

HEADERS & SOCKETS MASS-TERMINATED IDC CONNECTORS

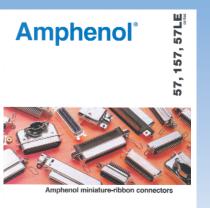
IDC

Connectors

RJ Modular Jacks



FCC Filtered Connectors



Miniature **Ribbon Connectors**

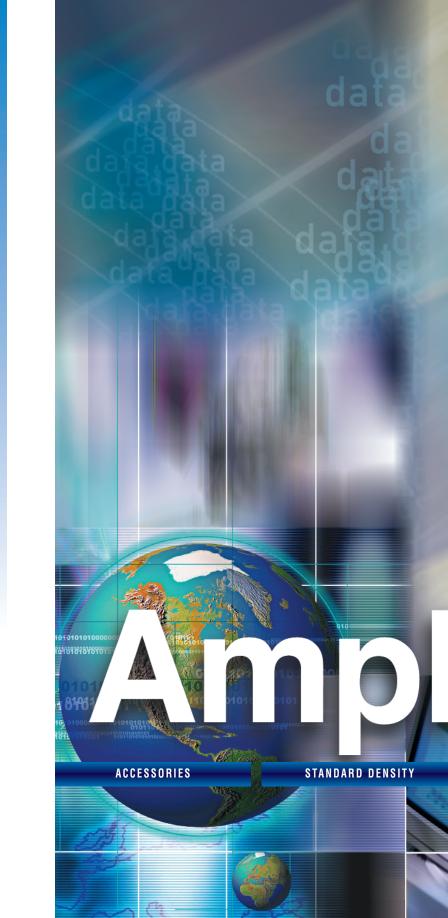


Data / Telecom Products

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Telephone: (416) 754-5656 Facsimile: (416) 754-8668 Email: sales@amphenolcanada.com Website: www.amphenolcanada.com © Amphenol Canada Corp. Specifications subject to change without notice. Designed by K Jasper Marketing Communications Inc.

D-SUBMINIATURE CONNECTORS



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SURFACE MOUNT RECEPTACLES

HIGH DENSITY

GENERAL DESCRIPTION:

Amphenol's line of D-Subminiature rack and panel connectors is part of an industry standard for applications requiring reliable, rugged, connectors. These connectors are designed to accommodate rack and panel, cable to panel and cable to cable applications. D-Subminiature connectors are pin and socket devices that employ contacts encased in a molded dielectric insert surrounded by a "D" shaped shell for polarization.

MARKETS:

Amphenol D-Subminiature connectors can be used in commercial, industrial or military markets. We offer a broad selection of dielectric materials and contact styles and configurations to meet all of your design requirements.

APPLICATIONS INCLUDE:

- Business equipment
- Electronic office systems
- Data communications
- Medical equipment
- Mobile communications
- Consumer electronics

AMPHENOL D-SUB FEATURES:

- Industry standard interfacing RS232 and RS449 mating configurations per EIA standards.
- UL Component Recognition File number E64911 (617, 841, 17, 17D, 17HD, ED, 17RR, 17SD, 117DF, 17BH, 17TW
- Variations available: Solder cup
 Straight pc mount solder
 Right angle pc mount solder
 Solderless wire wrap
 Crimp
 High Density Right Angle
 High Density Straight
 Stacked Right Angle PC mount
 Surface mount
- Five shell sizes offer widest choice of contact positions: 9, 15, 25, 37 and 50 in standard density and 15, 26, 44, 62 and 78 positions in high-density.
- Inserts are flame-retardant thermoplastic.
- Accessories for all applications are available including strain reliefs, cable clamps, shielded backshells, mating hardware and connector to pc board mounting hardware.
- Automatic and manual tooling is available for both crimp and IDC versions.
- Contact Amphenol for lease information.

High Density

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SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells	Steel, tin plated, grounding indents on plug.
Contact Material	Copper alloy
Contact Plating	Engagement area: gold (see ordering information).
Termination End	150µ" (3.81µm) tin/lead
Nickel Underplate	50µ" (1.27µm) entire contact

ELECTRICAL DATA

3 Amps maximum per contact
125 VAC
1000 VAC (minimum)
Glass filled thermoplastic,
black, UL 94 VO
5,000 Megaohms (minimum)
15 Milliohms (maximum)

CLIMATIC DATA

Operating Temperature

-67°F (-55°C) to 221°F (105°C)

17E BH/HD SERIES

Amphenol's High Density D-Subminiature connectors compleme nt Amphenol's extensive D-Subminiature connector line. This line of connectors offers many superior features, high performance level and low installation cost.

ahhhhhhhhhhh

The connector configurations are available in 15, 26, 44, 62 and 78 positions.

The product offering includes PCB mount connectors in both straight or right angle termination styles. Straight PCB mount are available in both Fixed Screw Machine and Stamped and Formed contacts, while Right Angle PCB mount are only available with Stamped and Formed contacts.

A cable mount version with solder terminations is also available, which can be combined with Amphenol's standard line of shielded or unshielded backshells.

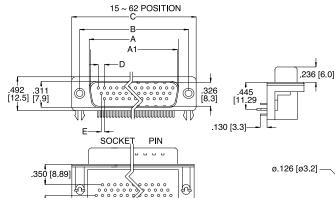
Industrial
Telecom
Any industrial

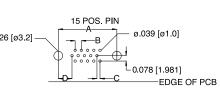
• Any industry standard I / O connections

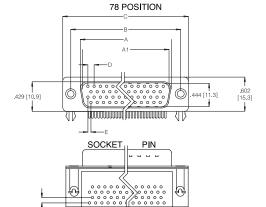
INCHES (MM)

High Density / Right Angle, PC Mount Front Metal Shell, .350 (8.89) Footprint / Fixed Contact

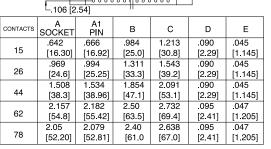
DIMENSIONS FOR 15 - 62 POSITION (3 ROW)(SHOWN WITH FIXED FEMALE SCREWLOCKS) DIMENSIONS FOR THE 78 POSITION (4 ROW)

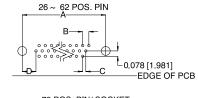


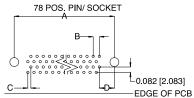




200 [5.08]

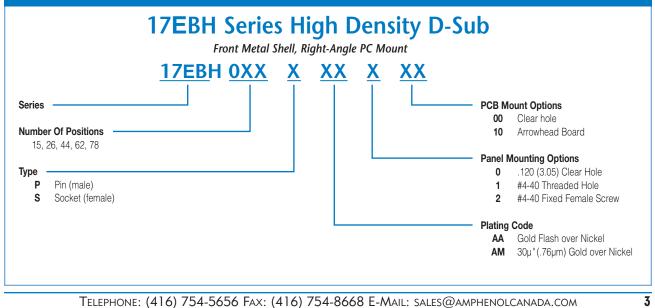


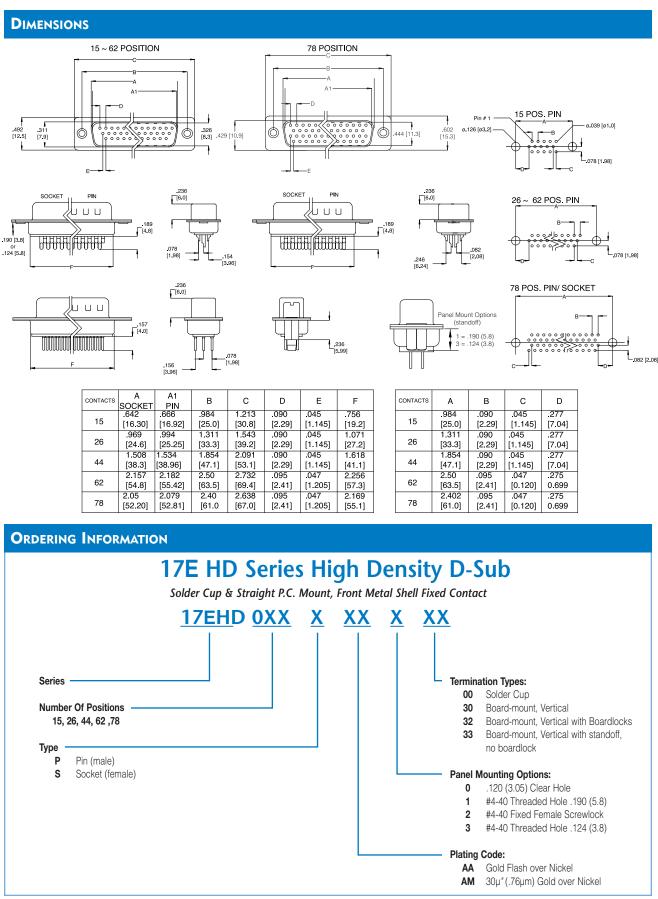




CONTACTS	A	В	С	D
15	.984	.090	.045	.277
	[25.0]	[2.29]	[1.145]	[7.04]
26	1.311	.090	.045	.271
	[33.3]	[2.29]	[1.145]	[6.88]
44	1.854	.090	.045	.271
	[47.1]	[2.29]	[1.145]	[6.88]
62	2.50	.095	.047	.275
	[63.5]	[2.41]	[1.205]	[7.00]
78	2.402	.095	.047	300
	[61.0]	[2.41]	[1.205]	[7.63]

ORDERING INFORMATION





INCHES (MM)

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

Right-Angle Board Mount Connectors Front Metal Shell

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells Contacts **Contact Plating** Contact Forces

Steel, tin plated Precision formed copper alloy Gold over nickel Engagement: 12 oz. max. (340.2 g) Separation: .75 oz. min. (21.26 g)

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ELECTRICAL DATA

Current Rating Dielectric Withstanding Voltage Dielectric

5 amps 1000 VAC/60 sec. Glass filled thermoplastic, black, UL 94 VO 15 milliohms max.

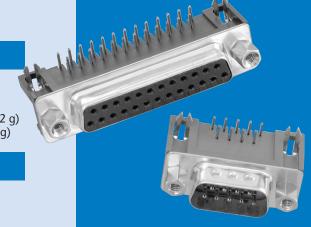
CLIMATIC DATA

Contact Resistance

Temperature Range

-67°F (-55°C) to 221°F (105°C)

6E17 SERIES



Amphenol's 6E17 series of right angle commercial connectors provide high performance at competitive prices.

The front metal shell helps to provide reduced EMI/ RFI emissions, and the contacts are selectively plated to provide additional high performance. The 6E17 series are available in a variety of board mounting and grounding options including arrowhead boardlocks and #4-40 threaded inserts.

Front mounting holes are also available threaded, un-threaded and with installed female hex screwlocks.

> • Industrial • Telecom

• Any industry standard

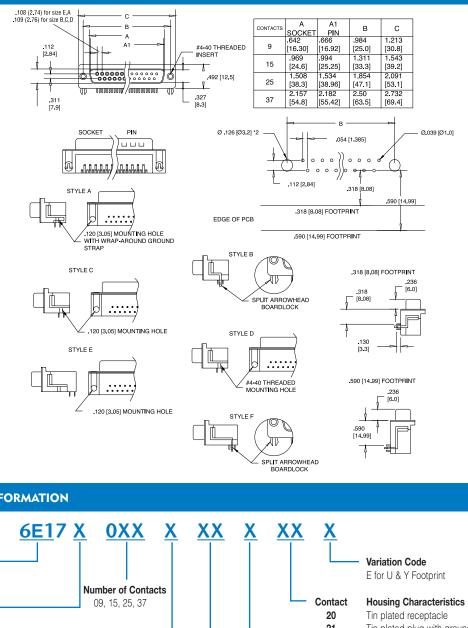


INCHES (MM)

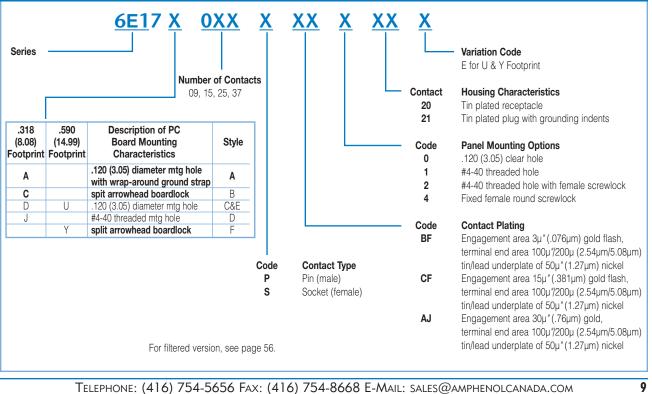
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Right-Angle Board Mount Connectors Front Metal Shell

DIMENSIONS



ORDERING INFORMATION



Dual Port Connectors

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells Contacts Contact Plating Contact Forces

Steel, tin plated Precision formed copper alloy Gold over nickel Engagement: 12 oz. max. (340.2 g) Separation: .75 oz. min. (21.26 g)

ELECTRICAL DATA

Current Rating5 ampsDielectric Withstanding Voltage1000 VAC/60 sec.DielectricGlass filled thermoplastic,
black, UL 94 VO15 milliohms max

15 milliohms max.

CLIMATIC DATA

Contact Resistance

Temperature Range

-67°F (-55°C) to 221°F (105°C)

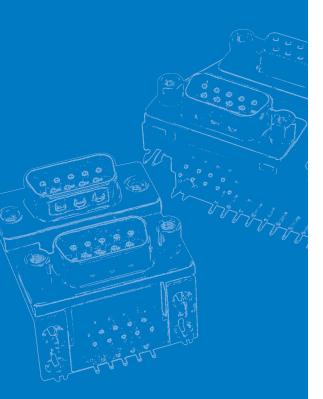
6E17 H SERIES

Amphenol's 61E7 series dual port connectors are a state of the art design. The front metal shell helps reduce EMI/RFI emissions.

Contacts are selectively plated for high performance at a low cost.

Designed to save PC board space, Amphenol's dual port "D" provides two input output connectors in a minimal amount of board space.

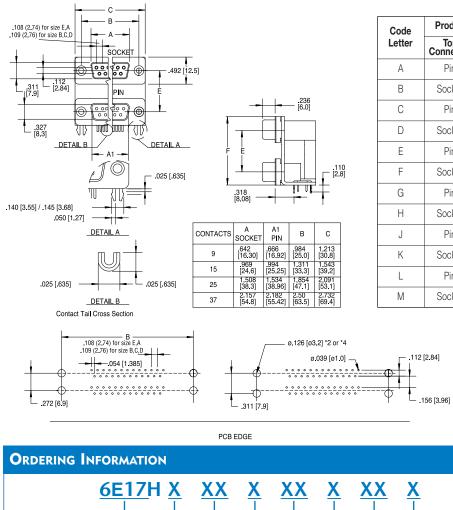
These connectors are available with various stacking options: same gender, mixed gender and multiple pin counts.



INCHES (MM)

Dual Port Connectors

DIMENSIONS



	Dual port; right angle so	older tail			
Code	Boardlock -				
C 0	Boardlock op No PC board				
Code	Number of C	ontacts -] [
18	2 x 9	15	15 over bl	lank	
30	2 x 15	34	9 / 25		
50	2 x 25	43	25/9+9		
74	2 x 37	H15A	VGA / Trip	le Audio	
40	15 / 25				
Consul	t factory for o			<i>gurations</i> Product De	escription
58.06	6) (19.05)	•	,	Top Connector	Bottom Connector
58.06 (22.86 Spacir	, , ,	j opuoi			Pin
(22.86	, , ,	J		Pin	1.01
(22.86 Spacin	ng Spacing	, ,		Pin Socket	Socket
(22.86 Spacin A	ng Spacing E	J			

Code	Product D	Product Description		Dimensions	
Letter	Top Connector	Bottom Connector	Е	F	
А	Pin	Pin			
В	Socket	Socket	0.900 ± 0.010	1.415	
С	Pin	Socket	(22.86 ± 0.25)	(35.94)	
D	Socket	Pin			
E	Pin	Pin		1.265 (32.13)	
F	Socket	Socket	0.750 ± 0.010		
G	Pin	Socket	(19.05 ± 0.25)		
Н	Socket	Pin			
J	Pin	Pin			
K	Socket	Socket	0.625 ± 0.010	1,140	
L	Pin	Socket	(15.88 ± 0.25)	(28.96)	
Μ	Socket	Pin			

L Variation Code L for .311 (7.89) Footprint

- Code Housing Characteristics 00 Steel shell, tin plated receptacles without grounding dimples (options B, F, K) 01 Steel shells, tin plated plugs with grounding dimples (options A, E, J) 03 Steel shells, tin plated, plug shell with grounding dimples and receptacle shell without dimples (options C,G,L,D,H,M) Code Panel Mounting Options 120" clear hole 0 1 #4-40 threaded hole #4-40 threaded hole with female screwlock 2 ----- Code Contact Plating BF Engagement area 3µ" (.076µm) gold flash, terminal end area 100µ"/200µ" tin/lead, (2.54µm/5.08µm) tin/lead underplate of 50µ" (1.27µm) nickel CF Engagement area 15µ" (.381µm) gold flash, terminal end area 100µ"/200µ" (2.54µm/5.08µm) tin/lead underplate of 50µ" (1.27µm) nickel AJ Engagement area 30µ" (.76µm) gold, terminal end area 100µ"/200µ (2.54µm/5.08µm) tin/lead underplate of 50µ" (1.27µm) nickel 11
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TELEPHONE: (416) 754-5656 FAX: (416) 754-8668 E-MAIL: SALES@AMPHENOLCANADA.COM

High Temperature Straight Board Mount Connectors

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells Contacts Contact Plating Steel/nickel plated Precision formed copper alloy Gold over nickel

ELECTRICAL DATA

Current Rating Voltage Rating Dielectric

5 amps 600 V Glass filled thermoplastic, black, UL 94 VO 10 milliohms (max.)

CLIMATIC DATA

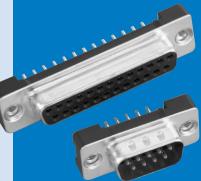
Contact Resistance

Temperature Range

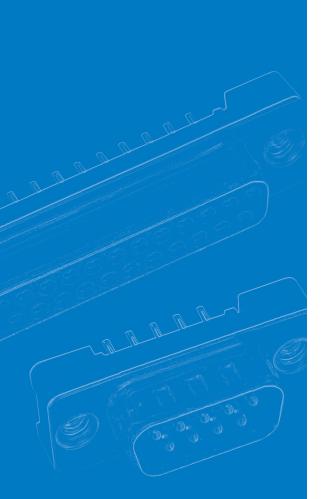
Process Compatibility

Environmental: -67°F (-55°C) to 302°F (150°C) IR-Air Convection 500°F (260°C) for 20 seconds

6E17S SERIES



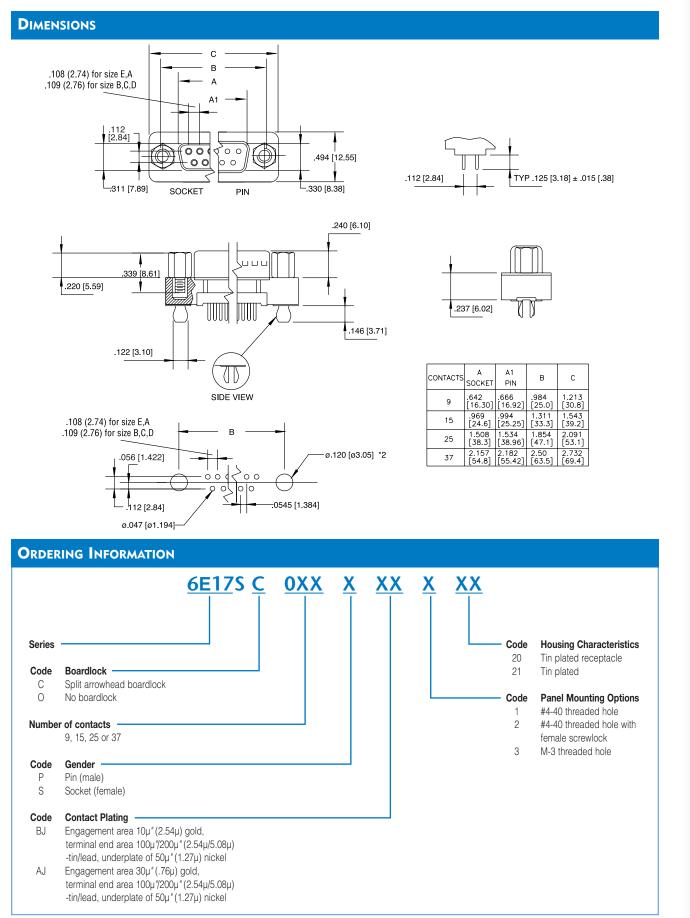
Amphenol's high temperature, low profile D-Sub connector gives you a high quality, reliable commercial connector to meet today's market demands.



INCHES (MM)

6E17S SERIES

High Temperature Straight Board Mount Connectors



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STANDARD AND HIGH DENSITY WATERPROOF CONNECTORS

CHARACTERISTICS

Materials and Platings

Shells	Steel 2.5µm(100µ") min tin over 1.25µm(50µ") min nickel
Body	Glass-filled thermoplastic
	Flame retardant to UL94 V-0 Color Black
Contacts	Copper alloy(Brass for plug, Phospher bronze for socket)
	gold over 1.25µm(50µ") min nickel
Boardlock	Copper alloy, 100µ" min. sn over 50µ" min. nickel.
Standoff	Copper alloy, 100µ" min. sn over 50µ" min. nickel.

Electrical Data

Current rating	5.0A
Voltage rating	300V rms at 50Hz
Insulation resistance	>5000MΩ
Contact resistance	20mΩ Max.

Climatic Data

Operating temperature	-55°C to +85°C
Salt spray	48 hours
Waterproof rating	IP 67 minimum

Mechanical Data

Mating and unmating force Unit: kg (lb)

No. o	f Cts	ED		EI	HD
ED	EHD	Mate (max)	Unmate (min)	Mate (max)	Unmate (min)
9	15	3.05 (6.74)	0.36 (0.79)	3.81 (8.42)	0.52 (1.14)
15	26	5.09 (11.24)	0.46 (1.01)	5.95 (13.16)	1.05 (2.32)
25	44	8.44 (18.66)	0.81 (1.80)	9.26 (20.46)	1.37 (3.02)
Mating	Aating cyclesGold flash: 100 cycles0.76μm (30μ"): 500 cycles				



The 17ED and 17EHD series are suitable for waterproof applications.

The machined contacts provide robustness and reliability.

This series offers:

- Panel mount connectors with solder cup, straight and right angle PCB terminations.

Connectors are waterproof unmated.

Harsb environment connectors

Marine electronic devices

- Industrial electrical
- Security MonitoringRobotics
- Lighting systems

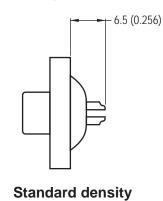


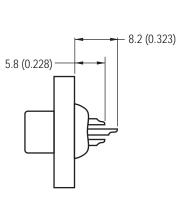
ED-EHD





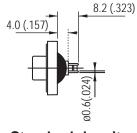
Solder cup (blank) :

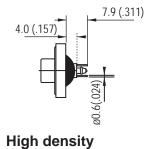




High density

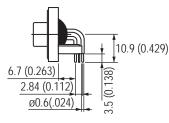
Straight PCB with standoff and boardlocks:

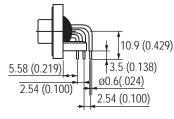




Standard density

Right angle PCB with brackets and boardlocks:

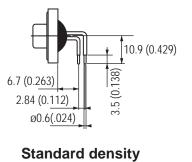


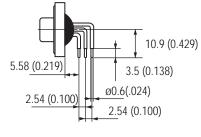


Standard density

High density

Right angle PCB without brackets and boardlocks:

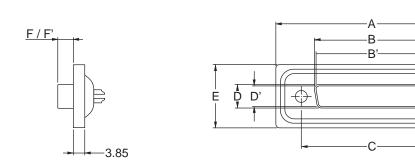


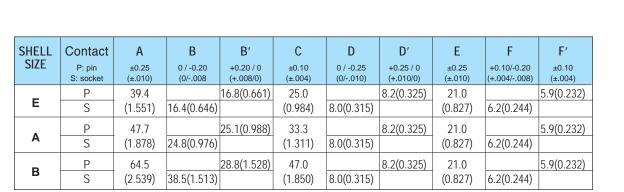


High density



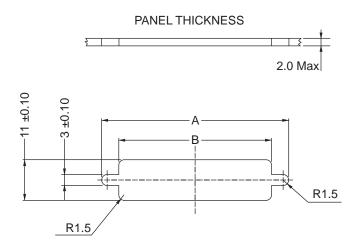
Shell Size Dimensions





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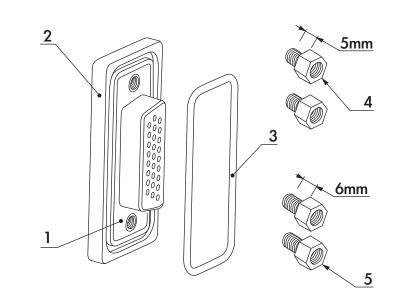
Panel cutouts



SHELL	А	В
SIZE	±0.10(±.004)	0 / -0.10(0 /004)
E	28.8 (1.111)	20.0 (0.788)
Α	36.5 (1.438)	28.0 (1.103)
В	51.0 (2.009)	41.5 (1.635)

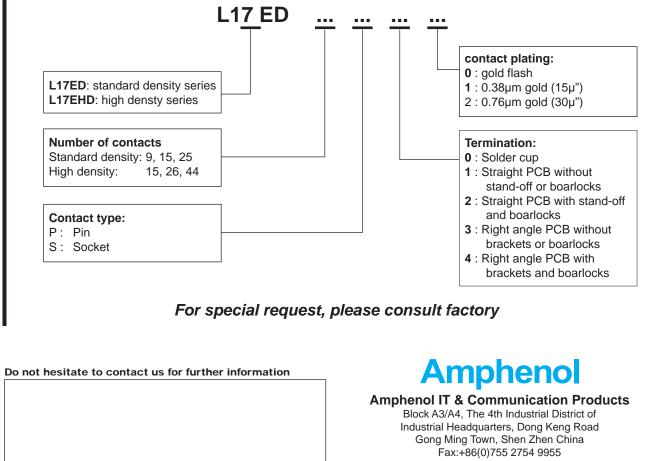


connector Dimensions



NO	NO Description Material		Qty
2	2 Housing Black thermoplastic UL 94-VO		1
1	Front shell	Steel tin plated	1
3	Ring	Silicone	1
4	#4-40 Front screw lock	Brass tin plated	2
5	#4-40 Front screw lock	Brass tin plated	2





Technical Support Tel:+86(0)755 2717 7945 Info-dsub@amphenol.com.cn http://www.dsubconnector.com



Hybrid D'Sub series



Specifications • Connectors acc

• Connectors according to: MIL C24308 - NFC93425 - HE507

Mate	erials and platings	Electrical Da	ata
Shells	Steel-Tin plating	Current rating	
Insulators H	igh temperature black thermoplastic	Signal contacts	7.5 A. with 10 A. peaks
Signal contacts Material Plating finish Or Shielded contacts Material Plating Inner conductor Outer ring Terminations Except solder cup Power contacts Material Plating Contacts Terminations Except solder cup Brackets Front jackscrews	Female: machined bronze Male: machined brass 16μ "Au over 79μ" Ni min. 30μ" Au over 79μ" Ni min. Female: machined bronze Male: machined bronze Male: machined brass 16μ "Au or 30μm Au over 79μ" Ni Tinned and crimp terminations gold flash Female: machined bronze Male: machined brass 16μ "Au or 30μ" Au over 79μ" Ni Tinned and crimp terminations gold flash Steel-Tin plating Brass-Tin plating	Power contacts PCB terminations Solder cup terminations Crimp terminations Shielded contacts Voltage rating Signal and power contacts Shielded contacts Shielded contacts Frequency range Attenuation V. S. W. R. Characteristic impedance Dielectric withstanding voltage	10 to 40 A. 10 to 40 A. 10 to 40 A. 0.5 A.
Rear clinch nuts Boardlocks	Brass-Tin plating		
Stand-off	Bronze-Tin plating Brass-Tin plating		

Climatio	: Data	Mechanical data				
Operating temperature	-55°C + 155°C	Shells With or without dimples				
Dama haat	(with peaks up to 180°C)	Contact retention force in dielectric material > 40N				
Damp heat Salt spray	56 days (40°C - 95% HR) 48 hours	Maximum mating and unmating force				
San spray	40 11001 5	With dimples E size = 70 N				
		A size = 80 N B size = 100 N C size = 150 N D size = 180 N Without dimples E size = 30 N A size = 50 N B size = 80 N C size = 120 N D size = 160 N				
		Compatible with process IR - Air convectioned 260° for 20 s.				
محصالا		Resistance to solder iron heat 260°C for 30 s.				
		Mating cycles ≥ 200 (classe II) or 500 (classe I)				
		Blind mating system Available upon request				
		Polarization Available with locking accessories Consult factory				

Amphenol D'Sub TW Hybrid Series permits a mix of contacts including signal, power, shielded, high voltage and fiber optics in the same housing with 18 different contacts arrangements.

This economic series was fist developed from our military series, and has improved features: - new contacts

- new high temperature black thermoplastic insert

- PCB configurations come preloaded with fixed contacts and brackets.

These connectors are supplied with screw machined contacts which are fixed in the insulator.

Acomplete range of housings are also available for cable application.

A full range of arrangements compatible with reflow process

- Commercial
- MedicalIndustrial
- Telecom
- Any application requiring
 optimization of space



TW/E1



Sheh and contacts plating

CLASS II 0.4µm (16µ") Au contacts gold plating 200 mating cycles

Types	Shells and plating
77 TW	Tin plated shell * <i>Male and female</i>
717 TW	Tin plated shell with dimples <i>Male only</i>

CLASS I 0.76μm (30μ") Au contacts gold plating 500 mating cycles

Types	Shells and plating
177 TW	Tin plated shell * <i>Male and female</i>
777 TW	Tin plated shell with dimples <i>Male only</i>

Housing arrangements

Male front view

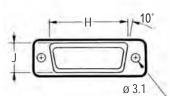
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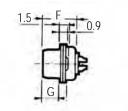
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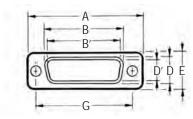
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Arrangement Shell size	ری کی کی 5W1 E	(*************************************	(1000 (1000)) (11W1 A
Arrangement	3W3	5W5	(▲) ▲) ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
Shell size	A	B	
Arrangement	13W3	17W2	21W1
Shell size	B	B	B
Arrangement	27W2	13W6	(*************************************
Shell size	C	C	
Arrangement	21W4	8W8	25W3
Shell size	C	C	C
Arrangement	24W7	36W4	(1000000000000000000000000000000000000
Shell size	D	D	

Shell Size unitensions

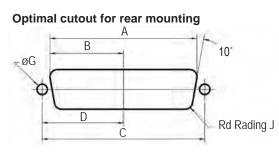


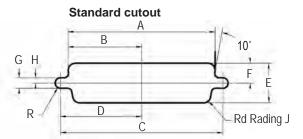




Shell size	Contact P: Pin S: Socket	A ±0.25 (±.010)	B 0/-0.20 (0/008)	B' +0.20/0 (+.008/0)	C ±0.10 (±.004)	D 0/-0.25 (0/010)	D' +0.25/0 (+.010/0)	E ±0.20 (±.008)	F +0.05/-0.20 (+.002/008)	F' +0.10/-0.20 (+.004/008)	G +0.10/-0.20 (+.004/008)	G' ±0.10 (±.004)	H +0.10/-0.40 (+.004/016)	J 0/-0.50 (0/020)
E	Р	30.7		16.8 (.661″)	25.0		8.2 (.323")	12.4		10.9 (.429")		5.9 (.232")	19.4	11.0
E	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
B	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
C	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")		(2.185")	(.543″)

Panel cutouts



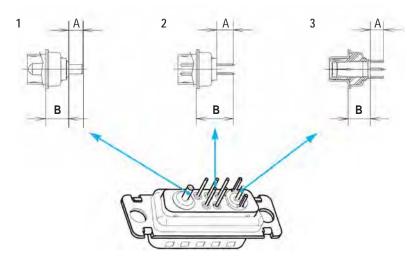


Shell size	Mounting method	A ±0.20 (±.008)	B ±0.20 (±.008)	C ±0.20 (±.008)	D ±0.20 (±.008)	E ±0.20 (±.008)	F ±0.20 (±.008)	G ±0.20 (±.008)	H ±0.20 (±.008)	J ±0.20 (±.008)
E	Front	22.2 (.874″)	11.1 (.437″)	25.0	12.5	13.0 (.512″)	6.5 (.256″)	3.0	1.5	2.1 (.083")
	Rear	20.5 (.807″)	10.2 (.402″)	(.984″)	(.492″)	11.4 (.449″)	5.7 (.224″)	(.118")	(.059")	3.4 (.0134")
Δ	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")
D	Front	44.3 (1.744″)	22.1 (.870")	47.0	23.5 (.925")	13.0 (.512″)	6.5 (.256″)	3.0 (.118″)	1.5 (.059″)	2.1 (.083")
В	Rear	42.5 (1.673″)	21.3 (.839")	(1.850″)		11.4 (.449″)	5.7 (.224″)			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″)
C	Rear	59.1 (2.327″)	29.5 (1.161")	(2.500")	(1.248")	11.4 (.449″)	5.7 (.224″)	(.118")	(.059")	3.4 (.0134")
	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″)
D	Rear	56.3 (2.217")	28.2 (1.110″)	(2.406")	(1.205")	14.1 (.555″)	7.1 (.280″)	(.118")	(.059")	3.4 (.0134")



TW/E1

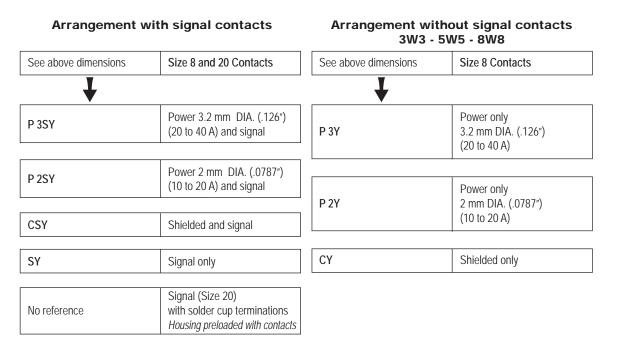
Straight connector houphint



Signal tail 0.6 mm Dia. (.0236") 1.6 mm (.063")PCB For other PCB thickness: consult factory.

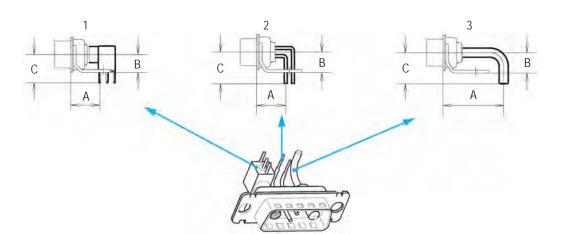
Description		Dimensions				
Decomption		а	b			
Power (.126" tail dia.)	1	4.80 mm (.198")	7.2 mm (.283")			
Power (.0787" tail dia.)	1	4.80 mm (.198")	7.2 mm (.283")			
Shielded	3	4.00 mm (.157")	7.2 mm (.283")			
Signal	2	5.00 mm (.196")	11.50 mm (.453")			

Straight contact combinations



Amphenol **b**

Right angle connector rootprint



Signal tail 0.6 mm Dia. (.0236") 1.6 mm (.063") PCB For other PCB thickness: consult factory.		Europe HE 5 pattern = - Europ. height - Europ. footprint pitch between 2 rows: .100"			Mix Mixed pattern = - MIL height - Europ. footprint pitch between 2 rows: .100"			MIL MIL pattern = - MIL height - MIL footprint pitch between 2 rows: .112"		
Description		a	b	С	a	b	С	a	b	С
Shielded	1	-	-	-	10.30mm (.406")	6.30mm (.248")	10.00mm (.394″)	10.30mm (.406")	6.30mm (.248")	10.00mm (.394″)
Signal	2	10.30mm (.406")	7.20mm (.283")	11.20mm (.441")	10.30mm (.406")	6.30mm (.248")	9.50mm (.374″)	8.10mm (.319")	6.30mm (.248")	9.50mm (.374″)
Power (.0787" tail dia.)	3	11.57mm (.456″)	7.20mm (.283")	10.50mm (.413″)	11.57mm (.456″)	6.30mm (.248")	9.50mm (.374″)	9.52mm (.375″)	6.30mm (.248")	9.50mm (.374″)
Power (.126" tail dia.)	3	21.46mm (.845″)	7.20mm (.283")	10.50mm (.413″)	21.46mm (.845″)	6.30mm (.248")	9.50mm (.374")	21.46mm (.845″)	6.30mm (.248")	9.50mm (.374″)

Note: above dimensions correpond to sizes E to C. Consult factory for D sizes. Connector comes equiped with contacts and brackets.

Right angle contacts combinations

Arrai	ngement	with sign	al contacts	Arrangement without signal contacts 3W3 - 5W5 - 8W8					
European footprint	Mixed footprint	MIL (U.S.) footprint	Size 8 and 20 Contacts	European footprint	Mixed footprint	MIL (U.S.) footprint	Size 8 contacts only		
ł	¥	¥		¥	¥	¥	·		
EP3SV	HP3SV	MP3SV	Power 3.2 mm P3SV DIA. (.126") (20 to 40 A) and signal		HP3V	MP3V	Power only 3.2 mm DIA. (.126") (20 to 40 A)		
EP2SV	HP2SV	MP2SV	Power 2 mm DIA. (.0787") (10 to 20 A) and signal	EP2V	HP2V	MP2V	Power only 2.0 mm DIA. (.0787") (10 to 20 A)		
-	HCSV	MCSV	Shielded and signal	-	HCV	MCV	Shielded only		
ESV	HSV	MSV	Signal only						

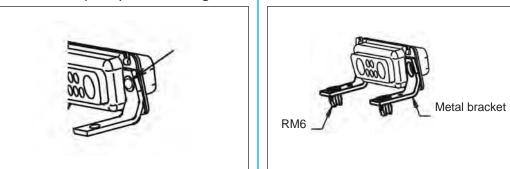
DA TECHNICA

TW/E1

mounting options

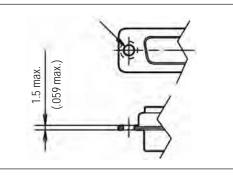
Right angle version Connectors come equiped with metal brackets

BLANK: 3.10mm (.122") dia mounting hole RM6: metal brackets + boardlock

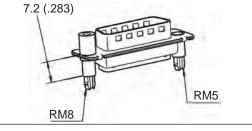


Straight version

BLANK: 3.10mm (.122") dia mounting hole



RM54: RM5 4.40 threaded RM53: RM5 M3 threaded

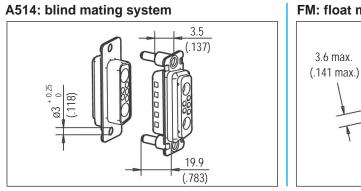


ø2.2 (.086)

RM84: RM8 4.40 threaded RM83: RM8 M3 threaded

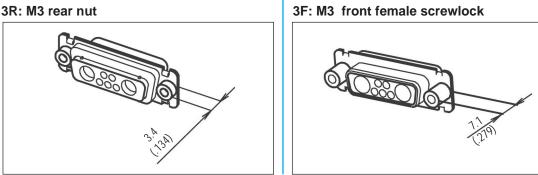
4F: 4.40 front female screwlock

FM: float mounting system



Straight and right angle version

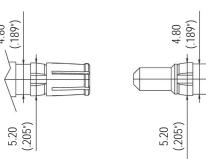
4R: 4.40 rear nut 3R: M3 rear nut



Amphenol o

night power contacts

4.80 189″)

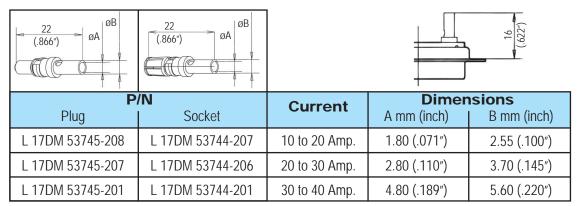


Solder cup version

22 (.866°) ØA øB	22 (.866") ØA ØB	16 (622)		
Plug Plug	/N Socket	Current	Dimer A mm (inch)	B mm (inch)
L 17DM 53745-8	L 17DM 53744-7	10 to 20 Amp.	1.80 (.071″)	2.55 (.100″)
L 17DM 53745-7	L 17DM 53744-6	20 to 30 Amp.	2.80 (.110")	3.70 (.145″)
L 17DM 53745-1	L 17DM 53744-1	30 to 40 Amp.	4.80 (.189″)	5.60 (.220")

Trim dimensions: 7.5 mm (.295")

Crimp version



Trim dimensions: 7.5 mm (.295")

Crimping tool for all sizes L17D479SP



Extraction tool for sizes 8 cts

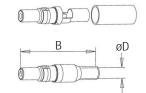


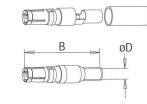
TW/E1

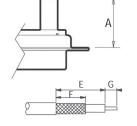
DA ECHNICAL

Straight shielded contacts

Crimp ferrule and inner solder

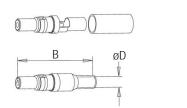


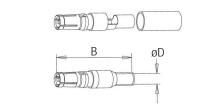


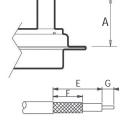


Туре	P/N	Dim	ensions (ir	nch)	Cable - RG	Trim di	Trim dimensions (inch)			
		A Max	В	D		Е	F	G		
plug	L17DM 53740	18.8 (740")	23.6 (.929")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")		
plug	L17DM 53740-1	18.8 (740")	23.6 (.929")	1.7 (.066")	179 B/U 316 B/U	7.9 (.311")	6.3 (.248")	2 (.078")		
plug	L17DM 53740-3	21.5 (846")	23.6 (.929")	2.8 (.110")	180 B/U	9.5 (.374″)	7.9 (.311")	2 (.078")		
plug	L17DM 53740-5	21.5 (846")	23.6 (.929")	3.2 (.126")	58 C/U	9.5 (.374")	7.9 (.311")	2 (.078")		
socket	L17DM 53742	18.8 (740")	23.6 (.929")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")		
socket	L17DM 53742-1	18.8 (740")	23.6 (.929")	1.7 (.066")	179 B/U 316 B/U	7.9 (.311")	6.3 (.248")	2 (.078")		
socket	L17DM 53742-3	21.5 (846")	23.6 (.929")	2.8 (.110")	180 B/U	9.5 (.374")	7.9 (.311")	2 (.078")		
socket	L17DM 53742-5	21.5 (846")	23.6 (.929")	3.2 (.126")	58 C/U	9.5 (.374")	7.9 (.311")	2 (.078")		

Ferrule and inner solder





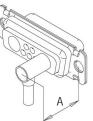


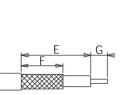
Туре	P/N	Dim	ensions (ii	nch)	Cable - RG	Trim dir	Trim dimensions (incl		
		A Max	В	D		E	F	G	
short plug	L17DM 53740-5000	17.0 (669")	21.8 (.858")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")	
plug	L17DM 53740-5001	18.8 (740")	23.6 (.929")	1.7 (.066")	179 B/U 316 B/U	7.9 (.311")	6.3 (.248")	2 (.078")	
plug	L17DM 53740-5002	21.5 (846")	26.3 (1.035")	2.8 (.110")	180 B/U	9.5 (.374")	7.9 (.311")	2 (.078")	
plug	L17DM 53740-5005	21.5 (846")	26.3 (1.035")	3.2 (.126")	58 C/U	9.5 (.374")	7.9 (.311")	2 (.078")	
plug	L17DM 53740-5008	18.8 (740")	23.6 (.929")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")	
short socket	L17DM 53742-5000	17.0 (669")	21.8 (.858")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")	
socket	L17DM 53742-5001	18.8 (740")	23.6 (.929")	1.7 (.066")	179 B/U 316 B/U	7.9 (.311")	6.3 (.248")	2 (.078")	
socket	L17DM 53742-5002	21.5 (846")	26.3 (1.035")	2.8 (.110")	180 B/U	9.5 (.374")	7.9 (.311")	2 (.078")	
socket	L17DM 53742-5004	21.5 (846")	26.3 (1.035")	3.2 (.126")	58 C/U	9.5 (.374")	7.9 (.311")	2 (.078")	
socket	L17DM 53742-50060	18.8 (740")	23.6 (.929")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")	

Amphenol 😞

Right angled shielded contact

Crimp ferrule and inner solder



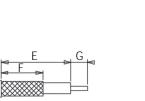


A

Туре	P/N	Dimensions (inch)		Cable - RG	Trim d	imensions	s (inch)	
		A Max	В	D		E	F	G
plug	L17DM 53741	13.5 (.531″)	18.6 (.732")	1.0 (.039")	178 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
plug	L17DM 53741-1	13.5 (.531″)	18.6 (.732")	1.7 (.066")	179 B/U 316 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
plug	L17DM 53741-3	13.5 (.531″)	18.6 (.732")	2.8 (.110")	180 B/U	10.7 (.421")	7.9 (.311")	2.4 (.094")
plug	L17DM 53741-4	13.5 (.531″)	18.6 (.732")	3.2 (.126")	58 C/U	10.7 (.421")	7.9 (.311")	2.4 (.094")
socket	L17DM 53743-2	13.5 (.531″)	18.6 (.732")	1.0 (.039")	178 B/U	9.5 (.374″)	5.9 (.232")	1.6 (.062")
socket	L17DM 53743-3	13.5 (.531″)	18.6 (.732")	1.7 (.066")	179 B/U 316 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
socket	L17DM 53743-5	13.5 (.531")	18.6 (.732")	2.8 (.110")	180 B/U	10.7 (.421")	7.9 (.311")	2.4 (.094")
socket	L17DM 53743-6	13.5 (.531″)	18.6 (.732")	3.2 (.126")	58 C/U	10.7 (.421")	7.9 (.311")	2.4 (.094")

Ferrule and inner solder





	Ø				-	ØD 🖉 ØD		
Туре	P/N	Dim	ensions (ii	nch)		Trim d	limension	s (inch)
		A Max	В	D	Cable - RG	E	F	G
plug	L17DM 53741-5000	13.5 (.531")	18.6 (.732")	1.0 (.039")	178 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
plug	L17DM 53741-5001	13.5 (.531″)	18.6 (.732")	1.7 (.066")	179 B/U 316 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
plug	L17DM 53741-5003	13.5 (.531")	18.6 (.732")	2.8 (.110")	180 B/U	10.7 (.421")	7.9 (.311")	2.4 (.094")
plug	L17DM 53741-5004	13.5 (.531")	18.6 (.732")	3.2 (.126")	58 C/U	10.7 (.421")	7.9 (.311")	2.4 (.094")
socket	L17DM 53743-5000	13.5 (.531″)	18.6 (.732")	1.0 (.039")	178 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
socket	L17DM 53743-5001	13.5 (.531")	18.6 (.732")	1.7 (.066")	179 B/U 316 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
socket	L17DM 53743-5003	13.5 (.531")	18.6 (.732")	2.8 (.110")	180 B/U	10.7 (.421")	7.9 (.311")	2.4 (.094")
socket	L17DM 53743-5004	13.5 (.531")	18.6 (.732")	3.2 (.126")	58 C/U	10.7 (.421")	7.9 (.311")	2.4 (.094")

σ

Crimping tool

Hand crimp tool

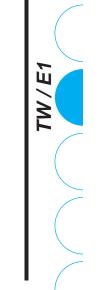
227-0944 (without dies) (M 22 520/5-01)

RG cables	MIL reference	Amphenol P/N	dim. between	2 flat surface
			cavity A	cavity B
RG 58 C/U	M 22 520/5-05	227 1221-05	5.41	-
RG 178 B/U	M 22 520/5-03	227 1221-03	-	2.67
RG 179 B/U	M 22 520/5-03	227 1221-03	3.25	-
RG 180 B/U	M 22 520/5-05	227 1221-05	-	4.52

Extraction tool

Extraction tool for sizes 8 cts L17D429SP

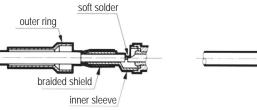




capility instructions for sinended contacts

Straight crimp shielded contacts:

inner solder contact outer crimp contact

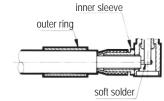


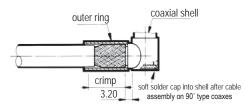
Right angle crimp shielded contacts:

inner solder contact outer crimp contact

the braid.

crimp in the area defined.





- Slide the outer ring towards the inner sleeve ans recover

- Using crimp hand tool equipped with the appropriate dies,

outer ring

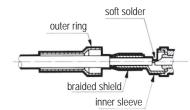
crimp

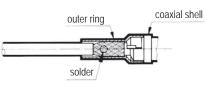
coaxial shell

Assembly method

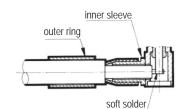
- Slide the outer ring over the cable jacket. Trim the cable according to the recommended dimensions.
- Insert the cable dielectric and the center conductor inside the inner sleeve.
- Solder the central conductor to the shielded center contacts.

Solder straight shielded contacts:





Solder right angle shielded contacts:

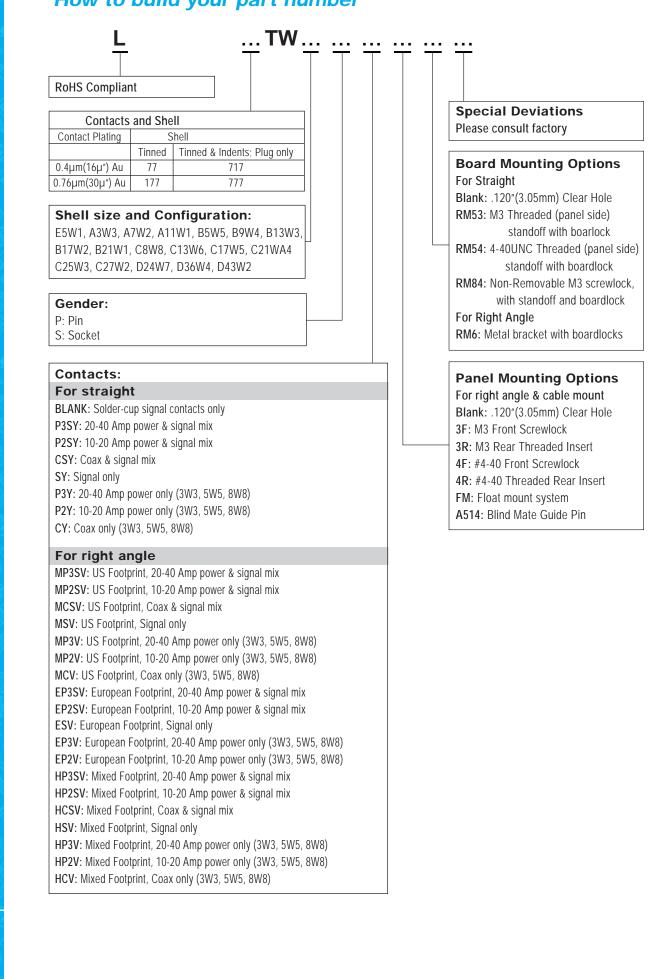


coaxial shell outer ring solder soft solder cap into shell after cable assembly on 90° type coaxes -

Assembly method

- Slide the outer ring over the cable jacket. Trim the cable according to the recommended dimensions.
- Insert the cable dielectric and the center conductor inside Solder by introducing metal through the outer ring hole. the inner sleeve.
- Solder the central conductor to the shielded center contacts.
- Slide the outer ring towards the inner sleeve ans recover the braid.











SURFACE MOUNT CONNECTORS

Specifications

CHARACTERI

• Connectors according to MIL C24308 - NFC 93425-HE5

Materials and Platings

	waterials and Flatings
Shells	Steel with tin plating
Insulator	High temperature (peak at 260°C) glass-filled thermoplastic, UL 94V-0
Socket contact	Stamped and formed brass, selected gold in mating area; 2.54µm (100µ") min. tin on termination area, with entire contact under-plated 1.27µm (50µ") min. nickel
Rear insert	Brass, 3μm up to 5μm (118μ" up to 197μ") tinned over nickel 2μm up to 3 μm (78μ" to 118μ")
Boardlock	Tin plating 4μm up to 6μm (157μ" up to 236μ") over nickel 2μm up to 3μm (78μ" up to 118μ"), insertion force:
	Low Insertion Force = LIF (bronze)
	Zero Insertion Force = ZeFo (bronze)
Screwlock	Brass, 6µm up to 10µm (236µ" up to 394µ") tinned over nickel 2µm up to 3µm (78µ" up to 118µ")
Grounding	Grounding strap: brass, 4µm up to 6µm tin plating over nickel 2µm up to 3µm (78µ" up to 118µ")

Electrical Data

Current rating	3A
Voltage rating	300V AC/rms 50Hz
Withstanding voltage	1000V AC/rms 50Hz for one minute
Insulation resistance	5000ΜΩ
Contact resistance	10mΩ max

Climatic Data

Operating temperature85°C, peak at 105°CDamp heat56 days (40°C - 95% HR)

Mechanical Data

Single contact insertion force Single contact withdrawal force LIF boardlock Coplanarity of contacts

1.2N < F < 2.5N 0.4N min 8N max per connector 0.2mm (.008") max

Mating and unmating force Unit: N

No. of Cts	Mate (max)	Unmate (min)
9 (size E)	30	3.5
15 (size A)	50	4.5
25 (size B)	83	8.0

Amphenol SMT D-Sub is offered in right angle, receptacle with brackets, as an industry standard for I / O connections.

Boardlock features: -LIF (Low Insertion Force) boardlock especially designed to be fully compatible with pick and place machine. -ZeFo (Zero Force Insertion) boardlock has been designed so that once placed and expanded, secures a safe locking.

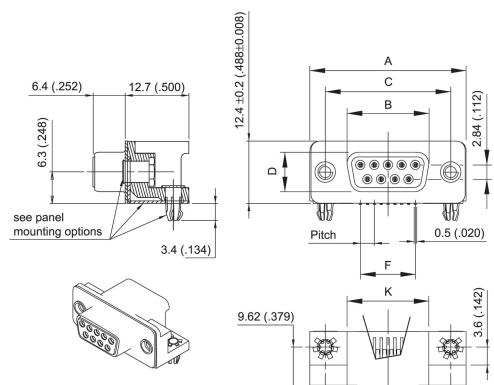
> Designed for Pick and Place SMT process

Industrial
Telecom
Any industry standard I / O connections

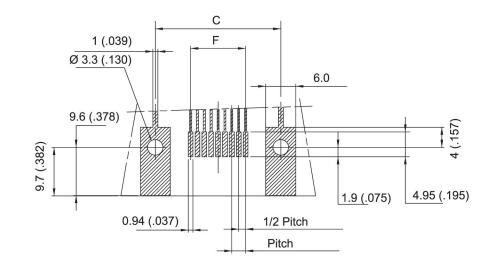




Shell Size Dimensions



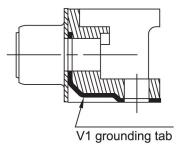
PCB LAYOUT



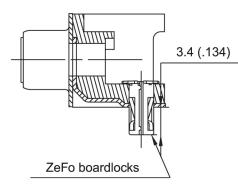
SHELL	mm (inch)							
SIZE	A	В	С	D	РІТСН	F	К	
	+0.05 (.002) -0.1 (.004)	0 -0.2 (.008)	±0.1 (.004)	0 -0.25 (.01)				
E	31.15 (1.226)	16.4 (.645)	25 (.984)	8.03 (.316)	2.74 (.1078)	10.97 (.432)	16.3 (.642)	
Α	39.4 (1.551)	24.8 (.976)	33.3 (1.311)	8.03 (.316)	2.74 (.1078)	19.2 (.756)	24.6 (.968)	
В	53.3 (2.098)	38.5 (1.515)	47 (1.850)	8.03 (.316)	2.76 (.1086)	33.12 (1.304)	38.3 (1.508)	

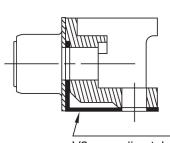
Amphenol

GROUNDING TABS:

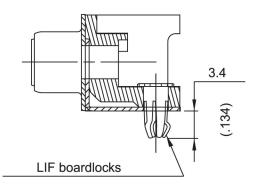


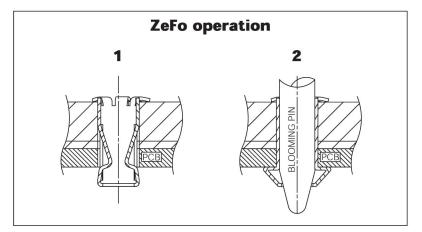
BOARDLOCKS:



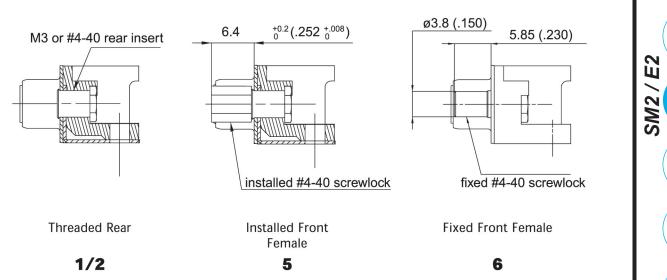


V2 grounding tab

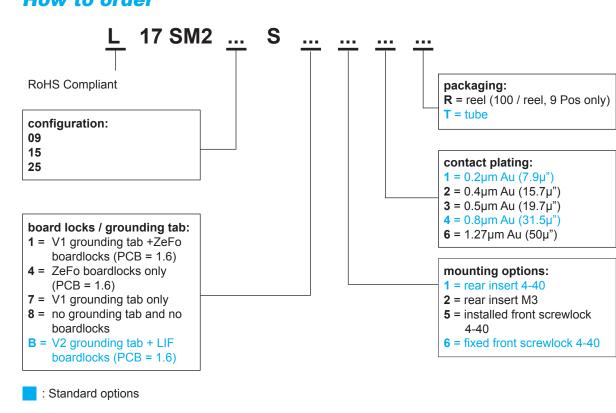




FLANGES ACCESSORIES:



ECHNICAL DA



For special request, please consult factory

Memo

Do not hesitate to contact us for further information

Amphenol

Amphenol IT & Communication Products Block A3/A4, The 4th Industrial District of Industrial Headquarters, Dong Keng Road Gong Ming Town, Shen Zhen China Fax:+86(0)755 2754 9955 Technical Support

Technical Support Tel:+86(0)755 2717 7945 Info-dsub@amphenol.com.cn http://www.dsubconnector.com

E13/B

Stamped And Formed Contacts Solder-Cup And Straight PCB Termination

Standards: UL File: E149426 Connectors according to: MIL C24308 - NFC 93425-HE5

SPECIFICATIONS:

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MINIATU

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MATERIALS AND PLATINGS				
Shells	Steel			
Insulator	Glass-filled thermoplastic, UL 94V-0			
Pin Contact	Brass, selected gold in mating area;			
	100µ" (2.54µm) min. tin-lead on			
	termination area over 50µ" (1.27µm) min.nickel			
Socket Contact	Phosphor bronze, selected gold in mating area;			
	100µ" (2.54µ) min. tin-lead on termination area			
	over 50µ" (1.27µm) min. nickel			
Rear Insert	Brass, 100µ" (2.54µm) min. nickel plated			
Boardlock	Brass, 100µ" (2.54µm) min. nickel plated			
Screwlock	Brass, 100µ" (2.54µm) min. nickel plated			

ELECTRICAL DATA

Current Rating Voltage Rating Withstanding Voltage Insulation Resistance Contact Resistance Standard Density: 5A per contact 250V AC/ rms 50Hz 1000V AC/ rms 50Hz for one minute 1000M Ω at 500V DC 20 m Ω max.

CLIMATIC DATA

Operating Temperature

rature -67°F (-55°C) to +257°F (125°C)

MECHANICAL DATA

Single Contact Insertion Force Single Contact Withdrawal Force

Mating and Unmating Force

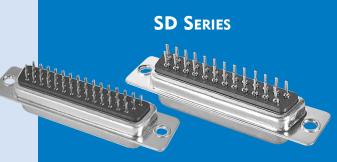
UTIL: ID. (Kg.)						
No. of Pos	SD					
SD	Mate (max.)	Unmate (min.)				
9	3.05 (6.74)	0.36 (0.79)				
15	5.09 (11.24)	0.46 (1.01)				
25	8.44 (18.66)	0.81 (1.8)				
37	12.51 (27.65)	1.1 (2.47)				
50	14.65 (32.38)	1.6 (3.56)				

Standard plating thicknesses

- gold flash
- 15µ" (0.381µm) gold
- 30µ" (0.76 µm) gold

1.19 lb. (0.54 kg.) max.

0.13 lb. (0.06 kg.) min.

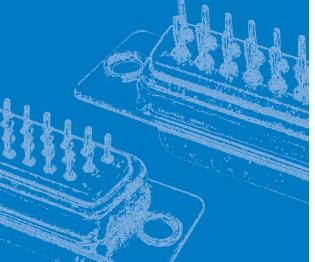


Amphenol's SD series, features precision stamped and formed contacts with closed entry contact cavities in insulator.

This series provides Amphenol's high standard of quality and reliability, to meet all of your commercial requirements.

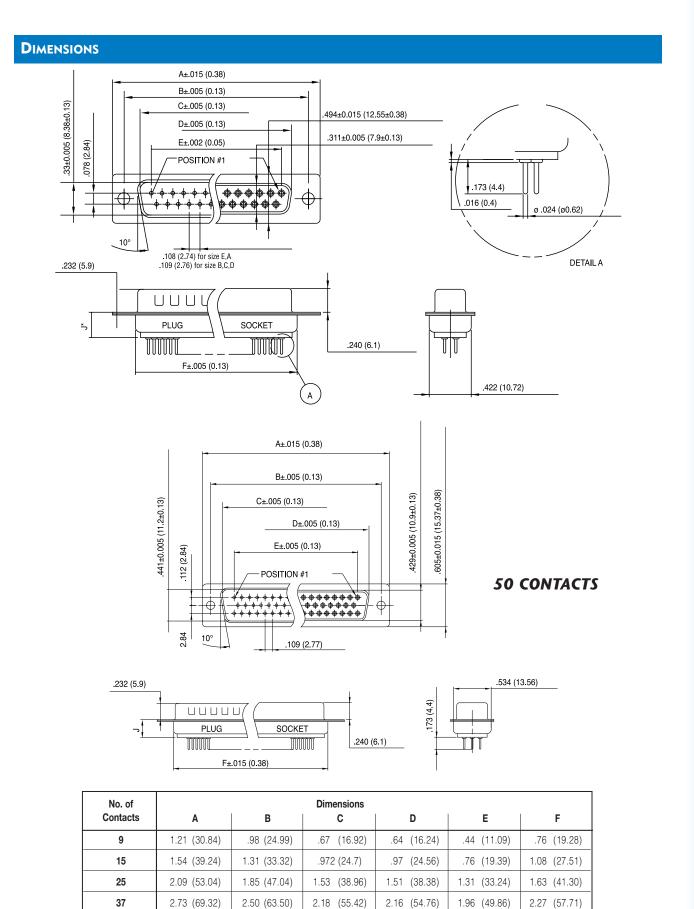
Industrial

- Telecom
- Any industry standard I / O connections



INCHES (MM)

Stamped And Formed Contacts Solder-Cup And Straight PCB Termination



ш

Telephone: (416) 754-5656 Fax: (416) 754-8668 E-Mail: sales@amphenolcanada.com

2.08 (52.86)

2.06 (52.34)

50

2.64 (67.06)

2.41 (61.11)

17

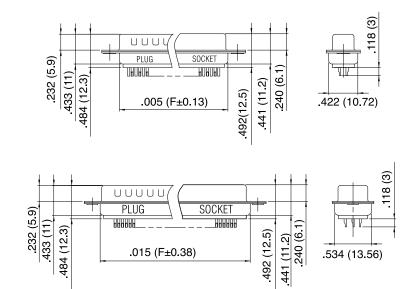
2.18 (55.3)

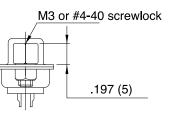
1.75 (44.32)

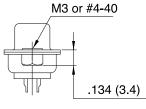
Stamped And Formed Contacts Solder-Cup And Straight PCB Termination

SD SERIES

50 CONTACTS







Front Female Screwlock VF / VFM

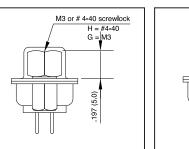
H = #4-40 G = M3

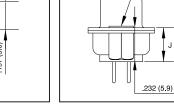
J

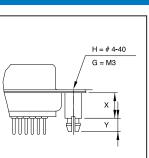


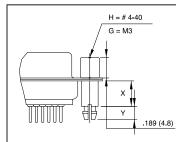
PRINTED CIRCUIT BOARD TERMINATIONS











Front Female Screwlock

Threaded Rear Insert RM5 Standoff Boardlock RM8 Standoff Boardlock

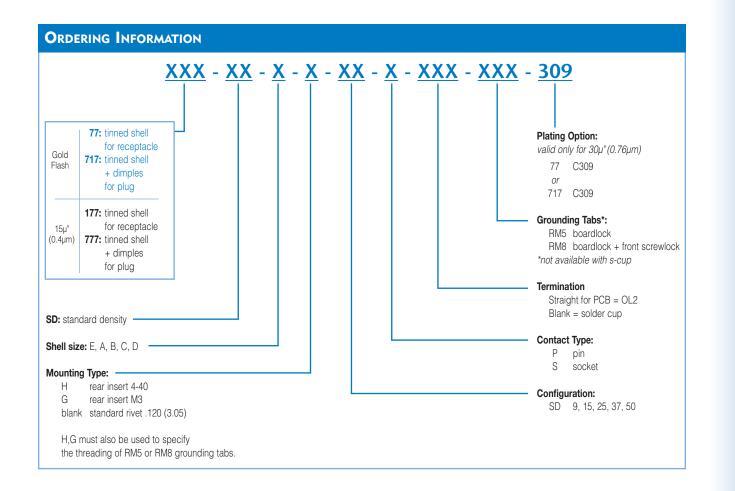
	RM5 RM8	RM5G RM8G
Х	.236 (6.0)	.500 (12.7)
Υ	.126 (4.2)	.126 (3.2)
J	.244 (6.2)	.465 (11.8)

INCHES (MM)



17 SD SERIES

Stamped And Formed Contacts Solder-Cup And Straight PCB Termination



For Filtered D-Sub, see page 56.

Telephone: (416) 754-5656 Fax: (416) 754-8668 E-Mail: sales@amphenolcanada.com

70 M

19

V

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

Insulator	Glass-filled thermoplastic, UL 94V-U
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) nicke
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	5000ΜΩ
Contact Resistance	D: 8.5mΩ max.
	DF: $5m\Omega$ max.

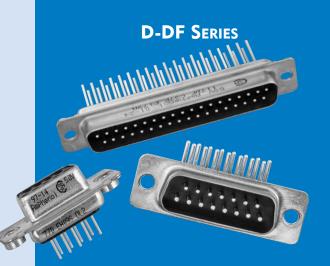
CLIMATIC DATA

 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)



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.

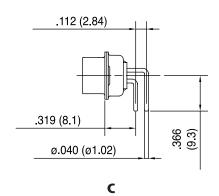
- Industrial
- Telecom
- Any industry standard I / O connections

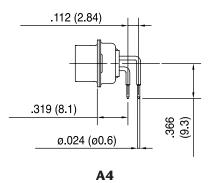
INCHES (MM)

D-DF SERIES

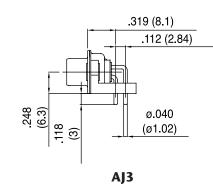
Fixed Machined Contact Connector

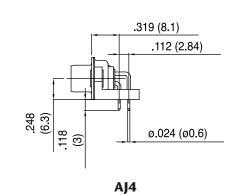
Without bracket



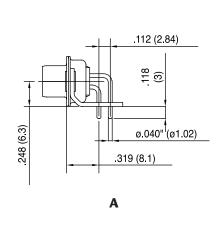


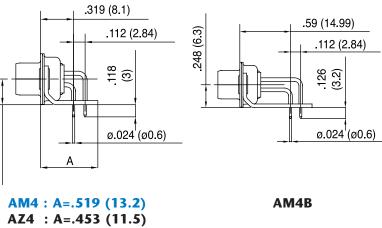






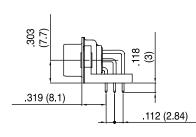
Metal bracket





AM4B

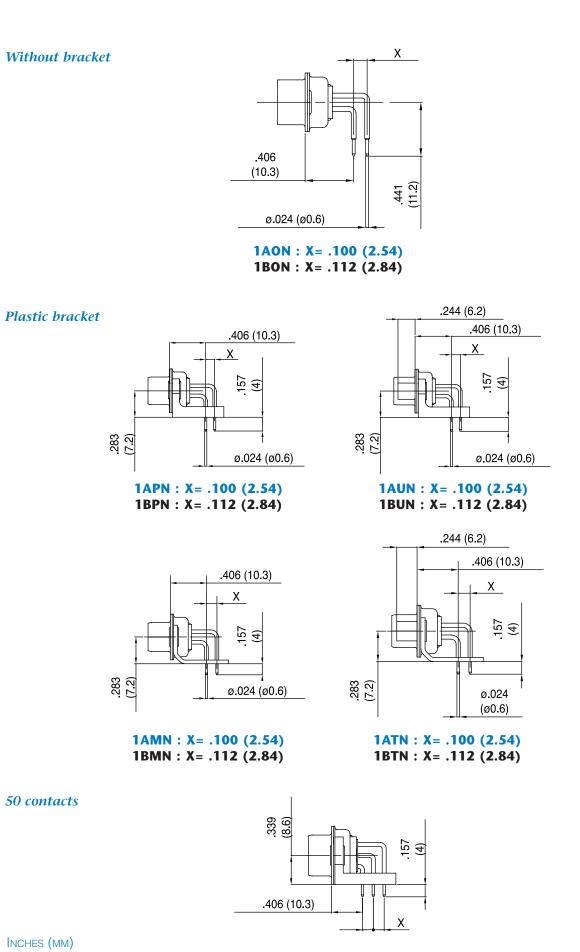




.248 (6.3)

21 Ш

Fixed Machined Contact Connector

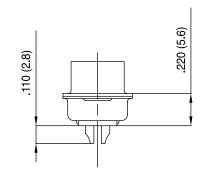


INCHES (MM)

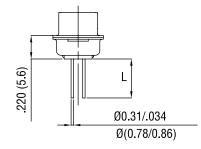
D-DF SERIES

Fixed Machined Contact Connector

Solder cup

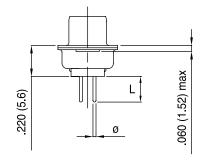


Wire Wrap



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)
т	.024 (0.6)	.157 (4)
OL2	.02 (0.6)	.217 (5.5)

For R/A termination

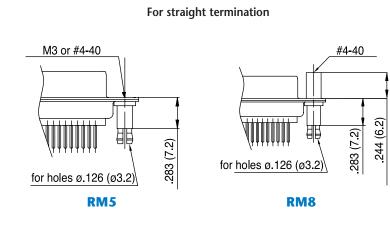
FOR PCB .062 (1.6)

for holes ø 126 (ø3.2)

RM6

23

Grounding tabs



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

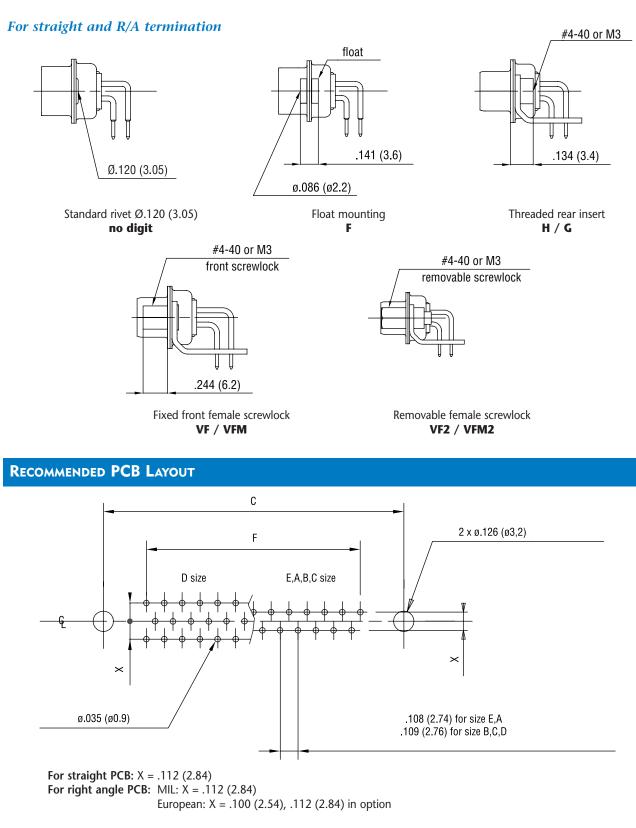
ш

Screw-Machined Contacts Fixed Machined Contact Connector

5

5

D-DF SERIES



	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)
					•

D-DF SERIES

Screw-Machined Contacts Fixed Machined Contact Connector

^{8µ"} 7			<u>(XXX</u> 	T	 			<u>XX XX</u>	<u>XX X</u>	
^{8μ"} 7						T				
^{8μ"} 7								For specific p	product	
^{8μ"} 7								Grounding ta		
1 1	17D: 77D: 717D:	yellow chromated s tinned shell for rece tinned shell + dimp	ptacle					RM8 for s RM6 for ri	traight PCB mou traight PCB mou ght angle PCB r	unting + fema nounting
00	17DF:	yellow chromated shell						VFM front VF2 remo	screwlock 4-40 screwlock M3 ovable screwloc	k 4-40
(0.5µm)	77DF: 717DF:	tinned shell for receptacle tinned shell						VFM2 remo	ovable screwloc	k M3
		+ dimples for plug		_				solder cup: no	digit	
	117DF: 177DF:	yellow chromated s tinned shell for receptacle	nell						ngth .378 (9.6) ngth .512 (13)	
7	777DF:	tinned shell + dimp	es for plug						igiti .512 (15)	
									ngth .126 (3.2)	tail ø.024 (ø
Sh	hell size:	E, A, B, C, D							ngth .094 (2.4) ngth .157 (4)	tail ø.040 (ø tail ø.024 (ø
		Options:						OL2 ler	ngth .216 (5.5)	tail ø.024 (
	H G	rear insert 4-40 rear insert M3						Right Angle Cor	nnector:	
	F no diait	float mounting standard rivet .122 (ø 3.1)					MIL footprint without bracket:	C tail	ø.040 (ø
	*H, G m	ust also be used to s	pecify				L	plastic bracket:	A4 tail AJ3 tail	ø.024 (ø ø.040 (ø
	the threa	ading of RM5 groundi	ng labs.						AJ4 tail	ø.024 (ø
Co	onfigurat	tion: 09, 15, 25, 37, 5) ——— C					metal bracket:	A tail AM4 A	ø.040 (ø
0									AIVI4 A AZ4 A	ø.519 (1 ø.453 (1
60	ontact ty P	pe:							AM4B foot	
		socket						European footpri	nt	
								without bracket:	1AON X .	100 (2.54)
									1BON X .	
								plastic bracket:	1APN X . 1BPN X .	
									1AUN X .	
									1BUN X .	
								metal bracket:	1AMN X .	. ,
									1BMN X .	
									1ATN X . 1BTN X .	()
: Stand	dard op	otions								

For Filtered D-Sub, see page 56.

25

Screw Termination

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells Insulator Contacts Steel Tin plated Glass filled thermoplastic, UL94V-0 Machined brass, full gold

ELECTRICAL DATA

Current Rating Voltage Rating Withstanding Voltage Insulation Resistance Contact Resistance

7,5 A max. 300 V RMS at 50 Hz 1000 V RMS at 50 Hz > 5000 Ω at 500 V DC $< 5 \Omega$

CLIMATIC DATA

Operating Temperature Damp Heat

-67°F (-55°C) to +185°F (85°C), peak at 257°F (125°C) 21 days 219°F(104°C - 95% HR) 48 hours

MECHANICAL DATA

Cable Type Cable Gauge

Salt Spray

Screw Torque Mating Cycles Solid or stranded 0,75 mm² max. (AWG 18) - For bigger wire, please consult factory 0,05 mN max. 100 (class II) or 500 (class I)

D-ST SERIES

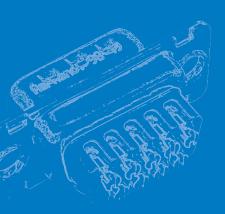


The Amphenol Screw Termination D-Sub series is especially designed for field applications.

These new connectors permit easy wiring without any specific tool; only a standard electrician's screwdriver is required. Due to their reduced overall dimensions, these connectors are compatible with all standard hoods and accessories.

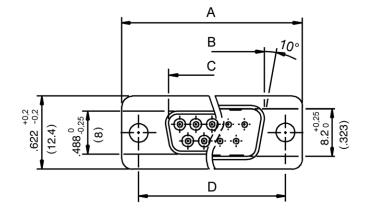
> • Industry - control of speed variators and calculators. Houses and public buildings - control of heating, air conditioning, lighting, shutters and fire safety.
> Infrastructures - fluids control motorway talks

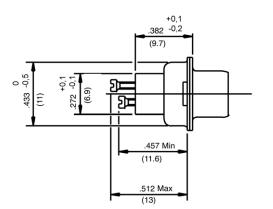
control, motorway tolls and street lighting.

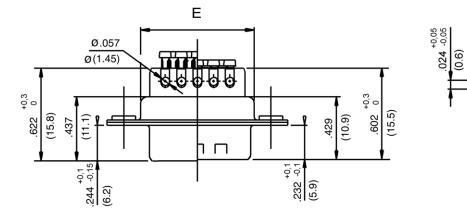


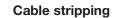
INCHES (MM)

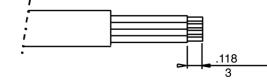












SIZE	A	B	C	D	E
	+.010 (0.25)	0	+.008 (0.2)	+.004 (0.1)	+.004 (0.1)
	010 (0.25)	008 (0.2)	0	004 (0.1)	016 (0.4)
9	1.209	.646	.661	.984	.370
	(30.7)	(16.4)	(16.8)	(25)	(19.4)
15	1.535	.976	.988	1.311	1.091
	(39)	(24.8)	(25.1)	(33.3)	(27.7)
25	2.083	1.516	1.528	1.850	1.630
	(52.9)	(38.5)	(38.8)	(47)	(41.4)
37	2.724	2.161	2.177	2.500	2.280
	(69.2)	(54.9)	(55.3)	(63.5)	(57.9)

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ORDERING INFORMATION						
	<u>717D</u> - <u>E09</u> - <u>P</u> - <u>ST</u> - <u>1</u>					
Class II: 77D 717D Class I: 177D 777D	Female connector Male connector, shells with dimples Female connector Kit connector + hood option: (See following description) 1 DPPK hood 3 DTZK hood 4 DVZK hood					
Size and number of	contacts E09, A15, B25, C37 Contact termination: ST Screw termination					
Type of contact:	P Male S Female					

PLASTIC HOODS



DPPK Straight cable entry



DSSK Angled cable entry

METALLIC HOODS



DTZK Straight cable entry



DVZK Angled cable entry

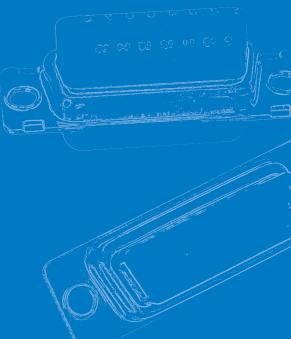
INCHES (MM)

RR-HR SERIES



Designed for high volume production, Amphenol's rear release crimp connector and contacts provide significant cost savings.

- EMI / RFI shell configuration.
- Removable, reusable contacts.
- Automatic and manual tooling available.
 - Industrial
 - Telecom
 - Any industry standard
 I / O connections



Stamped And Formed Contacts Rear Release Crimp Connectors

Standards: • **RR: UL File** : E64911 • **HR: UL File** : E149426

• Connectors according to MIL C24308

SPECIFICATIONS:

MATERIALS AND PLATINGS						
Shells		ated over zinc or tinned uples on plug connecto				
Insulator	Black glass-filled thermoplastic, UL 94V-0					
Rear Insert Screwlock	tinned over nickel 7 (2µm up to 3µm)	394µ" (6µm up to 10µı				
Contacts	Under plating	Crimp side				
8µ" (0.2µm) gold	78µ″(2µm) nickel	gold flash or tin				
20µ" (0.5µm) gold	78µ″(2µm) nickel	gold flash or tin				
30µ" (0.76µm) gold	78µ"(2µm) nickel	gold flash or tin				

ELECTRICAL DATA

Current Rating	5A
Voltage Rating	500V AC/rms 50Hz
Withstanding Voltage	RR: 1000V AC/rms 50Hz for 1 minute
	HR: 1000V AC/rms 60Hz for 1 minute
Insulation Resistance	RR: 5000MΩ
	HR: 1000MΩ
Contact Resistance	10mΩ max.
Wire Size	20-28 AWG max. insulation out
	.05 (Ø1.27)

67°F to 221°F (-55°C to +105°C)

CLIMATIC DATA

Operating Temperature

MECHANICAL DATA

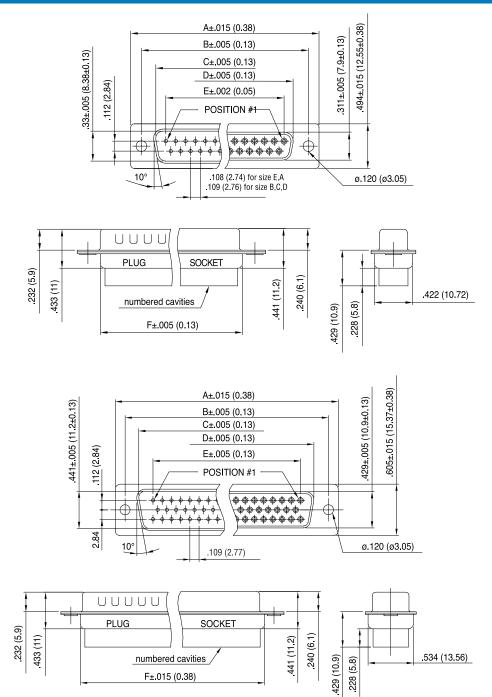
Mating and Unmating Force Unit: lb. (kg.)

No. of C	No. of Contacts		max.)	Unmate (min.)	
RR	HR	RR HR		RR	HR
9 (size E)	15 (size E)	6.74 (3.05)	8.42 (3.81)	0.79 (0.36)	1.14 (0.52)
15 (size A)	26 (size A)	11.24 (5.09)	13.16 (5.95)	1.01 (0.46)	2.32 (1.05)
25 (size B)	44 (size B)	18.66 (8.44)	20.46 (9.26)	1.8 (0.81)	3.02 (1.37)
37 (size C)	62 (size C)	27.65 (12.51)	29.78 (13.48)	2.47 (1.1)	3.88 (1.76)
50 (size D)	78 (size D)	32.38 (14.65)	34.96 (15.82)	3.56 (1.6)	4.46 (2.02)



ase Crimp Connectors

STANDARD DENSITY RR

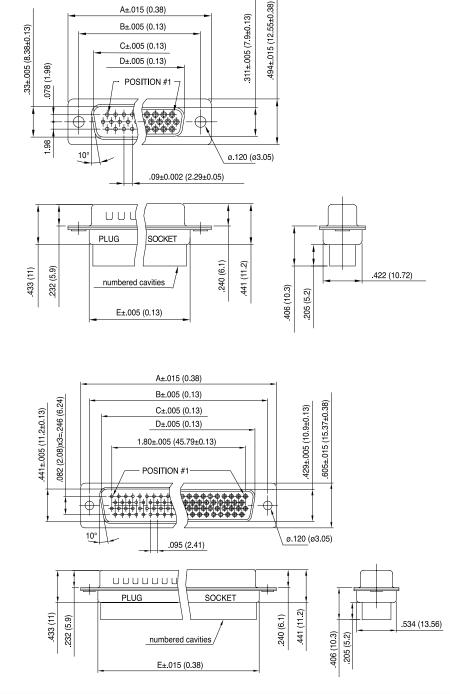


RR-HR SERIES

No. of Contacts	Dimensions							
	Α	В	С	D	E	F		
9	1.21 (30.84)	.98 (24.99)	.67 (16.92)	.64 (16.24)	.44 (11.09)	.76 (19.28)		
15	1.54 (39.24)	1.31 (33.32)	.972 (24.7)	.97 (24.56)	.76 (19.39)	1.08 (27.51)		
25	2.09 (53.04)	1.85 (47.04)	1.53 (38.96)	1.51 (38.38)	1.31 (33.24)	1.63 (41.30)		
37	2.73 (69.32)	2.50 (63.50)	2.18 (55.3)	2.16 (54.76)	1.96 (49.86)	2.27 (57.71)		
50	2.64 (67)	2.41 (61.11)	2.08 (52.86)	2.06 (52.34)	1.75 (44.32)	2.18 (55.3)		

INCHES (MM)

HIGH DENSITY HR

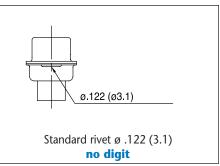


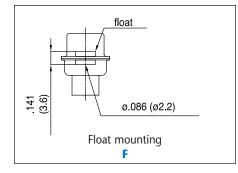
No. of Contacts	Dimensions							
	Α	В	С	D	E			
15	1.21 (30.84)	.98 (24.99)	.67 (16.92)	.64 (16.24)	.76 (19.28)			
26	1.54 (39.24)	1.31 (33.32)	.972 (24.7)	.97 (24.56)	1.08 (27.51)			
44	2.09 (53.04)	1.85 (47.04)	1.53 (38.96)	1.51 (38.38)	1.63 (41.30)			
62	2.73 (69.32)	2.50 (63.50)	2.18 (55.42)	2.16 (54.76)	2.27 (57.71)			
44	2.64 (67)	2.41 (61.11)	2.08 (52.86)	2.06 (52.34)	2.18 (55.3)			

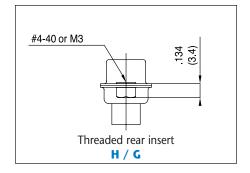
Telephone: (416) 754-5656 Fax: (416) 754-8668 E-Mail: sales@amphenolcanada.com

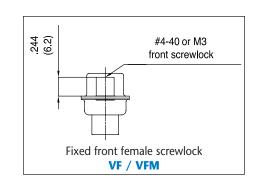
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PANEL MOUNTING OPTION

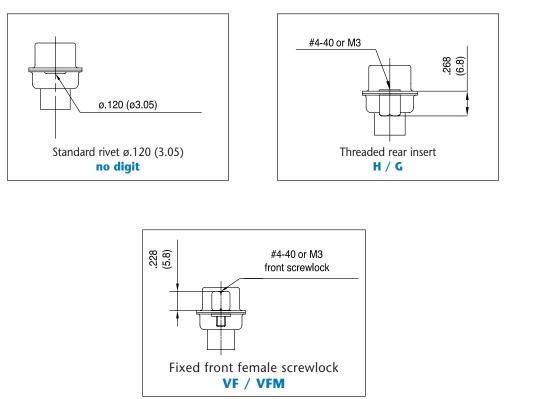






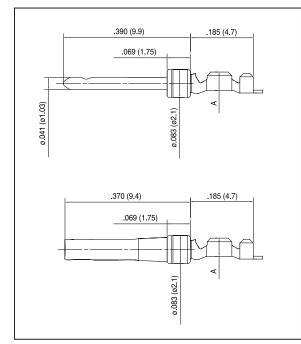


HIGH DENSITY

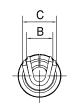


INCHES (MM)

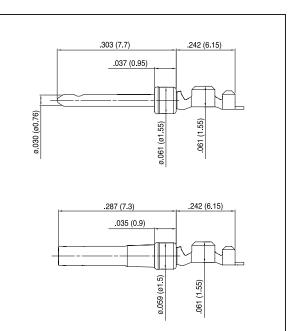
CONTACTS



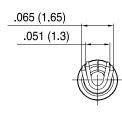
Standard density



AWG	Α	В	С
20-24	.071 (1.8)	.075 (1.9)	.098 (2.5)
24-28	.055 (1.4)	.059 (1.5)	.066 (1.7)



High density





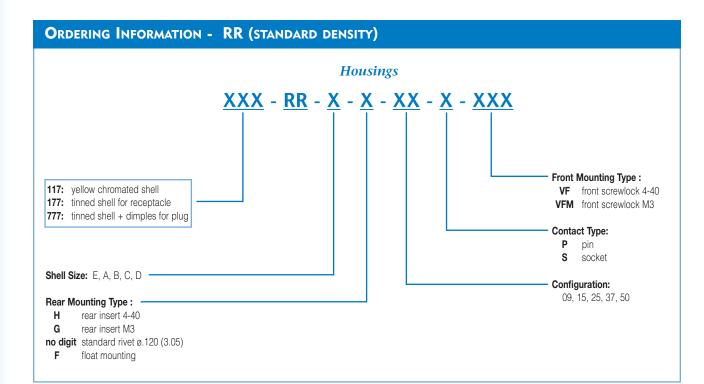
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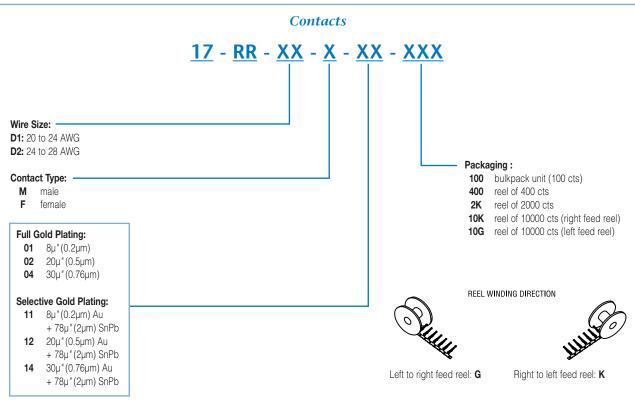
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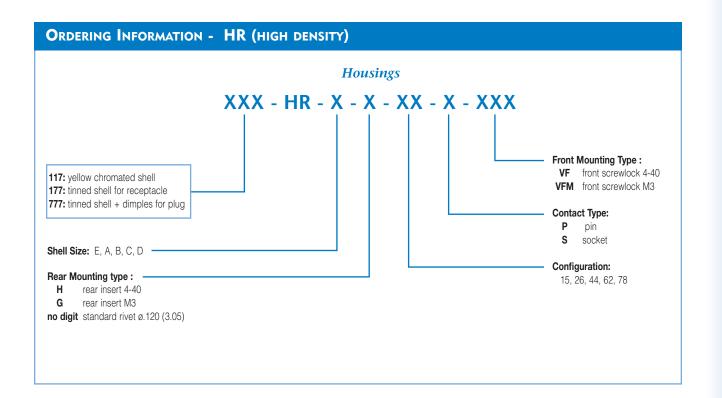
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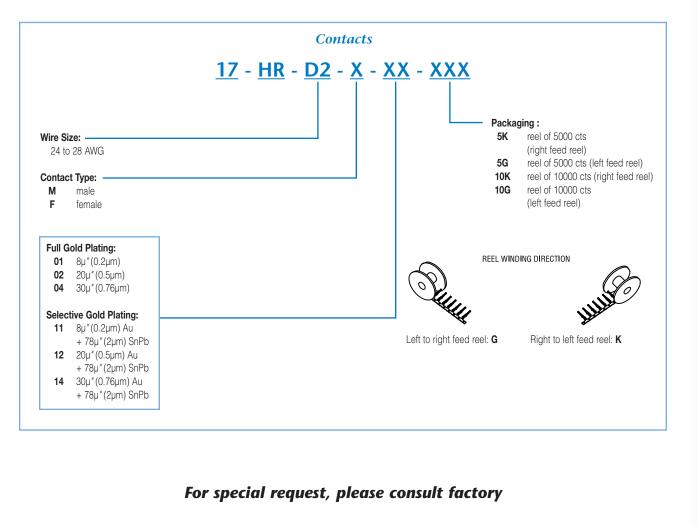




For special request, please consult factory

INCHES (MM)





RR-HR SERIES

TOOLING FOR CRIMP CONTACTS

For standard density crimp contacts: 17RR series

• Contact insertion and removal tool	17D 438 SP
Hand crimp tool for single contacts AWG 20 to 28	17D 440 SP
 Hand crimp tool for reels of 400 contacts 	FA 0000 762
crimp dies: AWG 20 to 24	FA 0000 104
crimp dies: AWG 24 to 28	FA 0000 102
Stripping box	FE 0400
Automatic crimp machine for reels of 2000 to 10000 contacts	970 MC
crimp dies: AWG 20 to 24	968 MC
crimp dies: AWG 24 to 28	972 MC

For high density crimp contacts: 17HR series

• Automatic crimp machine for reels of 2000 to 10000 contacts	970 MC
crimp dies: AWG 24 to 28	973 MC

INCHES (MM)

SD308



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

- Ruggedized Computers and Peripheral Equipment
- Industrial Controllers
- 21st Century Soldier

FOR HIGH DENSITY .100 [2.54] -

• Ideal For Retrofit Applications Or Late Design-In

PLUG - SIDE VIEW

SPECIFICATIONS:

- PRODUCT FEATURES
- One piece machined Aluminum Shell
- Gold Plated Screw Machine Contacts
- Hi Grade Thermoplastic Inserts -67°F to +257°F (-55°C to +125°C)
- Integrated Blind Panel Mounts
- Supplied with Conductive Panel Seal Gasket

MATERIALS AND PLATINGS

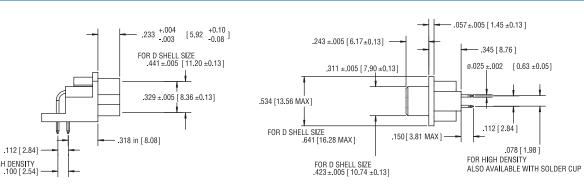
Shells Machined aluminum alloy, tin plated High temperature resistant polyethersulfone per mil-p-46185 Inserts **Contacts** Copper alloy, 20µ" (0.51µm) gold plated over nickel. Silicone elastomer with nickel plated graphite flake Seal

ELECTRICAL DATA

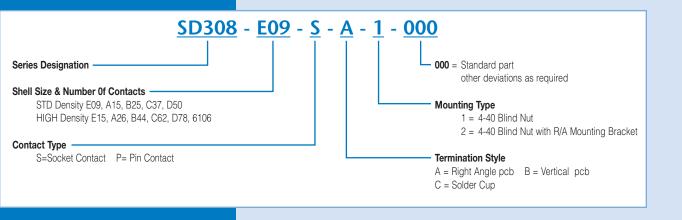
Current Rating Insulation Resistance	5A 5 GIGOHM @ 500 VDC
Working Voltage	120 VAC
D.W.V.	1,000 VAC pin to pin & pin to shell

CLIMATIC DATA

Operating Temperature -67°F to +257°F (-55°C to +125°C)



RECEPTACLE - SIDE VIEW



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

SPECIFICATIONS:

DESCRIPTION

- 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

MATERIALS AND PLATINGS

ShellsStamped steel shell, tin platedInsertsHigh temperature resistant polyethersulfone per MIL-P-46185ContactsMachined copper alloy, 20µ" (0.51µm) gold plated over nickelCapacitorBarium titanate ceramic array

ELECTRICAL DATA

Current Rating Insulation Resistance Working Voltage D.W.V. Capacitance

CLIMATIC DATA

Operating Temperature

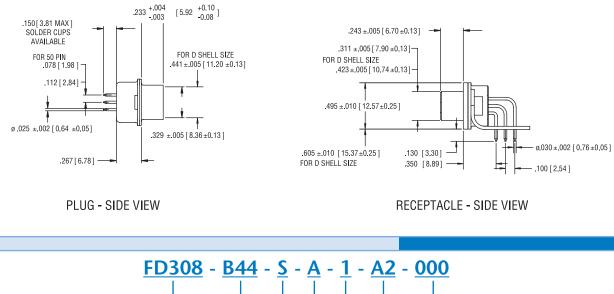
5 A
5 GIGOHM @ 500 VDC
200 VDC
500 VDC pin to pin & pin to shell
+/- 20% (see P/N description)

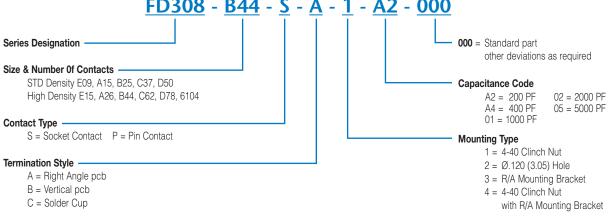
-67°F to +257°F (-55°C to +125°C)

For 50 position and all high density versions. Amphenol's FD308 Filtered D-Subminiature connectors are available in the full range of hidensity insert arrangements, pin and socket contacts, plus the 50 position standard density. These connectors are supplied with fixed screw machine contacts and are available in Straight and Right Angle PCB terminations and Solder Cup.

FD308

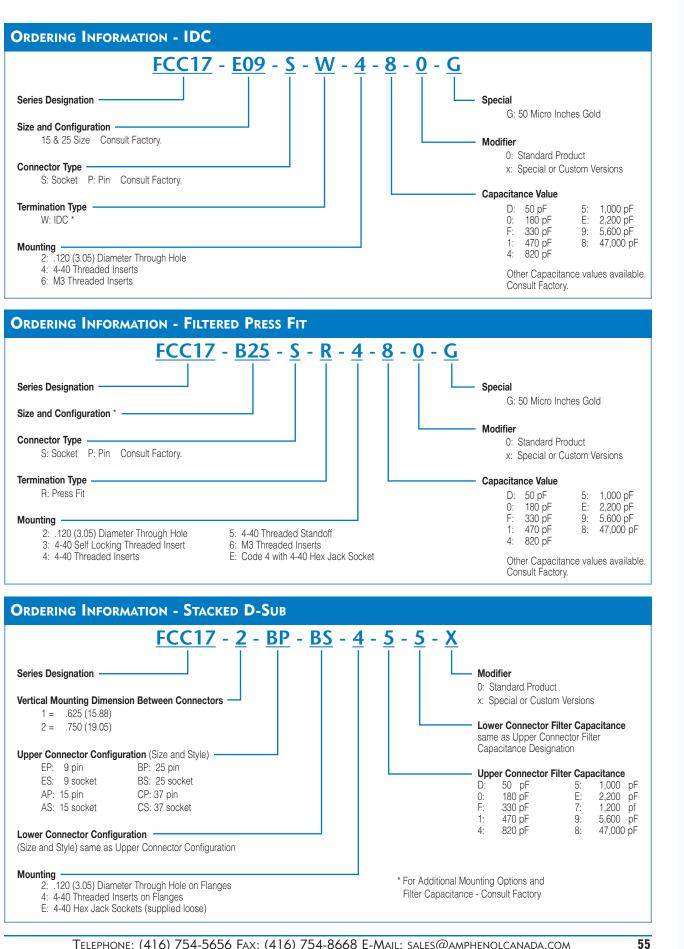
- Computers and Peripheral EquipmentAvionics Systems Ideal For Retrofit
- Avionics systems ideal For Retro Applications Or Late Design-In





FCC17

Ordering Information



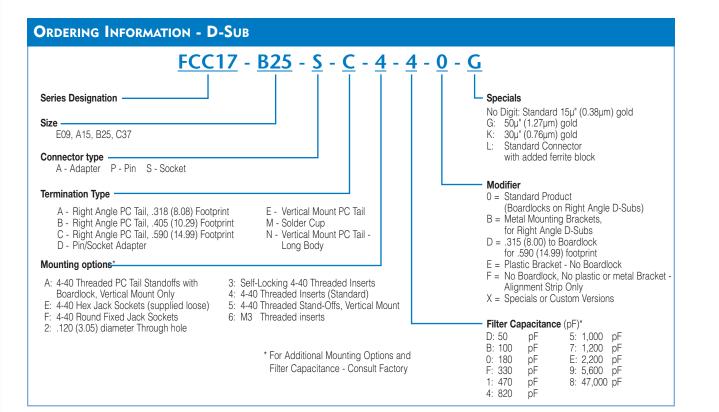
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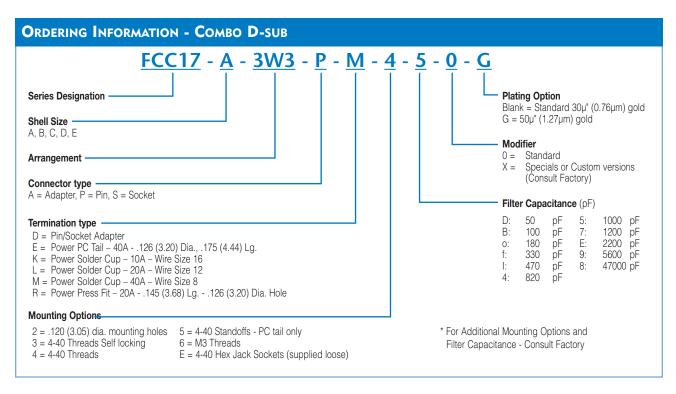
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ACCESSORIES

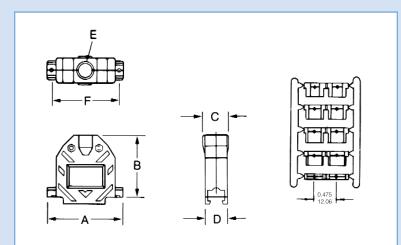


Amphenol's black plastic backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for most cable assemblies. This version is economical and highly durable. The split-grommet insert provides cable strain relief while making it easy to assemble.

Plastic Backshell

SPECIFICATIONS:

Housing Material: Grommet Material: Mounting Hardware: Styrene (UL 94 VO) Polypropylene Steel, clear zinc finish *RoHS Compliant



DIMENSIONS AND ORDERING INFORMATION

Shell	Standard #	Hi-Density #	Part			Dimer	nsions		Cable Diameter Range		
Size	of Contacts	of Contacts	#	Α	В	С	D	Е	F	Minimum	Maximum
	15	17E-1724-1	1.217	1.547	0.640	0.640	0.400	0.984	0.210	0.350	
Е	9	15	1/E-1/24-1	(30.91)	(39.29)	(16.26)	(16.26)	(10.16)	(24.99)	(5.33)	(8.89)
А	15	26	17E-1725-1	1.545	1.505	0.640	0.640	0.400	1.312	0.210	0.350
A	15	20		(39.24)	(38.23)	(16.26)	(16.26)	(10.16)	(33.32)	(5.33)	(8.89)
В	25	44	17E-1726-1	2.090	1.655	0.710	0.640	0.522	1.857	0.230	0.450
D	25	44	1/E-1/20-1	(53.08)	(42.04)	(18.03)	(16.26)	(13.26)	(47.17)	(5.84)	(11.43)
С	37	62	17E-1727-1	2.734	1.830	0.906	0.640	0.726	2.500	0.350	0.640
U	37	02	1/E-1/2/-1	(69.44)	(46.48)	(23.01)	(16.26)	(18.44)	(63.50)	(8.89)	(16.26)
D	EO	78	17E-1728-1	2.645	1.855	0.940	0.770	0.726	2.406	0.350	0.640
D	50	/8		(67.18)	(47.12)	(23.88)	(19.56)	(18.44)	(61.11)	(8.89)	(16.26)

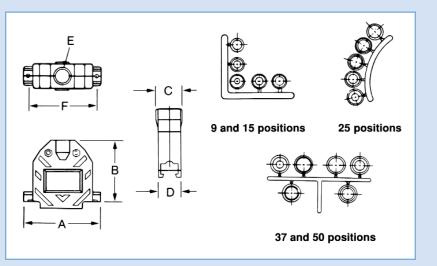
Plated Plastic Backshell

SPECIFICATIONS:

Housing Material:	ABS Polymer	
Plating:	Nickel over copper	
Grommet Material:	PVC (UL 94 VO)	
Mounting Hardware:	Steel, clear zinc finish	*RoHS Compliant

ASSEMBLY INSTRUCTIONS

- 1. Select the tightest insert that will fit over the cable and thread the cable through it, placing the end with the smaller O.D. (the end without the washer) towards the connector.
- 2. Cut the jacket, fold the shielding back over the outside of the insert and cut it just short of the washer.
- 3. Install jackscrews and connector.
- 4. Place the washer in the outermost depression in the exit area of the hood and screw the cover closed.



DIMENSIONS AND ORDERING INFORMATION

Shell	Standard #	Hi-Density #	Part			Dimer		Cable Diameter Range			
Size	of Contacts	of Contacts	#	Α	В	С	D	Е	F	Minimum	Maximum
E 9 15	15	17E-1724-2	1.217	1.547	0.640	0.640	0.400	0.984	0.210	0.320	
	15	1/E-1/24-2	(30.91)	(39.29)	(16.26)	(16.26)	(10.16)	(24.99)	(5.33)	(8.13)	
A 15	26	17E-1725-2	1.545	1.505	0.640	0.640	0.400	1.312	0.210	0.320	
	20		(39.24)	(38.23)	(16.26)	(16.26)	(10.16)	(33.32)	(5.33)	(8.13)	
В	D 05 44	44	17E-1726-2	2.000	1.655	0.710	0.640	0.522	1.857	0.230	0.450
D	25	44		(50.8)	(42.04)	(18.03)	(16.26)	(13.26)	(47.17)	(5.84)	(11.43)
	07	62	17- 1707 0	2.730	1.830	0.906	0.640	0.726	2.500	0.350	0.650
C 37	02	17E-1727-2	(69.34)	(46.48)	(23.01)	(16.26)	(18.44)	(63.50)	(8.89)	(16.51)	
D	50	78	17- 1700 0	2.645	1.855	0.940	0.440	0.726	2.406	0.350	0.650
U	50	78	17E-1728-2	(67.18)	(47.12)	(23.88)	(11.18)	(18.44)	(61.11)	(8.89)	(16.51)



Amphenol's plated plastic backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for cable assemblies requiring compliance to FCC 20780. This version is highly durable and provides EMI/RFI protection. The rubber grommet compression insert forces the cable's shielding against the inside of the cable exit area, assuring shielding.

ACCESSORIES



Amphenol's plated plastic backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for cable assemblies requiring compliance to FCC 20780. This version is highly durable and provides EMI/RFI protection. The rubber grommet compression insert forces the cable's shielding against the inside of the cable exit area, assuring shielding. The 45° cable exit helps save space behind equipment.

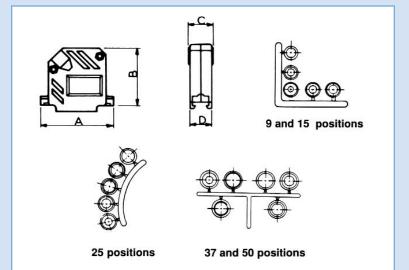
45° Plated **Plastic Backshell**

SPECIFICATIONS:

Housing Material: Plating:	ABS Polymer Nickel over copper	
Grommet Material: Mounting Hardware:	PVC (UL 94 VO)	*RoHS Compliant

ASSEMBLY INSTRUCTIONS

- 1. Select the tightest insert that will fit over the cable and thread the cable through it, placing the end with the smaller O.D. (the end without the washer) towards the connector.
- 2. Cut the jacket, fold the shielding back over the outside of the insert and cut it just short of the washer.
- 3. Install jackscrews and connector.
- 4. Place the washer in the outermost depression in the exit area of the hood and screw the cover closed.



DIMENSIONS AND ORDERING INFORMATION

Shell	Standard #	Hi-Density #	Part			Dime	Cable Diameter Range				
Size	of Contacts	of Contacts	#	Α	В	С	D	E	F	Minimum	Maximum
E 9 15	17E-1824-2	1.217	1.430	0.640	0.640	0.400	0.984	0.210	0.320		
E	9 15	1/E-1024-2	(30.91)	(36.32)	(16.26)	(16.26)	(10.16)	(24.99)	(5.33)	(8.13)	
٨	A 15 26	17E-1825-2	1.545	1.568	0.640	0.640	0.400	1.312	0.210	0.320	
A		20	17E-1620-2	(39.24)	(39.83)	(16.26)	(16.26)	(10.16)	(33.32)	(5.33)	(8.13)
D	0E	4.4	17- 1006 0	2.090	1.735	0.710	0.640	0.522	1.857	0.230	0.450
D	B 25 44	17E-1826-2	(53.09)	(44.07)	(18.03)	(16.26)	(13.26)	(47.17)	(5.84)	(11.43)	
0	0 07 00	60	17E-1827-2	2.734	1.976	0.906	0.640	0.726	2.500	0.350	0.650
C	37	62		(69.44)	(50.19)	(23.01)	(16.26)	(18.44)	(63.5)	(8.89)	(16.51)

TT. **^** Ш

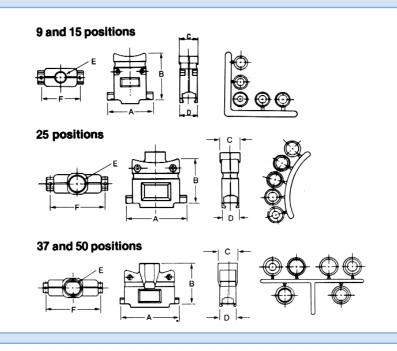
Two-Piece Die Cast Shielded Backshells

SPECIFICATIONS:

Housing Material: Grommet Material: Mounting Hardware: Die cast zinc PVC (UL 94 VO) Steel, clear zinc finish *RoHS Compliant

ASSEMBLY INSTRUCTIONS

- 1. Select the tightest insert that will fit over the cable and thread the cable through it, placing the end with the smaller O.D. (the end without the washer) towards the connector.
- 2. Cut the jacket, fold the shielding back over the outside of the insert and cut it just short of the washer.
- 3. Install jackscrews and connector.
- 4. Place the washer in the outermost depression in the exit area of the hood and screw the cover closed.



DIMENSIONS AND ORDERING INFORMATION

Shell	Standard #	Hi-Density #	Part			Dimer	Cable Diameter Range				
Size	of Contacts	of Contacts	#	Α	В	С	D	E	F	Minimum	Maximum
E 9 15	15	175 1657 00	1.217	1.430	0.640	0.640	0.400	0.984	0.210	0.320	
E	E 9 15	17E-1657-09	(30.91)	(36.32)	(16.26)	(16.26)	(10.16)	(24.99)	(5.33)	(8.13)	
^	A 15 26		1.545	1.568	0.640	0.640	0.400	1.312	0.210	0.320	
A		20	17E-1657-15	(39.24)	(39.83)	(16.26)	(16.26)	(10.16)	(33.32)	(5.33)	(8.13)
P	05	4.4		2.090	1.735	0.710	0.640.	0.522	1.857	0.230	0.450
B 25 44	44	17E-1657-25	(53.09)	(44.07)	(18.03)	(16.26)	(13.26)	(47.17)	(5.84)	(11.43)	
0 07 00	<u></u>	(=_ (05= 0=	2.734	1.976	0.906	0.640	0.726	2.500	0.350	0.640	
С	37	62	17E-1657-37	(69.44)	(50.19)	(23.01)	(16.26)	(18.44)	(63.5)	(8.89)	(16.26)

INCHES (MM)

Accessories



Amphenol's metal backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for cable assemblies requiring compliance to FCC 20780. This version is highly durable and provides EMI/RFI protection. The rubber grommet compression insert forces the cable's shielding against the inside of the cable exit area, assuring shielding.

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