GENERAL DESCRIPTION:

Amphenol's line of D-Subminiature rack and panel connectors is part of an industry standard for applications requiring reliable, rugged, connectors. These connectors are designed to accommodate rack and panel, cable to panel and cable to cable applications. D-Subminiature connectors are pin and socket devices that employ contacts encased in a molded dielectric insert surrounded by a "D" shaped shell for polarization.

MARKETS:

Amphenol D-Subminiature connectors can be used in commercial, industrial or military markets. We offer a broad selection of dielectric materials and contact styles and configurations to meet all of your design requirements.

APPLICATIONS INCLUDE:

- Business equipment
- Electronic office systems
- Data communications
- Medical equipment
- Mobile communications
- Consumer electronics

AMPHENOL D-SUB FEATURES:

- Industry standard interfacing RS232 and RS449 mating configurations per EIA standards.
- UL Component Recognition File number E64911 (617, 841, 17, 17D, 17HD, ED, 17RR, 17SD, 117DF, 17BH, 17TW
- Variations available: Solder cup Straight pc mount solder Right angle pc mount solder Solderless wire wrap Crimp High Density Right Angle High Density Straight Stacked Right Angle PC mount Surface mount
- Five shell sizes offer widest choice of contact positions: 9, 15, 25, 37 and 50 in standard density and 15, 26, 44, 62 and 78 positions in high-density.
- Inserts are flame-retardant thermoplastic.
- Accessories for all applications are available including strain reliefs, cable clamps, shielded backshells, mating hardware and connector to pc board mounting hardware.
- Automatic and manual tooling is available for both crimp and IDC versions.
- Contact Amphenol for lease information.

Dimensions and characteristics are subject to change without notice.

Fixed Machined Contact Connector

Standards: • UL File: E119881 • Connectors according to MIL C24308

SPECIFICATIONS:

MATERIALS AND	PLATINGS
Shells	Steel yellow chromated over zinc or tinned steel
lu sulata s	with or without dimples on plug connector
Insulator Description	Glass-filled thermoplastic, UL 94V-0
Rear Insert	Brass, 118µ" up to 197µ" (3µm up to 5µm)
	tinned over nickel 78µ" up to 118µ"
	(2μm up to 3μm)
Boardlock	Tin-lead plating 157µ" up to 236µ"
	(4μm up to 6μm) over nickel
	78μ" up to 118μ" (2μm up to 3μm)
Screwlock	Brass, 236µ" up to 394µ"
	(6μm up to 10μm) tinned over nickel 78μ"
	up to 118µ" (2µm up to 3µm)
Contacts	D: brass
	DF: pin = brass
	Socket = copper alloy
Right Angle Version	Selective gold in mating area over 78µ"
	up to 118µ"
	(2µm up to 3µm) nickel; 118µ" up to 197µ"
	(3µm up to 5µm) tin-lead on termination area
	over 78μ " up to 118μ " (2μ m up to 3μ m) nickel
Straight Version	Full gold plating over 78µ" up to 118µ"
J	(2µm up to 3µm) nickel

ELECTRICAL DATA

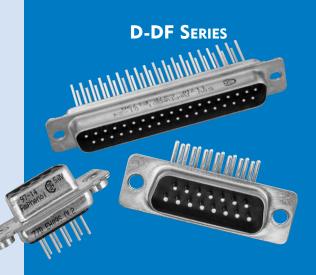
CLIMATIC DATA

Operating Temperature

D: -67°F (-55°C) to +185°F (85°C), peak at 257°F (125°C) DF: -67°F (-55°C) to + 257°F (125°C)

MECHANICAL DATA

No. of Contacts	Mate (max.)	Unmate (min.)		
9 (size E)	6.74 (3.05)	0.79 (0.36)		
15 (size A)	11.24 (5.09)	1.01 (0.46)		
25 (size B)	18.66 (8.44)	1.8 (0.81)		
37 (size C)	27.65 (12.51)	2.47 (1.1)		
50 (size D)	32.38 (14.65)	3.56 (1.6)		

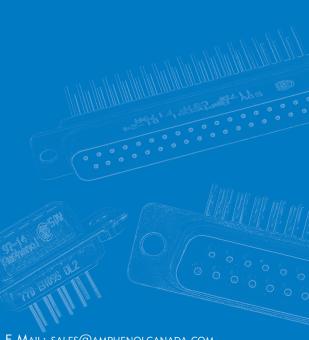


The Amphenol SD series features precision formed contacts, and 4 finger boardlocks.

This series gives you Amphenol's high standards of quality and reliability to meet all of your commercial requirements.

• Industrial

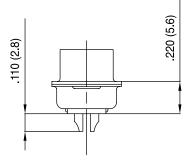
- Telecom
- Any industry standard I / O connections



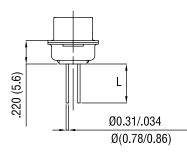
INCHES (MM)

Fixed Machined Contact Connector

Solder cup

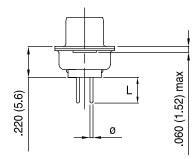


Wire Wrap



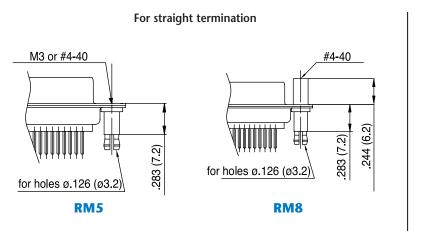
Termination	Nb of wraps	L		
F179	2	.378 (9.6)		
F179A	3	.512 (13)		

Straight PCB



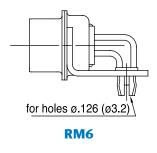
Termination	Ø	L		
U	.024 (0.6)	.126 (3.2)		
v	.040 (1.02)	.095 (2.4)		
т	.024 (0.6)	.157 (4)		
OL2	.02 (0.6)	.217 (5.5)		

Grounding tabs



For R/A termination

FOR PCB .062 (1.6)



TELEPHONE: (416) 754-5656 FAX: (416) 754-8668 E-MAIL: SALES@AMPHENOLCANADA.COM

D-DF SERIES

Screw-Machined Contacts Fixed Machined Contact Connector



		xxxx	<u>x</u> <u>x</u>	<u>×</u>	<u>xx</u>	<u>×</u>	<u>xxxx</u>	For specific pr		
8μ" (0.2μm) 20μ"	17D: 77D: 717D: 17DF: 77DF:	yellow chromated shell tinned shell for receptacle tinned shell + dimples for pl yellow chromated shell tinned shell	ug					Grounding tab RM5 for str. RM8 for str. RM6 for rig VF front s VFM front s VF2 remov	s: aight PCB mount aight PCB mount ht angle PCB mo crewlock 4-40	ing + female loo unting -40
(0.5µm)	717DF:	for receptacle tinned shell + dimples for plug						Termination: solder cup: no c		
30µ" (0.76µm)	117DF: 177DF: 777DF:	yellow chromated shell tinned shell for receptacle tinned shell + dimples for pl	ug						th .378 (9.6) th .512 (13)	
		E, A, B, C, D						V leng T leng	th .094 (2.4) t th .157 (4) t	ail ø.024 (ø0.6) ail ø.040 (ø1.02 ail ø.024 (ø0.6) ail ø.024 (ø0.6)
	*H, G m	rear insert 4-40 rear insert M3 float mounting standard rivet .122 (ø 3.1) ust also be used to specify ading of RM5 grounding tabs.						Right Angle Conr MIL footprint without bracket: plastic bracket:	C tail A4 tail AJ3 tail	ø.040 (ø1.02 ø.024 (ø0.6) ø.040 (ø1.02
	Contact ty							metal bracket:	AJ4 tail A tail AM4 A AZ4 A AM4B footprir	Ø.024 (Ø0.6) Ø.040 (Ø1.02 Ø.519 (13.2) Ø.453 (11.5)
		pin socket						European footprint without bracket: plastic bracket:	1AON X .100 1BON X .111 1APN X .100 1BPN X .111 1AUN X .100) (2.54) 2 (2.84)) (2.54) 2 (2.84)) (2.54)
								metal bracket:	1BUN X .11: 1AMN X .10: 1BMN X .11: 1ATN X .10: 1BTN X .11:	D (2.54) 2 (2.84) D (2.54)

For special request, please consult factory

For Filtered D-Sub, see page 56.

Telephone: (416) 754-5656 Fax: (416) 754-8668 E-Mail: sales@amphenolcanada.com

