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 78µ" up to 118µ" (2µm up to 3µm)
Screwlock	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

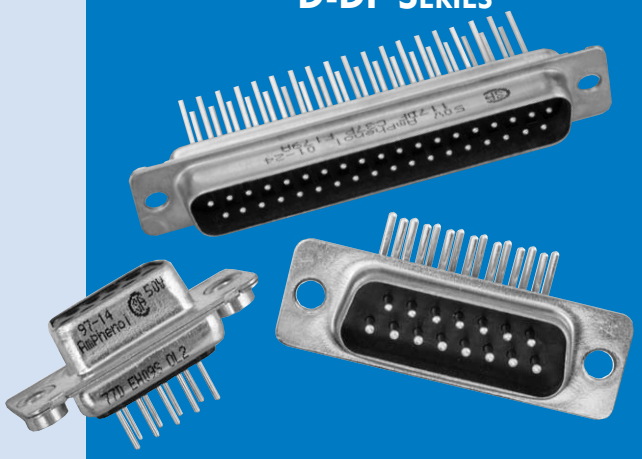
Operating Temperature	D: -67°F (-55°C) to +185°F (85°C), peak at 257°F (125°C) DF: -67°F (-55°C) to + 257°F (125°C)

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)

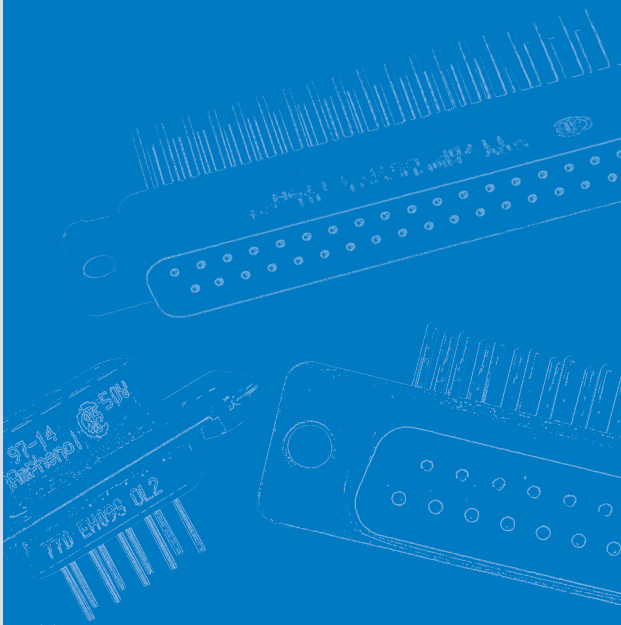
D-DF SERIES



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

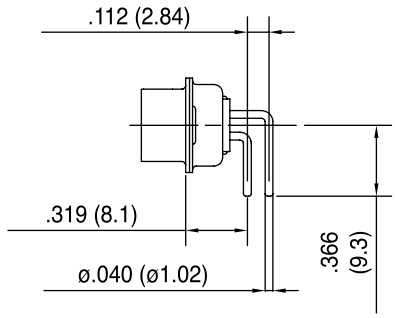
This series gives you Amphenol's high standards of quality and reliability to meet all of your commercial requirements.

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

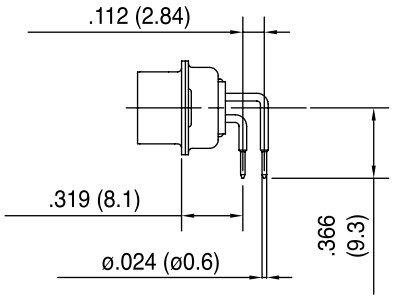


TELEPHONE: (416) 754-5656 FAX: (416) 754-8668 E-MAIL: SALES@AMPHENOLCANADA.COM

Without bracket

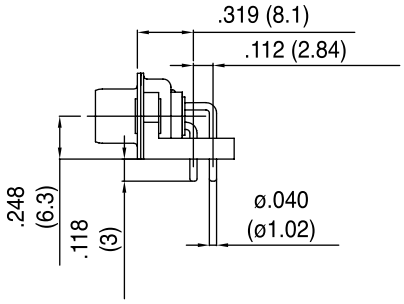


C

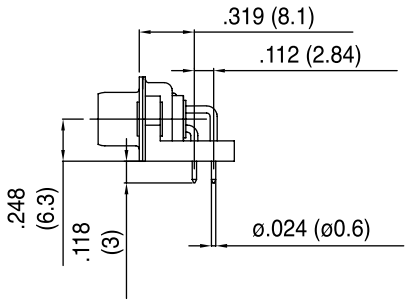


A4

Plastic bracket

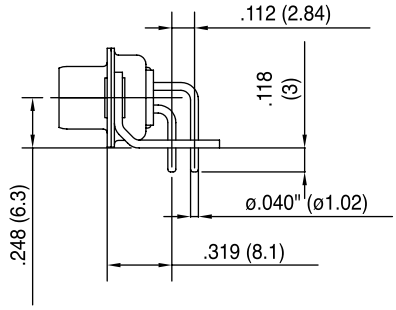


AJ3

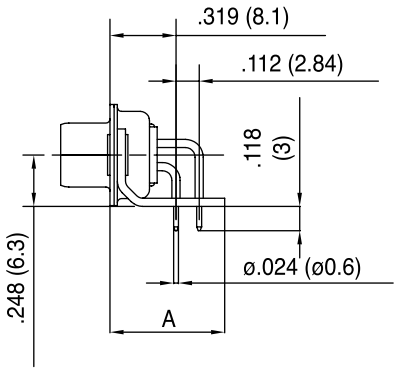


AJ4

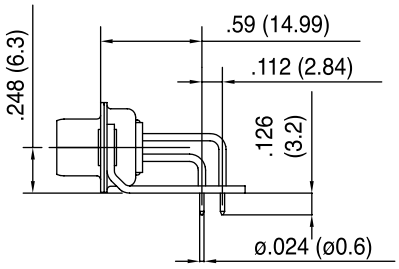
Metal bracket



A

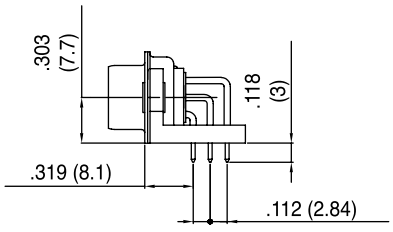


AM4 : A=.519 (13.2)
AZ4 : A=.453 (11.5)

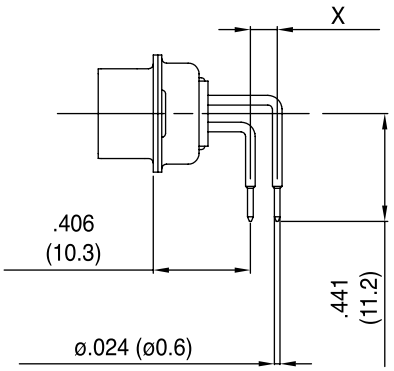


AM4B

50 contacts

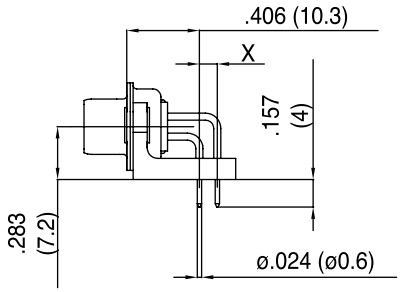


Without bracket

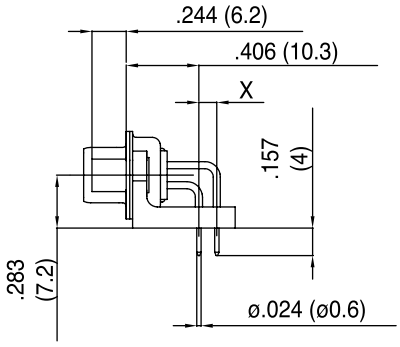


1AON : X= .100 (2.54)
1BON : X= .112 (2.84)

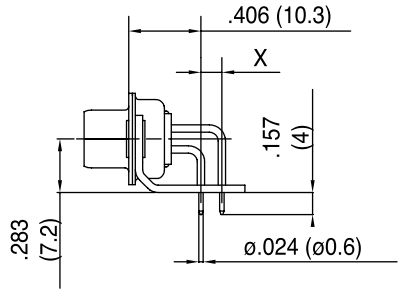
Plastic bracket



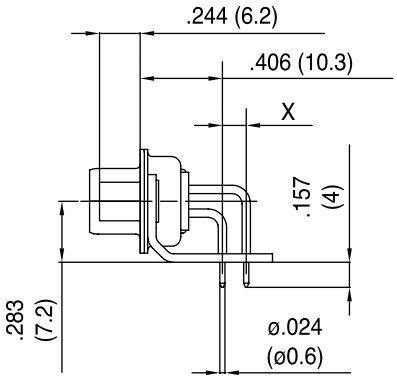
1APN : X= .100 (2.54)
1BPN : X= .112 (2.84)



1AUN : X= .100 (2.54)
1BUN : X= .112 (2.84)

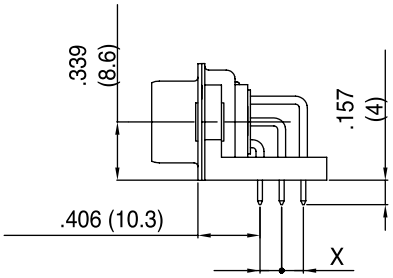


1AMN : X= .100 (2.54)
1BMN : X= .112 (2.84)



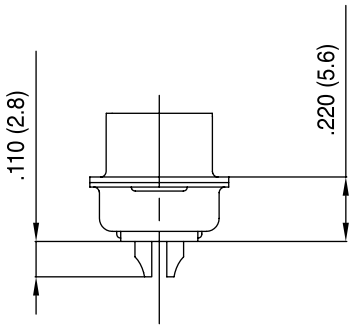
1ATN : X= .100 (2.54)
1BTN : X= .112 (2.84)

50 contacts

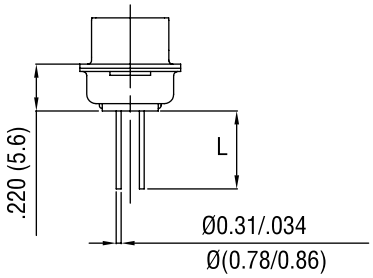


INCHES (MM)

Solder cup

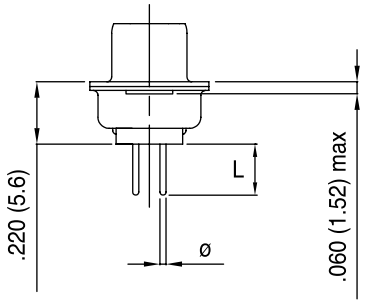


Wire Wrap



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

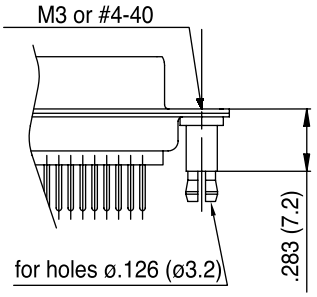
Straight PCB



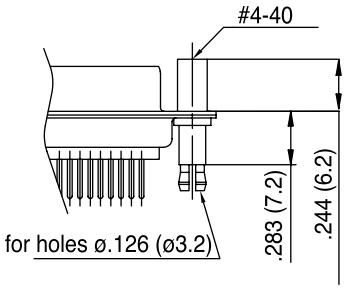
Termination	Ø	L
U	.024 (0.6)	.126 (3.2)
V	.040 (1.02)	.095 (2.4)
T	.024 (0.6)	.157 (4)
OL2	.02 (0.6)	.217 (5.5)

Grounding tabs

For straight termination

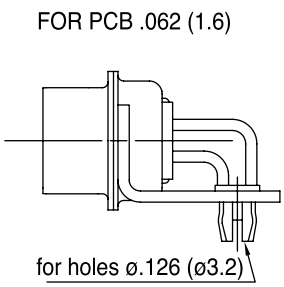


RM5



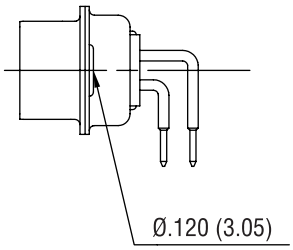
RM8

For R/A termination

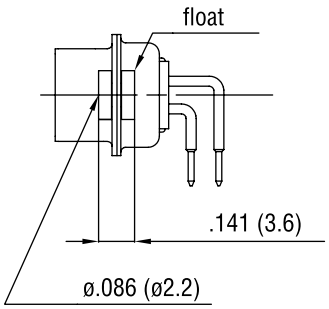


RM6

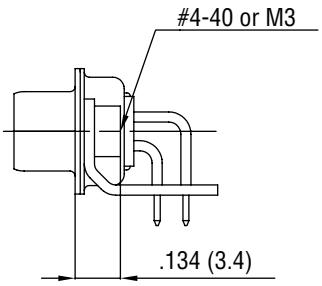
For straight and R/A termination



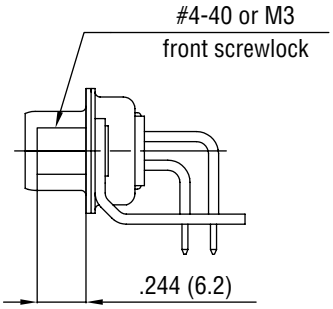
Standard rivet Ø.120 (3.05)
no digit



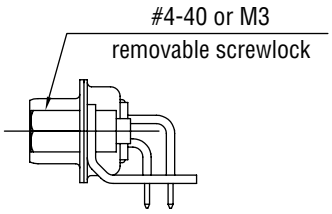
Float mounting
F



Threaded rear insert
H / G

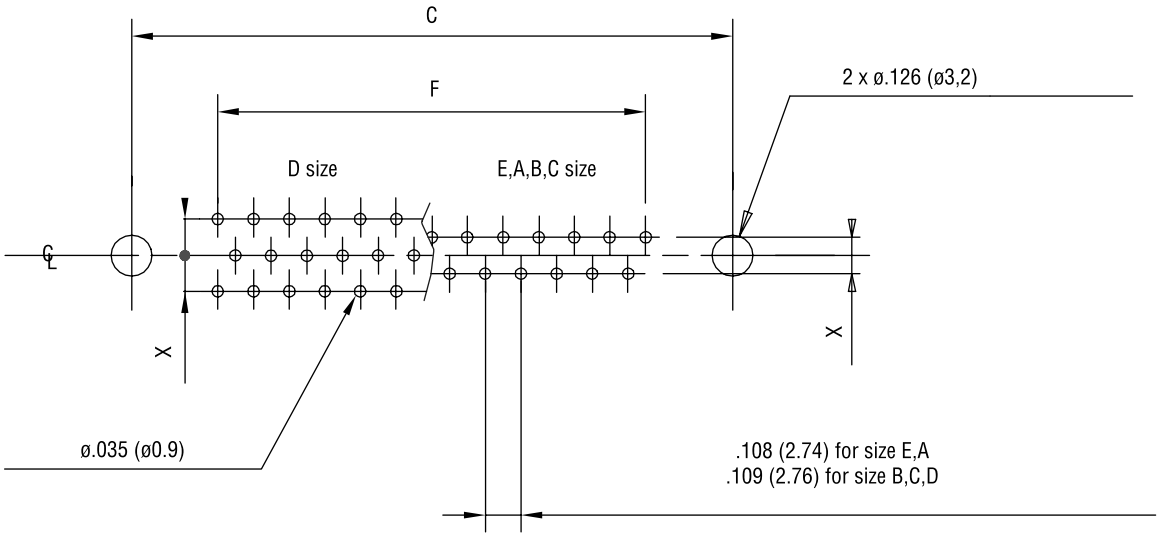


Fixed front female screwlock
VF / VFM



Removable female screwlock
VF2 / VFM2

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)

AMPHENOL D-SUBMINIATURE

ORDERING INFORMATION

XXXXX X X XX X XXXXX XXXX X

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

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

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.

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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