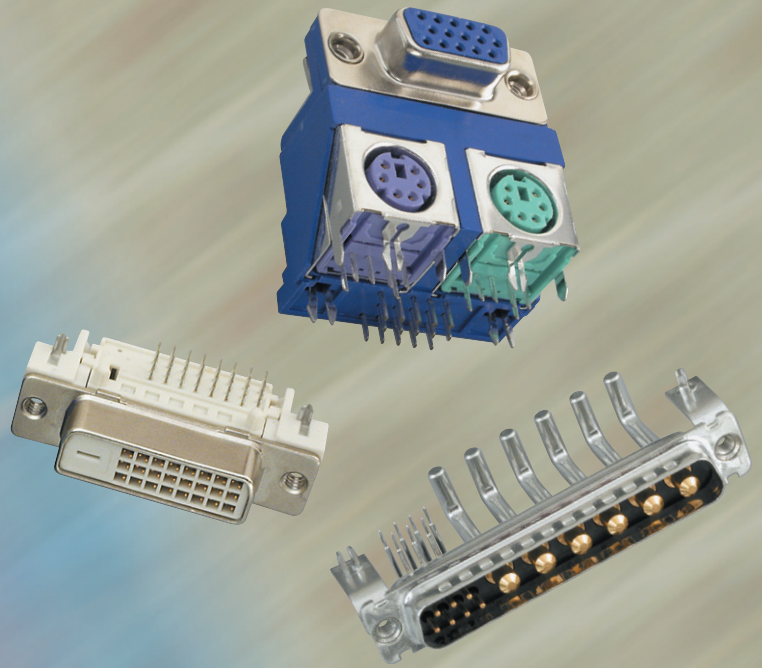


D-SUBMINIATURE CONNECTORS



Amphenol[®]

ACCESSORIES

STANDARD DENSITY

SURFACE MOUNT RECEPTACLES

HIGH DENSITY

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

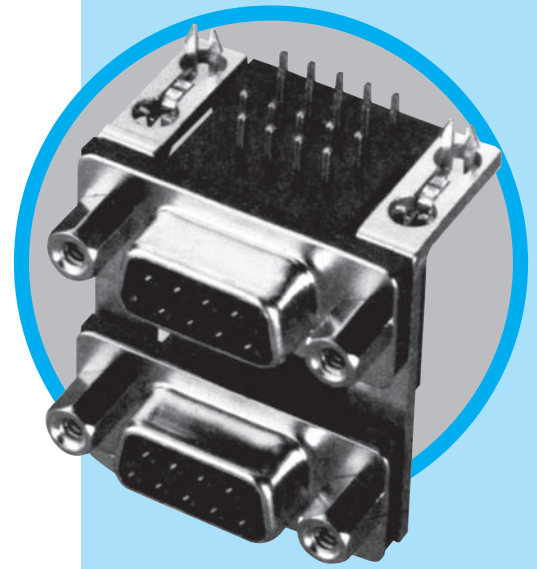
AMPHENOL D-SUB FEATURES:

- 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.

17H

D-Sub connectors - Stamped and Formed Contacts

DUAL PORT D-SUB CONNECTORS



MAIN CHARACTERISTICS

Specifications

- Connectors according to MIL C24308

Materials and platings	
Shells	Steel, tin plated
Insulator	Glass-filled thermoplastic, UL 94V-0
Pin contacts	Brass, selected gold in mating area; 2.54µm (100µ") min. tin on termination area over 1.27µm (50µ") min. nickel
Socket contact	Phosphor bronze, selected gold in mating area; 2.54µm (100µ") min. tin on termination area over 1.27µm (50µ") min. nickel
Rear insert	Brass, 2.54µm (100µ") min. nickel plated
Boardlock	Phosphor bronze, 2.54µm (100µ") min. tin plated
Screwlock	Brass, 2.54µm (100µ") min. nickel plated

Electrical Data	
Current rating	3A
Voltage rating	250V AC/rms 60Hz
Withstanding voltage	1000V AC/rms 60Hz for one minute
Insulation resistance	1000MΩ
Contact resistance	20mΩ max

Climatic Data	
Operating temperature	-55°C to +125°C
Salt spray	24 hours

Mechanical Data		
Single contact insertion force	0.54kg (1.19lb) max	
Single contact withdrawal force	0.06kg (0.13lb) min	
Mating and unmating force	Unit: kg (lb)	
No. of Cts	Mate (max)	Unmate (min)
9	3.05 (6.74)	0.36 (0.79)
15	5.09 (11.24)	0.46 (1.01)
25	8.44 (18.66)	0.81 (1.8)
15 (Hi-den)	3.81 (8.42)	0.52 (1.14)
Standard plating thicknesses		
	<ul style="list-style-type: none"> • gold flash • 0.4µm (15µ") gold • 0.76 µm (30µ") gold 	

DESCRIPTION

Amphenol's G17H dual port connectors are a state of the art design. The front metal shell helps reduce EMI / RFI emissions.

Designed to save PC board space, Amphenol's dual port provides two I / O connectors in a minimal amount of board space.

*Economical
dual port
connectors*

APPLICATIONS

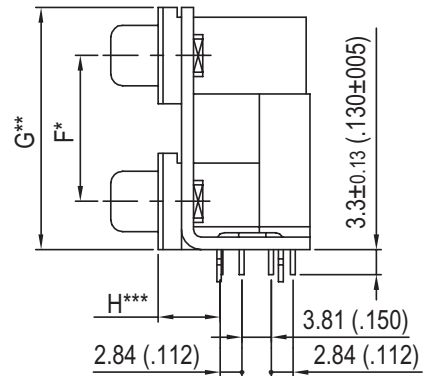
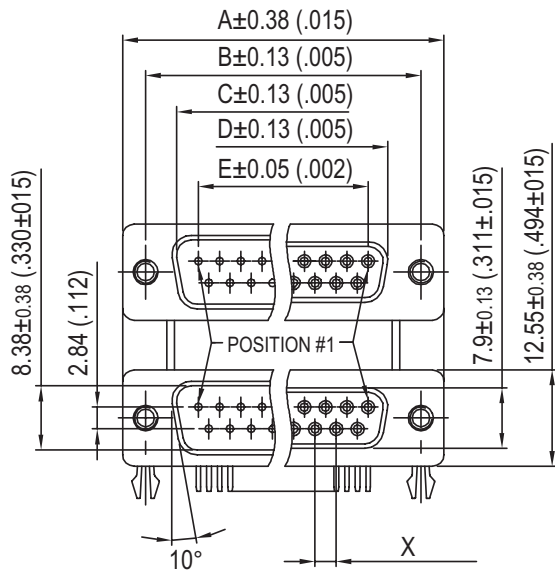
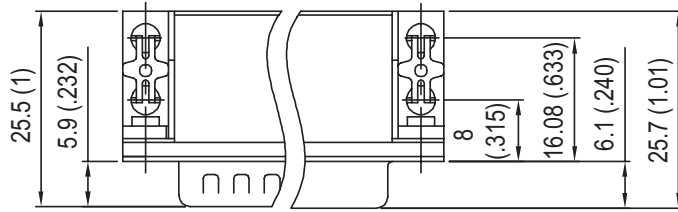
- Industrial
- Telecom
- Any industry standard I / O connections

17H / E13



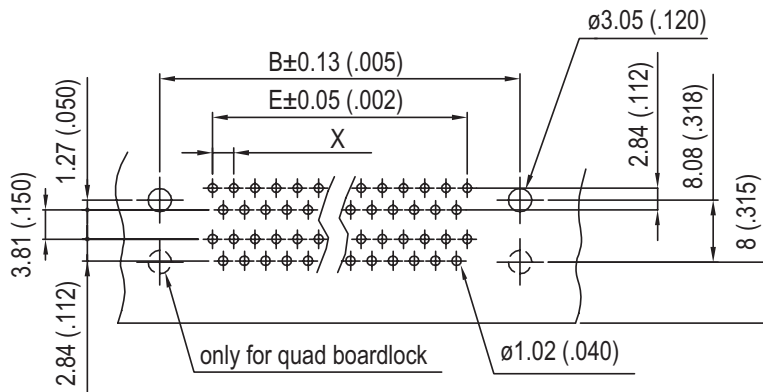
Amphenol

Shell size dimensions- standard and high density



* spacing between ports (see "how to order" for dimensions)
 ** profile distance (see "how to order" for dimensions)
 *** Footprint options (see "how to order" for dimensions)
 H*** Standard Density (SD)
 High Density (HD)
 SD / SD = 8.08mm (.318")
 SD / HD = 5.08mm (.200")
 = 8.89mm (.350")
 HD / HD = 8.89mm (.350")
 = 5.08mm (.200")

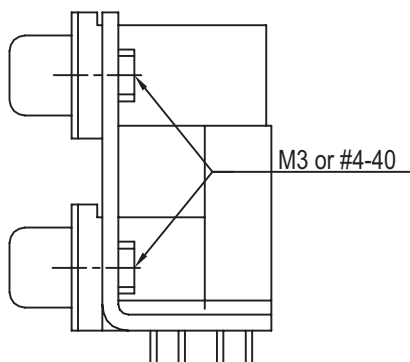
Recommended P.C.B. Layout



Shell Size	Nb OF CONTACTS	DIMENSIONS mm (inch)				
		A	B	C PLUG	D SOCKET	E
E	9/HD 15	30.84 (1.21)	24.99 (.984)	16.92 (.666)	16.24 (.639)	11.09 (.437)
A	15/HD 26	39.24 (1.54)	33.32 (1.31)	24.7 (.972)	24.56 (.967)	19.39 (.763)
B	25	53.04 (2.09)	47.04 (1.85)	38.96 (1.53)	38.38 (1.51)	33.24 (1.31)
E	15 (Hi-den)	30.84 (1.21)	24.99 (.984)	16.92 (.666)	16.24 (.639)	10.31 (.406)
C	37	69.32 (2.73)	63.50 (2.50)	55.42 (2.18)	54.76 (2.16)	49.86 (1.96)

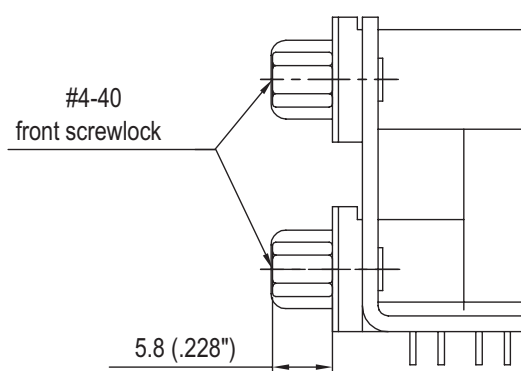
Panel mounting option

Flange mounting options:



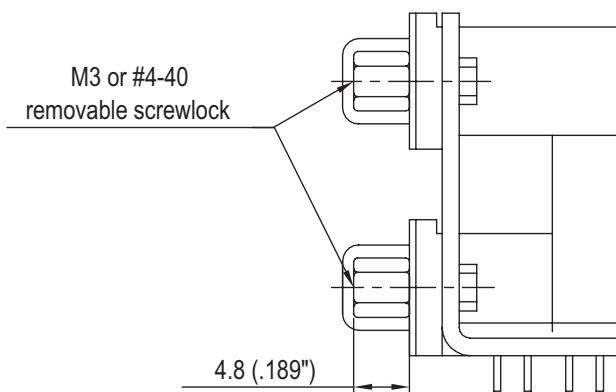
Threaded rear insert

0 / 4



Fixed front female screwlock

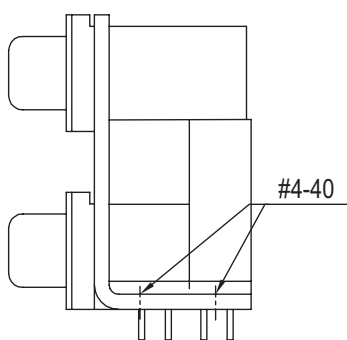
7



Removable female screwlock

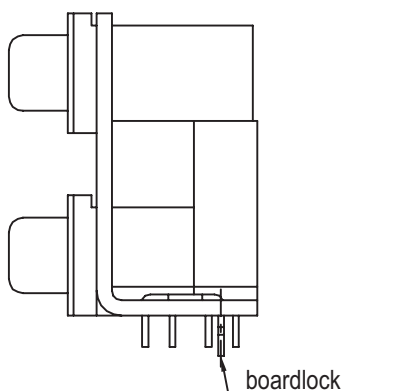
1 / 5

Board mounting options:



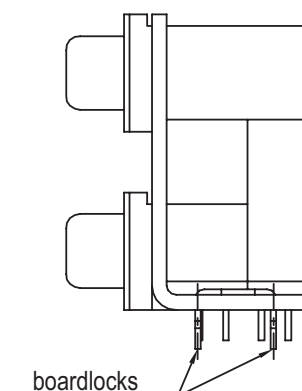
Threaded hole

1



Dual arrowhead boardlock

2



Quad arrowhead boardlock

3

Dual Port Connectors

L17H X X X X X X X X

Spacing Between Ports	
1 - F	= 15.88mm (.625")
G	= 28.42mm (1.12")
2 - F	= 19.05mm (.750")
G	= 31.60mm (1.24")
3 - F	= 22.86mm (.900")
G	= 35.41mm (1.39")
4 - SCSI	
G	= 12.80mm (.504")
7 - F	= 20.70mm (.815")
G	= 32.20mm (1.26")

Top Connector	
1	= 9 Pos. Male
2	= 9 Pos. Female
3	= 15 Pos. Male
4	= 15 Pos. Female
5	= 25 Pos. Male
6	= 25 Pos. Female
7	= 15 Pos. High Density Female
8	= 50 Pos. Female SCSI
9	= 26 Pos. High Density Female
J	= 15 Pos. High Density Male
D	= 37 Pos. Male
E	= 37 Pos. Female
F	= 44 Pos. High Density Male
G	= 44 Pos. High Density Female
M	= 62 Pos. High Density Male
N	= 62 Pos. High Density Female
P	= 78 Pos. High Density Male
Q	= 78 Pos. High Density Female

Bottom Connector	
1	= 9 Pos. Male
2	= 9 Pos. Female
3	= 15 Pos. Male
4	= 15 Pos. Female
5	= 25 Pos. Male
6	= 25 Pos. Female
7	= 15 Pos. High Density Female
8	= 50 Pos. Female SCSI
9	= 26 Pos. High Density Female
K	= 15 Pos. High Density Male
D	= 37 Pos. Male
E	= 37 Pos. Female
F	= 44 Pos. High Density Male
G	= 44 Pos. High Density Female
M	= 62 Pos. High Density Male
N	= 62 Pos. High Density Female
P	= 78 Pos. High Density Male
Q	= 78 Pos. High Density Female
R	= 9 Pos. Male + 9 Pos. Male
S	= 9 Pos. Female + 9 Pos. Female

Footprint Options	
SD / SD	
BLANK	= 8.08mm (.318")
SD / HD	
BLANK	= 5.08mm (.200")
889	= 8.89mm (.350")
HD / HD	
BLANK	= 8.89mm (.350")
508	= 5.08mm (.200")

Flange Mounting Options	
0	= 4-40unc Rear Insert
1	= 4-40unc Removable Screwlock
3	= 3.05mm (.120") Clear Hole
4	= M3 Rear Insert
5	= M3 Removable Screwlock
7	= 4-40unc Fixed Front Screwlock

Board Mounting Options	
1	= 4 * Threaded 4-40unc Inserts
2	= Dual Arrowhead Boardlocks
3	= Quad Arrowhead Boardlocks
4	= 3.18mm (.125") Clear Hole

Shell Plating	
1	= Bright Tin / Nickel
2	= Nickel

Contact Plating	
0	= Flash Gold
1	= 0.4µm (15µ") Gold
2	= 0.76µm (30µ") Gold
3	= Full Flash Gold
4	= 1.27µm (50µ") Gold

For special request, please consult factory

Do not hesitate to contact us for further information

Amphenol

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