

Fixed Machined Contact Connector

- Standards:
- UL File: E119881
 - Connectors according to MIL C24308

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells	Steel yellow chromated over zinc or tinned steel with or without dimples on plug connector
Insulator	Glass-filled thermoplastic, UL 94V-0
Rear Insert	Brass, 118µ" up to 197µ" (3µm up to 5µm) tinned over nickel 78µ" up to 118µ" (2µm up to 3µm)
Boardlock	Tin-lead plating 157µ" up to 236µ" (4µm up to 6µm) over nickel
Screwlock	78µ" up to 118µ" (2µm up to 3µm) Brass, 236µ" up to 394µ" (6µm up to 10µm) tinned over nickel 78µ" up to 118µ" (2µm up to 3µm)
Contacts	D: brass DF: pin = brass Socket = copper alloy
Right Angle Version	Selective gold in mating area over 78µ" up to 118µ" (2µm up to 3µm) nickel; 118µ" up to 197µ" (3µm up to 5µm) tin-lead on termination area over 78µ" up to 118µ" (2µm up to 3µm) nickel
Straight Version	Full gold plating over 78µ" up to 118µ" (2µm up to 3µm) nickel

ELECTRICAL DATA

Current Rating	7.5 A
Voltage Rating	300 V AC/rms 50Hz
Withstanding Voltage	1000V AC/rms 50Hz for one minute
Insulation Resistance	5000MΩ
Contact Resistance	D: 8.5mΩ max. DF: 5mΩ max.

CLIMATIC DATA

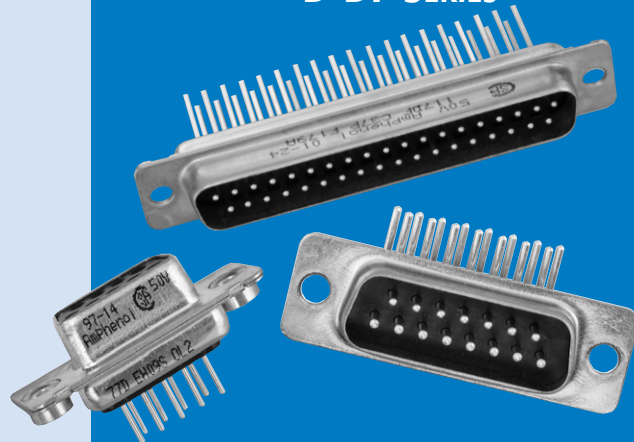
Operating Temperature	D: -67°F (-55°C) to +185°F (85°C), peak at 257°F (125°C) DF: -67°F (-55°C) to + 257°F (125°C)
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MECHANICAL DATA

No. of Contacts	Mate (max.)	Unmate (min.)
9 (size E)	6.74 (3.05)	0.79 (0.36)
15 (size A)	11.24 (5.09)	1.01 (0.46)
25 (size B)	18.66 (8.44)	1.8 (0.81)
37 (size C)	27.65 (12.51)	2.47 (1.1)
50 (size D)	32.38 (14.65)	3.56 (1.6)

INCHES (MM)

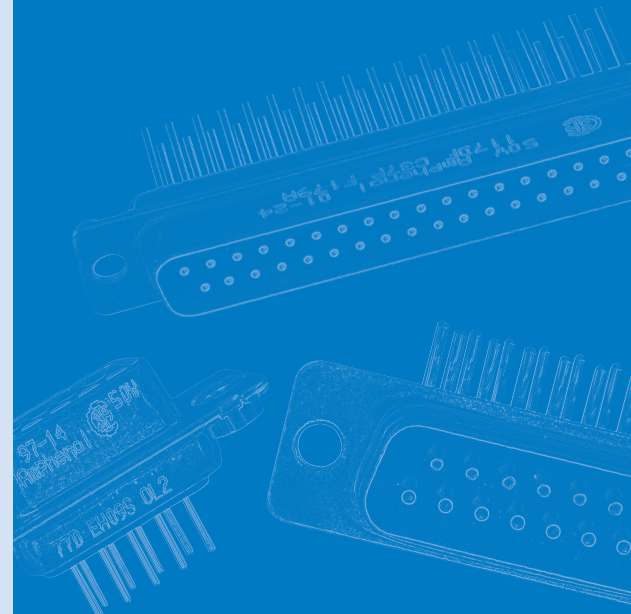
D-DF SERIES

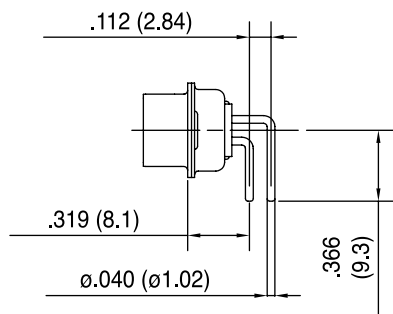
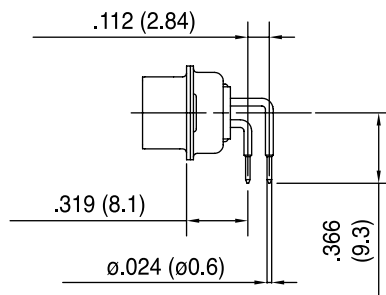
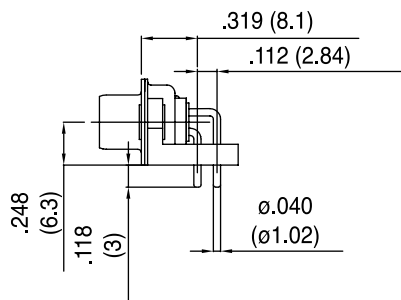
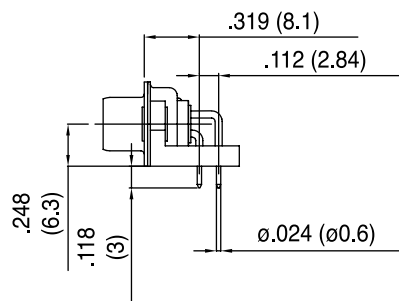
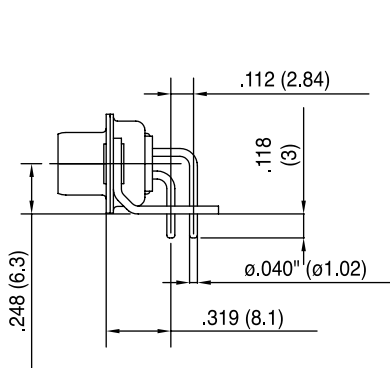
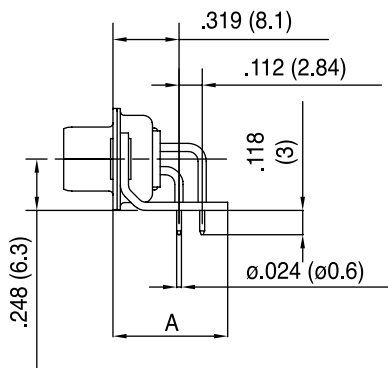


The Amphenol SD series features precision formed contacts, and 4 finger boardlocks.

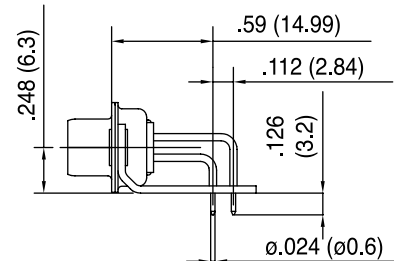
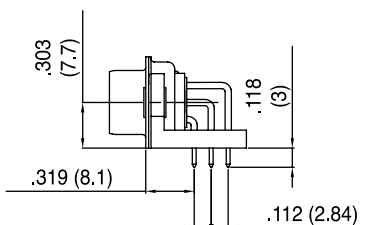
This series gives you Amphenol's high standards of quality and reliability to meet all of your commercial requirements.

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

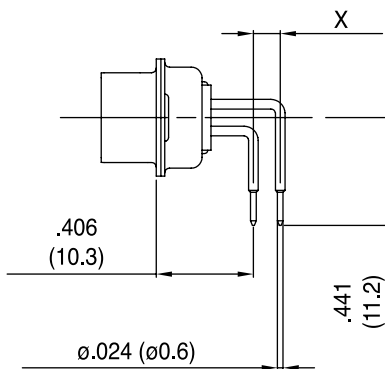


Without bracket**C****A4***Plastic bracket***AJ3****AJ4***Metal bracket***A**

AM4 : A=.519 (13.2)
AZ4 : A=.453 (11.5)

**AM4B***50 contacts*

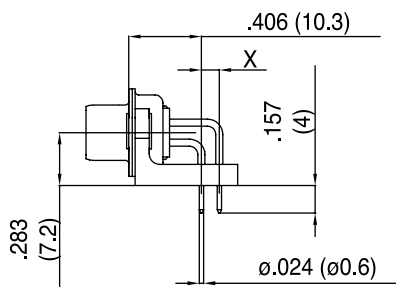
Without bracket



1AON : X= .100 (2.54)

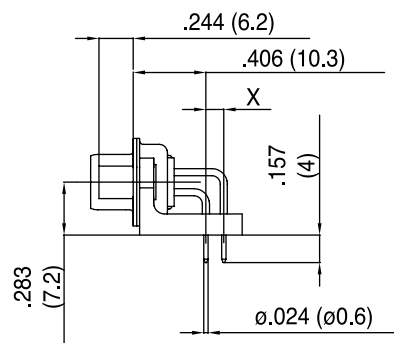
1BON : X= .112 (2.84)

Plastic bracket



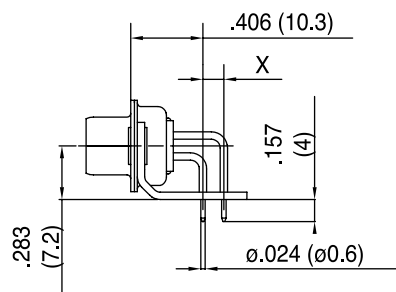
1APN : X= .100 (2.54)

1BPN : X= .112 (2.84)



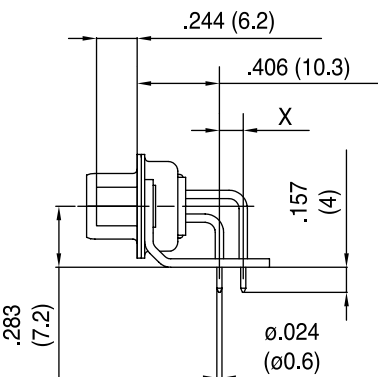
1AUN : X= .100 (2.54)

1BUN : X= .112 (2.84)



1AMN : X= .100 (2.54)

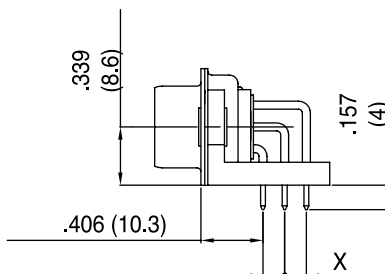
1BMN : X= .112 (2.84)



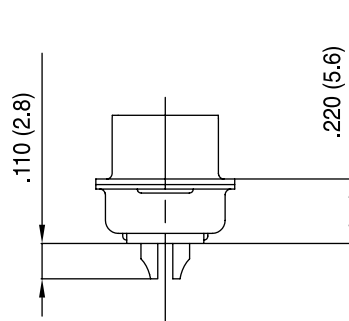
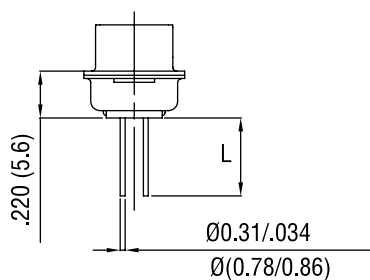
1ATN : X= .100 (2.54)

1BTN : X= .112 (2.84)

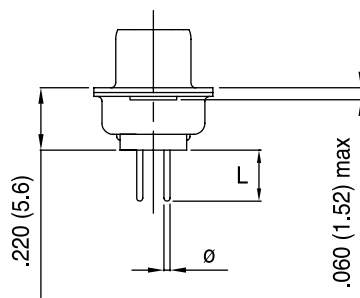
50 contacts



INCHES (MM)

Solder cup*Wire Wrap*

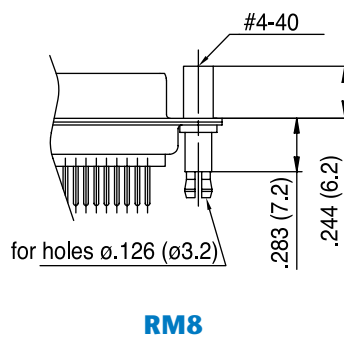
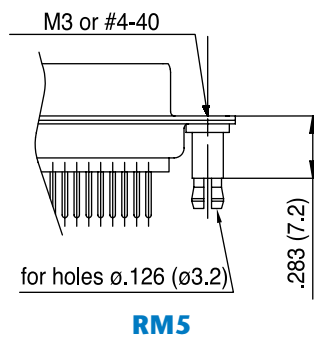
Termination	Nb of wraps	L
F179	2	.378 (9.6)
F179A	3	.512 (13)

Straight PCB

Termination	Ø	L
U	.024 (0.6)	.126 (3.2)
V	.040 (1.02)	.095 (2.4)
T	.024 (0.6)	.157 (4)
OL2	.02 (0.6)	.217 (5.5)

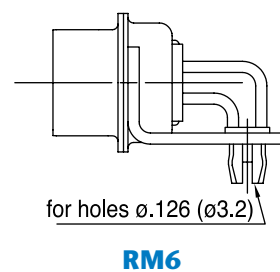
Grounding tabs

For straight termination

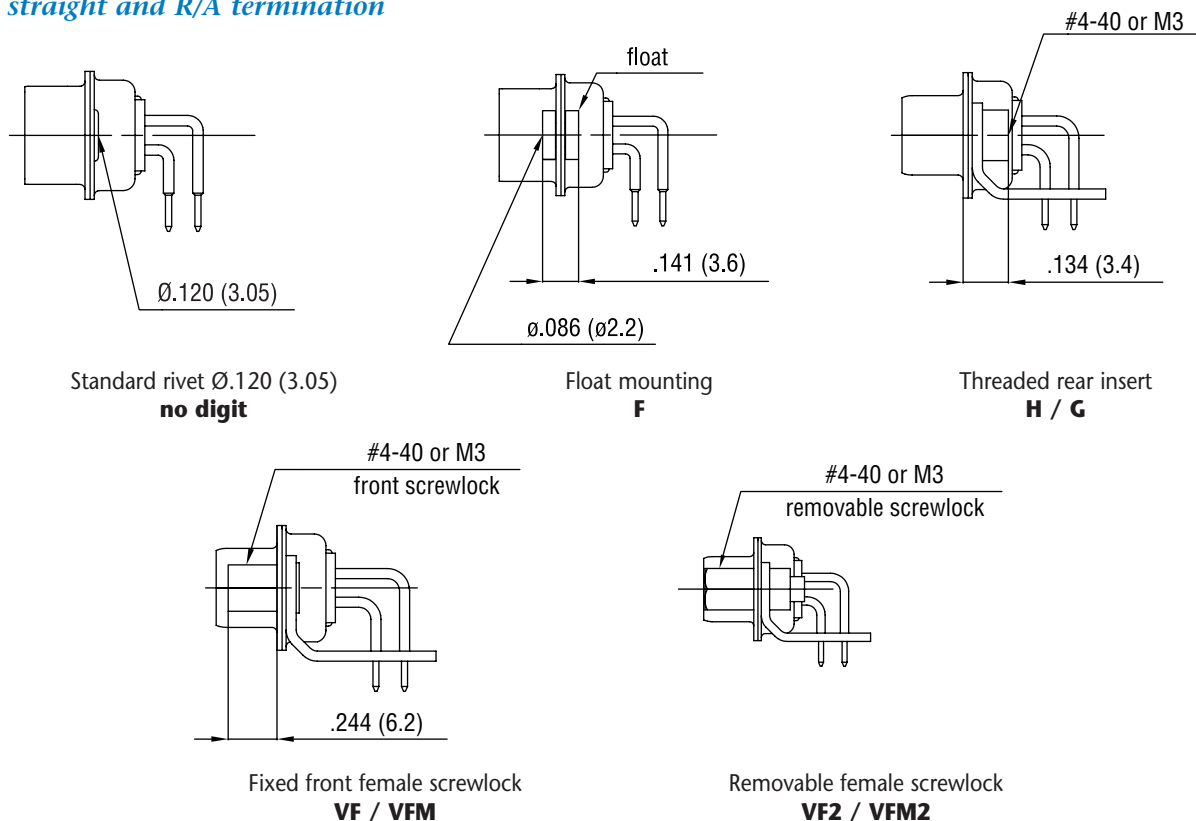


For R/A termination

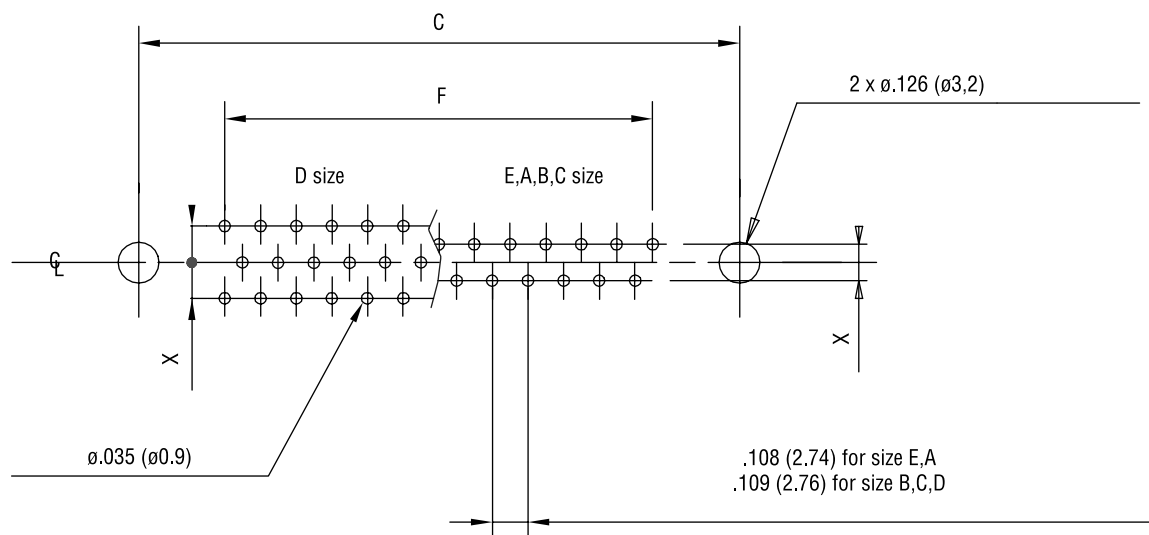
FOR PCB .062 (1.6)



For straight and R/A termination



RECOMMENDED PCB LAYOUT



For straight PCB: X = .112 (2.84)

For right angle PCB: MIL: X = .112 (2.84)

European: X = .100 (2.54), .112 (2.84) in option

	size E	size A	size B	size C	size D
C ± .004 (0.1)	.984 (25)	1.311 (33.3)	1.85 (47)	2.5 (63.5)	2.406 (61.1)
F ± .002 (0.05)	.431 (10.96)	.755 (19.18)	1.304 (33.12)	1.956 (49.68)	1.74 (44.2)

INCHES (MM)

ORDERING INFORMATION

XXXXXX X X XX X XXXXXX XXXX X

8μ" (0.2μm)	17D: yellow chromated shell 77D: tinned shell for receptacle 717D: tinned shell + dimples for plug
20μ" (0.5μm)	17DF: yellow chromated shell 77DF: tinned shell for receptacle 717DF: tinned shell + dimples for plug
30μ" (0.76μm)	117DF: yellow chromated shell 177DF: tinned shell for receptacle 777DF: tinned shell + dimples for plug

Shell size: E, A, B, C, D

Mounting Options:

H rear insert 4-40
G rear insert M3
F float mounting
no digit standard rivet .122 (ø 3.1)
*H, G must also be used to specify the threading of RM5 grounding tabs.

Configuration: 09, 15, 25, 37, 50

Contact type:

P pin
S socket

For specific product

Grounding tabs:

RM5 for straight PCB mounting*
RM8 for straight PCB mounting + female lock
RM6 for right angle PCB mounting
VF front screwlock 4-40
VFM front screwlock M3
VF2 removable screwlock 4-40
VFM2 removable screwlock M3

Termination:

solder cup: no digit

Wire Wrap:

F179 length .378 (9.6)
F179A length .512 (13)

Straight PCB:

U length .126 (3.2) tail ø.024 (ø0.6)
V length .094 (2.4) tail ø.040 (ø1.02)
T length .157 (4) tail ø.024 (ø0.6)
OL2 length .216 (5.5) tail ø.024 (ø0.6)

Right Angle Connector:

MIL footprint

without bracket: C tail ø.040 (ø1.02)
A4 tail ø.024 (ø0.6)
plastic bracket: AJ3 tail ø.040 (ø1.02)
AJ4 tail ø.024 (ø0.6)
metal bracket: A tail ø.040 (ø1.02)
AM4 A ø.519 (13.2)
AZ4 A ø.453 (11.5)
AM4B footprint ø.590 (14.99)

European footprint

without bracket: 1AON X .100 (2.54)
1BON X .112 (2.84)
plastic bracket: 1APN X .100 (2.54)
1BPN X .112 (2.84)
1AUN X .100 (2.54)
1BUN X .112 (2.84)
metal bracket: 1AMN X .100 (2.54)
1BMN X .112 (2.84)
1ATN X .100 (2.54)
1BTN X .112 (2.84)

: Standard options

For special request, please consult factory

For Filtered D-Sub, see page 56.

Mouser Electronics

Authorized Distributor

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Amphenol:

[17DE09SA](#) [17DM53743-3](#) [L717DE09PTR063](#) [L177DFD50SOL2](#) [L77-DA15S](#) [17-DB25P](#) [17-DB25S](#) [L77-DE09S-U](#)
[L717DD50P](#) [17-DE09S](#) [17DTZK37K](#) [777DFAH15PAM4](#) [717DA15P](#) [17-DC37P-U](#) [17-DD50P-U](#) [717DB25P](#) [17-](#)
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[17-DD50S-F179A](#) [17DM53744-1](#) [17-DD50S-U](#) [17-DD50S](#) [17-DD50P](#) [17DEK63009](#) [17-DE09P-U](#) [17D-A15PC](#)
[L717DD50PC](#) [L77DDH50SU](#) [L777DFAH15PAM4](#) [L177DFE09SV](#) [L177DFEH09SOL2RM5](#) [L177DFEH09SAM4](#)
[17DPPK25JS](#) [L177DB25S](#) [L177DC37S](#) [L177DCF37S](#) [L177DD50S](#) [L177DE09S](#) [L177DFA15S](#) [L177DFA15SAM4B](#)
[L177DFAH15S](#) [L177DFAH15SU](#) [L177DFB25S](#) [L177DFB25SAJ4](#) [L177DFB25SAM4B](#) [L177DFB25SAM4BVF2](#)
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[L177DFC37S](#) [L177DFC37SAJ4](#) [L177DFC37SC](#) [L177DFC37SF179A](#) [L177DFC37SOL2](#) [L177DFD50S](#)
[L177DFD50SF179A](#) [L177DFE09SAJ4](#) [L177DFE09SAM4B](#) [L177DFE09SAM4BRM6VFM](#) [L177DFE09SOL2](#)
[L177DFE09SU](#) [L177DFEF09S](#) [L177DFEH09SF179](#) [L177DFEH09SU](#) [L717DA15PAM4](#) [L717DA15PC309](#)
[L717DA15PST](#) [L717DB25PC309](#) [L717DB25PST](#) [L717DB25PST1](#) [L717DB25PST2](#) [L717DB25PST3](#)
[L717DB25PST4](#) [L717DC37PAM4](#) [L717DD50PC309](#) [L717DD50PT](#) [L717DE09PC309](#) [L717DE09PST](#)
[L717DE09PST1](#) [L717DE09PST2](#) [L717DE09PST3](#) [L717DE09PST4](#) [L717DE09PV](#)