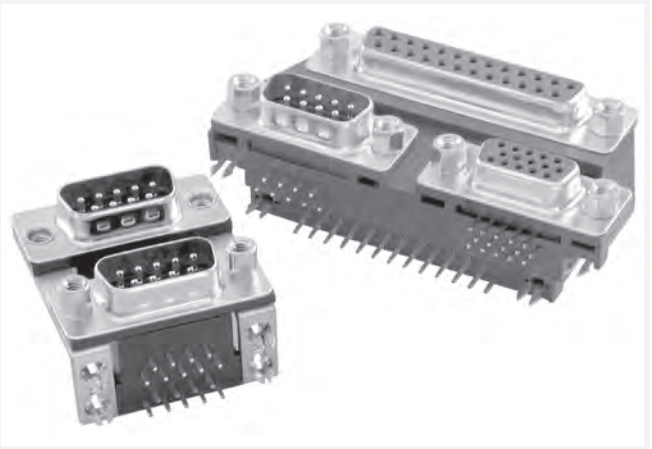
D–Sub 17H Series Dual Port Connectors

D–SUB 17H SERIES CONNECTORS RIGHT ANGLE STANDARD AND HIGH DENSITY

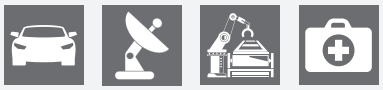
Amphenol's 17H dual port connectors are a state of the art design. The front metal shell helps reduce EMI / RFI emissions.

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

- Mating interface according to MIL C24308
- This series offers economical options to save space for board connectors in the Amphenol line
- Dual port or multi–port available for right angle PCB terminations
- Widely used in industrial standard I/O ,security Robotics and telecom field
- Meets RoHS and 24 hours salty spray



TARGET MARKETS



FEATURES

- Standard Density:9, 15, 25,37 and 50 pin
- High Density:15,26,44,62 pin
- Stamp formed copper alloy contacts with 30mil gold plated
- Inserts can be made of flame–retardant high temperature thermoplastic
- R/A PCB Termination option
- Dual or multi–port available
- 24 hours Salty Spray Test and RoHS compliant

BENEFITS

- Current rating of 3A max.
- Support mating cycles up to 500cycles
- UL certified
- Economic option to save space on board side
- Widely used in industrial standard I/O ,Security Robotics and telecom field
- Meet environmental, health and safety requirement

TECHNICAL INFORMATION

MATERIAL

- Shells: Steel tinned, Nickel plated 1.25µm(50µin) min.,
  Insulator: Glass-filled thermoplastic, UL94V-0
- Rear Insert: Copper Alloy, 2.54µm (100µin) min. Nickel plated
- Pin Contacts: Copper Alloy, selected Gold in mating area; 2.54µm (100µin) min. Tin on termination area over 1.27µm (50µin) min. Nickel
- Socket Contact: Copper Alloy, selected Gold in mating area; 2.54µm (100µin) min. tin on termination area over 1.27µm (50µin) min. Nickel
- Gold over 1.25µm (50µin) min. nickel
- Boardlock: Copper Alloy, 100µin min. sn over 50µin min. Nickel
- Screwlock: Copper Alloy, 100µin min. sn over 50µin min. Nickel

MECHANICAL PERFORMANCE

- 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)

- Mating cycles:500 cycles
- Operating Temperature: -55°C to +125°C
- Salt Spray: 24 hours

ELECTRICAL PERFORMANCE

- Current Rating: 3.0A
- Voltage Rating: 250V rms at 60Hz
- Insulation Resistance: >1000MΩ
- Contact Resistance: 20mΩ max.

ENVIRONMENTAL

- Temperature Life: Per EIA-364-17
- Thermal Shock: Per EIA-364-32
- Humidity: Per EIA-364-31
- Vibration: Per EIA-364-28
- Solderability: Per EIA-364-52

PACKAGING

- Tray and Reel

APPROVALS AND CERTIFICATIONS

- RoHS complied

TARGET MARKETS/APPLICATIONS


Automotive Infotainment


Telecom

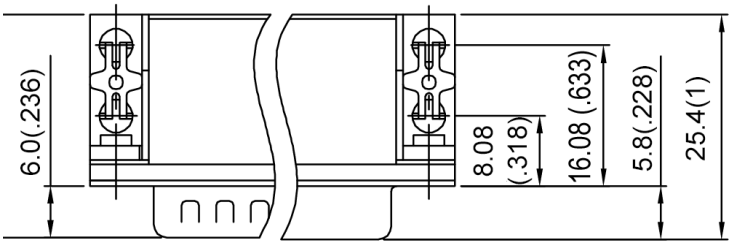

Server & Storage

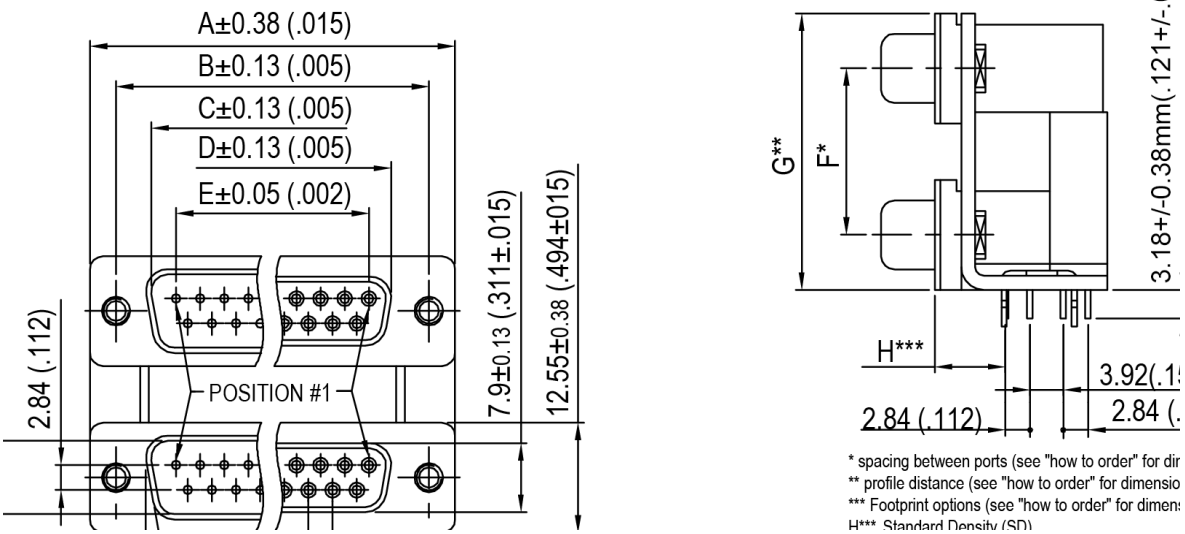

Industrial & Instrumentation

Disclaimer
Please note that the above information is subject to change without notice.

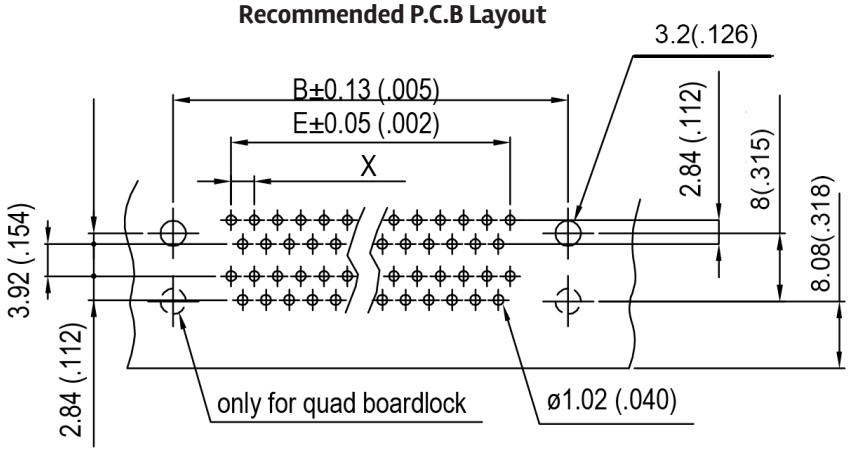
OVERALL DIMENSION

Shell size dimensions – standard and high density





Recommended P.C.B Layout



Shell Size	No. 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)

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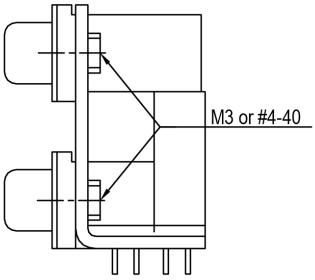
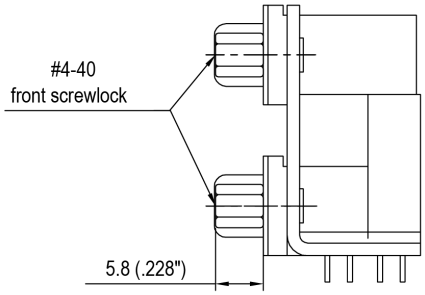
TECHNICAL DATA

Panel mounting option

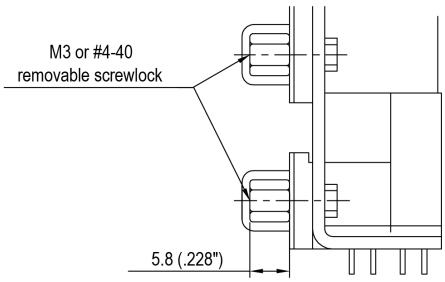
Flange mounting options:



Threaded rear insert
0/4

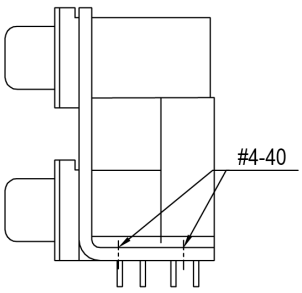


Fixed front female screwlock
7

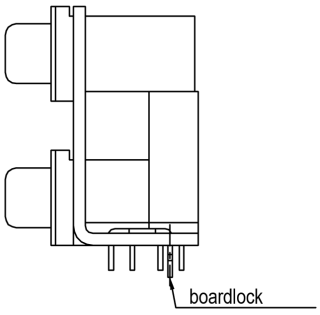


Removable female screwlock
1/5

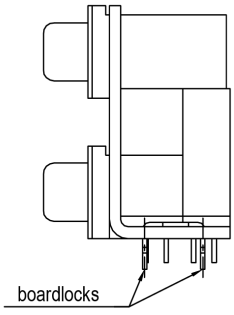
Board mounting options:



Threaded hole
1



Dual arrowhead boardlock
2



Quad arrowhead boardlock
3

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PART NUMBER SELECTOR

L17H	X	X	X	X	X	X	X	XXXX

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

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

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
R	9 Pos. Male + 9 Pos. Male
S	9 Pos. Female + 9 Pos. Female

Footprint Options		
SD/SD	Blank	8.08mm (.318in)
SD/HD	Blank	5.08mm (.200in)
	889	8.89mm (.350in)
HD/HD	Blank	8.89mm (.350in)
	508	5.08mm (.200in)

Flange Mounting Options	
0	4–40unc Rear Insert
1	4–40unc Removable Screwlock
3	3.05mm (.120in) 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 (.125in) Clear Hole

Shell Plating	
1	Bright Tin / Nickel
2	Nickel

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

CMIODSUB17H1122EA4

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