

SD

D'Sub connectors - Stamped and Formed Contacts

RIGHT ANGLE BOARD MOUNT CONNECTORS



MAIN CHARACTERISTICS

Specifications

- Connectors according to: MIL C24308 - NFC 93425-HE5

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

Electrical Data	
Current rating	5A
Voltage rating	250V AC/ rms 50Hz
Withstanding voltage	1000V AC/rms 50Hz for one minute
Insulation resistance	1000MΩ at 500V DC
Contact resistance	15mΩ max

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

Mechanical Data

Single contact insertion force0.54kg (1.19lb) max

Single contact withdrawal force0.06kg (0.13lb) min

Mating and unmating force

Unit: kg (lb)

	A4 Style		1A Style	
No. of Cts	Mate (max)	Unmate (min)	Mate (max)	Unmate (min)
9	3.05 (6.74)	0.36 (0.79)	4.6 (10.17)	0.4 (0.88)
15	5.09 (11.24)	0.46 (1.01)	7.7 (17.02)	0.5 (1.10)
25	8.44 (18.66)	0.81 (1.8)	12.7 (28.07)	0.8 (1.77)
37	12.51 (27.65)	1.1 (2.47)	17.7 (39.12)	1.2 (2.65)

Standard plating thickness

- gold flash
- 0.381µm (15µ") gold
- 0.76 µm (30µ") gold

DESCRIPTION

The Amphenol "SD" series features precision formed contacts and boardlocks.

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

*Economical
right angle PCB
mount
connectors*

APPLICATIONS

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



Amphenol

SD / E7

A4 style (MIL Footprint)



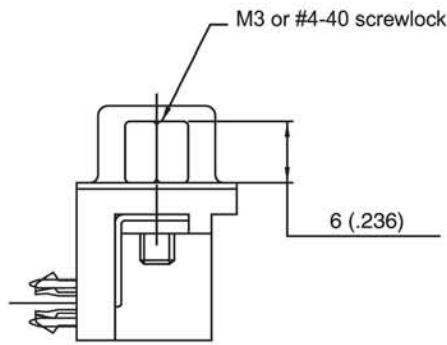
Nb OF CONTACTS	DIMENSIONS mm (inch)					
	A	B	C	D	E	F
9	30.84 (1.21)	24.99 (.98)	16.92 (.67)	16.24 (.64)	11.09 (.44)	2.74 (.108)
15	39.14 (1.54)	33.32 (1.31)	25.25 (.99)	24.56 (.97)	19.39 (.76)	2.74 (.108)
25	53.04 (2.09)	47.04 (1.85)	38.96 (1.53)	38.38 (1.51)	33.24 (1.31)	2.77 (.109)
37	69.32 (2.73)	63.50 (2.50)	55.42 (2.18)	54.76 (2.16)	49.86 (1.96)	2.77 (.109)

1A style (European Footprint)

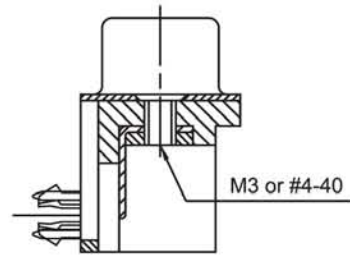


Nb OF CONTACTS	DIMENSIONS mm (inch)					
	A	B	C	D	E	F
9	30.84 (1.21)	24.99 (.98)	16.92 (.67)	16.24 (.64)	11.96 (.43)	2.74 (.108)
15	39.1 (1.54)	33.32 (1.31)	25.25 (.99)	24.66 (.97)	19.18 (.755)	2.74 (.108)
25	53.09 (2.09)	47.04 (1.85)	38.96 (1.53)	38.38 (1.51)	33.24 (1.31)	2.77 (.109)
37	69.4 (2.73)	63.50 (2.50)	55.42 (2.18)	54.84 (2.16)	49.86 (1.96)	2.77 (.109)

Panel mounting option



Front Female Screwlock
4F / 3F



Threaded Rear Insert
4R / 3R

How to order

L

RoHS Compliant

gold flash

77: tinned shell for receptable
717: tinned shell + dimples for plug

0.4µm (15µ")

177: tinned shell for receptable
777: tinned shell + dimples for plug

shell size: E, A, B, C

configuration: 9, 15, 25, 37

contact type:
P = pin
S = socket

SD

CH

C309

plating option:
valid only for 0.76µm (30µ")
part numbers to be written as follow:
or 77 SD.....C309
717 SD.....C309

mounting options:
4F = front screwlock 4-40
3F = front screwlock M3
4R = rear insert 4-40
3R = rear insert M3

PCB locking type:
grounding tabs + board locks

Footprint:
1A (European)
A4 (MIL)

For special request, please consult factory