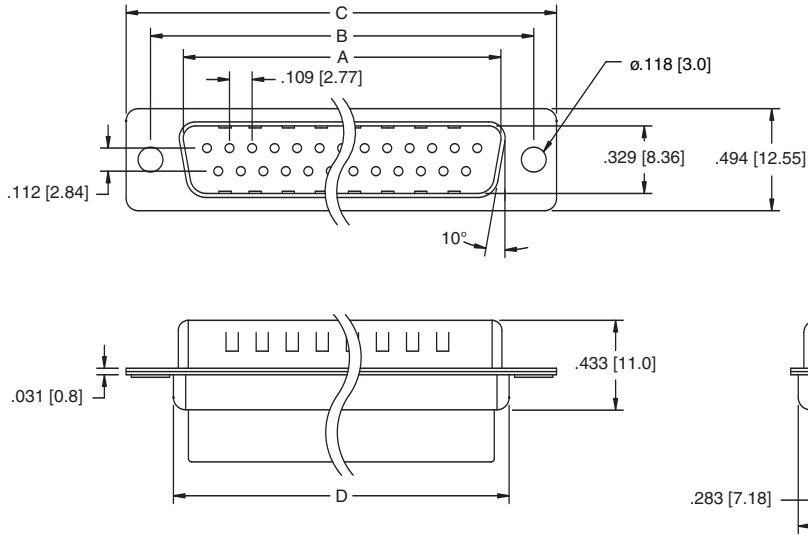
CONTACTS



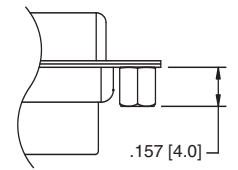
OPTIONS:

Add designator(s) to end of part number
15 = 15 µin gold plating in contact area on crimp contacts
30 = 30 µin gold plating in contact area on crimp contacts

PLUG HOUSING

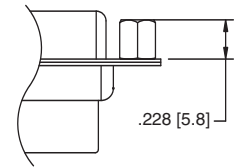
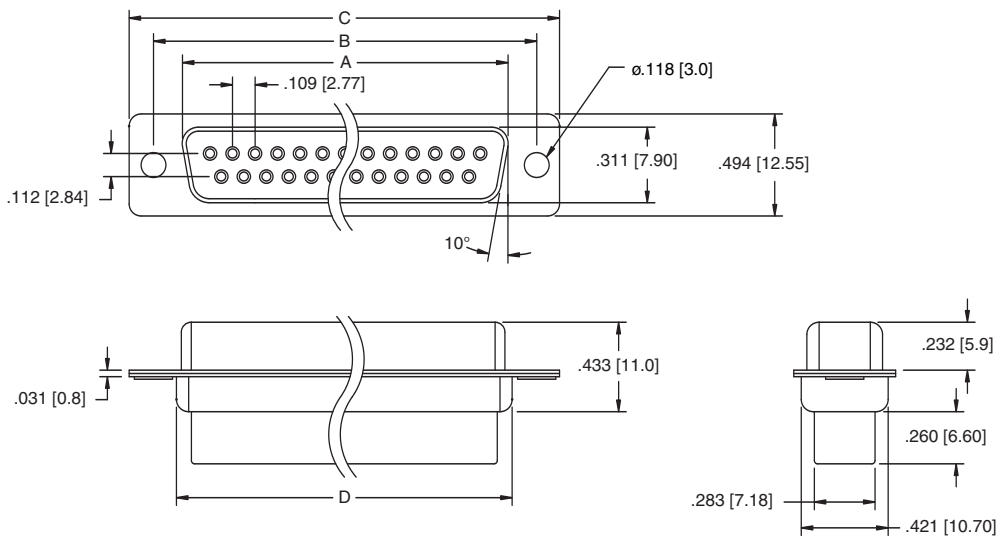


MOUNTING OPTIONS



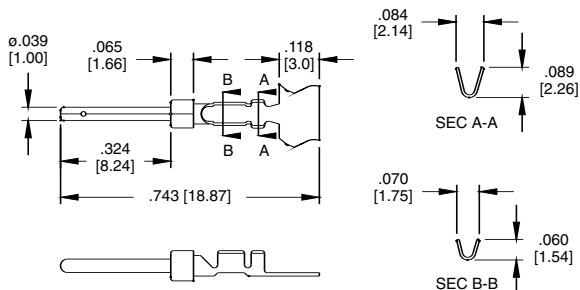
SL Option
Bottom side riveted #4-40
Clinch Nuts

SOCKET HOUSING

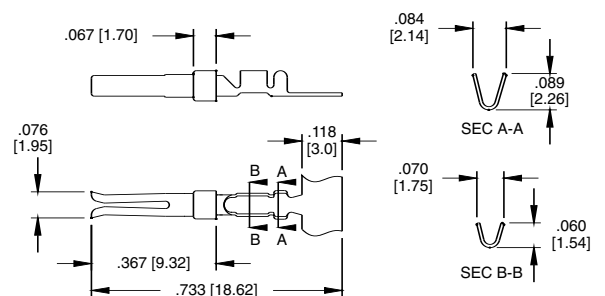


JS Option
Top side riveted #4-40
Jack Screws

PLUG CRIMP CONTACTS



SOCKET CRIMP CONTACTS



INTRODUCTION:

Adam Tech Dual Port D-Sub connectors are a popular space saving interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a good choice for a low cost industry standard connection and are ideal for PCB space saving applications. These connectors are manufactured with precision stamped contacts and are available in a number of connector combinations including same and mixed gender, mixed density and mixed interface. Options include a choice of contact plating and a variety of mating, mounting and grounding options.

FEATURES:

- Stacked space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 µin Optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C

PACKAGING:

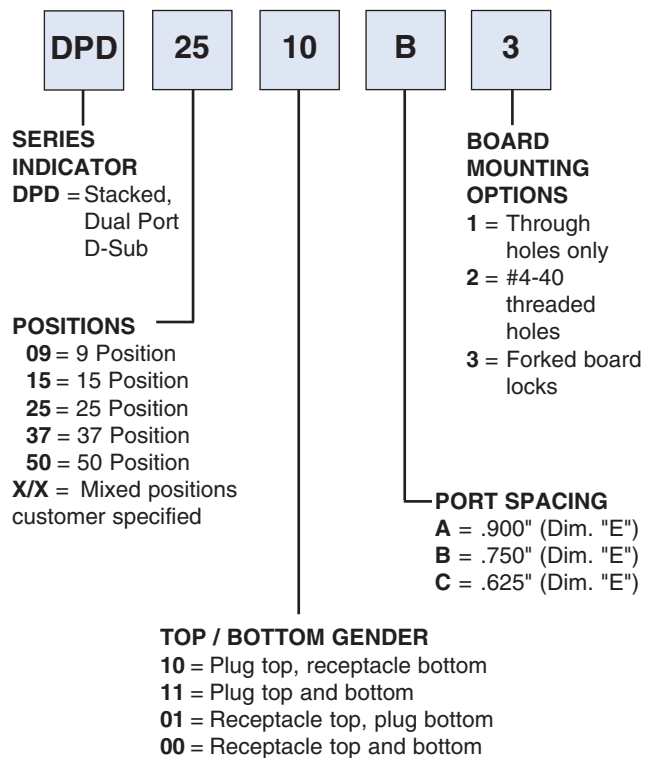
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
 CSA Certified File No. LR1578596



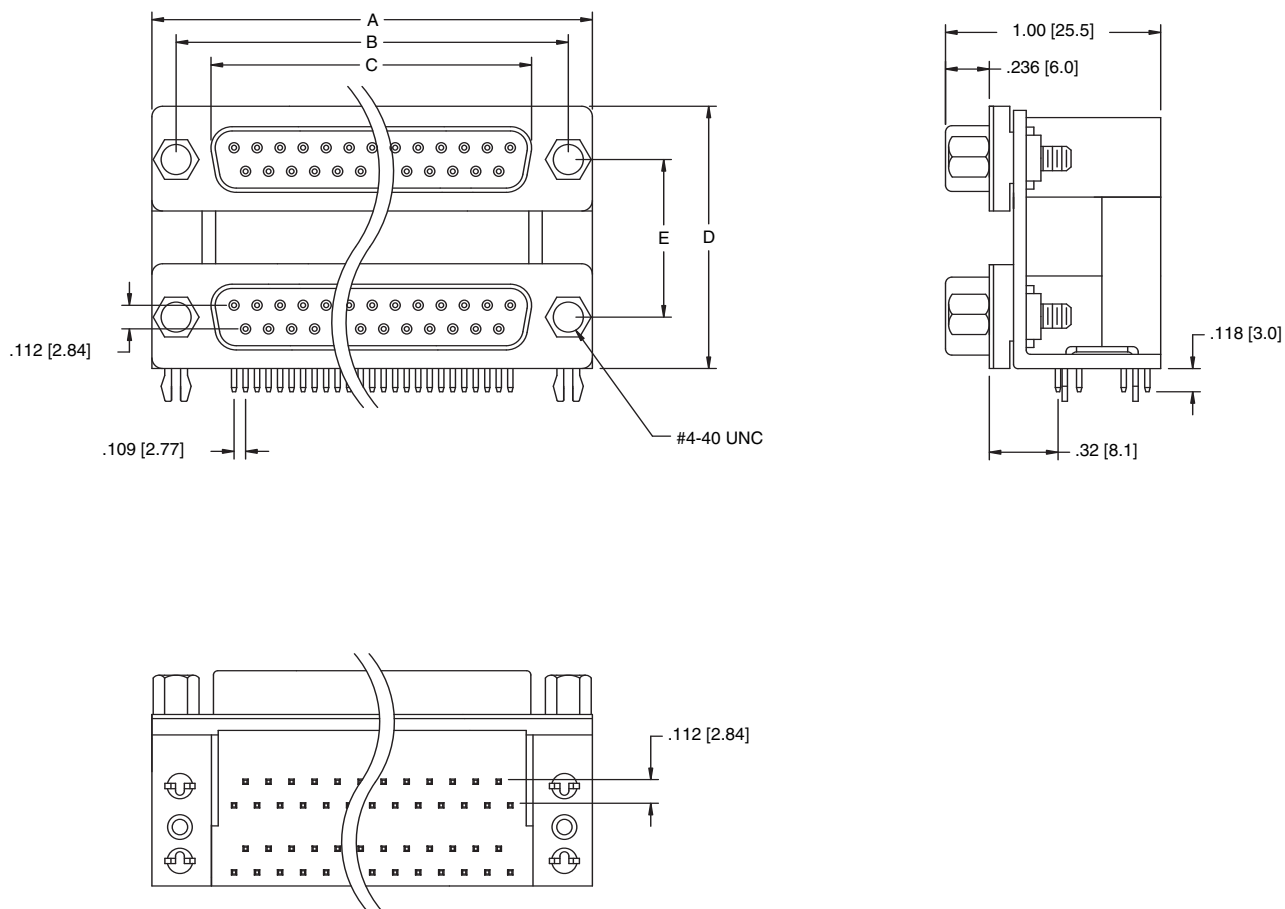
ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number
15 = 15 µin gold plating in contact area
30 = 30 µin gold plating in contact area
JS = #4-40 Jackscrews installed
R = Rear boardlocks only
F = Four prong board lock

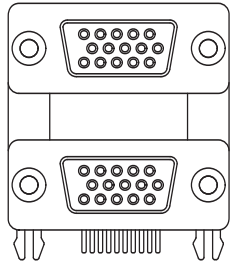
DUAL PORT, STACKED RIGHT ANGLE



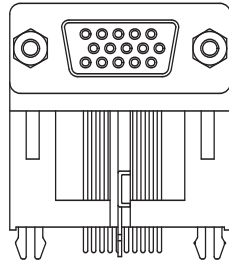
See page 100 for examples of various types we manufacture

Unit: Inch [mm]

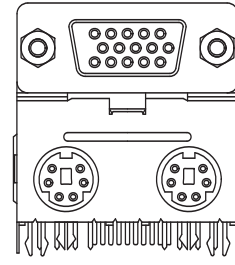
Positions	PLUG	SOCKET	DIMENSIONS			
	A	A	B	C	D	E
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	PORT HEIGHTS	PORT TO PORT CENTERLINE
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]		
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]		
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]		
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]		
					1.394 [35.41]	.900 [22.86]
					1.244 [31.60]	.750 [19.05]
					1.119 [28.42]	.625 [15.88]



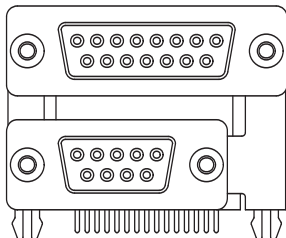
15P HD D-Sub over 15P HD D-Sub



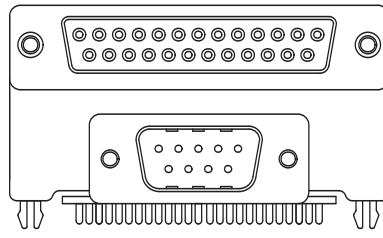
15P HD D-Sub Elevated



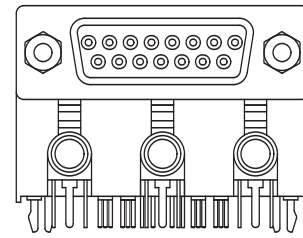
15P HD D-Sub over Dual Mini DINs



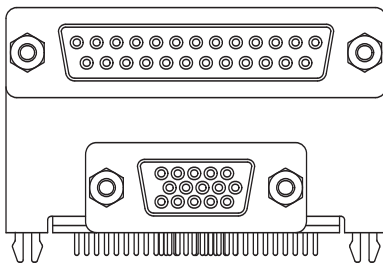
15P D-Sub over 9P D-Sub



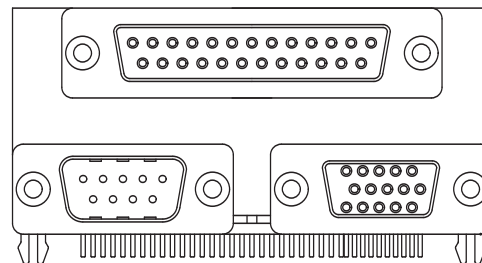
25P D-Sub over 9P D-Sub



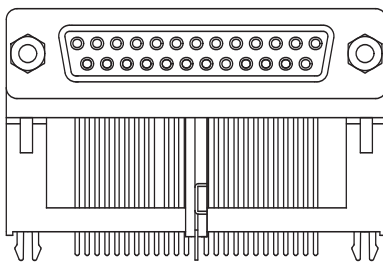
15P D-Sub over Ganged Stereo Jacks



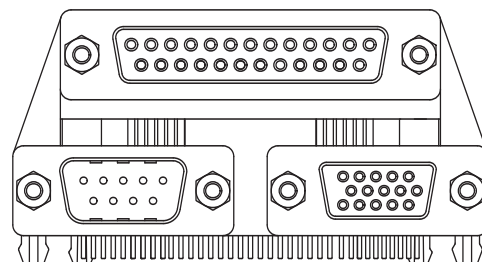
25P D-Sub over HD 15P D-Sub



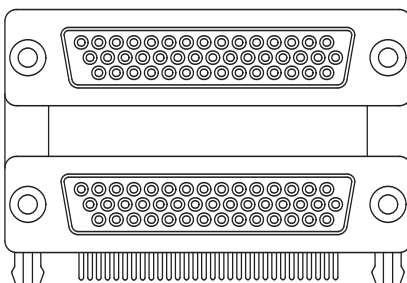
25P D-Sub over 9P D-Sub & HD 15P D-Sub



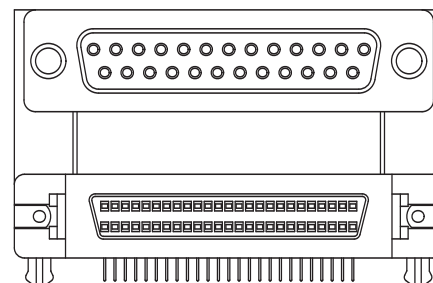
25P D-Sub Elevated



25P D-Sub over 9P D-Sub & HD 15P D-Sub



44P HD D-Sub over 44P HD D-Sub



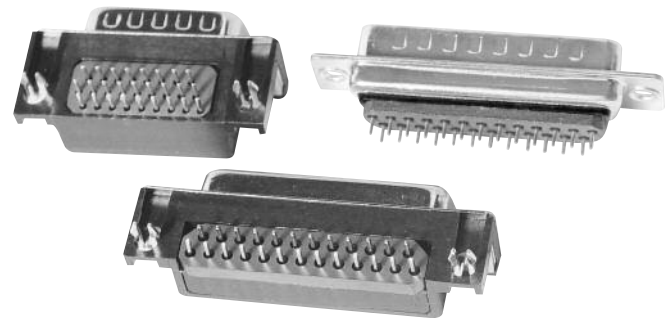
25P D-Sub over 50P SCSI II

INTRODUCTION:

Adam Tech EMI filtered D-Sub option includes the addition of a high performance Ferrite Filter which surrounds each contact and provides a low cost EMI answer for high frequency interference. Our ferrite filtered D-Subs are direct drop-in replacements with our standard unfiltered D-Subs with the same footprint.

FEATURES:

Direct replacement for standard non-filtered parts
 Low cost alternative to passive component types
 Significant reduction of noise at high frequencies

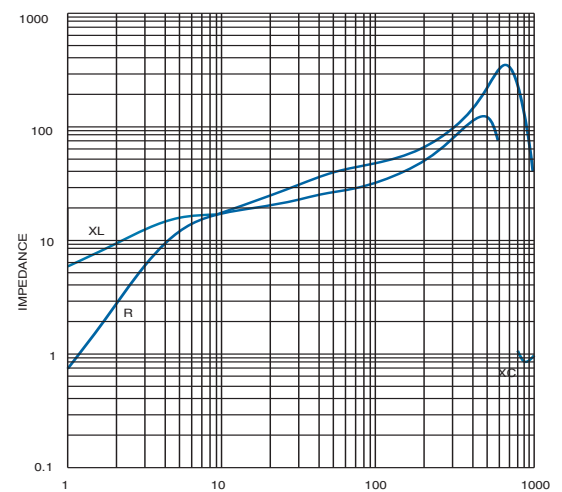


See pgs. 72,75,78,94,104,106,108 for ordering information

AdamTech offers a complete range of ferrite filtered D-Subs to satisfy EMI/RFI emissions in most applications. This series offers filtered connectors in a multitude of terminations, mating and mounting options.

- Drop in replacement for standard D-Subs
- Low applied cost
- Significant reduction of noise at high frequencies

Typical Performance



* Consult factory for specific part number impedance performance.

9 Position

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	5.4	15	18	23	25	26	28	34	51
R-	0.656	11	18	29	32	37	40	50	64

	300	400	500	600	700	800	900	1000
XC-					1.27	0.807	0.856	0.977
XL-	73	101	122	57				
R-	84	121	199	342	344	170	77	40

25 Position

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	4	14	18	22	24	26	27	35	55
R-	0.309	8.4	15	26	29	33	36	46	59

	300	400	500	600	700	800	900	1000
XC-					0.983	0.762	0.851	0.986
XL-	81	115	147	65				
R-	79	119	210	394	356	150	65	34

15 Position

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	3.6	15.9	19	24	25	27	28	36	54
R-	0.116	8.4	16	28	31	35	39	49	62

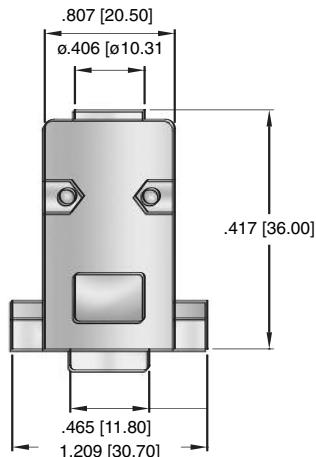
	300	400	500	600	700	800	900	1000
XC-					0.998	0.78	0.864	0.996
XL-	80	112	138	48				
R-	83	124	215	389	339	147	64	33

37 Position

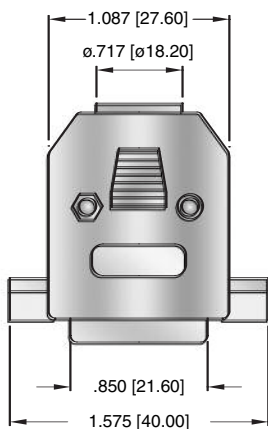
FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	4.9	16	20	25	27	28	30	36	53
R-	0.45	8.4	15	26	29	33	36	46	59

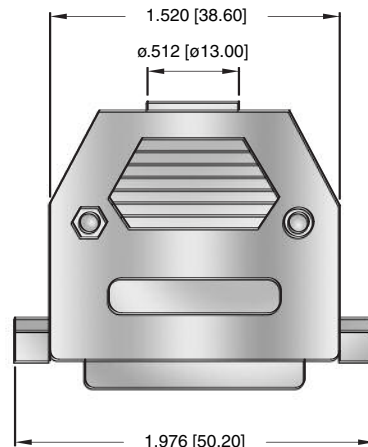
	300	400	500	600	700	800	900	1000
XC-					1.082	0.814	0.879	1
XL-	76	105	122	29				
R-	80	122	224	424	332	131	56	29



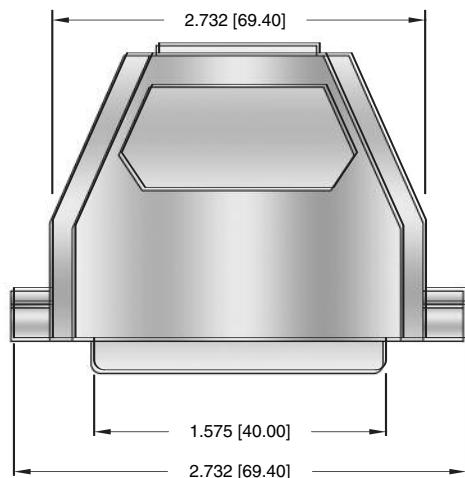
DE09-HD-PN-(SS or TS)



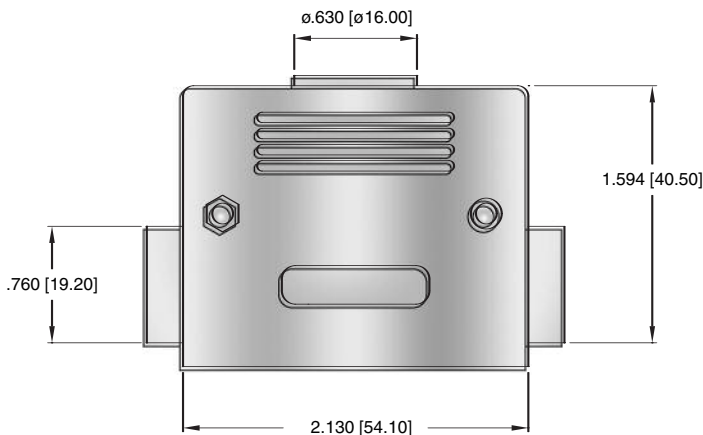
DA15-HD-PN-(SS or TS)



DB25-HD-PN-(SS or TS)



DC37-HD-PN-(SS or TS)

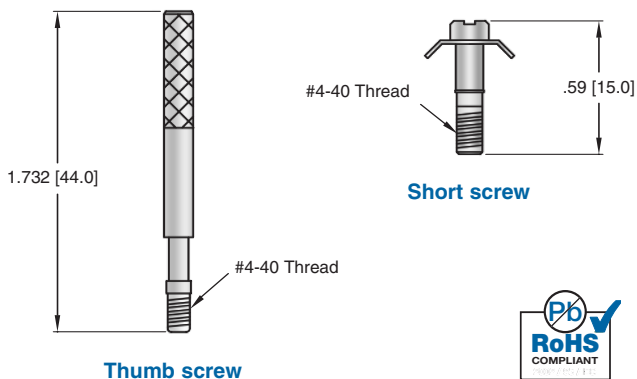


DD50-HD-PN-(SS or TS)

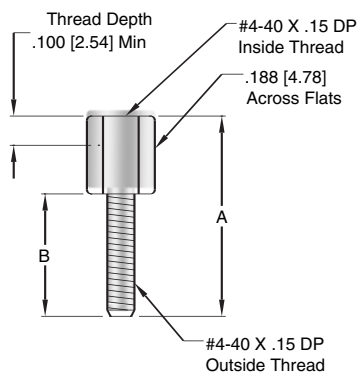
ORDERING INFORMATION

choose one from each category as shown in sample below

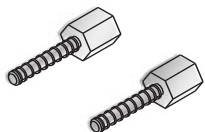
Hood Size	Hood Color	Hardware
DE09-HD	PY	TS
DE09-HD - 9P Hood	PY - Gray Plastic	SS - Short Screw
DA15-HD - 15P Hood	PB - Black Plastic	TS - Thumb Screw
DB25-HD - 25P Hood	PN - Bright Chrome Plated Plastic	
DC37-HD - 37P Hood		
DD50-HD - 50P Hood	AL - Aluminum Cast	



Jackscrews

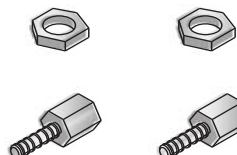


JACKSCREW DIMENSIONS		
PART NUMBER	A	B
JS-01	.416 [10.60]	.226 [5.70]
JS-02	.467 [11.86]	.270 [6.86]
JS-03	.500 [12.70]	.313 [7.95]
JS-04	.465 [11.81]	.226 [5.70]



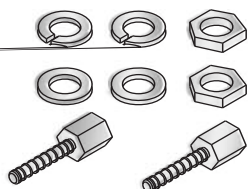
HDW-031

Set includes 2 #4-40 female jackscrews



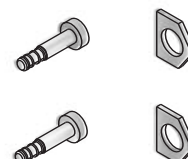
HDW-024

Set includes 2 #4-40 female jackscrews and 2 hex nuts



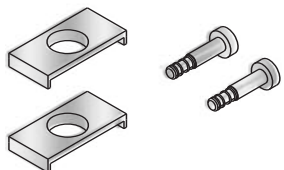
HDW-023

Set includes 2 #4-40 female jackscrews 2 flat washers, 2 split washers and 2 hex nuts



HDW-028

Screw retainer clip set includes 2 screw retainer clips and 2 retainer screws



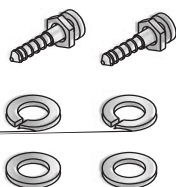
HDW-029

Screw lock kit includes 2 screw locks and 2 retainer screws



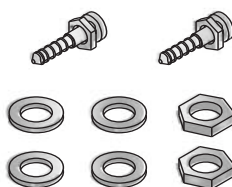
HDW-044

Sliding lock posts
Set of 2



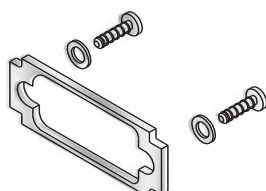
HDW-043A

Slide lock post set includes 2 posts, washers and lock-washers



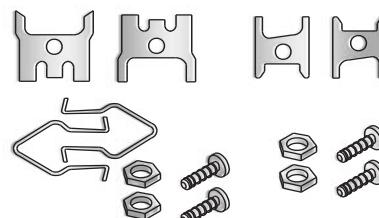
HDW-045

Slide lock post kit includes 2 posts, washers and hex nuts



HDW-043-XX

Slide lock assembly kit includes slide lock, screws and washers, Specify 9, 15, 25 or 37 position



HDW-041

Spring latch set includes 1 pair of spring latches, with holding hardware and 1 pair of notch clips, with holding hardware

INTRODUCTION:

Adam Tech Solder Cup High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions, they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- High Density pin count in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

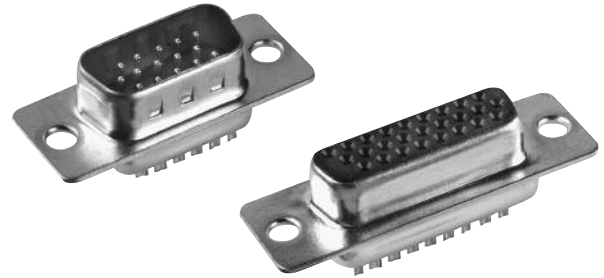
Operating temperature: -65°C to +125°C

PACKAGING:

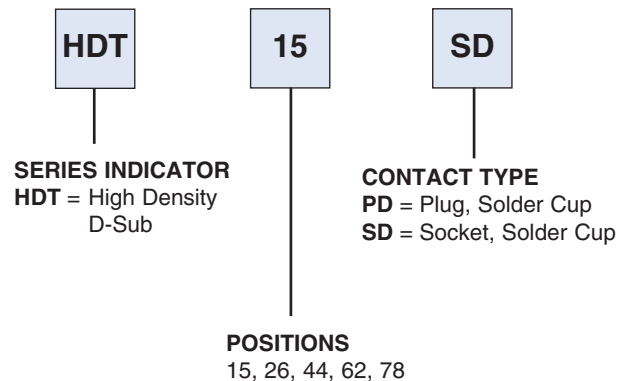
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

15 = 15 μ m gold plating in contact area

30 = 30 μ m gold plating in contact area

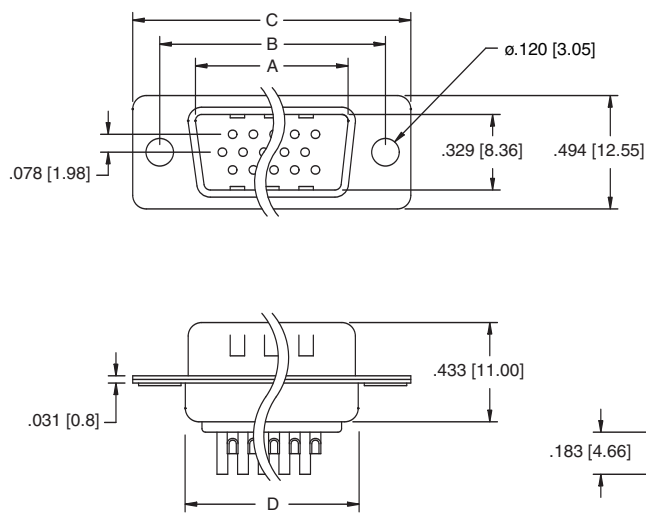
WT = White color insulator

SL = Bottom side Riveted #4-40 Clinch Nuts

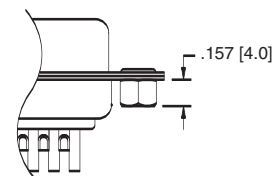
JS = Top side riveted #4-40 Jack Screws

EMI = Ferrite filtered version for EMI / RFI suppression (Page 101)

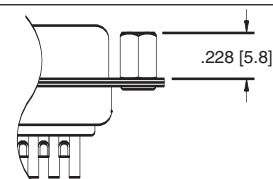
PLUG



MOUNTING OPTIONS

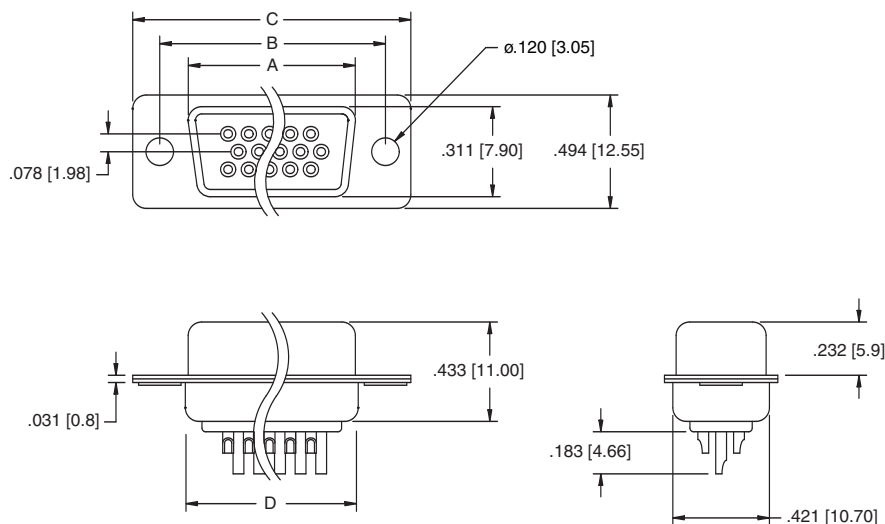


SL Option
Bottom side riveted #4-40
Clinch Nuts



JS Option
Top side riveted #4-40
Jack Screws

SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.759 [19.28]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.083 [27.51]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.626 [41.30]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.271 [57.70]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	2.099 [55.32]

INTRODUCTION:

Adam Tech Straight PCB tail High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- High Density pin count in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

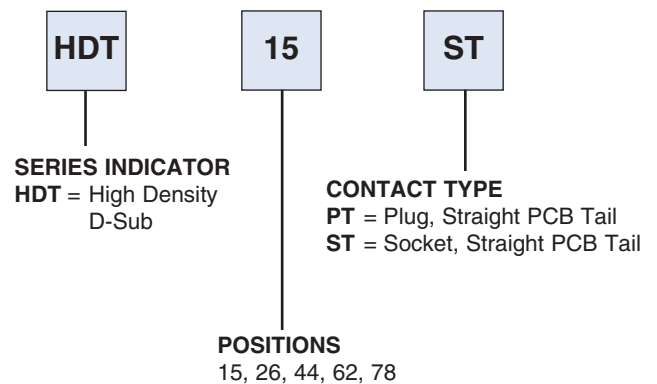
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

WT = White color insulator

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

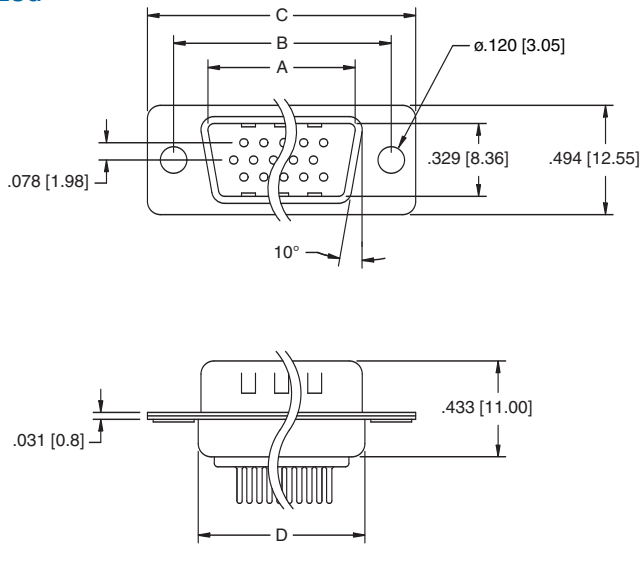
SL = Riveted #4-40 Clinch Nuts

JS = Riveted #4-40 Jackscrews

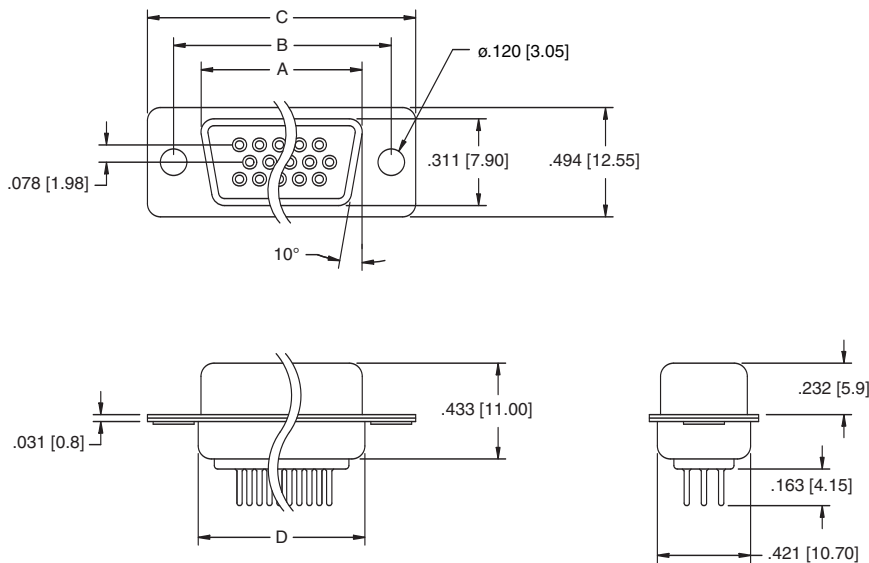
BL = Riveted #4-40 Internal Threaded Standoffs with Boardlocks

EMI = Ferrite filtered version for EMI / RFI suppression (Page 101)

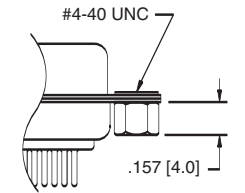
PLUG



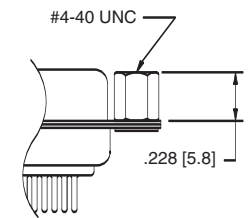
SOCKET



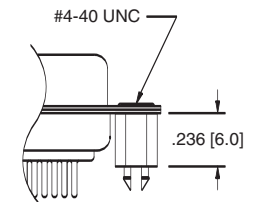
MOUNTING OPTIONS



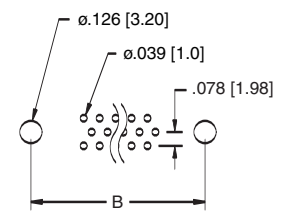
SL Option
Bottom side riveted #4-40 Clinch Nuts



JS Option
Top side riveted #4-40 Jack Screws



BL Option
Bottom side riveted #4-40 Clinch Nuts with PCB Boardlocks



Recommended PCB Layout

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.759 [19.28]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.083 [27.51]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.626 [41.30]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.271 [57.70]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	2.099 [55.32]

INTRODUCTION:

Adam Tech Right Angle PCB High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- High Density in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
Insulator Colors: HDL Series: Black
HDVG Series: Blue

Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -65°C to +125°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION



SERIES INDICATOR

HDL = High Density D-Sub
HDVG = High Density VESA connector with recessed #9 pin and blue insulator

POSITIONS
15, 26, 44, 62, 78

MOUNT OPTIONS

A = #4-40 Jackscrews and forked boardlocks
B = #4-40 Flush threaded inserts and forked boardlocks
C = #4-40 Flush threaded inserts with removable jackscrews and forked boardlocks
D = Topside ground straps with screw holes

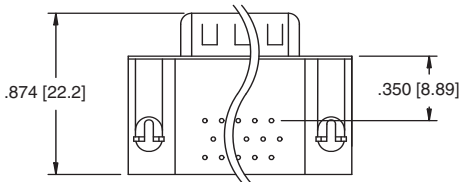
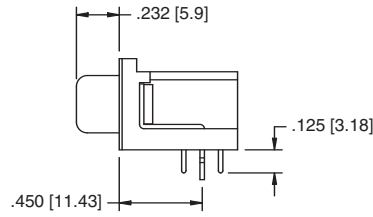
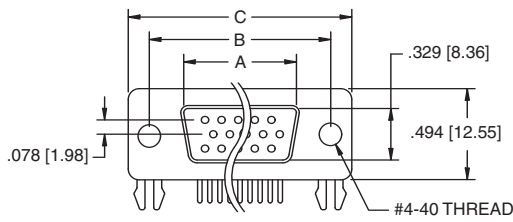
CONTACT TYPE

PL = Plug, Right Angle Mount
SL = Socket, Right Angle Mount

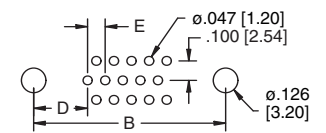
OPTIONS:

Add designator(s) to end of part number
15 = 15 μ m gold plating in contact area
30 = 30 μ m gold plating in contact area
EMI = Ferrite filtered version for EMI / RFI suppression (Page 101)
F = Retention 4 prong boardlocks
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
R = Round Riveted Jackscrews

PLUG

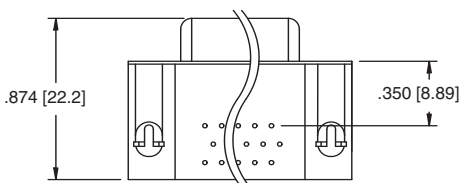
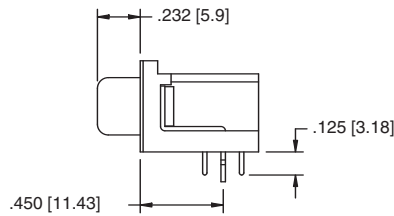
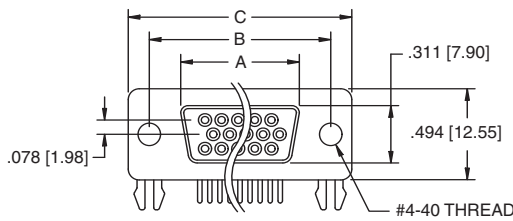


HDL15-PL-B

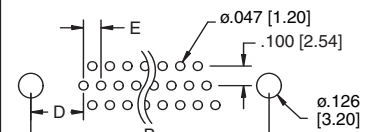


15 Position PCB Layout

SOCKET

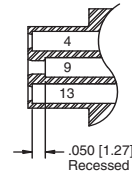


HDL15-SL-B



26, 44, 62 Position PCB Layout

Hi Density Video Graphics Connector



HDVG-15-SL-B

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS			
	A	A	B	C	D	E
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.277 [7.04]	.090 [2.29]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	.277 [7.04]	.090 [2.29]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	.277 [7.04]	.090 [2.29]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	.276 [7.00]	.095 [2.41]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	.300 [7.63]	.095 [2.41]

INTRODUCTION:

Adam Tech Crimp and Poke High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a low cost alternative to soldering a high density connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.

FEATURES:

- High Density in standard size shell
- Low cost no solder alternative
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

- Insulator: PBT, 30% glass reinforced, rated UL94V-0
- Insulator Colors: Black (White optional)
- Contacts: Phosphor Bronze
- Shell: Steel, Tin or Zinc plated
- Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate overall.

Electrical:

- Operating voltage: 250V AC / DC max.
- Current rating: 5 Amps max.
- Contact resistance: 20 m Ω max. initial
- Insulation resistance: 5000 M Ω min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

- Insertion force: 0.75 lbs max
- Extraction force: 0.44 lbs min
- Recommended wire size: 22 to 28 Awg

Temperature Rating:

Operating temperature: -65°C to +125°C

PACKAGING:

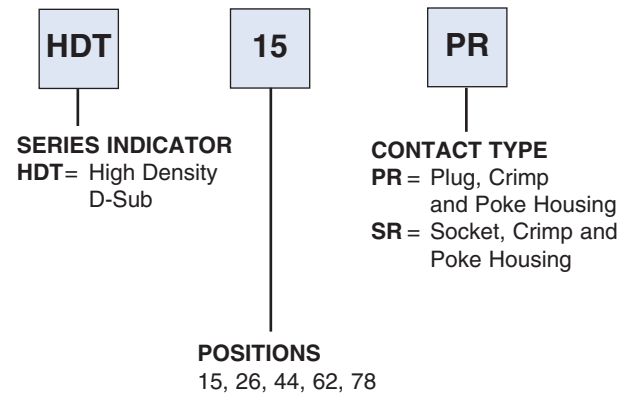
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

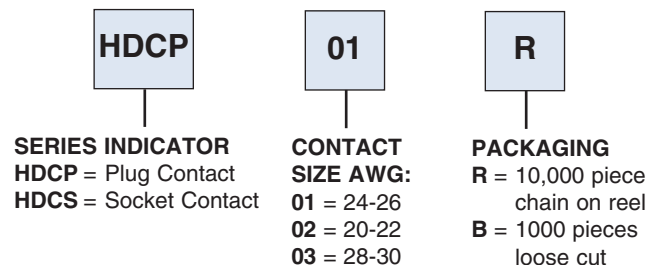
- UL Recognized File No. E224053
- CSA Certified File No. LR1578596



ORDERING INFORMATION HOUSING



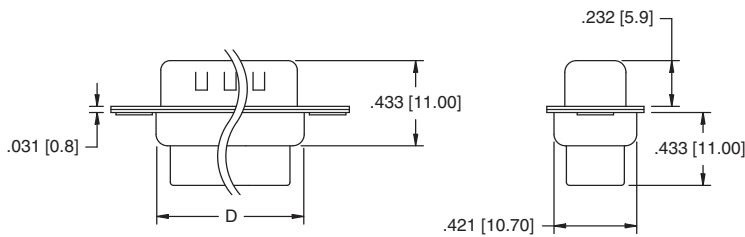
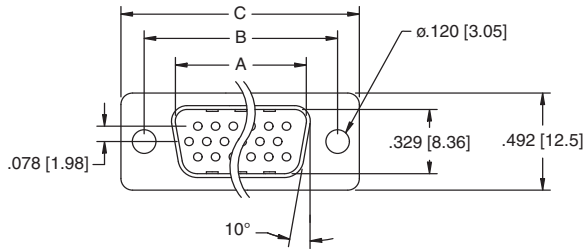
CRIMP CONTACT



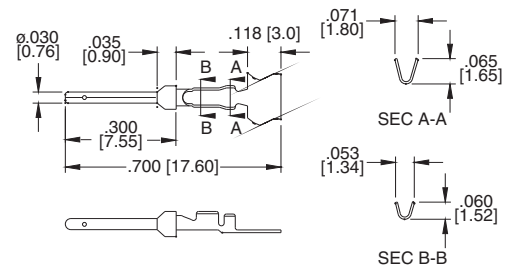
OPTIONS:

- Add designator(s) to end of part number
- 15 = 15 μ m gold plating in contact area
- 30 = 30 μ m gold plating in contact area
- WT = White color insulator.
- SL = Riveted #4-40 Clinch Nuts
- JS = Riveted #4-40 Jackscrews

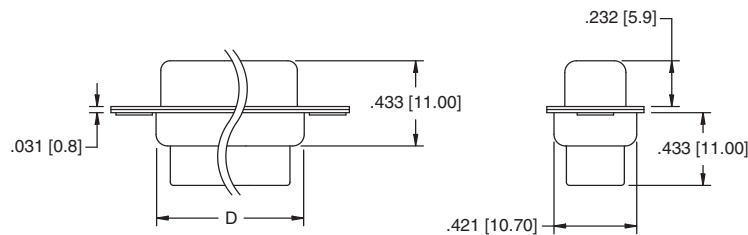
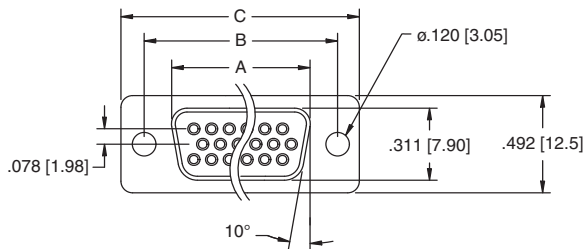
PLUG



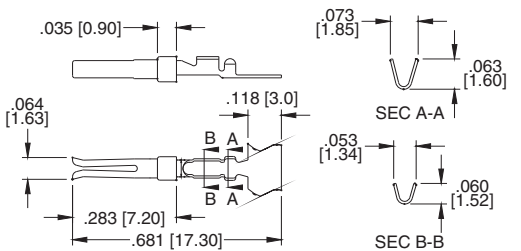
Plug Contact



SOCKET



Socket Contact



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.759 [19.28]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.083 [27.51]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.626 [41.30]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.271 [57.70]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	2.099 [55.32]