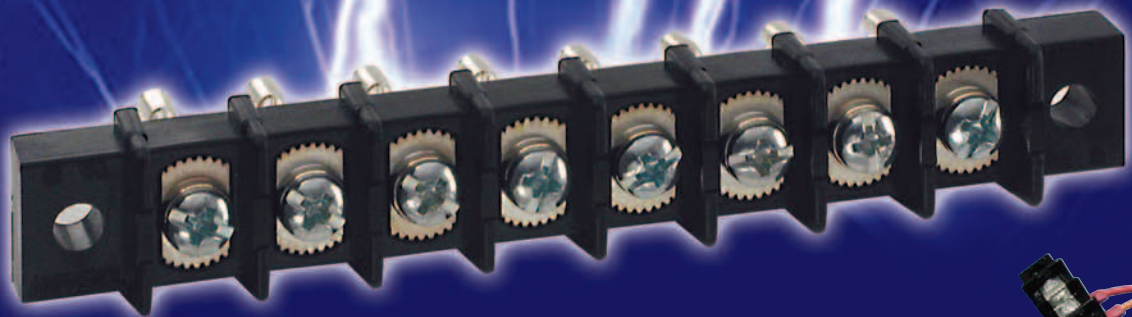
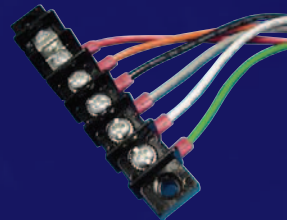


FX

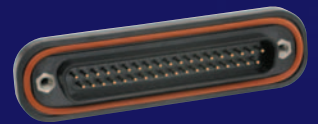


Send a clear signal

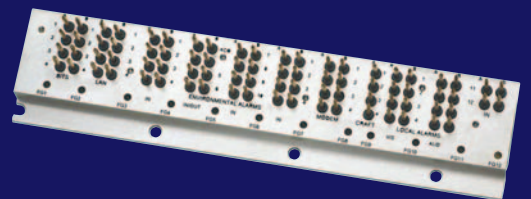
FX Filtered Connectors



Terminal Block



SD308 Sealed Dsub



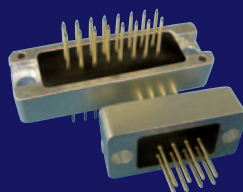
FXH Custom Filtered Header



FD308 Filtered Dsub



Discrete Filter



FXH Filtered Header

FX Filters

Amphenol[®]
Rectangular and Filtered Products

AMPHENOL

FXL

FILTERED TERMINAL BLOCKS

Filter power lines against noise and transients. Close EMI windows to protect your sensitive electronics.

Choose from a broad range of sizes and termination styles to suit your design.

**Ask us about
custom designs!**

SPECIFICATIONS

PRODUCT FEATURES:

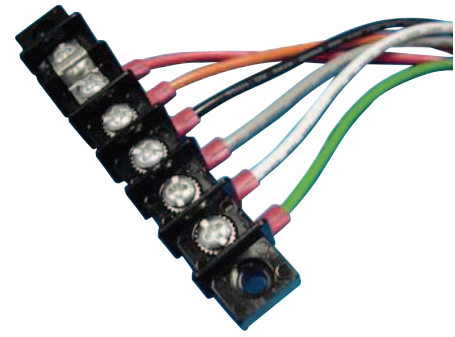
- COMMON FOOTPRINT
- SOLDERLESS, STRESS ISOLATED FILTERING
- UL APPROVED THERMOPLASTIC INSULATOR

MATERIALS AND PLATINGS:

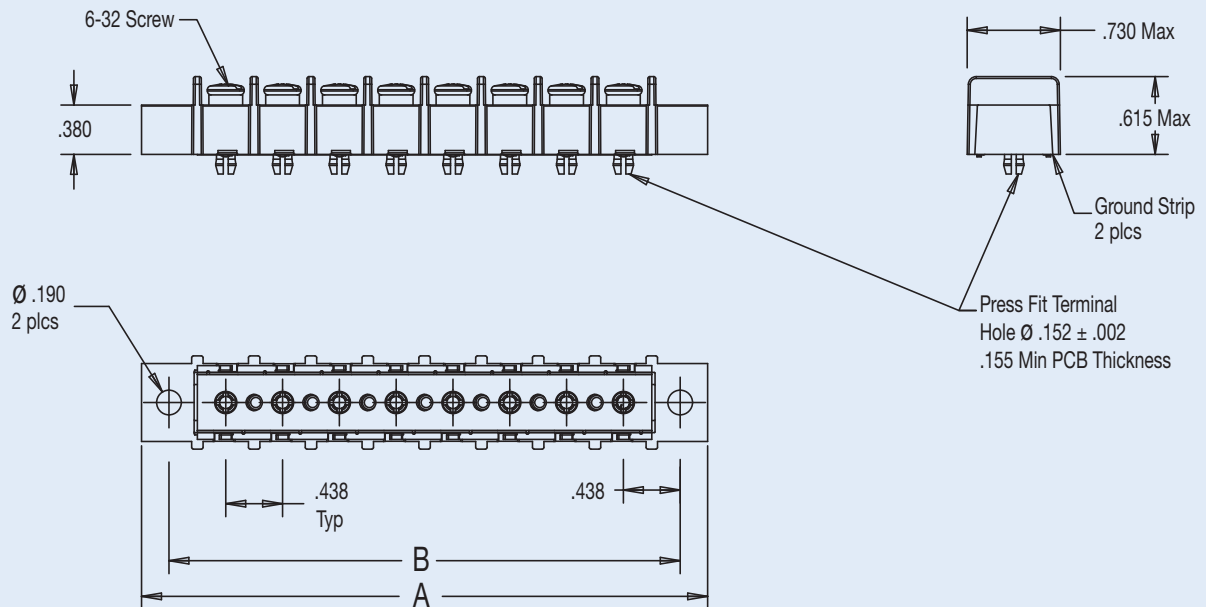
INSULATOR	UL94V-0 THERMOPLASTIC, BLACK
TERMINALS	COPPER ALLOY, SILVER PLATED
GROUND SPRING	COPPER ALLOY, SILVER PLATED
GROUND PLATE	STEEL, NICKEL PLATED

ELECTRICAL RATINGS:

DVV	1500 Vdc
INSULATION RESISTANCE	5 G Ω AT 200 Vdc
CURRENT	25 A MAX
CAPACITANCE	+100/-0%
INSERTION LOSS	SEE BACK PAGE
TEMPERATURE	105°C MAX
WIRE GAUGE	12 AWG MAX
UL FILES	E204411, E208784

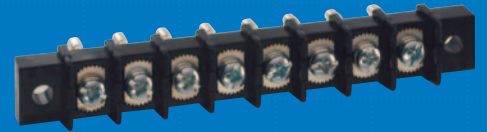
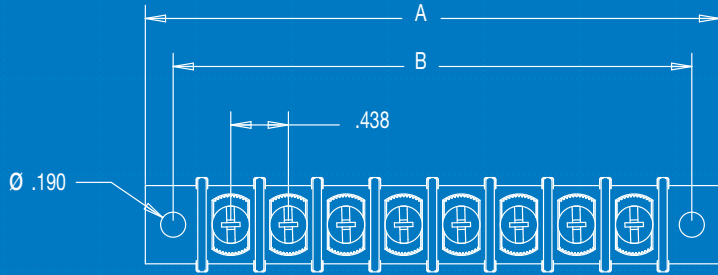


Press Fit Termination

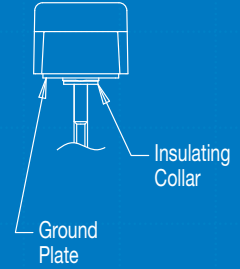
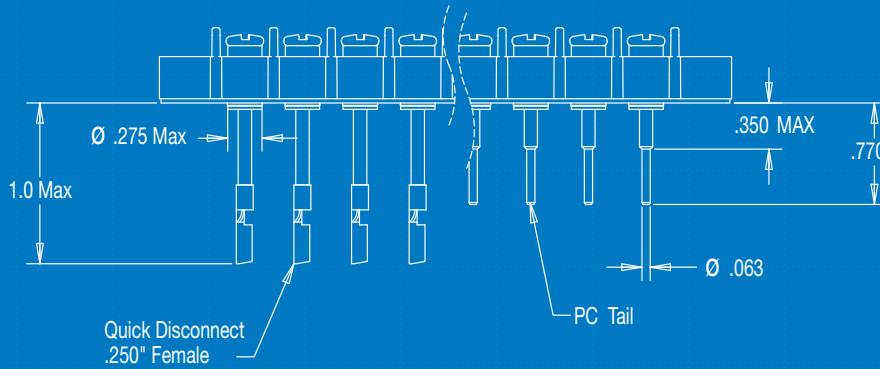


**Double-Row 'FXL2'
also available**

Visit www.amphenolcanada.com for drawings.



To save space, request a shorter PC Tail



# Terminals	Dim 'A'±.020	Dim 'B'
2	1.730	1.312
3	2.170	1.750
4	2.610	2.187
5	3.050	2.625
6	3.480	3.062
7	3.920	3.500
8	4.360	3.937
9	4.800	4.375
10	5.230	4.812
11	5.670	5.250
12	6.110	5.687



FXL - 06 C252 10 0 - 000

<p>NUMBER OF TERMINALS 02 - 12</p> <p>CAPACITANCE CODE C101 = 100pF (+100%/ -0%) C252 = 2500pF C502 = 5000pF (Last digit of code is the number of zeros after first 2 digits)</p>	<p>DEVIATION 000 = Standard Part other Deviations as required</p> <p>MOUNTING STYLE 0 = Thru Hole 9 = Special</p> <p>TERMINATION STYLE 03 = Solder Cup 04 = P.C. Tail 08 = Press Fit 09 = Male Quick Disconnect (.250 Blade) 10 = Female Quick Disconnect (.250 Blade) 11 = Wire Harness</p>
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Visit www.amphenolcanada.com for drawings.

TELEPHONE: (416) 291-4401 Fax: (416) 292-0647 E-MAIL: SALES@AMPHENOLCANADA.COM

TERMINAL BLOCKS

AMPHENOL

FXH

SNAP-IN FILTERED HEADER

Protect your Board-to-Board signals against radiated and conducted EMI. This header snaps into place without assembly tools and saves real estate.

SPECIFICATIONS

PRODUCT FEATURES:

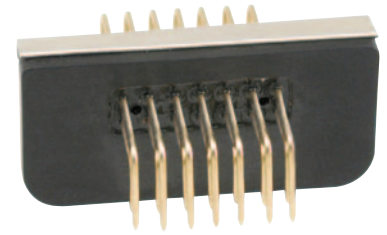
- COMPACT, CONNECTOR-LIKE ASSEMBLY
- STRESS ISOLATED FILTERS
- .100" OR 2mm PITCH

MATERIALS AND PLATINGS:

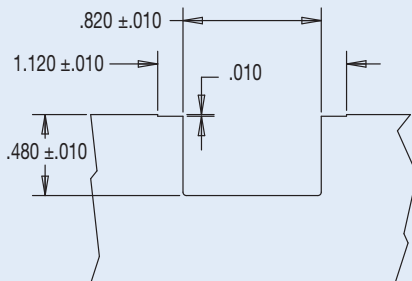
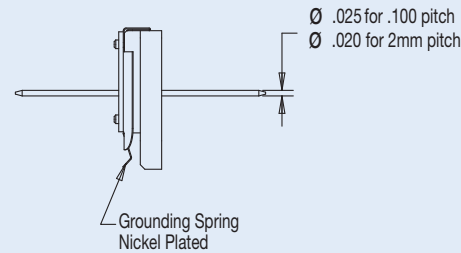
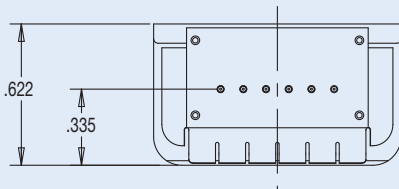
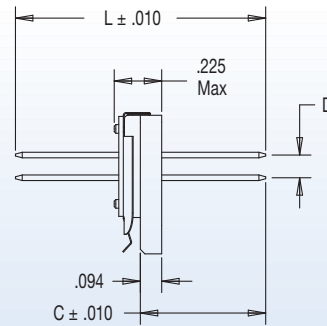
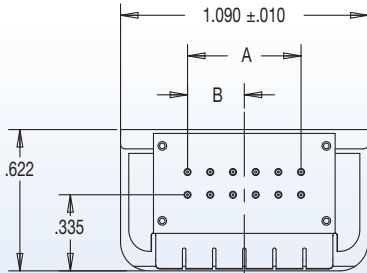
INSULATORS	UL94V-0 THERMOPLASTIC
GROUNDING SPRING	COPPER ALLOY, NICKEL PLATED
CONTACTS	COPPER ALLOY, GOLD OVER NICKEL

ELECTRICAL RATINGS:

DVV	500 Vdc
INSULATION RESISTANCE	5 G Ω AT 200 Vdc
CAPACITANCE	+100/-0%
INSERTION LOSS	SEE BACK PAGE
CURRENT RATING	3 A
TEMPERATURE	-55°C / 125°C



Ask us about custom designs!



Panel Cutout

.057 ± .002 Thickness

Terminals per row	Terminal Styles 1, 2 & 3			Terminal Styles 3, 4 & 5 [mm]		
	'A'	'B'	'D'	'A'	'B'	'D'
3	0.200	0.150	0.100	4.0	2.0	2.0
4	0.300	0.150		6.0	4.0	
5	0.400	0.250		8.0	4.0	
6	0.500	0.250		10.0	6.0	
7	---	---		12.0	6.0	

Terminal Styles	Dim 'L'	Dim 'C'
1,4	0.825	0.400
2,5	1.100	0.550
3	Consult factory	

Visit www.amphenolcanada.com for drawings.

SNAP-IN HEADER

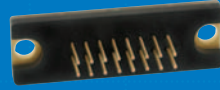
AMPHENOL

FXH

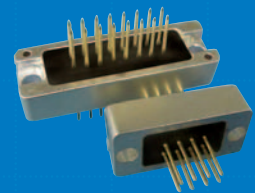
BOLT-IN FILTERED HEADER

This header is tougher than the average filtered array. Ceramic filter elements are isolated from mating and handling loads, which means your assembly works the first time, every time.

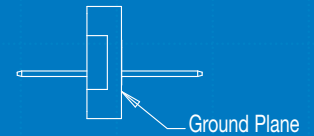
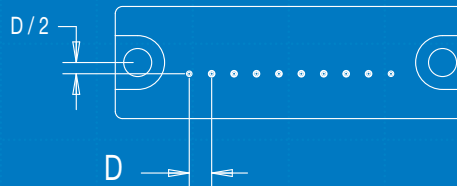
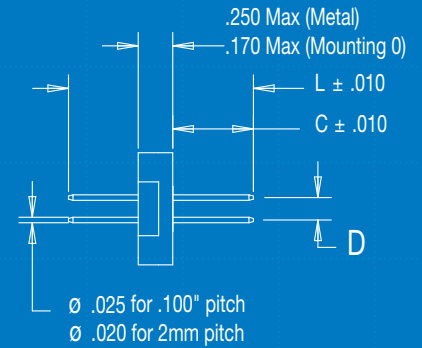
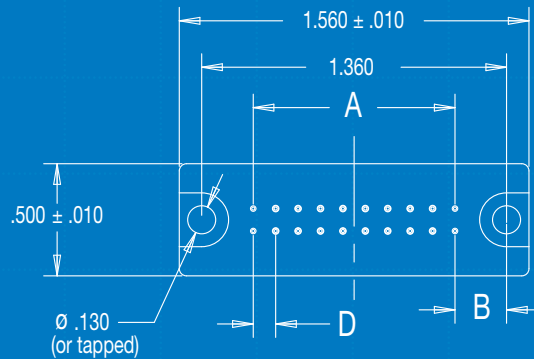
Economical, non-metallic designs are also available in the same footprint.



MOUNTING STYLE 0

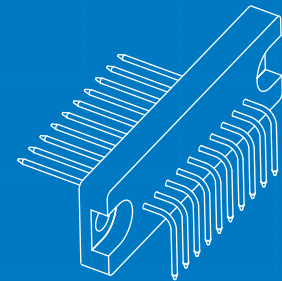


METAL BODY
MOUNTING STYLES 1, 2 & 3



Terminals per row	Terminal Styles 1, 2 & 3			Terminal Styles 3, 4 & 5 [mm]		
	'A'	'B'	'D'	'A'	'B'	'D'
4	0.300	0.530	0.100	6.0	14.27	2.0
5	0.400	0.430		8.0	12.27	
6	0.500	0.430		10.0	12.27	
7	0.600	0.330		12.0	10.27	
8	0.700	0.330		14.0	10.27	
9	0.800	0.230		16.0	8.27	
10	0.900	0.230		18.0	8.27	
11	---	---		20.0	6.27	
12	---	---		22.0	6.27	

Terminal Styles	Dim 'L'	Dim 'C'
1,4	0.825	0.360
2, 5	1.100	0.550
3	Consult factory	



FXH - 20 C252 D 2 0 - 000

NUMBER OF TERMINALS
04 - 24

Capacitance Code

C101 = 100pF (+100%/ -0%)

C252 = 2500pF

C402 = 4000pF

(Last digit of code is the number of zeros after first 2 digits)

ROWS OF CONTACTS

S = Single Row

D = Double Row

DEVIATION

000 = Standard Part

other Deviations as required

MOUNTING STYLE

0 = Thru Hole

1 = Metal Body thru Hole

2 = Metal Body 4-40 UNC

3 = Metal Body M3 x 0.5

9 = Snap-In Header

TERMINATION STYLE

1 = Straight, Ø .025, 0.825 Long

2 = Straight, Ø .025, 1.100 Long

3 = Right Angle bend, built to suit

4 = Straight, 2mm, Ø .020, .825 Long

5 = Straight, 2mm, Ø .020, 1.100 Long

Visit www.amphenolcanada.com for drawings.

TELEPHONE: (416) 291-4401 Fax: (416) 292-0647 E-MAIL: SALES@AMPHENOLCANADA.COM

BOLT-IN HEADER

AMPHENOL

FD308

FILTERED D-SUB

RUGGEDIZED

Amphenol's FD308 connectors are available in the full range of standard and high-density arrangements, either pin or socket. These connectors are supplied with fixed screw machine contacts and are available in Solder Cup, Straight or Right Angle PCB terminations.

Applications:

- Computers and Peripheral Equipment
- Ideal for Retrofit Applications or Late Design-In

SPECIFICATIONS

PRODUCT FEATURES:

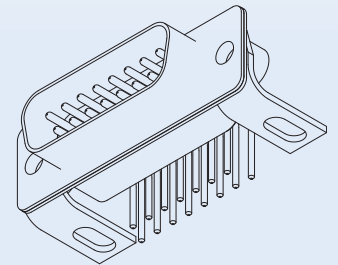
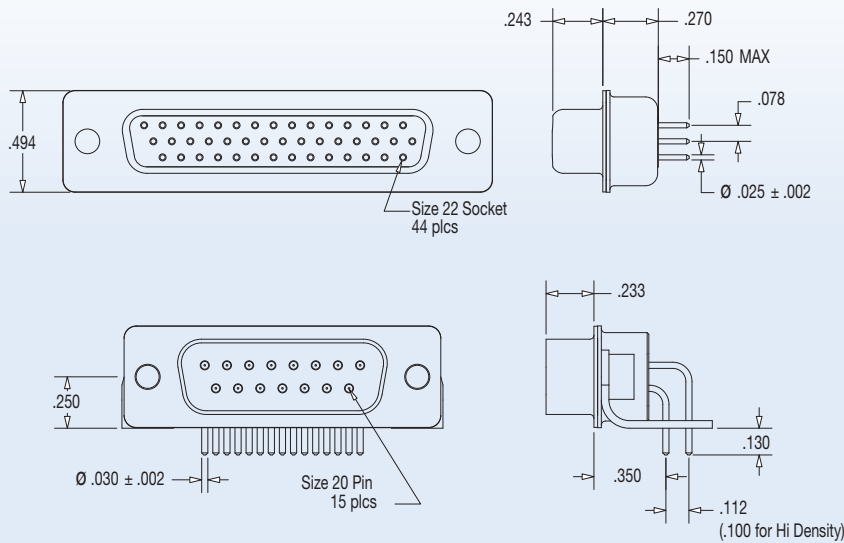
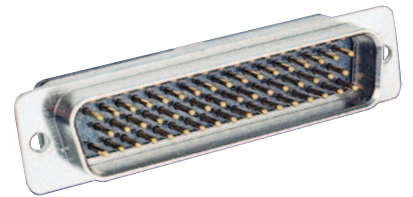
- HI RELIABILITY FILTERING IN MULTI ROW ARRANGEMENTS
- STAMPED AND FORMED SHELLS
- SCREW MACHINE CONTACTS AND HI RELIABILITY INSERTS
- AVAILABLE IN ALL HI-DENSITY INSERT PATTERNS
- MATES WITH MIL-DTL-24308 D-SUBS

MATERIALS AND PLATINGS:

SHELLS	STAMPED STEEL SHELL, TIN PLATED
INSERTS	HIGH TEMPERATURE RESISTANT POLYETHERSULFONE PER MIL-P-46185
CONTACTS	MACHINED COPPER ALLOY, 20µ" GOLD OVER NICKEL
CAPACITOR	BARIUM TITANATE CERAMIC ARRAY

ELECTRICAL RATINGS:

CURRENT	5 A
INSULATION RESISTANCE	5 GΩ @ 200 Vdc
WORKING VOLTAGE	200 Vdc
D.W.V.	500 Vdc PIN-PIN / PIN-SHELL
CAPACITANCE	+/- 20%
INSERTION LOSS	SEE BACK PAGE
TEMPERATURE	-55°C / +125°C



FD308 - B44 S A 1 A2 - 000

SIZE & NUMBER OF CONTACTS

STD Density E09, A15, B25, C37, D50
High Density E15, A26, B44, C62, D78, 6104

CONTACT TYPE

S = Socket Contact (Receptacle)
P = Pin Contact (Plug)

TERMINATION STYLE

A = Right Angle PCB
B = Vertical PCB
C = Solder Cup (Plug ONLY)

000 = Standard part
other deviations as required

CAPACITANCE CODE

A2 = 200 pF **A4** = 400 pF
01 = 1000 pF **02** = 2000 pF
05 = 5000 pF

MOUNTING TYPE

1 = 4-40 Clinch Nut
2 = Ø.120 thru hole
3 = R/A Mounting Bracket
4 = 4-40 Clinch Nut with
R/A Mounting Bracket

Visit www.amphenolcanada.com for drawings.

AMPHENOL

SD308

SEALED D-SUB

For Air, Land or Sea, these connectors are SEALED! Amphenol's SD308 Connectors are available in the full range of standard and high-density arrangements, either pin or socket. These connectors are supplied with fixed screw machine contacts and are available in Solder Cup, Straight or Right Angle PCB terminations.

Applications:

- Industrial Controllers
- Ruggedized Computers and Peripheral Equipment
- Ideal for Retrofit Applications or Late Design-In

SPECIFICATIONS

PRODUCT FEATURES:

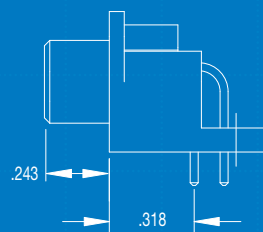
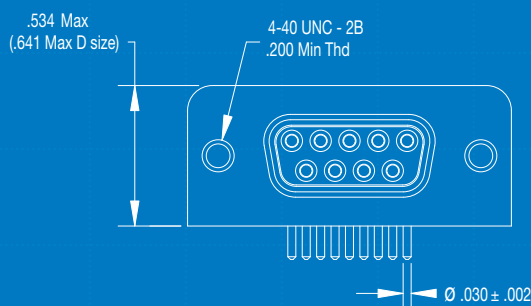
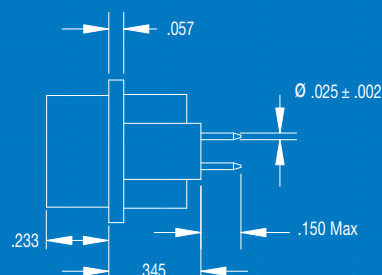
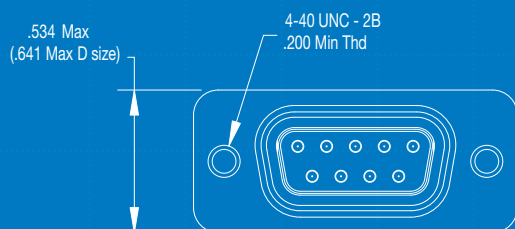
- ONE PIECE MACHINED ALUMINUM SHELL
- SCREW MACHINE CONTACTS
- HI GRADE THERMOPLASTIC INSERTS
- INTEGRATED BLIND PANEL MOUNTS
- SUPPLIED WITH CONDUCTIVE PANEL SEAL GASKET
- MATES WITH MIL-DTL-24308 D-SUBS

MATERIALS AND PLATINGS:

SHELL	MACHINED ALUMINUM ALLOY, TIN PLATED
INSERTS	HIGH TEMPERATURE RESISTANT POLYETHERSULFONE PER MIL-P-46185
CONTACTS	COPPER ALLOY, 20µ" GOLD OVER NICKEL
SEAL	SILICONE ELASTOMER WITH NICKEL PLATED GRAPHITE

ELECTRICAL RATINGS:

CURRENT RATING	5A
INSULATION RESISTANCE	5 GΩ @ 500 Vdc
WORKING VOLTAGE	120 Vac
D.W.V.	1,000 Vac PIN-PIN / PIN-SHELL
TEMPERATURE	-55°C / +125°C



Ask us about
custom designs!

SD308 - B25 S A 1 - 000

SHELL SIZE & NUMBER OF CONTACTS

STD Density E09, A15, B25, C37, D50
HIGH Density E15, A26, B44, C62, D78, 6104

CONTACT TYPE

S = Socket Contact (Receptacle)
P = Pin Contact (Plug)

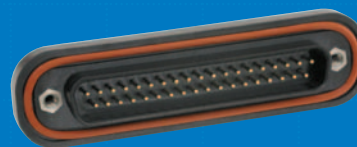
000 = Standard part
other deviations as required

MOUNTING TYPE

1 = 4-40 Blind Nut
2 = 4-40 Blind Nut with R/A Mounting Bracket
3 = Ø .120 thru hole
4 = M3x0.5 Blind Nut

TERMINATION STYLE

A = Right Angle PCB
B = Vertical PCB
C = Solder Cup



Custom SD308

Visit www.amphenolcanada.com for drawings.

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SEALED D-SUB

THE VALUE IN FX FILTERS.

EMC is a common requirement for many electronic devices. FX Filtered Terminal Blocks, Headers and Dsubs are a compact, economical filtering solution for power and board-to-board applications.

Replacing board-level filters or multiple discrete filters with a single FX filtered connector offers valuable advantages:

- Reduction in space and weight
- Reduced inspection and assembly labour
- High frequency EMI performance superior to a board-level filter solution
- Superior shielding effectiveness

FX Filters are designed so that the ceramic filter element is protected from the mechanical and thermal stresses encountered during assembly and in the field.

Send a clear signal.

FD308 & FXH Insertion Loss

Capacitance (pF) 25°C, 1kHz, 1.0 Vrms	160 / 240	320 / 480	800 / 1200	1600 / 2400	3200 / 4800	4000 / 6000
Insertion Loss 1 MHz	---	---				1
(dB min) 10 MHz	---	---	4	8	13	14
per Mil-Std-220 100 MHz	8	13	20	25	30	32
25°C, no load 500 MHz	20	25	32	38	43	45
1000 MHz	25	30	37	43	48	50

FXL Insertion Loss

Capacitance (pF) 25°C, 1kHz, 1.0 Vrms	100 / 200	1000 / 2000	2500 / 5000	4000 / 8000
Insertion Loss 5 MHz	---	1	5	9
(dB min) 10 MHz	---	5	9	15
per Mil-Std-220 100 MHz	4	21	29	30
25°C, no load 500 MHz	14	32	32	32
1000 MHz	19	32	32	35

FXH Insertion Loss (Mounting Styles 0 and 9 only)

Capacitance (pF) 25°C, 1kHz, 1.0 Vrms	1000 / 2000	2500 / 5000	5000 / 10000
Insertion Loss 5 MHz	1	5	9
(dB min) 10 MHz	5	9	15
per Mil-Std-220 100 MHz	21	29	34
25°C, no load 500 MHz	32	38	45



Rectangular Connectors

http://www.amphenolcanada.com/ProductSearch/pdf/Rectangular_cat.pdf



Filtered Connectors

http://www.amphenolcanada.com/ProductSearch/pdf/Mil_Aero_CAT.pdf

For more information about FX or other products, contact your local Amphenol Sales Representative or contact:

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 605 Milner Avenue, Toronto ON M1B 5X6

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