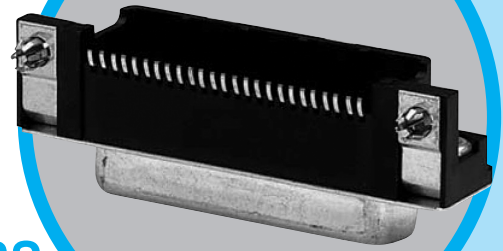


SM2

D-Sub connectors - Stamped and Formed Contacts

SURFACE MOUNT CONNECTORS



CHARACTERISTICS

Specifications

- Connectors according to MIL C24308 - NFC 93425-HE5

Materials and Platings	
Shells	Steel with tin plating
Insulator	High temperature (peak at 260°C) glass-filled thermoplastic, UL 94V-0
Socket contact	Stamped and formed brass, selected gold in mating area; 2.54µm (100µ") min. tin on termination area, with entire contact under-plated 1.27µm (50µ") min. nickel
Rear insert	Brass, 3µm up to 5µm (118µ" up to 197µ") tinned over nickel 2µm up to 3 µm (78µ" up to 118µ")
Boardlock	Tin plating 4µm up to 6µm (157µ" up to 236µ") over nickel 2µm up to 3µm (78µ" up to 118µ"), insertion force: Low Insertion Force = LIF (bronze) Zero Insertion Force = ZeFo (bronze)
Screwlock	Brass, 6µm up to 10µm (236µ" up to 394µ") tinned over nickel 2µm up to 3µm (78µ" up to 118µ")
Grounding	Grounding strap: brass, 4µm up to 6µm tin plating over nickel 2µm up to 3µm (78µ" up to 118µ")

Electrical Data	
Current rating	3A
Voltage rating	300V AC/rms 50Hz
Withstanding voltage	1000V AC/rms 50Hz for one minute
Insulation resistance	5000MΩ
Contact resistance	10mΩ max

Climatic Data	
Operating temperature	85°C, peak at 105°C
Damp heat	56 days (40°C - 95% HR)

Mechanical Data	
Single contact insertion force	1.2N < F < 2.5N
Single contact withdrawal force	0.4N min
LIF boardlock	8N max per connector
Coplanarity of contacts	0.2mm (.008") max

Mating and unmating force
Unit: N

No. of Cts	Mate (max)	Unmate (min)
9 (size E)	30	3.5
15 (size A)	50	4.5
25 (size B)	83	8.0

DESCRIPTION

Amphenol SMT D-Sub is offered in right angle, receptacle with brackets, as an industry standard for I / O connections.

Boardlock features:

- LIF (Low Insertion Force) boardlock especially designed to be fully compatible with pick and place machine.
- ZeFo (Zero Force Insertion) boardlock has been designed so that once placed and expanded, secures a safe locking.

*Designed for
Pick and Place
SMT process*

APPLICATIONS

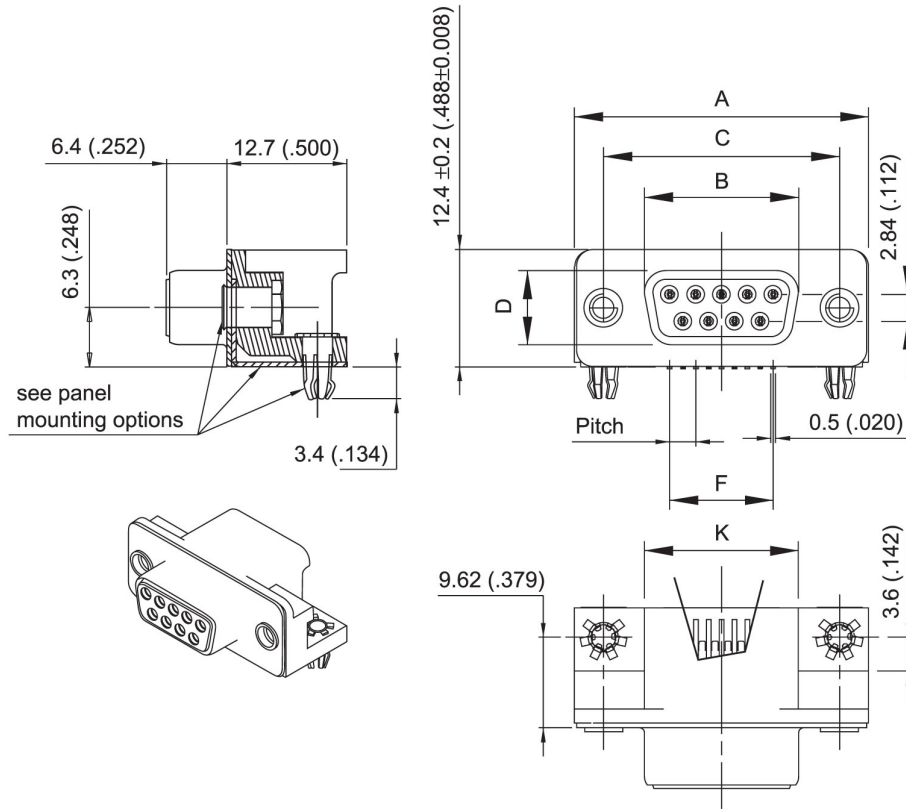
- Industrial
- Telecom
- Any industry standard I / O connections



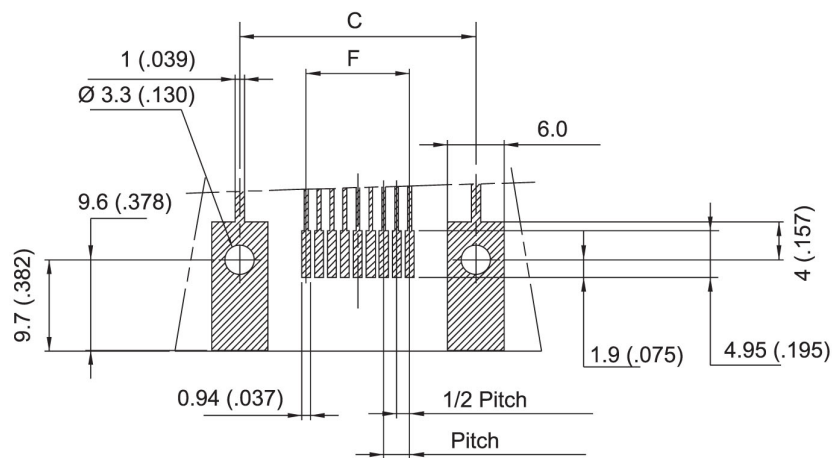
Amphenol

SM2 / E2

Shell Size Dimensions



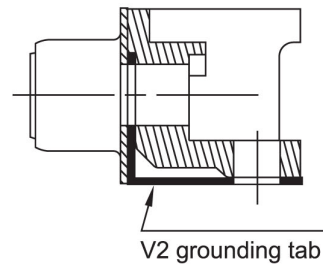
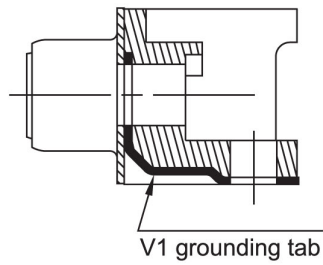
PCB LAYOUT



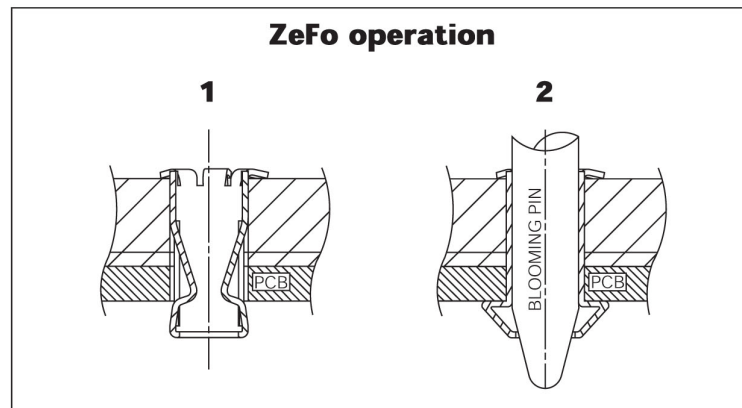
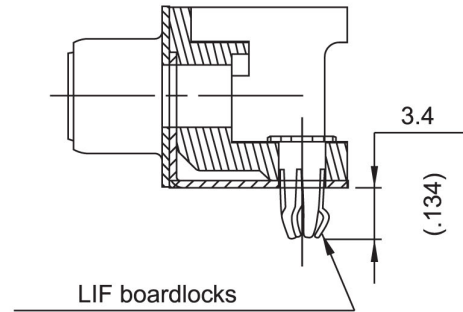
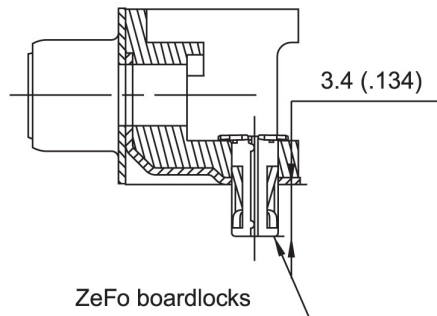
SHELL SIZE	mm (inch)						
	A	B	C	D	PITCH	F	K
	+0.05 (.002) -0.1 (.004)	0 -0.2 (.008)	±0.1 (.004)	0 -0.25 (.01)			
E	31.15 (1.226)	16.4 (.645)	25 (.984)	8.03 (.316)	2.74 (.1078)	10.97 (.432)	16.3 (.642)
A	39.4 (1.551)	24.8 (.976)	33.3 (1.311)	8.03 (.316)	2.74 (.1078)	19.2 (.756)	24.6 (.968)
B	53.3 (2.098)	38.5 (1.515)	47 (1.850)	8.03 (.316)	2.76 (.1086)	33.12 (1.304)	38.3 (1.508)

Panel mounting option

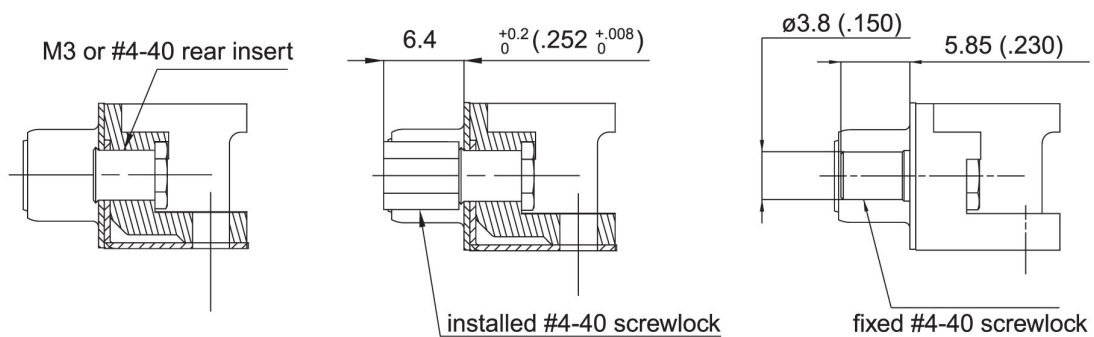
GROUNDING TABS:



BOARDLOCKS:



FLANGES ACCESSORIES:



Threaded Rear

Installed Front Female

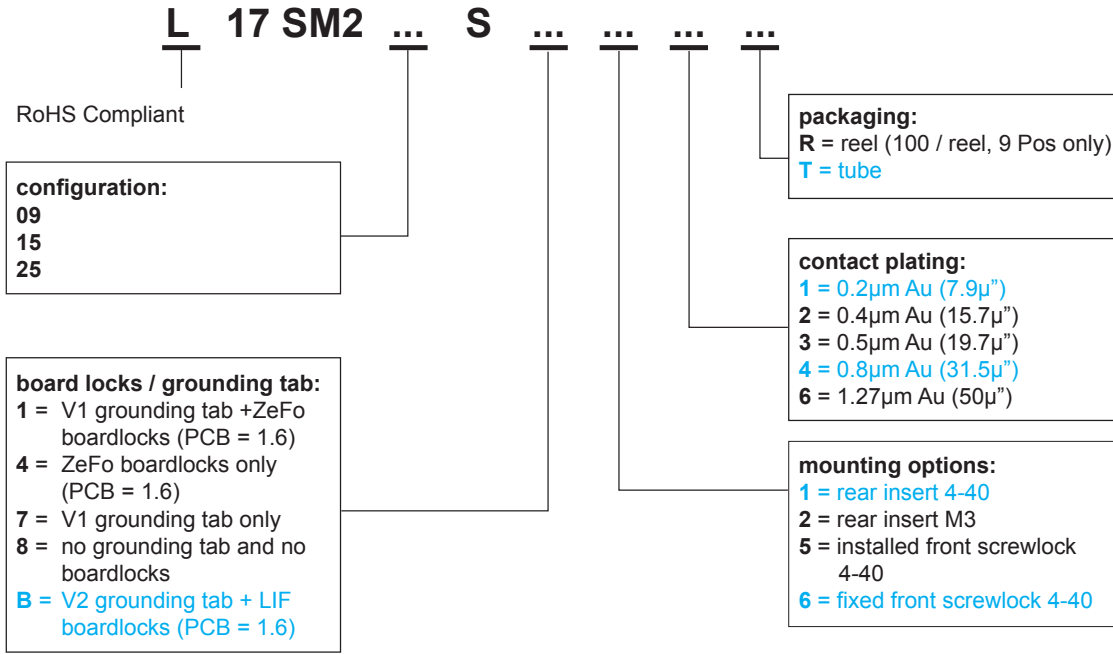
Fixed Front Female

1/2

5

6

How to order



■ : Standard options

For special request, please consult factory

Memo

Do not hesitate to contact us for further information

Amphenol

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