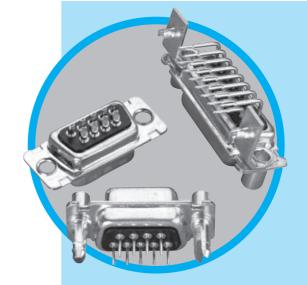
D-DF

D-Sub connectors - Screw-machined Contacts

FIXED MACHINED CONTACT CONNECTOR



SCRIPTION

Amphenol's D and DF series fixed contact D-Subminiature connectors are suitable for industrial or telecom use.

The machined contacts provide stability and reliability.

This series offers the broadest range of termination options in the Amphenol line.

Connectors for industrial and telecom use

Medical

Industrial

Telecom

Any industry standard
 I / O connections

Specifications

• Connectors according to MIL C24308 - NFC93425-HE5

	Materials and Plating
Shells	Steel tinned, with dimples on plug connector
Insulator	Glass-filled thermoplastic, UL 94V-0
Rear insert	Brass, tin plated 2µm (79µ") over 1.25µm (49µ") nickel
Boardlock	Phosphor bronze, tin plated 2µm (79µ") over 1.25µm (49µ") nickel
Screwlock	Brass, tin plated 2µm (79µ") over 1.25µm (49µ") nickel
Contacts	D: brass, plug and socket
	DF : plug = brass
	socket = phosphor bronze
	Right angle version: full gold plating over 2μm (79μ") nickel
	Straight version: full gold plating over 2μm (79μ") nickel

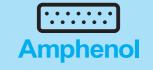
	Electrical Data
Current rating	7.5A
Voltage rating	300V AC/rms 50Hz
Withstanding voltage	1000V AC/rms 50Hz for one minute
Insulation resistance	5000ΜΩ
Contact resistance	D : 8.5mΩ max
	DF: 5mΩ max

	Climatic Data
Operating temperature	D / DF: -55°C to + 125°C
Salt spray	48 hours
Humidity	D: 21 days (40 C - 95% HR)
	DF : 56 days (40 C - 95% HR)

Machanical Data

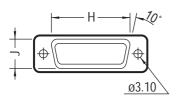
Mechanical Data						
Mating and unmating fo Unit: kg (lb)	rce					
No. of Cts	Mate (max)	Unmate (min)				
9 (size E)	3.05 (6.73)	0.36 (0.79)				
15 (size A)	5.09 (11.22)	0.46 (1.01)				
25 (size B)	8.44 (18.61)	0.81 (1.79)				
37 (size C)	12.51 (27.58)	1.1 (2.42)				
50 (size D)	14.65 (32.30)	1.6 (3.53)				

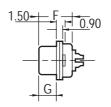


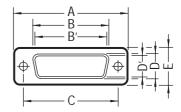


Ambuenol [∞]

Shell size dimensions



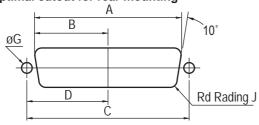


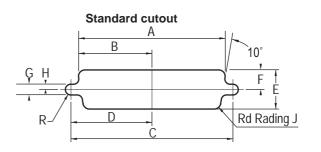


Shell size	Contact P: Pin S: Socket	A ±0.25 (±.010)	B 0/-0.20 (0/008)	B' +0.20/0 (+.008/0)	C ±0.10 (±.004)	D 0/-0.25 (0/010)	D' +0.25/0 (+.010/0)	£ ±0.20 (±.008)	F +0.05/-0.20 (+.002/008)	F' +0.10/-0.20 (+.004/008)	G +0.10/-0.20 (+.004/008)	G' ±0.10 (±.004)	+0.10/-0.40 (+.004/016)	J 0/-0.50 (0/020)
E	Р	30.7		16.8 (.661")	25.0		8.2 (.323")	12.4		10.9 (.429")		5.9 (.232")	19.4	11.0
	S	(1.209")	16.4 (.646")		(.984")	8.0 (.315")		(.488")	11.1 (.437)		6.2 (.244")		(.764")	(.433")
	Р	39.0		25.1 (.988")	33.3		8.2 (.323")	12.4		10.9 (.429")		5.9 (.232")	27.7	11.0
A	S	(1.535")	24.8 (.976")		(1.311")	8.0 (.315")		(.488")	11.1 (.437)		6.2 (.244")		(1.091")	(.433")
	Р	52.9		38.8 (1.528")	47.0		8.2 (.323")	12.4		11.0 (.433")		5.8 (.228")	41.4	11.0
В	S	(2.083")	38.5 (1.513")		(1.850")	8.0 (.315")		(.488")	11.1 (.437)		6.2 (.244")		(1.630")	(.433")
	Р	69.2		55.3 (2.177")	63.5		8.2 (.323")	12.4		11.0 (.433")		5.8 (.228")	57.9	11.0
С	S	(2.724")	54.9 (2.161")		(2.500")	8.0 (.315")		(.488")	11.1 (.437)		6.2 (.244")		(2.280")	(.433")
	Р	66.8		52.7 (2.075")	61.1		11.0 (.433")	15.2		11.0 (.433")		5.8 (.228")	55.5	13.8
D	S	(2.630")	52.5 (2.067")	,	(2.406")	10.9 (.429")	,	(.598")	11.1 (.437)	,	6.2 (.244")	Í	(2.185")	(.543")

Panel cutouts





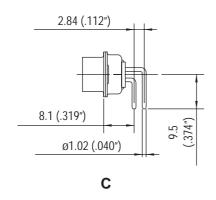


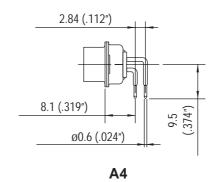
Shell size	Mounting method	A ±0.20 (±.008)	B ±0.20 (±.008)	C ±0.20 (±.008)	D ±0.20 (±.008)	E ±0.20 (±.008)	F ±0.20 (±.008)	G ±0.20 (±.008)	H ±0.20 (±.008)	±0.20 (±.008)
	Front	22.2 (.874")	11.1 (.437")	25.0	12.5	13.0 (.512")	6.5 (.256")	3.0	1.5	2.1 (.083")
E	Rear	20.5 (.807")	10.2 (.402")	(.984")	(.492")	11.4 (.449")	5.7 (.224")	(.118")	(.059")	3.4 (.0134")
	Front	30.5 (1.201")	15.3 (.602")	33.3	16.7	13.0 (.512")	6.5 (.256")	3.0	1.5	2.1 (.083")
A	Rear	28.8 (1.134")	14.4 (.567")	(1.311")	(.657")	11.4 (.449")	5.7 (.224")	(.118")	(.059")	3.4 (.0134")
	Front	44.3 (1.744")	22.1 (.870")	47.0	23.5	13.0 (.512")	6.5 (.256")	3.0	1.5	2.1 (.083")
В	Rear	42.5 (1.673")	21.3 (.839")	(1.850")	(.925")	11.4 (.449")	5.7 (.224")	(.118")	(.059")	3.4 (.0134")
	Front	60.7 (2.390")	30.4 (1.197")	63.5	31.7	13.0 (.512")	6.5 (.256")	3.0	1.5	2.1 (.083")
С	Rear	59.1 (2.327")	29.5 (1.161")	(2.500")	(1.248")	11.4 (.449")	5.7 (.224")	(.118")	(.059")	3.4 (.0134")
D	Front	58.3 (2.295")	29.2 (1.150")	61.1	30.6	15.8 (.622")	7.9 (.311")	3.0	1.5	2.1 (.083")
	Rear	56.3 (2.217")	28.2 (1.110")	(2.406")	(1.205")	14.1 (.555")	7.1 (.280")	(.118")	(.059")	3.4 (.0134")

Termination Right angle

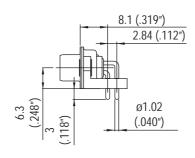
MIL Footprint

without bracket:





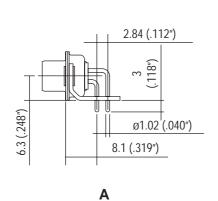
plastic bracket:

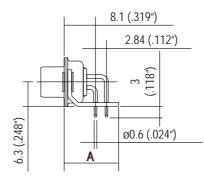


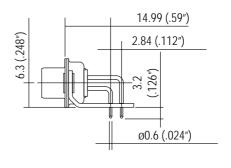
8.1 (.319") 2.84 (.112") 2.84 (.024")

AJ3 AJ4

metal bracket:







AM4B

AM4: A=13.2mm AZ4: A=11.5mm

8.1 (.319") 2.84 (.112")

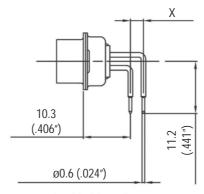
50 contacts:



Termination

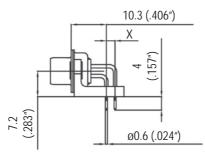
European footprint

without bracket:

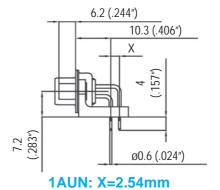


1AON: X=2.54mm 1BON: X=2.84mm

plastic bracket:

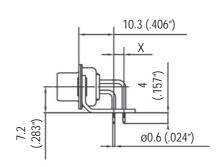


1APN: X=2.54mm 1BPN: X=2.84mm

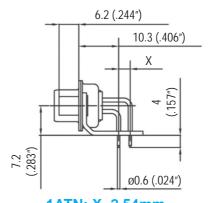


1BUN: X=2.84mm

metal bracket:

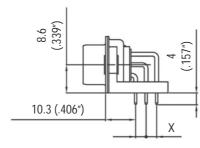


1AMN: X=2.54mm 1BMN: X=2.84mm



1ATN: X=2.54mm 1BTN: X=2.84mm

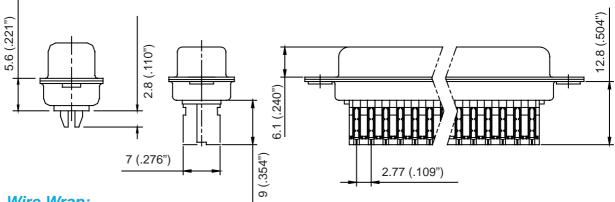




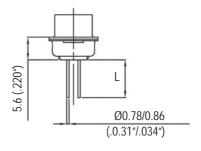
Termination

Solder Cup:

IDC (Discrete Wire):

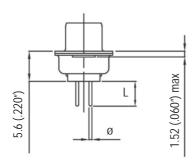


Wire Wrap:



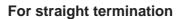
termination	Nb of wraps	L
F179	2	9.6 (.378")
F179A	3	13 (.512")

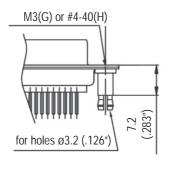
Straight PCB:

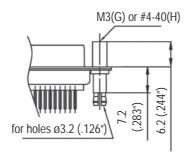


termination	Ø	L		
U	0.6 (.024")	3.2 (.126")		
V	1.02 (.040")	2.4 (.095")		
Т	0.6 (.024")	4 (.157")		
OL2	0.6 (.024")	5.5 (.217")		

Grounding tabs:







For R/A termination 1.6mm PCB for holes ø3.2 (.126")

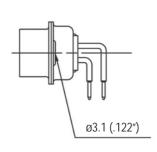
RM5

RM8

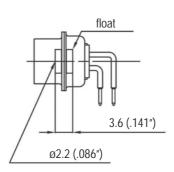
RM₆

Panel mounting option

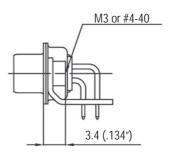
For straight and R/A termination



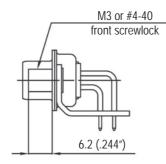
Standard rivet 3.1mm no digit



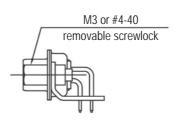
Float mounting



Threaded rear insert H/G

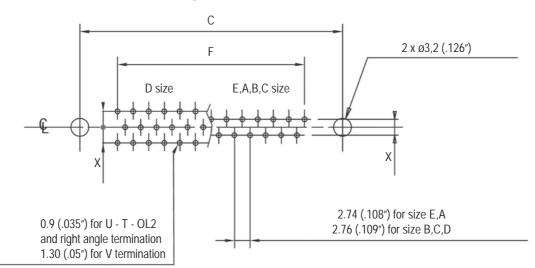


Fixed front female screwlock VF / VFM



Removable female screwlock **VF2 / VFM2**

Recommended PCB Layout

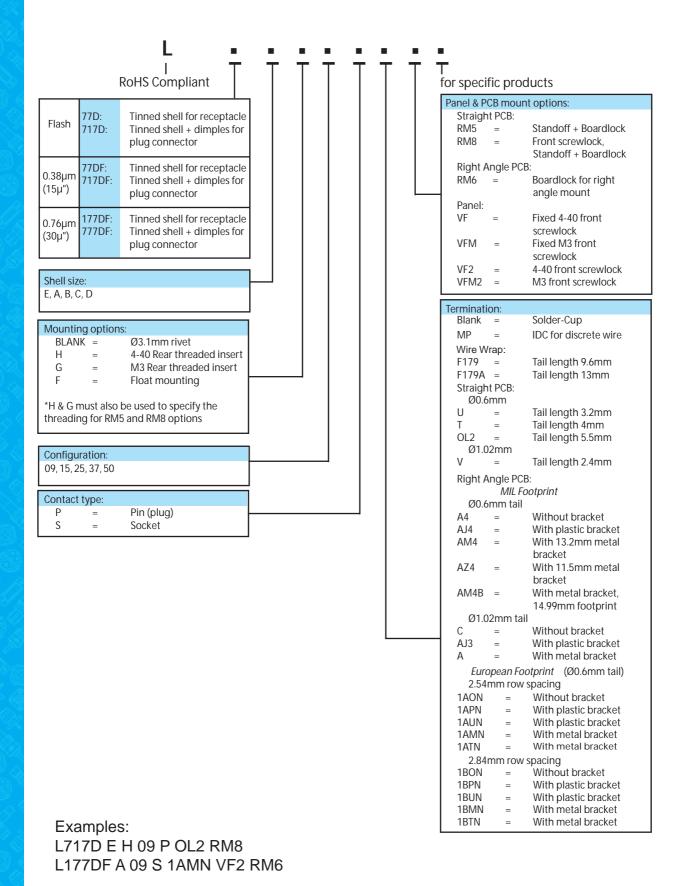


For straight PCB: X = 2.84mm (.112")

For right angle PCB: MIL: X = 2.84mm (.112") European: X = 2.54mm (.100"), 2.84mm in option

	size E	size A	size B	size C	size D
C±0,1 (.004)	25 (.984)	33.3 (1.311)	47 (1.85)	63.5 (2.5)	61.1 (2.406)
F±0,05 (.002)	10.96 (.431)	19.18 (.755)	33.12 (1.304)	49.68 (1.956)	44.2 (1.74)

How to order



Do not hesitate to contact us for further information

Amphenol

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