SERIES FILTEP PRODUCTS

N RUFCC57-25500

www.amphenol.com

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The Company

Amphenol Canada Corp. a subsidiary of Amphenol Corporation, is an international leader in the manufacture of *Filtered Connectors* and *Specialty Interconnect Devices*, and has been pioneering EMI and EMP technologies for more than 40 years.

Located in Toronto, Canada, our ISO 9001 certified facility employs approximately 400 people. Our activities are dedicated to the design, development and manufacture of EMI/EMP filter connector products which are used in Commercial, Industrial, Communications, Military and Aerospace applications worldwide. Our expertise in understanding and supporting our customers' filter interconnect needs has earned Amphenol Canada a reputation of quality and excellence among the world's leading users of electronic components.

What is a Filtered Connector?

A *filtered connector* is the combination of filter elements in a connector, forming one neat, compact interconnect device that can filter unwanted EMI. The most popular configuration is when

capacitors are mounted inside the connector between each of the contacts and the connector ground shell.

Benefits

- **Better EMI Control** With minimized lead inductances and short, direct paths to ground of the filter, performance will typically out perform the same filter components on a P.C.B. by a factor of three to one.
- PCB Space Savings Incorporating filter elements into the connector, enables simplification of the required filter schematic for the necessary performance plus a savings of 2-4 square inches.
- Cost Savings Filter elements, such as inductors and capacitors, must no longer be purchased, stocked, assembled or tested. Fewer components means greater reliability at lower cost.
- **Easy EMI/RFI Upgrade** These compact filtered connectors fit standard non-filtered connector footprints. For improved EMC performance, simply replace the existing connector with a filtered connector.
- **EMC Compliance & Immunity** EMI that is generated from the electronic device, radiated or conducted, will be re-directed to chassis ground through the connector shell. This same device will also protect the system from external EMI/RFI noise (such as radio transmitters, ESD, or natural phenomena such as lightning) in the same way.

Choosing the Right Capacitance for Your Filter Connector

- (1) Determine the highest frequency that the filter connector needs to pass unaffected.
- (2) Which frequencies are causing trouble, either with emissions or with immunity to interference?
- (3) Scan the Insertion Loss charts on page 2 to select a filter which provides little or no insertion loss (filtering) at the frequency determined from step 1, yet gives the greatest possible insertion loss at the frequencies determined in step 2.

Nominal Insertion Loss values described in this catalog are based on the Mil-STD-220 test method - a 50 ohm balanced load and source impedance. Different systems will differ from this and hence, the filter connector may perform differently. The final decision will be determined from actual EMI/RFI testing of the equipment in question.

Contents

D–Sub Series



FCC17 Series	Electrical Data, Insertion Loss Performance	2
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Micro-Ribbon Series



FCC57 Series

S	Electrical Data, Insertion Loss Performance	2
	Mechanical and Environmental Data	3
	Filtered Micro-Ribbon Connectors: How To Order	17-22

RF Series

456 Series Capacitively Decoupled RF Connectors 23-35



Modular Jacks

FRJ / FRJA Series

Filtered & Shielded -See Modular Jack Catalogue

FCC17 & FCC57 Series

ELECTRICAL DATA

Contact Resistance:	15 milliohms maximum per MIL-STD-1344 Method 3002
Insulation Resistance:	3000 megohms minimum per MIL-STD-1344 Method 3003.1
Current Rating:	5 Amps DC maximum 2 Amps RF filtering maximum
FCC17 Combo:	20-40 Amps

Filter Performance:

40

30

20

10

0 0.1

Insertion Loss (dB)

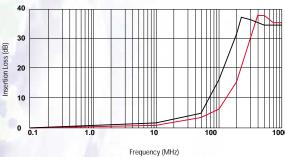
Filter Capacitance (pF) @25°C, 1 kHz, 1.0 VRMS		50 ± 15%	180 ± 15%	330 ± 15%	470 ± 15%	820 ± 15%	1000 ± 15%	1200 ± 15%	2200 ± 15%	5600 ± 20%	47000 ± 20%
Dielectric Material: NPO d	or X7R	1370	1070	1070	1370	1070	1070	1070	1070	1 2070	1 2070
Insertion Loss (dB)											
(per MIL-STD-220 @	.5 MHz									3	15
25°C)	1 MHz								1	5	20
	5 MHz				1	1	1	1	5	11	27
	10 MHz			1	2	3	3	4	8	16	32
	50 MHz		4	7	11	16	16	17	23	32	32
	100 MHz	2	12	15	22	30	30	30	32	32	32
	200 MHz	12	27	28	30	32	32	32	32	32	32
	1000 MHz	32	32	32	32	32	32	32	32	32	32
Working Voltage (VDC)		300	300	300	300	200	200	200	200	200	50
DWV (VDC) *		600	600	600	600	600	600	600	600	600	150

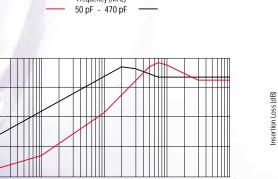
NOTE: A larger range of capacitors available - consult factory.

* FCC57 connectors can be specified to meet the requirements of FCC Docket 20780, Part 68, Subpart F (1000 VAC for one minute. Consult factory for details). FCC17 and FCC57 connectors can withstand a transient voltage spike of 700 V with a rise time of 1 µsec (500 V for 47000 pF).

FCC17 and FCC57 connectors can be specified to meet higher DWV and transient voltage requirement (consult factory).

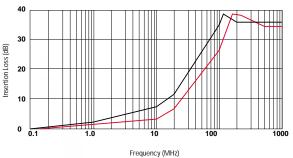
Typical Insertion Loss Performance (dB) (Per MIL-STD-220, no load)



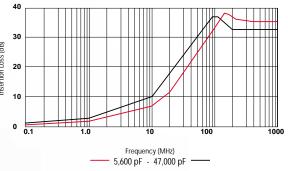


Frequency (MHz)

1,200 pF - 2,200 pF



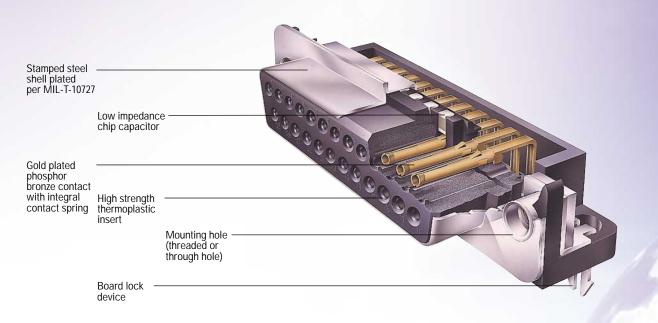




FCC17 & FCC57 Series

MECHANICAL DATA

FCC17 Series Construction



FCC17 & FCC57 Mechanical & Environmental Data

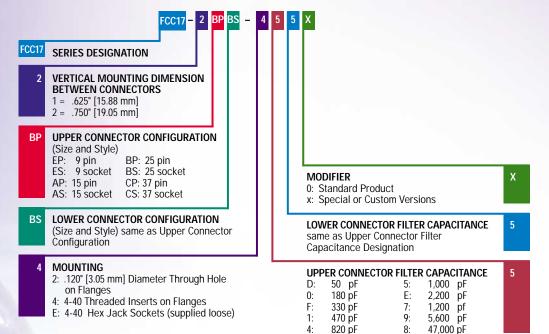
MATERIALS

FCC17		FCC57		FCC17 & FCC57	
Shell	Stamped Steel;	Shell	Stamped Steel,	OPERATING TEMPERATURE	• -40°C to +85°C
	Tin Plated		Zinc or Aluminum Diecast; Tin Plated	TEMPERATURE CYCLING	• To MIL-STD-1344, Method 1003, Test Cond. A
Contacts	s Phosphor Bronze; Contacts 15µ inches [0.38 microns] Au over Ni Optional 50µ inches [1.27 microns] Au available	Contacts	Phosphor Bronze; 30µ inches [0.76 microns] Au over Ni	HUMIDITY	To MIL-STD-1344, Method 1002, Type I, Test Condition C
		Optional 50µ inches [1.27 microns]	VIBRATION	To MIL-STD-1344, Method 2005, Test Cond. III	
	FCC17 Combo Copper Alloy		Au available	DURABILITY	 200 Cycles Minimum, to MIL-STD-1344, Method 2016
	30µ inches [0.76 microns] Au over Ni			UL File # CSA File #	E135615 LR68598
Inserts	High Strength Thermoplastic. Complies with UL flammability requirements of 94V-O per UL-STD-94.	Inserts	High Strength Thermoplastic. Complies with UL flammability requirements of 94V-O per UL-STD-94.		

ENVIRONMENTAL

FILTERED STACKED D-SUB CONNECTORS

Ordering Information – Stacked D-Sub



* For Additional Mounting Options and Filter Capacitance - Consult Factory

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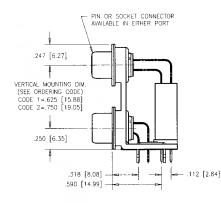
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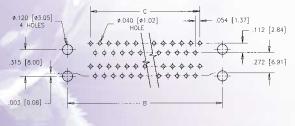
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PCB LAYOUT

Dimensions

Connector size	А	В	С		
9/9	1.213 [30.81]	.984 [24.99]	.432 [10.97]		
15 / 15	1.541 [39.14]	1.312 [33.32]	.756 [19.20]		
25 / 25	2.088 [53.04]	1.852 [47.04]	1.304 [33.12]		
37 / 37	2.729 [69.32]	2.500 [63.50]	1.956 [49.68]		
Consult factory for alternative arrangements					

Consult factory for alternative arrangements

FILTERED D-SUB CONNECTORS

Specifications

Filter Characteristics:See Page 2Electrical Data:See Page 3Material and Finishes:See Page 3Environmental Data:See Page 3UL File # :E135615CSA File # :LR68598



These products are protected by U.S. Patent # 4500159

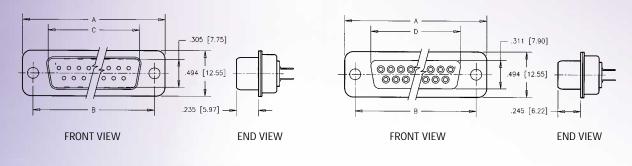
FCC17 - B25 S C - 4	4 0 G
B25 SIZE E09 A15 B25 C37	1. 19
S CONNECTOR TYPE A - Adapter P - Pin S - Socket	SPECIALS G No Digit: Standard 15µ inches gold
C TERMINATION TYPE A - Right Angle PC Tail, .318" [8.08 mm] Footprint B - Right Angle PC Tail, .405" [10.29 mm] Footprint C - Right Angle PC Tail, .590" [14.99 mm] Footprint D - Pin/Socket Adapter E - Vertical Mount PC Tail M - Solder Cup N - Vertical Mount PC Tail - Long Body	G: 50 micro inches gold K: 30 micro inches gold L: Standard Connector with added ferrite block MODIFIER 0 0 = Standard Product (Boardlocks on Right Angle D-Subs)
 4 MOUNTING OPTIONS* A: 4-40 Threaded PC Tail Standoffs with Boardlock, Vertical Mount Only E: 4-40 Hex Jack Sockets (supplied loose) F: 4-40 Round Fixed Jack Sockets 2: .120 [3.05 mm] diameter Through hole 	B = Metal Mounting Brackets, for Right Angle D-Subs D = .315" to Boardlock for .590" footprint E = Plastic Bracket - No Boardlock F = No Boardlock, No plastic or metal Bracket - Alignment Strip Only X = Specials or Custom Versions
 Self-Locking 4-40 Threaded Inserts 4-40 Threaded Inserts (Standard) 4-40 Threaded Stand-Offs, Vertical Mount M3 Threaded inserts 	FILTER CAPACITANCE [pF]* 4 D: 50 pF B: 100 pF 0: 180 pF F: 330 pF 1: 470 pF 4: 820 pF 5: 1,000 pF 7: 1,200 pF E: 2,200 pF

Ondening Information D Cash

FILTERED D-SUB CONNECTORS

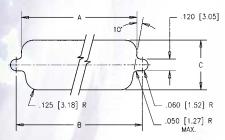
Pin

Socket



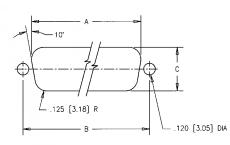
All Dimer	isions in inches (m	m)			
Shell	Standard	А	В	С	D
Size	Number of			(for pin	(for socket
	Contacts			connector)	connector)
E	9	1.213 [30.81]	.984 [24.99]	.666 [16.92]	.643 [16.33]
А	15	1.541 [39.14]	1.312 [33.32]	.994 [25.25]	.971 [24.66]
В	25	2.088 [53.04]	1.852 [47.04]	1.534 [38.96]	1.511 [38.38]
С	37	2.729 [69.32]	2.500 [63.50]	2.182 [55.42]	2.159 [54.84]

Mounting Dimensions



FRONT MOUNTING CUT-OUT

6

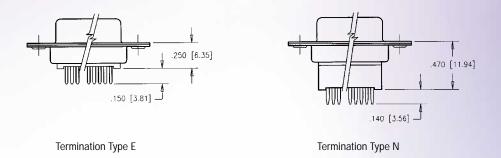


REAR MOUNTING CUT-OUT

_				
Size	Mounting	А	В	С
0	Front	.875 [22.23]	.984 [24.99]	.512 [13.00]
9	Rear	.807 [20.50]	.984 [24.99]	.449 [11.40]
45	Front	1.200 [30.48]	1.312 [33.32]	.512 [13.00]
15	Rear	1.134 [28.80]	1.312 [33.32]	.449 [11.40]
	Front	1.744 [44.30]	1.852 [47.04]	.512 [13.00]
25	Rear	1.673 [42.49]	1.852 [47.04]	.449 [11.40]
37	Front	2.389 [60.68]	2.500 [63.50]	.512 [13.00]
	Rear	2.326 [59.08]	2.500 [63.50]	.449 [11.40]

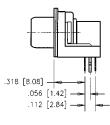
FILTERED D-SUB CONNECTORS

Vertical Mount



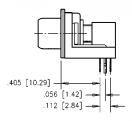
Right Angle, with Boardlocks & Plastic Mounting Brackets

.318" FOOTPRINT



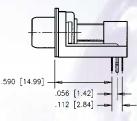
Termination Type A with Modifier option O

.405" FOOTPRINT



Termination Type B with Modifier option 0

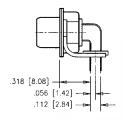
.590" FOOTPRINT



Termination Type C with Modifier option O

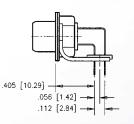
Right Angle, with Metal Mounting Brackets

.318" FOOTPRINT



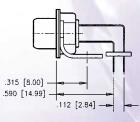
Termination Type A with Modifier option B

.405" FOOTPRINT



Termination Type B with Modifier option B

.590" FOOTPRINT

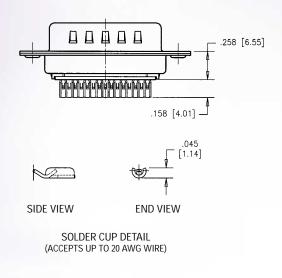


Termination Type C with Modifier option B

FILTERED D-SUB CONNECTORS

Solder Cup Termination

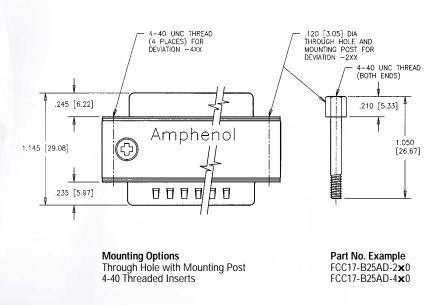
Termination type M



Pin-to-Socket Adapter

Termination type D

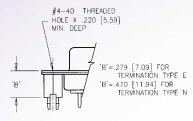
8



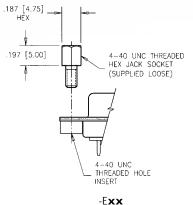
x = To complete the P/N, see page 5 to assign Filter Capacitance Code. For electrical and mechanical specifications, see pages 2 and 3.

FILTERED D-SUB CONNECTORS

Mounting Options (on Flange) Shown for Vertical Mount Connectors. Codes 2, 3, 4, 6, E and F also available on right angle connectors.



-A**xx** 4-40 Threaded Standoffs with Boardlocks (Vertical Mount only) Mounting code A



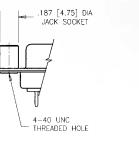
4-40 Hex Jack Sockets (supplied loose) Mounting code E



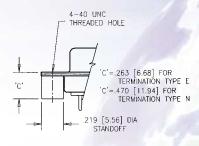
-2**xx** .120" (3.05 mm) diameter thru hole Mounting code 2



-3xx, 4xx and 6xx 4-40 Threaded Inserts - Self locking 4-40 Threaded inserts (standard) M3 threaded inserts Mounting codes 3, 4 and 6

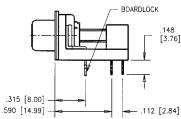


-F**xx** 4-40 Round fixed Jack Sockets Mounting code F

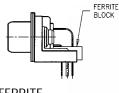


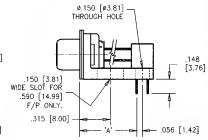
-5**xx** 4-40 Threaded Standoff (vertical mount only) Mounting code 5

Bracket Options & Specials



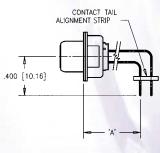
-**xx**D .315" to Boardlock for .590" Footprint only Modifier option D





-**xx**E Plastic bracket only Modifier option E

Termination	"A"
Туре	Dimension
А	.318 (8.08)
В	.405 (10.29)
С	.590 (14.99)

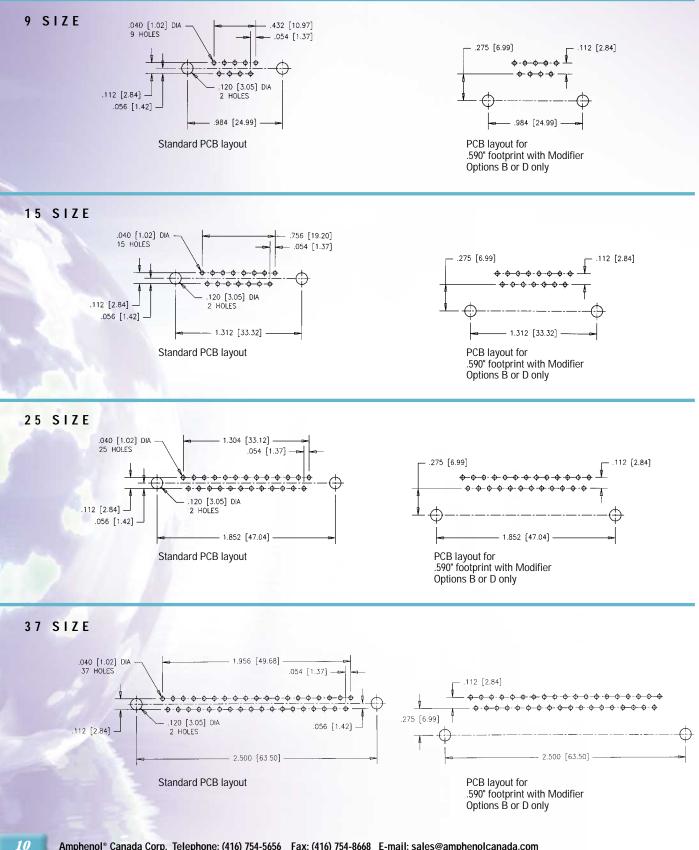


-XXF Alignment Strip Only No bracket or boardlocks Modifier option F

FERRITE Consult Factory for details

FILTERED D-SUB CONNECTORS

PCB Layout



COMBO D-SUB FILTER CONNECTORS

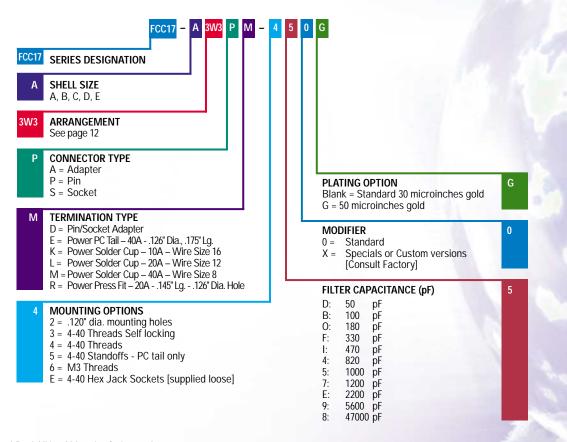
Specifications

Filter Characteristics:	See Page 2
Electrical Data:	See Page 2
Material and Finishes:	See Page 3
Environmental Data:	See Page 3
UL File # :	E135615
CSA File # :	LR68598



These products are protected by U.S. Patent # 4500159

Ordering Information – Combo D-Sub



* For Additional Mounting Options and Filter Capacitance - Consult Factory

COMBO D-SUB FILTER CONNECTORS

Insert Arrangements - Male Front View



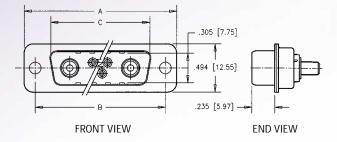
Consult Factory for Additional Arrangements and Polarization

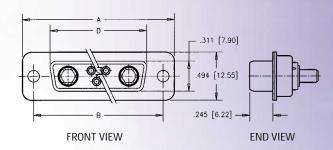


COMBO D-SUB FILTER CONNECTORS

Pin

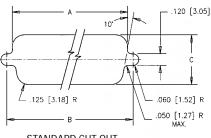
Socket



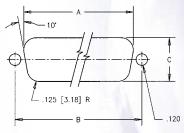


All Dimen	nsions in Inches (m	m)		
Shell Size	A	В	C (for pin conn. only)	D (for socket conn. only)
E	1.213 [30.81]	.984 [24.99]	.666 [16.92]	.643 [16.33]
А	1.541 [39.14]	1.312 [33.32]	.994 [25.25]	.971 [24.66]
В	2.088 [53.04]	1.852 [47.04]	1.534 [38.96]	1.511 [38.38]
С	2.729 [69.32]	2.500 [63.50]	2.182 [55.42]	2.159 [54.84]

Mounting Dimensions



STANDARD CUT-OUT (FOR FRONT MOUNTING)



OPTIONAL CUT-OUT (FOR REAR MOUNTING)

120	[3.05]	DIA	

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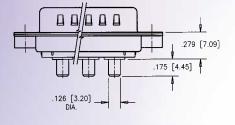
Mounting	А	В	С
Front	.875 [22.23]	.984 [24.99]	.512 [13.00]
Rear	.807 [20.50]	.984 [24.99]	.449 [11.40]
Front	1.200 [30.48]	1.312 [33.32]	.512 [13.00]
Rear	1.134 [28.80]	1.312 [33.32]	.449 [11.40]
Front	1.744 [44.30]	1.852 [47.04]	.512 [13.00]
Rear	1.673 [42.49]	1.852 [47.04]	.449 [11.40]
Front	2.389 [60.68]	2.500 [63.50]	.512 [13.00]
Rear	2.326 [59.08]	2.500 [63.50]	.449 [11.40]
	Front Rear Front Rear Front Rear Front	Front .875 [22.23] Rear .807 [20.50] Front 1.200 [30.48] Rear 1.134 [28.80] Front 1.744 [44.30] Rear 1.673 [42.49] Front 2.389 [60.68]	Front .875 [22.23] .984 [24.99] Rear .807 [20.50] .984 [24.99] Front 1.200 [30.48] 1.312 [33.32] Rear 1.134 [28.80] 1.312 [33.32] Front 1.744 [44.30] 1.852 [47.04] Rear 1.673 [42.49] 1.852 [47.04] Front 2.389 [60.68] 2.500 [63.50]

Consult Factory - Shell Size D

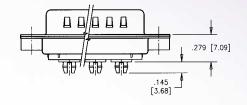
COMBO D-SUB FILTER CONNECTORS

Straight PCB

Press Fit



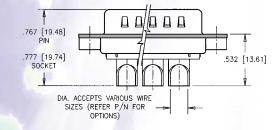
Termination type E



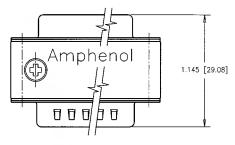
Termination type R

Solder Cup

Adapter – Pin/Socket



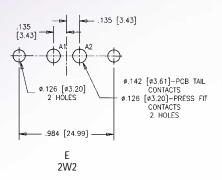
Termination types: K, L, M

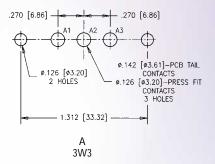


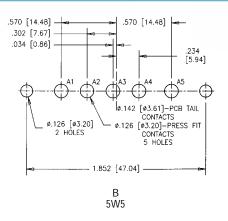
Termination type: D

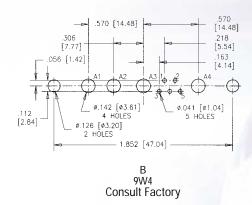
COMBO D-SUB FILTER CONNECTORS

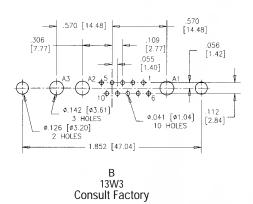
PCB Layout - Straight PCB & Press Fit

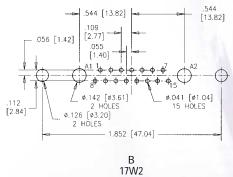








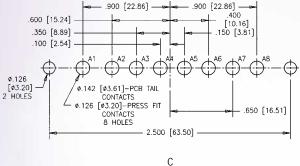




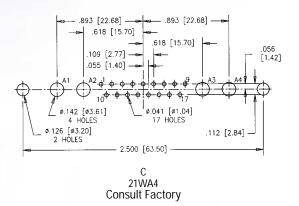
17W2 Consult Factory

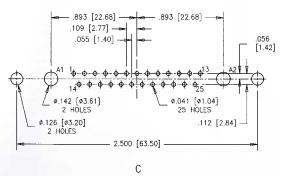
COMBO D-SUB FILTER CONNECTORS

PCB Layout - Straight PCB & Press Fit









27W2 Consult Factory

FILTERED MICRO-RIBBON CONNECTORS

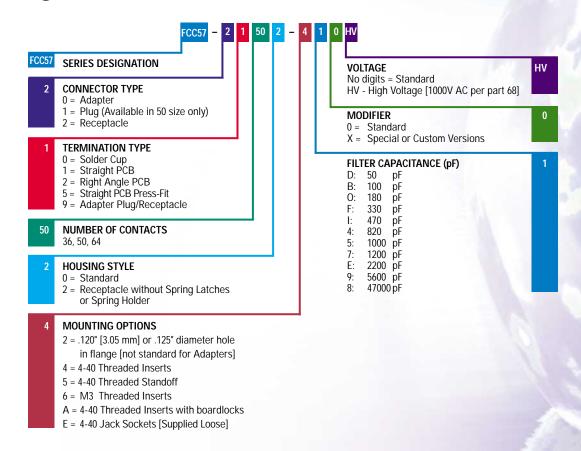
Specifications

Filter Characteristics:	See Page 2
Electrical Data:	See Page 2
Material and Finishes:	See Page 3
Environmental Data:	See Page 3
UL File # :	E135615
CSA File # :	LR68598



These products are protected by U.S. Patent # 4500159

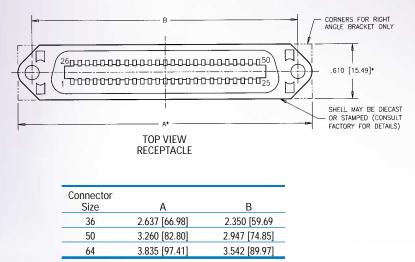
Ordering Information



High voltage capacitors available (contact factory)

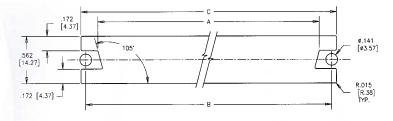
FILTERED MICRO-RIBBON CONNECTORS

Receptacle - 36, 50, 64 Size



Dimensions are different for DieCast Shells Consult Factory for details

Panel Mounting Dimensions - 36 / 50 / 64 size



REAR MOUNT [.050 MAX. PANEL THICKNESS]

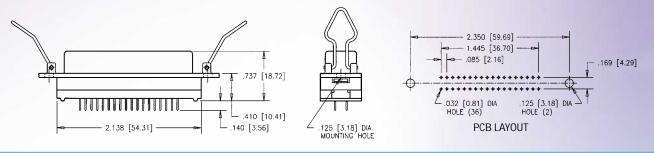
Size A B B 36 2.043 [71.05] 2.350 [59.69] 2.450 [8	
36 2.043 [71.05] 2.350 [50.60] 2.450 [9	
2.043 [71.03] 2.330 [37.07] 2.430 [0	5.20]
50 2.656 [92.36] 2.947 [74.85] 3.062 [10	06.48]
64 3.251 [113.06] 3.542 [89.97] 3.657 [1:	27.18]

FCC57 Series 36 Size

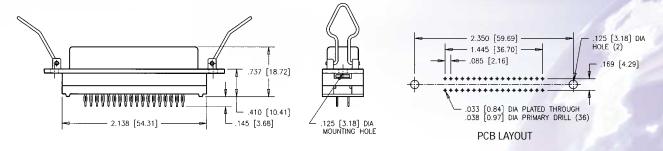
FILTERED MICRO-RIBBON CONNECTORS

Receptacle

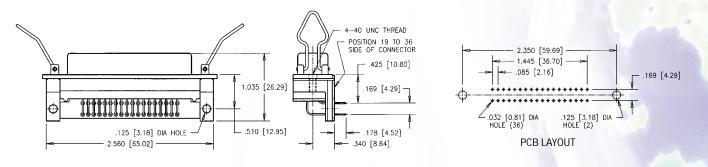
STRAIGHT PCB (FCC57 - 21360 - 1 x 0)



STRAIGHT PRESS-FIT (FCC57 - 25360 - 1 x 0)

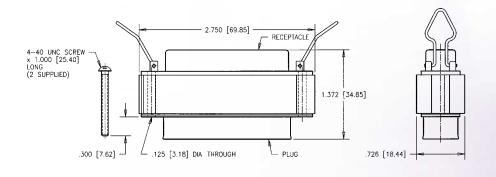


RIGHT ANGLE PCB (FCC57 - 22360 - 1 x 0)



Adapter

PLUG/RECEPTACLE (FCC57 - 09360 - 1 X 0)

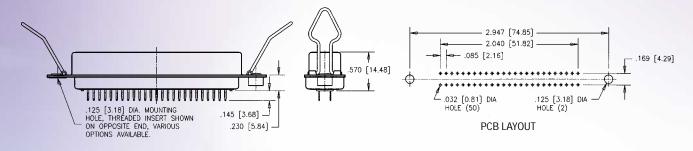


FCC57 Series 50 Size

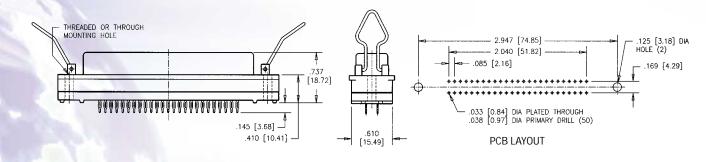
FILTERED MICRO-RIBBON CONNECTORS

Receptacle

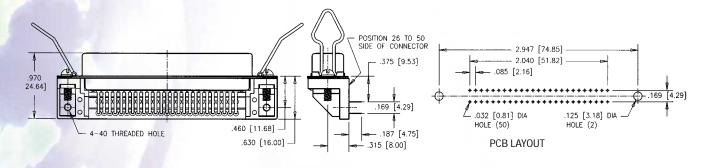
0) STRAIGHT PCB (FCC57 - 21500 - x х



STRAIGHT PRESS-FIT (FCC57 - 25500 - x **x** 0)

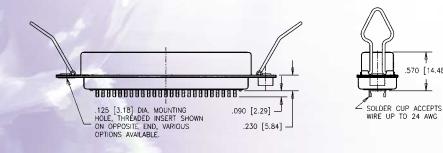


RIGHT ANGLE PCB (FCC57 - 22500 - x 0) х



.570 [14.48]

SOLDER CUP (FCC57 - 20500 - x х 0)

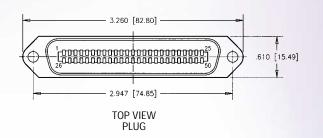




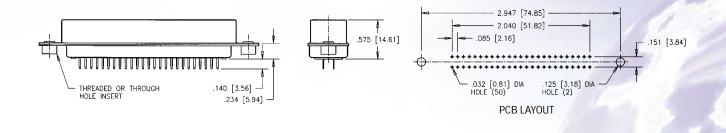
FCC57 Series 50 Size

FILTERED MICRO-RIBBON CONNECTORS

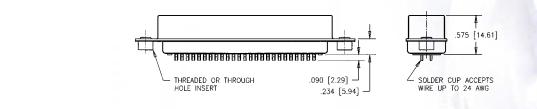
Plug



STRAIGHT PCB (FCC57 - 11500 - x Х 0)

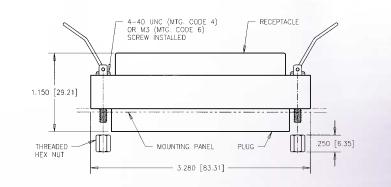


SOLDER CUP (FCC57 - 10500 - x x 0)



Adapter

PLUG/RECEPTACLE (FCC57 - 09500 - x х 0)



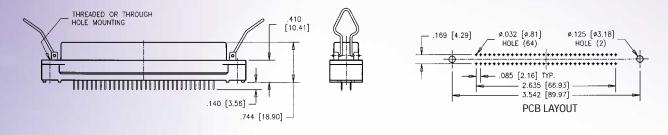
.655 [16.64]

FCC57 Series 64 Size

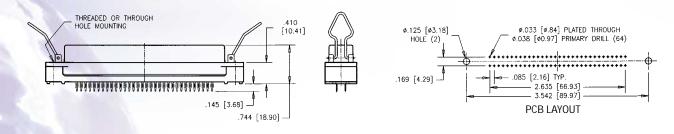
FILTERED MICRO-RIBBON CONNECTORS

Receptacle

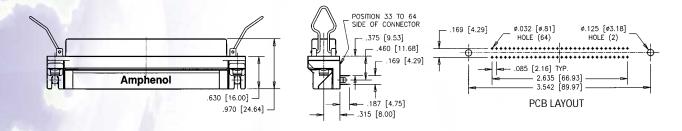
STRAIGHT PCB (FCC57 - 21640 - x 0)



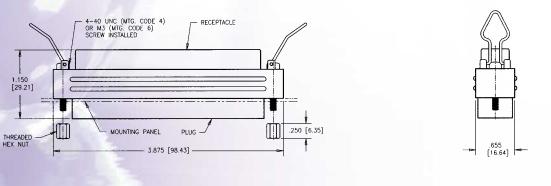
STRAIGHT PRESS-FIT (FCC57 - 25640 - x x 0)



RIGHT ANGLE PCB (FCC57 - 22640 - x x 0)



ADAPTER* (FCC57 - 09640 - x x 0)



*Consult Factory

22 Amphenol* Canada Corp. Telephone: (416) 754-5656 Fax: (416) 754-8668 E-mail: sales@amphenolcanada.com Downloaded from Elcodis.com electronic components distributor

456 Series

CAPACITIVELY DECOUPLED RF CONNECTORS

Specifications

Mechanical Data:	
Shell:	Zinc Diecast or Brass; Nickel plated
Insulator Body:	Thermoplastic
Contact Insulator:	Nylon or Teflon
Center Contact:	Phosphor Bronze or Berylium Copper; Gold plated (456-107S is silver plated)
UL File # : CSA File # :	E135615 LR68598

Filter Performance:

Capacitance		10,000 pF
Working Voltage		200 VDC (500AC Rear Mt)
DWV		600 VDC (1000VDC for Rear Mt)
Filter Insertion Loss (dB)	1 MHz	4
(per MIL-STD-220	5 MHz	16
@ 25°C and	10 MHz	18
no load)	30 MHz	25
	50 MHz	30
	1000 MHz	30

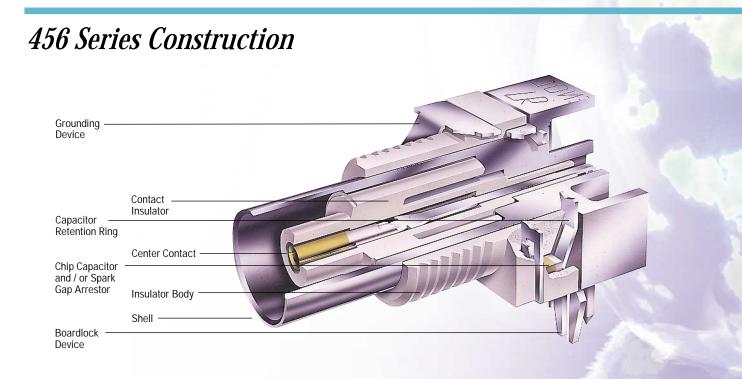
* OTHER CAPACITANCE VALUES ARE AVAILABLE. CONSULT THE FACTORY FOR DETAILS.



These products are protected by U.S.Patent # 4,772,221.

Amphenol's 456 Series of RF connectors provides capacitive decoupling between the connector body and the mounting panel. EMI on the coaxial shield is shunted to the chassis ground through capacitors, while not affecting the DC and power supply frequencies. This reduces ground loop problems and provides a mechanism to harmlessly dissipate ESD to chassis ground.

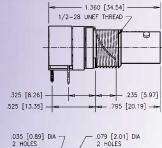
The RF parameters of these connectors are the same as their non-filtered counterparts. Filtering does not affect the signal contact, but only the shell-to-ground connection. Capacitively decoupled RF connectors are intermateable and inter-changeable with standard non-filtered versions.

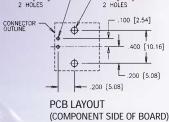


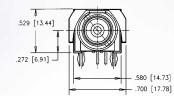
456 Series

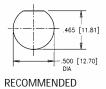
CAPACITIVELY DECOUPLED RF CONNECTORS

Rear Mount BNC, Right Angle, PCB





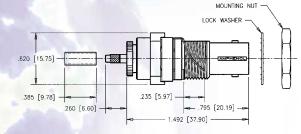




RECOMMENDED PANEL CUT-OUT

Туре	50 Ω	75 Ω
Filtered	456-117	456-717
Filtered (10,000pF), 1000V Spark Gap	456-117S	456-717S
Filtered (10,000pF), 1000V Spark Gap, 1 M Ω Resistor	456-117F	456-717F
Grounded	456-117G	456-717G
Non-Filtered. Panel Insulated (no ground spring)	456-117NF	456-717NF

Rear Mount BNC, Crimp, Cable Size RG179



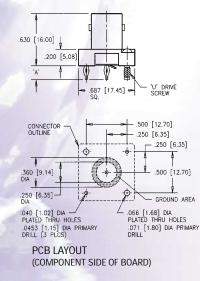


PANEL CUT-OUT

Туре	50 Ω	75 Ω
Filtered	456-208	456-218
Grounded	456-208G	456-218G

Note: Also available with Spark gap and / or resistor * Other Cable Sizes Available. Consult Factory.

Vertical Mount BNC, Press-Fit



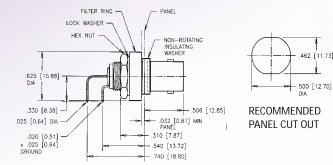
Туре	50 Ω	75 Ω	Board Thickness	"A"
Filtered		456-107A	.125 (3.18)	.170 (4.32)
Non-Filtered		456-107ANF	.125 (3.18)	.170 (4.32)
Filtered		456-107B	.200 (5.08)	.255 (6.48)
Non-Filtered		456-107BNF	.200 (5.08)	.255 (6.48)

-- Consult Factory for Part Number

456 Series

CAPACITIVELY DECOUPLED RF CONNECTORS

Front Mount BNC, Right Angle PCB

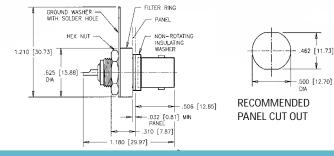


50 Ω	75 Ω
	456-107
	50 Ω

- - Consult factory for part number

Front Mount BNC packaging consists of connector, insulating washer, filter ring, lock washer and hex nut.

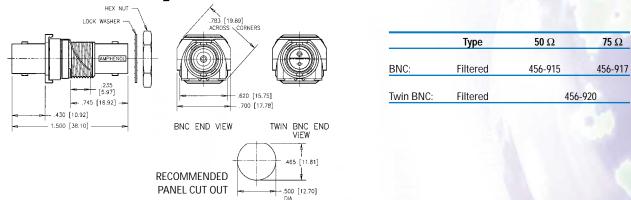
Front Mount BNC, Solder-Cup



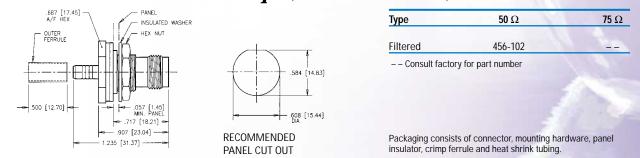
Туре	50 Ω	75 Ω
Filtered	456-107SG	456-107TG
456-107S has silve	er plated contact (50 Ω).	
* Overall part leng 1.180 (29.97) for 1.245 (31.62) for		

Front Mount BNC packaging consists of connector, insulating washer, filter ring, ground washer and hex nut.

Jack-to-Jack Adapter



TNC Bulkhead Jack, Crimp (RG58/U Cable)



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LOOO110 LOO110 DATA /TELECOM PRODUCTS 10110 20 Melford Drive Scarborough, Ontario 10111 Canada M1B 2X6 10110 Telephone 416 754-5656 10010 Facsimile 416 754-8668 10001101110001	100 001 001 100 000 111 0000 0101 100
	0010 0011 1001 0000 1111 0000 0101
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