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.

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

with or without dimples on plug connector

Insulator Glass-filled thermoplastic, UL 94V-0

Rear Insert Brass, 118μ" up to 197μ (3μm up to 5μm)

tinned over nickel 78µ" up to 118µ"

 $(2\mu m \text{ up to } 3\mu m)$

Boardlock Tin-lead plating 157μ" up to 236μ"

(4μm up to 6μm) over nickel

 78μ " up to 118μ " (2μ m up to 3μ m)

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" (2μm up to 3μm) nickel

Straight Version Full gold plating over 78µ" up to 118µ"

(2µm up to 3µm) nickel

ELECTRICAL DATA

Current Rating 7.5 A

Voltage Rating 300 V AC/rms 50Hz

Withstanding Voltage 1000V AC/rms 50Hz for one minute 1000V AC/rms 50Hz for one minute 5000MO

Insulation Resistance5000MΩContact ResistanceD: 8.5mΩ max.DF: 5mΩ max.

CLIMATIC DATA

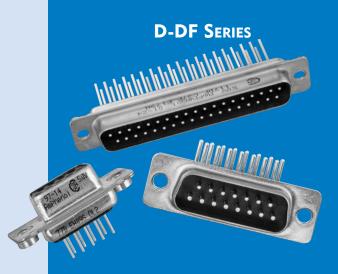
Operating Temperature D: -67°F (-55°C) to +185°F (85°C),

peak at 257°F (125°C)

DF: $-67^{\circ}F$ (-55°C) to + 257°F (125°C)

MECHANICAL DATA

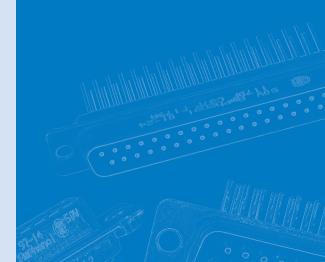
No. of Contacts	Mate (max.)	Unmate (min.)
9 (size E)	6.74 (3.05)	0.79 (0.36)
15 (size A)	11.24 (5.09)	1.01 (0.46)
25 (size B)	18.66 (8.44)	1.8 (0.81)
37 (size C)	27.65 (12.51)	2.47 (1.1)
50 (size D)	32.38 (14.65)	3.56 (1.6)



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

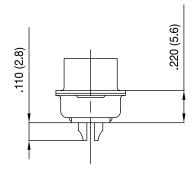
This series gives you Amphenol's high standards of quality and reliability to meet all of your commercial requirements.

- Industrial
- Telecom
- Any industry standard
 I / O connections

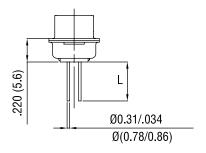


INCHES (MM)

Solder cup

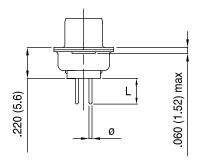


Wire Wrap



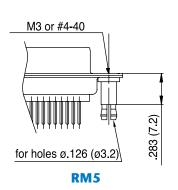
Termination	Nb of wraps	L
F179	2	.378 (9.6)
F179A	3	.512 (13)

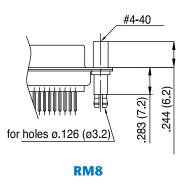
Straight PCB



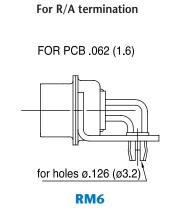
Termination	Ø	L
U	.024 (0.6)	.126 (3.2)
V	.040 (1.02)	.095 (2.4)
T	.024 (0.6)	.157 (4)
OL2	.02 (0.6)	.217 (5.5)

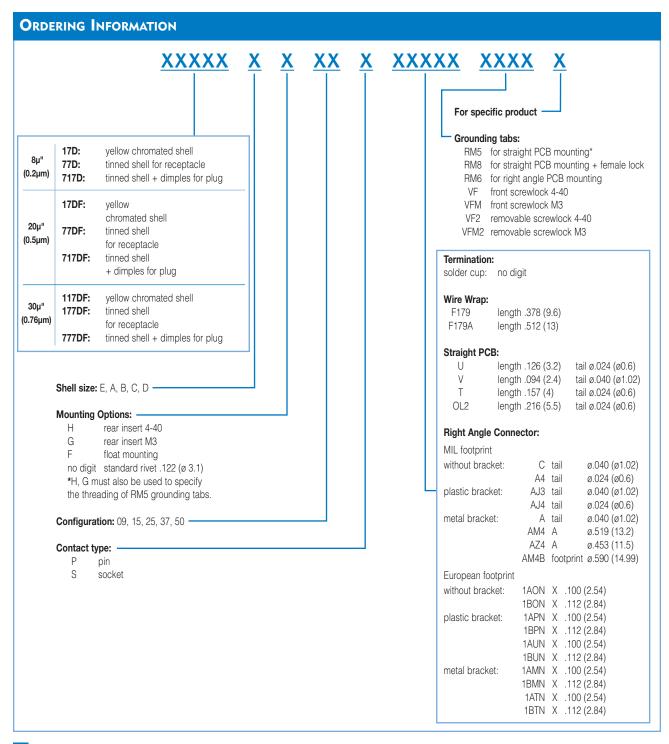
Grounding tabs





For straight termination





: Standard options

For special request, please consult factory

For Filtered D-Sub, see page 56.

