D-SUBMINIATURE CONNECTORS



ACCESSORIES

STANDARD DENSITY

SURFACE MOUNT RECEPTACLES

IIIIII

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

17E BH/HD Series

dit i towanamy

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells

Contact Material Contact Plating

Termination End

Nickel Underplate

Steel, tin plated, grounding indents on plug. Copper alloy Engagement area: gold (see ordering information). 150µ" (3.81µm) tin/lead 50µ" (1.27µm) entire contact

ELECTRICAL DATA

Current Rating3 Amps maximum perVoltage Rating125 VACDielectric Withstanding Voltage1000 VAC (minimum)DielectricGlass filled thermoplasblackUII 94 VO

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

Insulation Resistance

Contact Resistance

Operating Temperature

-67°F (-55°C) to 221°F (105°C)

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.

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.

IndustrialTelecomAny industrian

• Any industry standard I / O connections

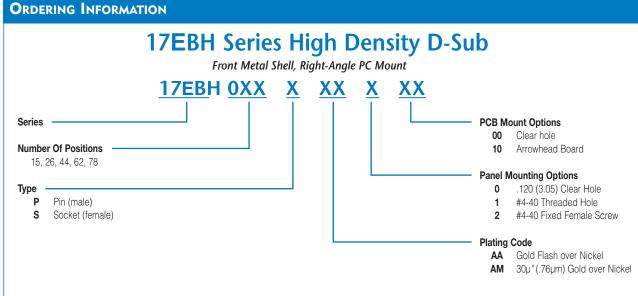
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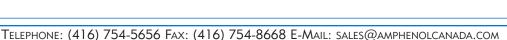
INCHES (MM)

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

15~62 POSITION ·B A1 D .236 [6.0] .445 [11,29 492 311 [12 5] [7 9] .326 [8.3] যায় .130 [3.3]-F SOCKET PIN 15 POS. PIN ø.039 [ø1.0] ø.126 [ø3.2] -В .350 [8.89] Þ h 0.078 [1.981] 200 [5.08] EDGE OF PCB 78 POSITION 26 ~ 62 POS. PIN в -0.078 [1.981] Ø Ó .602 [15.3] t 444 [11.3] 429 [10,9] 78 POS. PIN/ SOCKET साप्र —F SOCKET PIN R . . . h 훤 С 106 [2.54] A1 PIN A SOCKEI CONTACTS CONTACTS в С D Е А в С .642 .666 984 1.213 .090 .045 .984 .090 .045 15 15 [16.30] [16.92] [25.0] [30.8] [2.29] [1.145] [25.0] [2.29] [1.145] .969 .994 1.311 1.543 .090 .045 1.311 .090 .045 26 26 [24.6] [25.25] [33.3] [39.2] [2.29] [1.145] [33.3] [2.29] [1.145] 1.508 1 534 1.854 2.091 090 .045 1.854 .090 .045 44 44 [38.3] [38.96] [47.1] [53.1] [2.29] [1.145] [47.1] [2.29] [1.145] 2.157 2 182 2 50 2 7 3 2 095 047 2 50 095 047 62 62 [54.8] [55.42] [63.5] [69.4] [2.41] [1.205] [63.5] [2.41] [1.205] 2.05 2.079 2.40 2.638 .095 .047 2.402 .095 .047 78 78 [52.20] [1.205] [52.81] [61.0 [67.0] [2.41] [61.0] [2.41] [1.205]

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





EDGE OF PCB

0.082 [2.083]

D

.277

[7.04]

.271

[6.88]

.271

[6.88]

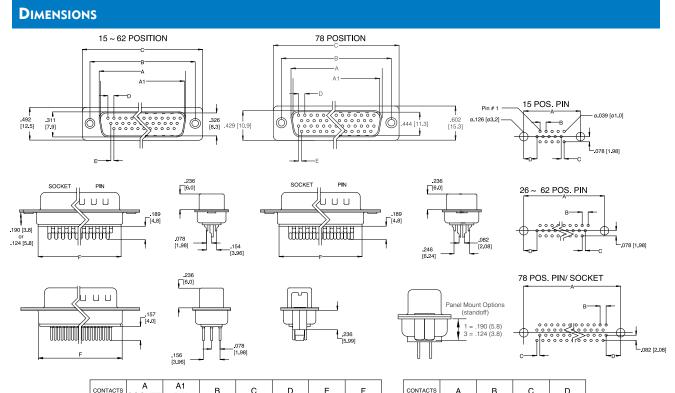
.275 [7.00]

.300

[7.63]

EDGE OF PCB

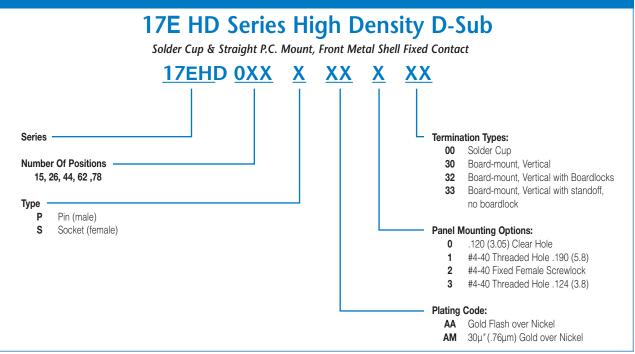
High Density Solder Cup And Straight P.C. Mount / Double Metal Shell Fixed Contact



	CONTACTS	A	A1	в	С	D	Е	F	
	001111010	SOCKET	PIN	D	0	D	L	· '	
		.642	.666	.984	1.213	.090	.045	.756	
	15	[16.30]	[16.92]	[25.0]	[30.8]	[2.29]	[1.145]	[19.2]	
ſ		.969	.994	1.311	1.543	.090	.045	1.071	
	26	[24.6]	[25.25]	[33.3]	[39.2]	[2.29]	[1.145]	[27.2]	
ſ		1.508	1.534	1.854	2.091	.090	.045	1.618	
	44	[38.3]	[38.96]	[47.1]	[53.1]	[2.29]	[1.145]	[41.1]	
ſ		2.157	2.182	2.50	2.732	.095	.047	2.256	
	62	[54.8]	[55.42]	[63.5]	[69.4]	[2.41]	[1.205]	[57.3]	
ſ		2.05	2.079	2.40	2.638	.095	.047	2.169	
	78	[52.20]	[52.81]	[61.0	[67.0]	[2.41]	[1.205]	[55.1]	

CONTACTS	А	В	С	D
15	.984	.090	.045	277
	[25.0]	[2.29]	[1.145]	[7 04]
26	1 311	.090	.045	.277
	[33 3]	[2.29]	[1.145]	[7.04]
44	1.854	.090	045	277
	[47.1]	[2.29]	[1.145]	[7.04]
62	2.50	.095	.047	.275
	[63.5]	[2.41]	[0.120]	0.699
78	2.402	.095	.047	.275
	[61.0]	[2.41]	[0.120]	0.699





INCHES (MM)

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)

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

AAAAA



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.

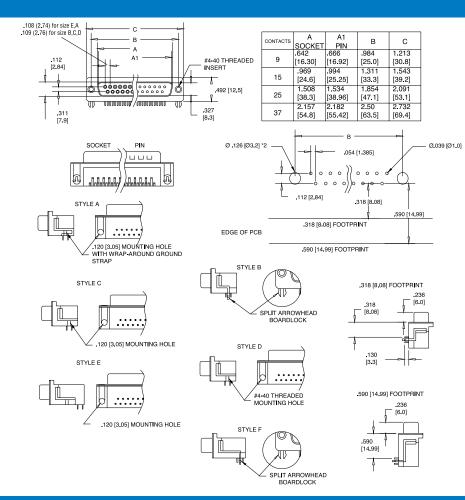
- Industrial
- Telecom
- Any industry standard I / O connections

INCHES (MM)

6E17 SERIES

Right-Angle Board Mount Connectors Front Metal Shell

DIMENSIONS



ORDERING INFORMATION

Series		6E17 X 0		X cts	XX X	XX 	X Contact 20 21	 Variation Code E for U & Y Footprint Housing Characteristics Tin plated receptacle Tin plated plug with grounding indents
.318 (8.08) Footprint	.590 (14.99) Footprint	Description of PC Board Mounting Characteristics	Style				Code	Panel Mounting Options .120 (3.05) clear hole
A		.120 (3.05) diameter mtg hole with wrap-around ground strap	Α				1	#4-40 threaded hole #4-40 threaded hole with female screwlock
C D	U	spit arrowhead boardlock .120 (3.05) diameter mtg hole	B C&E				4	Fixed female round screwlock
J	Y	#4-40 threaded mtg hole split arrowhead boardlock	D F	-			Code BF	Contact Plating Engagement area 3µ" (.076µm) gold flash, terminal end area 100µ"/200µ (2.54µm/5.08µm)
				Code P S	Contact Type Pin (male) Socket (female)		CF	tin/lead underplate of 50µ" (1.27µm) nickel Engagement area 15µ" (.381µm) gold flash, terminal end area 100µ"/200µ (2.54µm/5.08µm) tin/lead underplate of 50µ" (1.27µm) nickel
		For filtered versic	n, see pa	age 56.			AJ	Engagement area 30μ" (.76μm) gold, terminal end area 100μ"(200μ (2.54μm/5.08μm) tin/lead underplate of 50μ" (1.27μm) nickel

Ш. JJ

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 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)

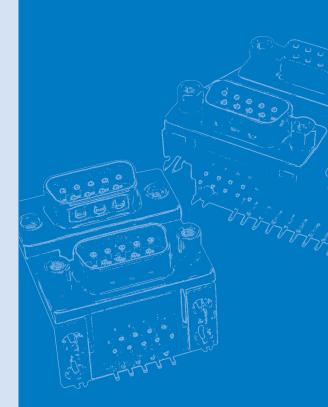
6E17 H SERIES

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.

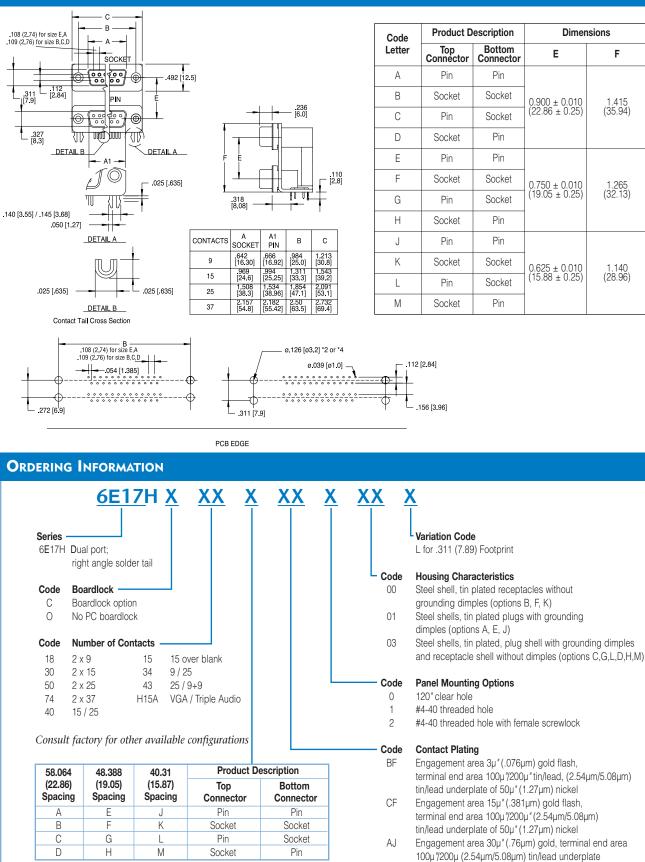
Designed to save PC board space, Amphenol's dual port "D" provides two input output connectors in a minimal amount of board space.

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



INCHES (MM)

DIMENSIONS



For filtered version, see page 55.

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

of 50µ" (1.27µm) nickel

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.)

Contact Resistance

CLIMATIC DATA

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**



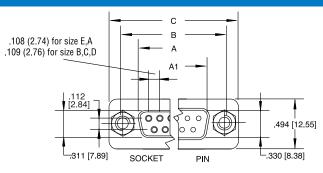
Amphenol's high temperature, low profile D-Sub connector gives you a high quality, reliable commercial connector to meet today's market demands.

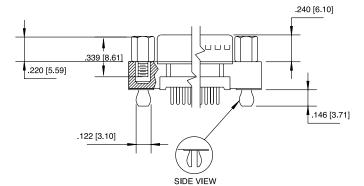


6E17S SERIES

High Temperature Straight Board Mount Connectors

DIMENSIONS



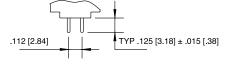


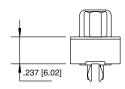
в

0 0 00

0 0

-0545 [1.384]





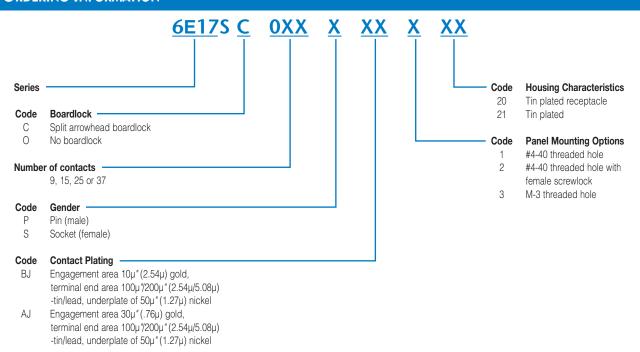
CONTACTS	A SOCKET	A1 PIN	в	с
9	.642	.666	.984	1.213
	[16.30]	[16.92]	[25.0]	[30.8]
15	.969	.994	1.311	1.543
	[24.6]	[25.25]	[33.3]	[39.2]
25	1.508	1.534	1.854	2.091
	[38.3]	[38.96]	[47.1]	[53.1]
37	2.157	2.182	2.50	2.732
	[54.8]	[55.42]	[63.5]	[69.4]

112 [2.84] ø.047 [ø1.194]-

.056 [1.422]

ORDERING INFORMATION

.108 (2.74) for size E,A 109 (2.76) for size B,C,D



ø.120 [ø3.05] *2

ED-EH **D-Sub connectors - Screw-machined contacts**

STANDARD AND HIGH DENSITY WATERPROOF CONNECTORS



	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. of Cts		E	D	EHD		
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 cyclesGold flash: 100 cycles0.76μm (30μ"): 500 cycles						



The 17ED and 17EHD serie	es are
suitable for waterproof appli	cations.

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.

Harsh environment connectors

- · Marine electronic devices
- Industrial electrical
- · Security Monitoring
- Robotics
- · Lighting systems



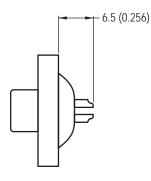


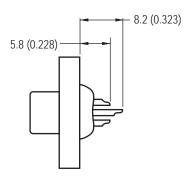


TECHNICAL DATA

Termination

Solder cup (blank) :





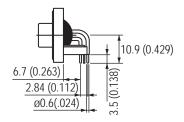
Standard density

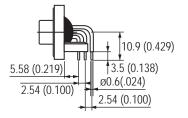
High density

Straight PCB with standoff and boardlocks:



Right angle PCB with brackets and boardlocks:

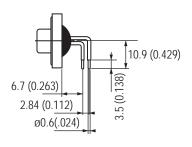




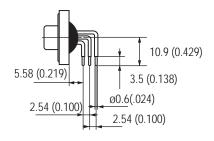
Standard density

High density

Right angle PCB without brackets and boardlocks:

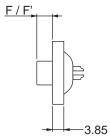


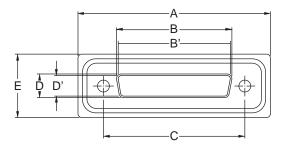
Standard density



High density

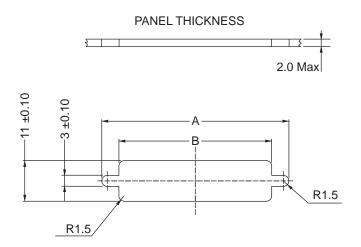
Shell Size Dimensions





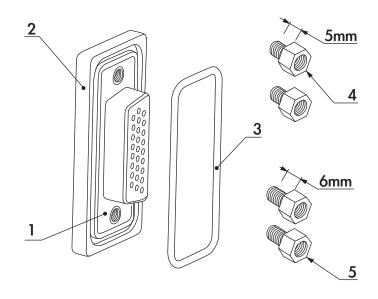
SHELL	Contact	А	В	B′	С	D	D′	E	F	F'
SIZE	P: pin	±0.25	0 / -0.20	+0.20 / 0	±0.10	0 / -0.25	+0.25 / 0	±0.25	+0.10/-0.20	±0.10
	S: socket	(±.010)	(0/008	(+.008/0)	(±.004)	(0/010)	(+.010/0)	(±.010)	(+.004/008)	(±.004)
_	Р	39.4		16.8(0.661)	25.0		8.2(0.325)	21.0		5.9(0.232)
Е	S	(1.551)	16.4(0.646)		(0.984)	8.0(0.315)		(0.827)	6.2(0.244)	
•	Р	47.7		25.1(0.988)	33.3		8.2(0.325)	21.0		5.9(0.232)
Α	S	(1.878)	24.8(0.976)		(1.311)	8.0(0.315)		(0.827)	6.2(0.244)	
в	Р	64.5		28.8(1.528)	47.0		8.2(0.325)	21.0		5.9(0.232)
Б	S	(2.539)	38.5(1.513)		(1.850)	8.0(0.315)		(0.827)	6.2(0.244)	

Panel cutouts

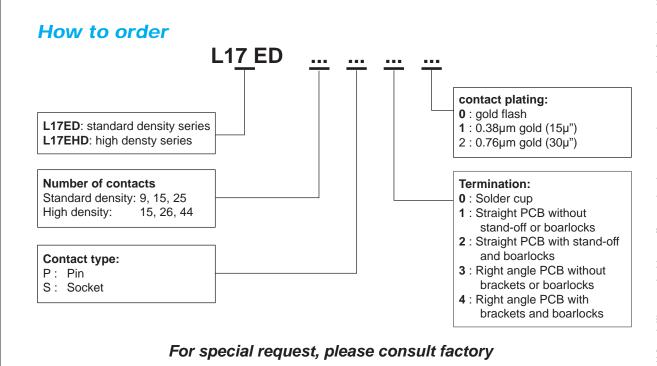


SHELL SIZE	A ±0.10(±.004)	B 0 / -0.10(0 /004)	
E	28.8 (1.111)	20.0 (0.788)	
Α	36.5 (1.438)	28.0 (1.103)	
В	51.0 (2.009)	41.5 (1.635)	

Connector Dimensions



NO	Description	Material	Qty
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



Do not hesitate to contact us for further information

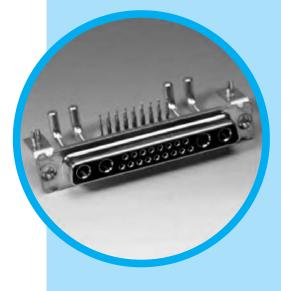


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Specifications

CONTEN

Connectors according to: MIL C24308 - NFC93425 - HE507

Ma	aterials and platings	Electrical Data
Shells	Steel-Tin plating	Current rating
Insulators	High temperature black thermoplastic	Signal contacts7.5 A. with 10 A. peaks
Signal contacts Material Plating finish	Female: machined bronze Male: machined brass 16µ "Au over 79µ" Ni min.	Power contacts 10 to 40 A. Solder cup terminations 10 to 40 A.
Or	30µ" Au over 79µ" Ni min.	Crimp terminations 10 to 40 A.
Shielded contacts	1 1	Shielded contacts 0.5 A.
Material	Male: machined bronze	Voltage rating Signal and power contacts 300 V.R.M.S. at 50 Hz
Plating Inner conductor Outer ring	16μ "Au or 30μm Au over 79μ" Ni 10μ "Au over 79μ" Ni	Shielded contacts 150 V.R.M.S. at 50 Hz Shielded contacts
Terminations	Tinned	Frequency range 0-1 GHz
Except solder cu	up and crimp terminations gold flash	Attenuation 0.2dB V. S. W. R. 1.4(+0.04/GHz)
Power contacts	Female: machined bronze	Characteristic impedance 50 Ohms
Material	Male: machined brass	Dielectric withstanding
Plating	1/	voltage ≥ 1000 V.R.M.S. at 50Hz
Contacts Terminations	16µ "Au or 30µ" Au over 79µ" Ni Tinned	Insulation resistance ≥ 5000 M Ohms at 500 VDC
	ip and crimp terminations gold flash	Contact resistance ≤ 5m Ohms
Brackets	Steel-Tin plating	Shell resistance ≤ 1m Ohm
Front jackscrews	Brass-Tin plating	(electrical grounding)
Rear clinch nuts	Brass-Tin plating	
Boardlocks	Bronze-Tin plating	
Stand-off	Brass-Tin plating	

Climatio	c Data	Мес	chanical data
Operating temperature	-55°C + 155°C	Shells	With or without dimples
	(with peaks up to 180°C)	Contact retention f	orce in dielectric material > 40N
Damp heat	56 days (40°C - 95% HR)	Maximum mating a	nd unmating force
Salt spray	48 hours	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
11 designed	1000 - 20 M		B size = 80 N
E			C size = 120 N
and the second second	114		D size = 160 N
in the second se		Compatible with pr	
No.		IR - Air convection	ed 260° for 20 s.
		Resistance to sold	er iron heat 260°C for 30 s.
		Mating cycles	\geq 200 (classe II) or 500 (classe I)
		Blind mating syste	m 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
- Medical
- Industrial
- Telecom
- Any application requiring optimization of space





Shell 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

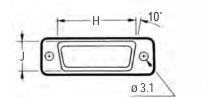
Types	Shells and plating
177 TW	Tin plated shell * <i>Male and female</i>
777 TW	Tin plated shell with dimples <i>Male only</i>

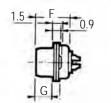
Housing arrangements

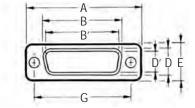
Male front view

Arrangement Shell size	(کو کو کو 5W1 E	(*************************************	([*] ₀ ◦, □ * [*] ◦ ◦, ◦ ⁰ [*] , ◦ ◦ * [*] ◦ ◦, ◦ ⁰ 11W1 A
Arrangement	3W3	5W5	9W4
Shell size	A	B	B
Arrangement Shell size	() () () () () () () () () ()	17W2 B	21W1 B
Arrangement	27W2	13W6	17W5
Shell size	C	C	C
Arrangement	21W4	8W8	25W3
Shell size	C	C	C
Arrangement	24W7	абW4	(1000000000000000000000000000000000000
Shell size	D	D	

Shell size dimensions

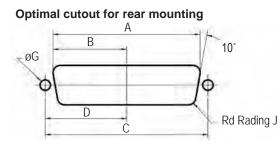






Shell size	Contact P: Pin S: Socket	A ±0.25 (±.010)	B 0/-0.20 (0/008)	B' +0.20/0 (+.008/0)	C ±0.10 (±.004)	D 0/-0.25 (0/010)	D' +0.25/0 (+.010/0)	E ±0.20 (±.008)	F +0.05/-0.20 (+.002/008)	F' +0.10/-0.20 (+.004/008)	G +0.10/-0.20 (+.004/008)	G' ±0.10 (±.004)	H +0.10/-0.40 (+.004/016)	J 0/-0.50 (0/020)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

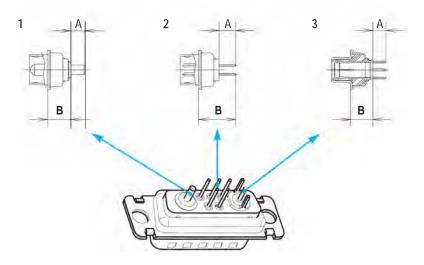
Panel cutouts



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")
E	Rear	20.5 (.807")	10.2 (.402″)	(.984″)	(.492″)	11.4 (.449″)	5.7 (.224″)	(.118")	(.059″)	3.4 (.0134")
	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")
	Front	44.3 (1.744″)	22.1 (.870″)	47.0	23.5	13.0 (.512″)	6.5 (.256")	3.0	1.5	2.1 (.083″)
В	Rear	42.5 (1.673″)	21.3 (.839″)	(1.850")	(.925")	11.4 (.449″)	5.7 (.224")	(.118″)	(.059″)	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 footprint



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

Description		Dimensions				
Description		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")			

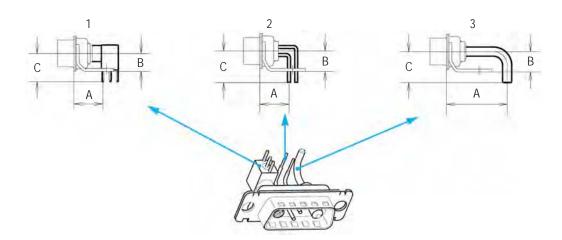
Straight contact combinations

Arrangement with signal contacts

Arrangement without signal contacts 3W3 - 5W5 - 8W8

See above dimensions	Size 8 and 20 Contacts	See above dimensions	Size 8 Contacts
¥		¥	·
P 3SY	Power 3.2 mm DIA. (.126") (20 to 40 A) and signal	P 3Y	Power only 3.2 mm DIA. (.126") (20 to 40 A)
P 2SY	Power 2 mm DIA. (.0787")		
	(10 to 20 A) and signal	P 2Y	Power only 2 mm DIA. (.0787")
CSY	Shielded and signal		(10 to 20 A)
			
SY	Signal only	CY	Shielded only
	Signal (Size 20)		
No reference	with solder cup terminations Housing preloaded with contacts		

Right angle connector footprint



Signal tail 0.6 mm Dia. (.0236") 1.6 mm (.063") PCB			Europe			Mix			MIL			
For other PCB thickness: consult factory.		HE 5 pattern = - Europ. height - Europ. footprint pitch between 2 rows: .100"			Mixed pattern = - MIL height - Europ. footprint pitch between 2 rows: .100"			MIL pattern = - MIL height - MIL footprint pitch between 2 rows: .112"				
Description		а	b	С	а	b	С	а	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

Arrangement with signal contacts					Arrangement without signal contacts 3W3 - 5W5 - 8W8					
European footprint	Mixed footprint	MIL (U.S.) footprint	Size 8 and 20 Contacts	Europear footprint		MIL (U.S.) footprint	Size 8 contacts only			
Ŧ	¥	Ŧ		¥	¥	¥	·			
EP3SV	HP3SV	MP3SV	Power 3.2 mm DIA. (.126") (20 to 40 A) and signal	EP3V	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							

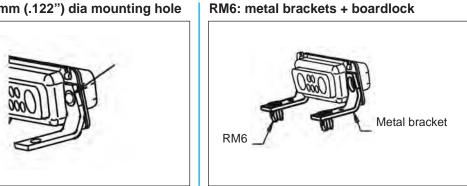
TW / E1

Amphenol ⁹

Mounting options

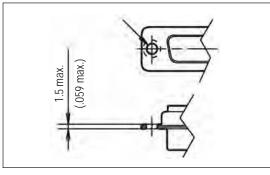
Right angle version Connectors come equiped with metal brackets

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

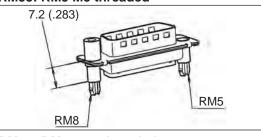


Straight version

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



RM54: RM5 4.40 threaded RM53: RM5 M3 threaded



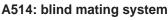
ø2.2 (.086)

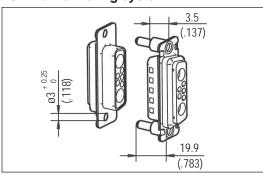
ø2.25 (.088)

RM84: RM8 4.40 threaded RM83: RM8 M3 threaded

FM: float mounting system

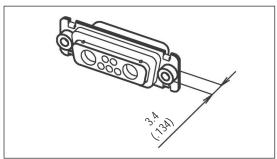
3.6 max. (.141 max.)



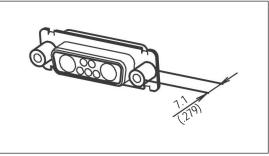


Straight and right angle version

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

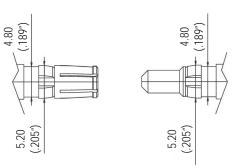


4F: 4.40 front female screwlock 3F: M3 front female screwlock



TECHNICAL DATA

High power contacts



Solder cup version

22 (.866') ØA ØB	22 (.866°) ØA ØB	16 (.622°)		
P. Plug	P/N Plug Socket		Dimer A mm (inch)	n sions 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

22 (.866°) ØA ()	22 (.866") ØA (.866") ØA			16 (.622°)
P. Plug	/N Socket	Current	Dimer A mm (inch)	nsions Bmm (inch)
L 17DM 53745-208	L 17DM 53744-207	10 to 20 Amp.	1.80 (.071″)	2.55 (.100″)
L 17DM 53745-207	L 17DM 53744-206	20 to 30 Amp.	2.80 (.110")	3.70 (.145")
L 17DM 53745-201	L 17DM 53744-201	30 to 40 Amp.	4.80 (.189″)	5.60 (.220")

Trim dimensions: 7.5 mm (.295")



Extraction tool for sizes 8 cts

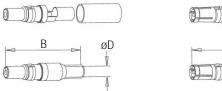


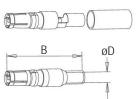
TW/E1

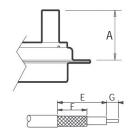
Straight shielded contacts

Crimp ferrule and inner solder

0

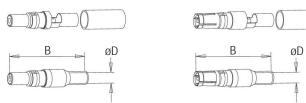


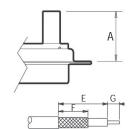




Туре	P/N	Dimensions (inch)			Cable - RG	Trim di	mensions	s (inch)
		A Max	В	D		Е	F	G
plug	L17DM 53740	18.8 (740")	23.6 (.929")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")
plug	L17DM 53740-1	18.8 (740")	23.6 (.929")	1.7 (.066")	179 B/U 316 B/U	7.9 (.311")	6.3 (.248")	2 (.078")
plug	L17DM 53740-3	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

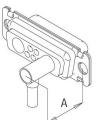


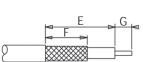


Туре	P/N	Dimensions (inch)			Cable - RG	Trim dir	nensions	(inch)
		A Max	В	D		Е	F	G
short plug	L17DM 53740-5000	17.0 (669")	21.8 (.858")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")
plug	L17DM 53740-5001	18.8 (740")	23.6 (.929")	1.7 (.066")	179 B/U 316 B/U	7.9 (.311")	6.3 (.248")	2 (.078")
plug	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″)

Right angled shielded contact

Crimp ferrule and inner solder



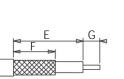


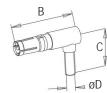


Туре	P/N	Dim	Dimensions (inch)			Trim di	imensions	s (inch)
		A Max	В	D		Е	F	G
plug	L17DM 53741	13.5 (.531″)	18.6 (.732")	1.0 (.039")	178 B/U	9.5 (.374″)	5.9 (.232")	1.6 (.062")
plug	L17DM 53741-1	13.5 (.531″)	18.6 (.732")	1.7 (.066")	179 B/U 316 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
plug	L17DM 53741-3	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







Туре	P/N	Dim	Dimensions (inch)			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")

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

Amphenol ⁶

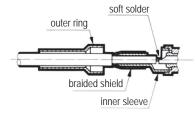
Extraction tool for sizes 8 cts L17D429SP

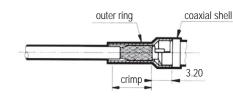


Cabling instructions for shielded contacts

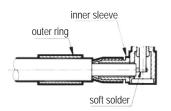
Straight crimp shielded contacts:

inner solder contact outer crimp contact





Right angle crimp shielded contacts:



Assembly method

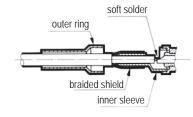
- Slide the outer ring over the cable jacket. Trim the cable according to the recommended dimensions.
- Insert the cable dielectric and the center conductor inside the inner sleeve.
- Solder the central conductor to the shielded center contacts.



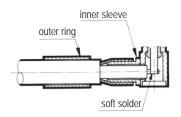


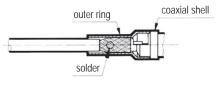
- Slide the outer ring towards the inner sleeve ans recover the braid.
- Using crimp hand tool equipped with the appropriate dies, crimp in the area defined.

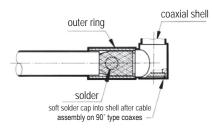
Solder straight shielded contacts:



Solder right angle shielded contacts:



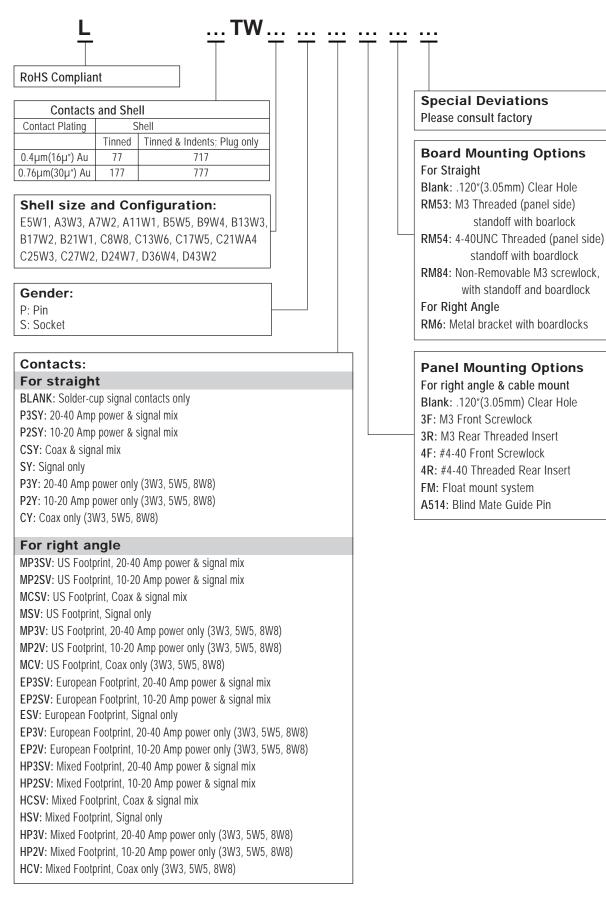




Assembly method

- 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.
- Slide the outer ring towards the inner sleeve ans recover the braid.
- Solder by introducing metal through the outer ring hole.

How to build your part number



W/E



SURFACE MOUNT CONNECTORS

Specifications

CHARACTERI STICS

Connectors according to MIL C24308 - NFC 93425-HE5

Materials and Platings
Steel with tin plating
High temperature (peak at 260°C) glass-filled thermoplastic, UL 94V-0
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
Brass, 3μm up to 5μm (118μ" up to 197μ") tinned over nickel 2μm up to 3 μm (78μ" to 118μ")
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)
Brass, 6μm up to 10μm (236μ" up to 394μ") tinned over nickel 2μm up to 3μm (78μ" up to 118μ")
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 temperature	85°C, peak at 105°C
Damp heat	56 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.

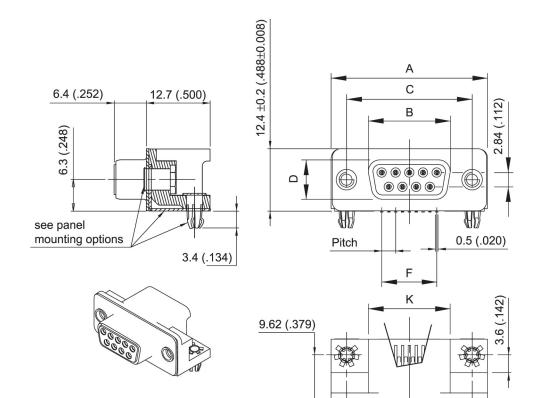
> Designed for Pick and Place SMT process

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

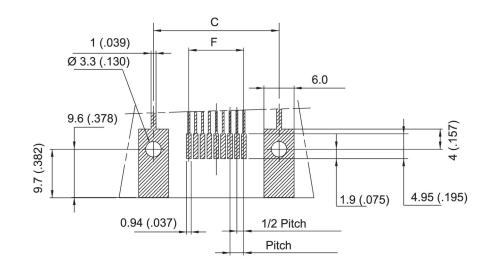


Amphenol

Shell Size Dimensions



PCB LAYOUT



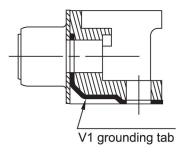
SHELL	mm (inch)						
SIZE	A	В	С	D	PITCH	F	К
	+0.05 (.002) -0.1 (.004)	0 -0.2 (.008)	±0.1 (.004)	0 -0.25 (.01)			
E	31.15 (1.226)	16.4 (.645)	25 (.984)	8.03 (.316)	2.74 (.1078)	10.97 (.432)	16.3 (.642)
Α	39.4 (1.551)	24.8 (.976)	33.3 (1.311)	8.03 (.316)	2.74 (.1078)	19.2 (.756)	24.6 (.968)
В	53.3 (2.098)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

Amphenol

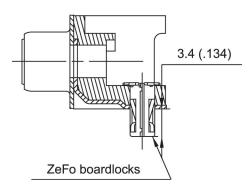
SM2 / E2

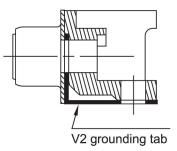
Panel mounting option

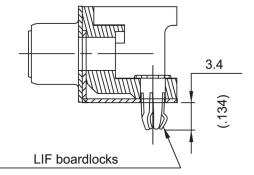
GROUNDING TABS:

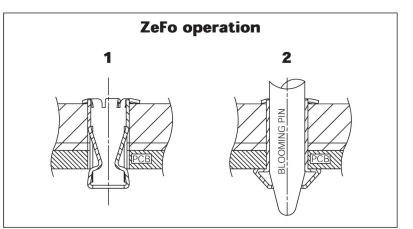


BOARDLOCKS:

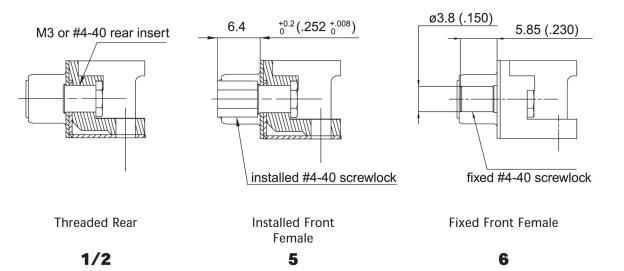






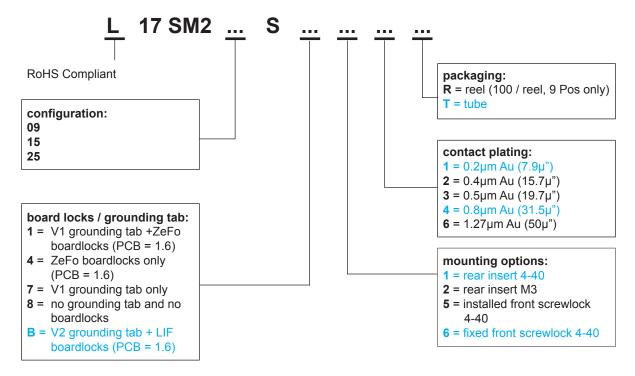


FLANGES ACCESSORIES:



Amphenol

How to order



: Standard options

For special request, please consult factory

Memo

Do not hesitate to contact us for further information



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

Stamped And Formed Contacts Solder-Cup And Straight PCB Termination

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

SPECIFICATIONS:

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; $100\mu^{"}$ (2.54 μ) min. tin-lead on termination area over $50\mu^{"}$ (1.27 μ m) min. nickel
Rear Insert Boardlock Screwlock	Brass, 100µ" (2.54µm) min. nickel plated Brass, 100µ" (2.54µm) min. nickel plated Brass, 100µ" (2.54µm) min. nickel plated
Serennoen	Brass, roop (2.5 ipin) mini meker 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

-67°F (-55°C) to +257°F (125°C)

MECHANICAL DATA

Single Contact Insertion Force Single Contact Withdrawal Force

1.19 lb. (0.54 kg.) max. 0.13 lb. (0.06 kg.) min.

Mating and Unmating Force Unit: lb. (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

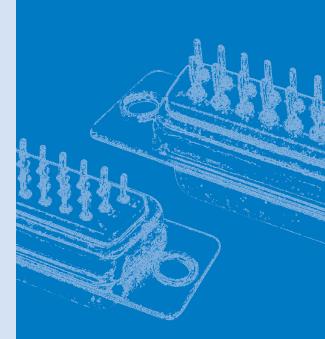
- gold flash
- 15µ" (0.381µm) gold
- 30µ" (0.76 µm) gold

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



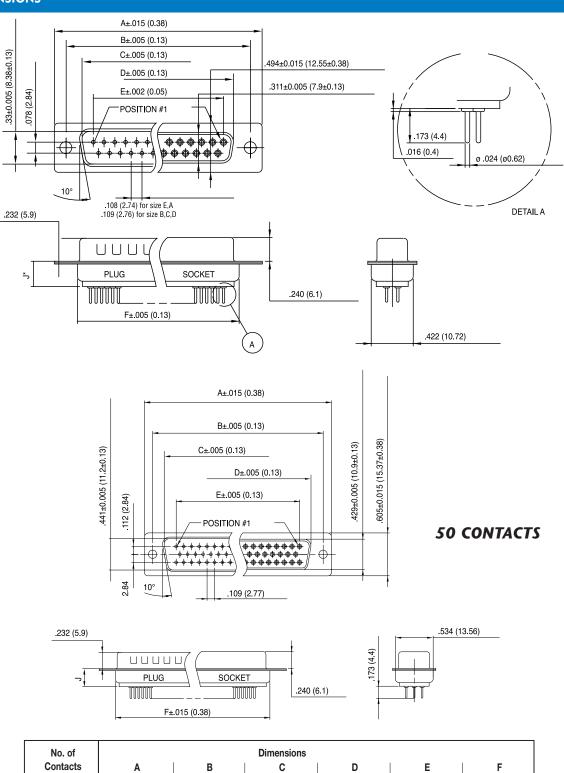
INCHES (MM)

SD SERIES



Stamped And Formed Contacts Solder-Cup And Straight PCB Termination

DIMENSIONS



50	2.64 (67.06)	2.41 (61.11)	2.08 (52.86)	2.06 (52.34)	1.75 (44.32)	2.18 (55.3)
						-
Telephone: (416) 754-5656 Fax: (416) 754-8668 E-Mail: sales@amphenolcanada.com						

.67 (16.92)

.972 (24.7)

1.53 (38.96)

2.18 (55.42)

.44 (11.09)

.76 (19.39)

1.31 (33.24)

1.96 (49.86)

.76 (19.28)

1.08 (27.51)

1.63 (41.30)

2.27 (57.71)

.64 (16.24)

.97 (24.56)

1.51 (38.38)

2.16 (54.76)

1.21 (30.84)

1.54 (39.24)

2.09 (53.04)

2.73 (69.32)

9

15

25

37

.98 (24.99)

1.31 (33.32)

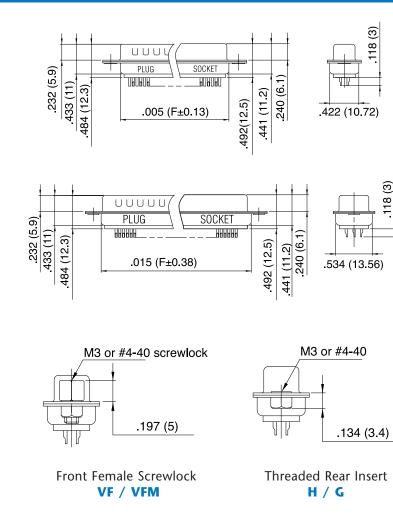
1.85 (47.04)

2.50 (63.50)

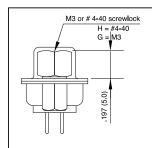
Stamped And Formed Contacts Solder-Cup And Straight PCB Termination

SD SERIES

50 CONTACTS



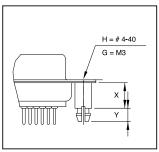
PANEL MOUNTING OPTION

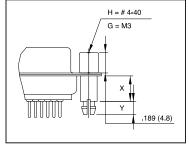


H = #4-40 G = M3 J J .232 (5.9)

Front Female Screwlock Threaded Rear Insert

PRINTED CIRCUIT BOARD TERMINATIONS





RM5 Standoff Boardlock RM

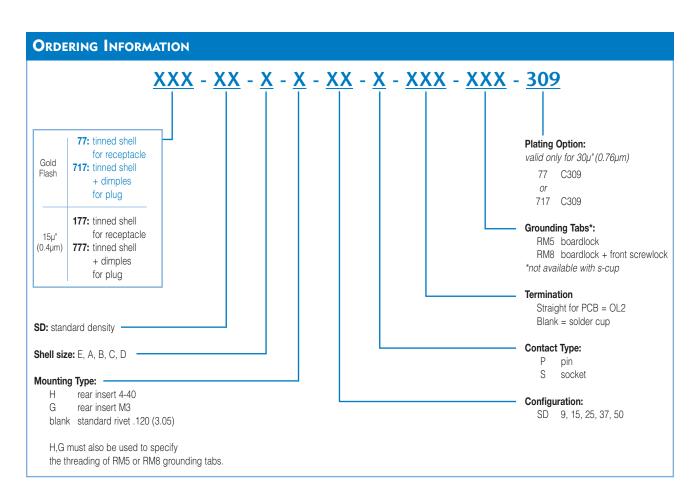
RM8 Standoff Boardlock

	RM5 RM8	RM5G RM8G
Х	.236 (6.0)	.500 (12.7)
Y	.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.

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 ste with or without dimples on plug connector	
Insulator	Glass-filled thermoplastic, UL 94V-0	
Rear Insert	Brass, 118µ" up to 197µ" (3µm up to 5µm) tinned over nickel 78µ" up to 118µ"	
	(2µm up to 3µm)	
Boardlock	Tin-lead plating 157µ" up to 236µ"	
	(4µm up to 6µm) over nickel	
	$78\mu''$ up to $118\mu'''$ (2 μ m up to 3 μ m)	
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	
e	over 78μ " up to 118μ " (2µm up to 3µm) nickel	
Straight Version	Full gold plating over 78μ " up to 118μ "	
	(2µm up to 3µm) nickel	

ELECTRICAL DATA

Current Rating7.5 AVoltage Rating300 V AC/rms 50HzWithstanding Voltage1000V AC/rms 50Hz for one minuteInsulation Resistance5000M Ω Contact ResistanceD: $8.5m\Omega$ max.DF: $5m\Omega$ max.

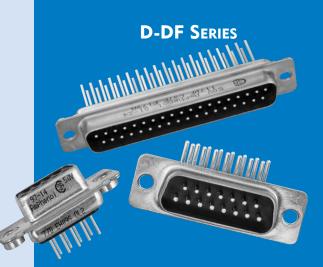
CLIMATIC DATA

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)

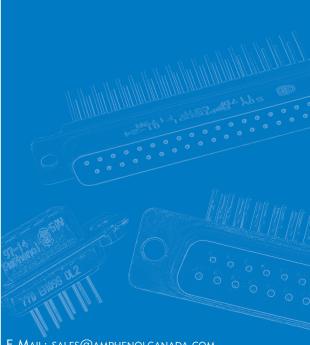


The Amphenol SD series features precision formed contacts, and 4 finger boardlocks.

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

-	 	trial
	III S	гга

- Telecom
- Any industry standard I / O connections

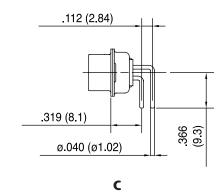


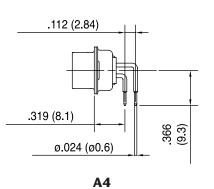
INCHES (MM)

D-DF SERIES

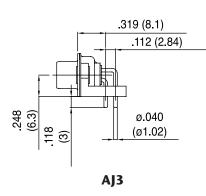
Fixed Machined Contact Connector

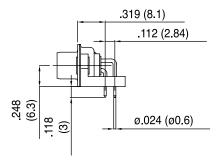
Without bracket





Plastic bracket

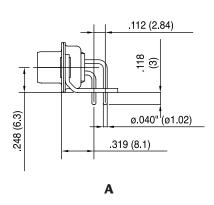


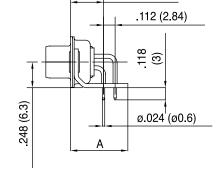


AJ4

248 (6.3)

Metal bracket





.319 (8.1)

AM4 : A=.519 (13.2) AZ4 : A=.453 (11.5) AM4B

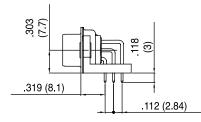
.59 (14.99)

126 (3.2)

.112 (2.84)

ø.024['](ø0.6)

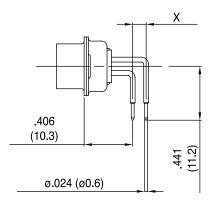
50 contacts



Fixed Machined Contact Connector

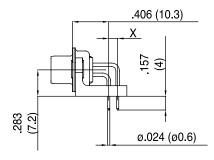
D-DF SERIES



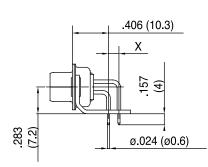


1AON : X= .100 (2.54) 1BON : X= .112 (2.84)

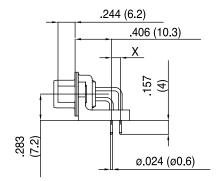
Plastic bracket



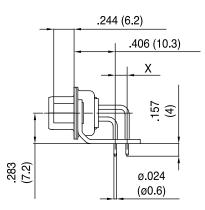
1APN : X = .100 (2.54) 1BPN : X = .112 (2.84)



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

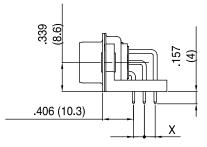


1AUN : X = .100 (2.54) 1BUN : X = .112 (2.84)



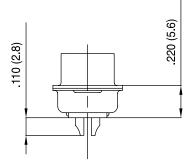
1ATN : X= .100 (2.54) 1BTN : X= .112 (2.84)

50 contacts

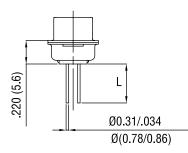


Fixed Machined Contact Connector

Solder cup

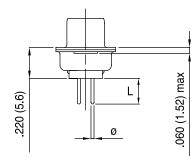


Wire Wrap



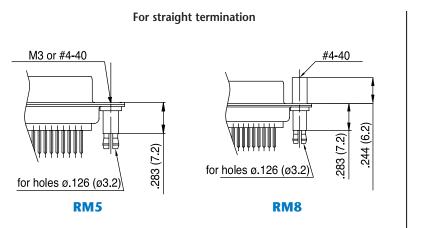
Termination	Nb of wraps	L
F179	2	.378 (9.6)
F179A	3	.512 (13)

Straight PCB



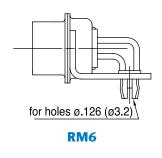
Termination	Ø	L
U	.024 (0.6)	.126 (3.2)
v	.040 (1.02)	.095 (2.4)
т	.024 (0.6)	.157 (4)
OL2	.02 (0.6)	.217 (5.5)

Grounding tabs



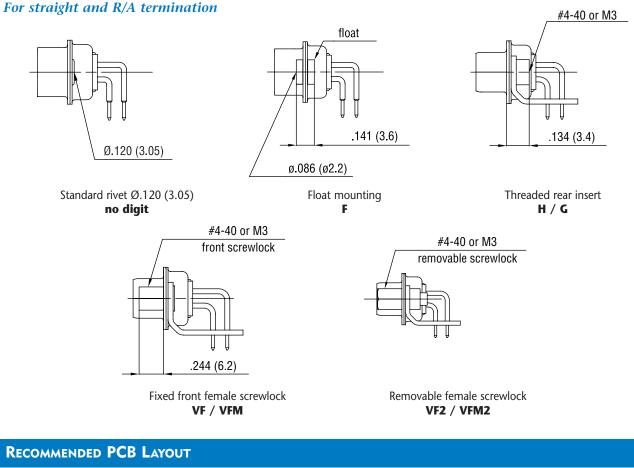
For R/A termination

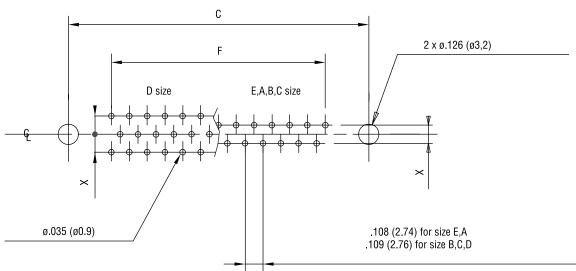
FOR PCB .062 (1.6)



Screw-Machined Contacts Fixed Machined Contact Connector

D-DF SERIES





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

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

D-DF SERIES

Screw-Machined Contacts Fixed Machined Contact Connector

ш 5 JJ

		XXXXX 	<u>×</u>	<u>×</u>	<u>xx</u>	<u>×</u>	<u>XXX</u>	<u>xx</u> <u>xx</u>		
8μ" (0.2μm)	17D:yellow chroma77D:tinned shell fo717D:tinned shell +17DF:yellowchromated sh	r receptacle dimples for plug						RM8 for str RM6 for rig VF front s VFM front s	s: aight PCB mou	inting + female lo nounting
20µ" (0.5µm)	77DF: tinned shell for receptacle 717DF: tinned shell + dimples for							VFM2 remov Termination: solder cup: no c	vable screwlock	< M3
30µ" (0.76µm)	117DF: yellow chroma 177DF: tinned shell for receptacle 777DF: tinned shell +								yth .378 (9.6) yth .512 (13)	
	Shell size: E, A, B, C, D – Mounting Options: ––––							V leng T leng	yth .126 (3.2) yth .094 (2.4) yth .157 (4) yth .216 (5.5)	tail ø.024 (ø0.6 tail ø.040 (ø1.0 tail ø.024 (ø0.6 tail ø.024 (ø0.6
	H rear insert 4-40 G rear insert M3 F float mounting							Right Angle Con MIL footprint without bracket:	nector: C tail	ø.040 (ø1.02
	no digit standard rivet *H, G must also be used the threading of RM5 gr	d to specify					L	plastic bracket:	A4 tail AJ3 tail AJ4 tail	ø.024 (ø0.6) ø.024 (ø0.6) ø.024 (ø0.6)
	Configuration: 09, 15, 25, Contact type:	37, 50						metal bracket:	A tail AM4 A AZ4 A AM4B footr	ø.040 (ø1.02 ø.519 (13.2) ø.453 (11.5) print ø.590 (14.99
	P pin S socket							European footprin		Jiiit 9.000 (14.00
								without bracket:	1AON X .	100 (2.54)
								plastic bracket:	1BON X . 1APN X . 1BPN X . 1AUN X .	100 (2.54) 112 (2.84) 100 (2.54)
								metal bracket:	1BUN X . 1AMN X . 1BMN X . 1ATN X . 1BTN X .	100 (2.54) 112 (2.84) 100 (2.54)

For special request, please consult factory

For Filtered D-Sub, see page 56.

ы.

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 Ω

CLIMATIC DATA

Operating Temperature

Damp Heat Salt Spray -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

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)

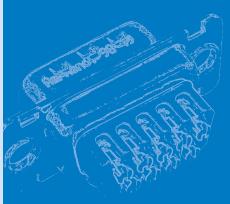
D-ST SERIES

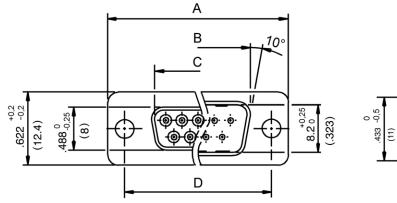


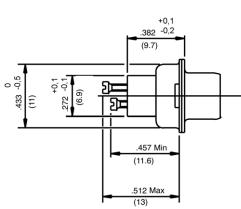
The Amphenol Screw Termination D-Sub series is especially designed for field applications.

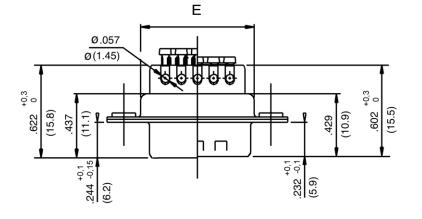
These new connectors permit easy wiring without any specific tool; only a standard electrician's screwdriver is required. Due to their reduced overall dimensions, these connectors are compatible with all standard hoods and accessories.

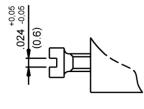
- Industry control of speed variators and calculators.
- Houses and public buildings - control of heating, air conditioning, lighting, shutters and fire safety.
- Infrastructures fluids control, motorway tolls and street lighting.



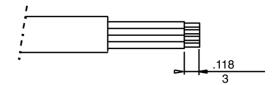








Cable stripping



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)

D-ST SERIES

ORDERING INFORMATION

<u>717D</u> - <u>E09</u>	<u>9</u> - <u>P</u> - <u>ST</u> - <u>1</u>
Class II: 77D Female connector	
Class I: 177D Female connector 777D Male connector, shells with dimples	Kit connector + hood option:1DPPK hood(See following description)2DSSK hood3DTZK hood4DVZK 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

RR-HR SERIES

Designed for high volume

savings.

production, Amphenol's rear release crimp connector and contacts provide significant cost

- EMI / RFI shell configuration.- Removable, reusable contacts.

- Automatic and manual tooling available.

IndustrialTelecom

• 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	with or without dim	ated over zinc or tinned steel apples on plug connector						
Insulator	Black glass-filled thermoplastic, UL 94V-0							
Rear Insert	Brass, 118µ" up to 197µ" (3µm up to 5µm) tinned over nickel 78µ" up to 118µ" (2µm up to 3µm)							
Screwlock	Brass, 236µ" up to 394µ" (6µm up to 10µm) tinned over nickel 78µ" up to 118µ" (2µm up to 3µm)							
Contacts	Under plating	Crimp side						
0 // (0 0)								

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
30µ" (0.76µm) gold	78µ"(2µm) nickel	gold flash or tin

ELECTRICAL DATA

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

CLIMATIC DATA

C

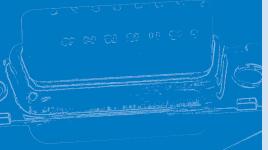
Operating Temperature

erature 67°F to 221°F (-55°C to +105°C)

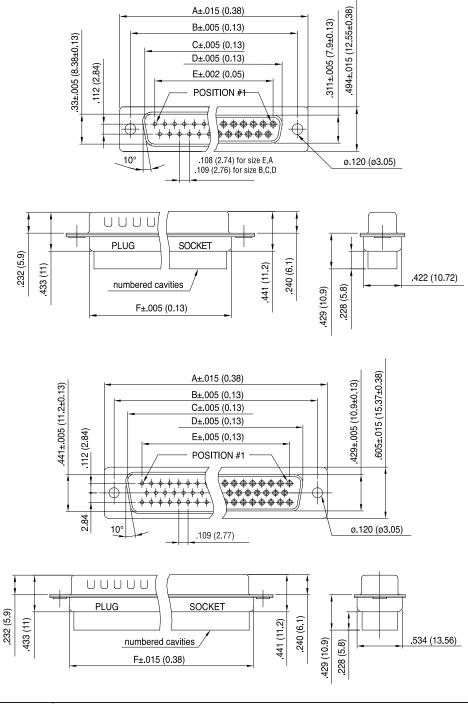
MECHANICAL DATA

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

No. of C	ontacts	Mate (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)

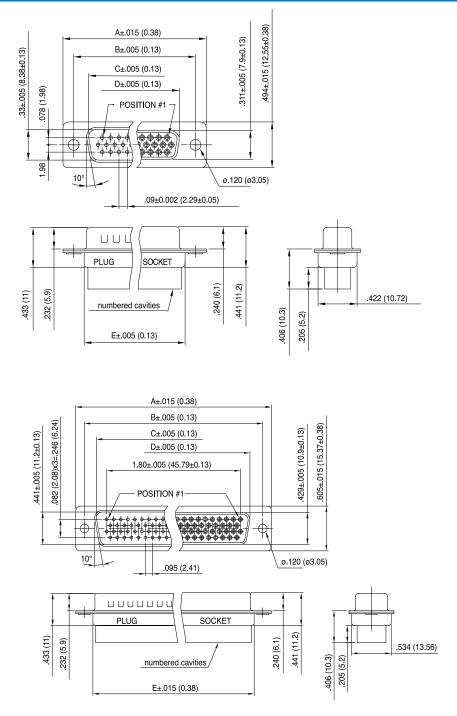


STANDARD DENSITY RR



No. of Contacts	Dimensions					
No. of Contacts	Α	В	С	D	Е	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)

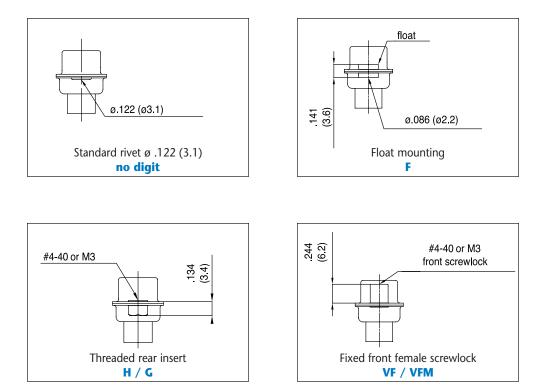
HIGH DENSITY HR



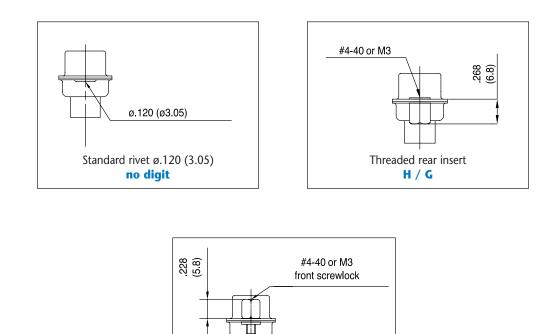
No. of Contacts					
No. of Contacts	Α	В	С	D	E
15	1.21 (30.84)	.98 (24.99)	.67 (16.92)	.64 (16.24)	.76 (19.28)
26	1.54 (39.24)	1.31 (33.32)	.972 (24.7)	.97 (24.56)	1.08 (27.51)
44	2.09 (53.04)	1.85 (47.04)	1.53 (38.96)	1.51 (38.38)	1.63 (41.30)
62	2.73 (69.32)	2.50 (63.50)	2.18 (55.42)	2.16 (54.76)	2.27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

RR-HR SERIES

PANEL MOUNTING OPTION



HIGH DENSITY



INCHES (MM)

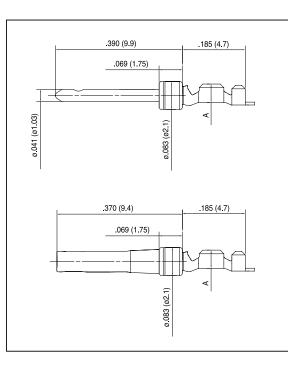
Fixed front female screwlock VF / VFM

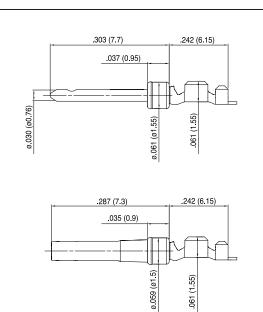
CONTACTS

Standard density

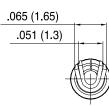


AWG	Α	В	С		
20-24	.071 (1.8)	.075 (1.9)	.098 (2.5)		
24-28	.055 (1.4)	.059 (1.5)	.066 (1.7)		

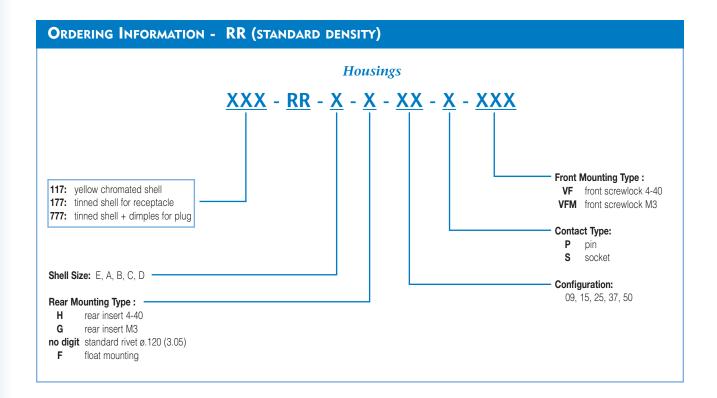


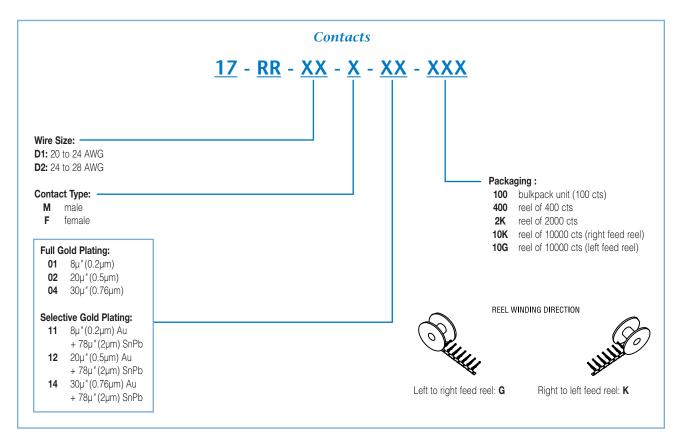


High density



RR-HR SERIES





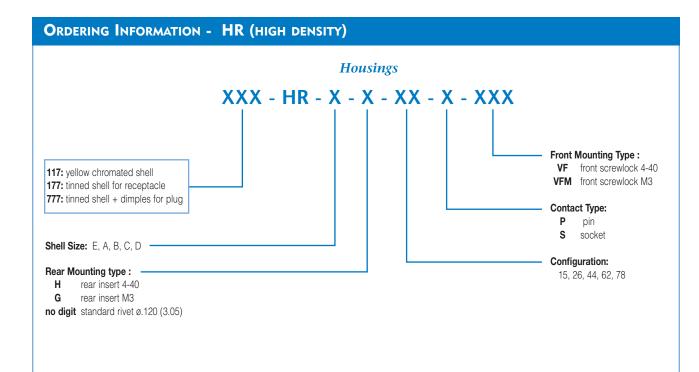
For special request, please consult factory

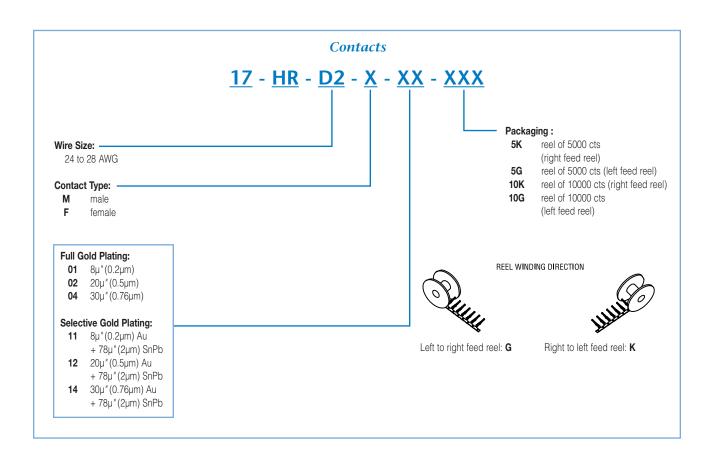
RR-HR SERIES

Stamped And Formed Contacts Rear Release Crimp Connectors

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N O





For special request, please consult factory

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

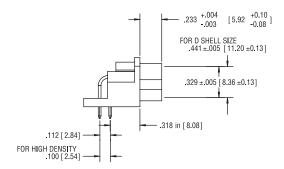
• Automatic crimp machine for reels of 2000 to 10000 contacts	970 MC
crimp dies: AWG 24 to 28	973 MC

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
- 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 Inserts Contacts Seal

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

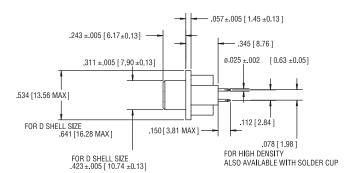
ELECTRICAL DATA

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

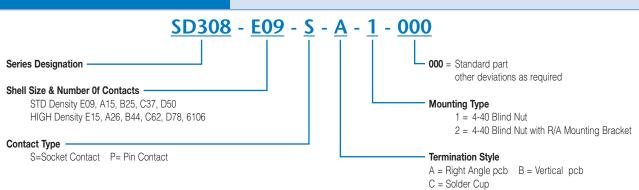
CLIMATIC DATA

Operating Temperature

-67°F to +257°F (-55°C to +125°C)



RECEPTACLE - SIDE VIEW



Filtered D-Sub Connectors, Ruggedized

FD308

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	5 A
Insulation Resistance	5 GIGOHM @ 500 VDC
Working Voltage	200 VDC
D.W.V.	500 VDC pin to pin & pin to shell
Capacitance	+/- 20% (see P/N description)

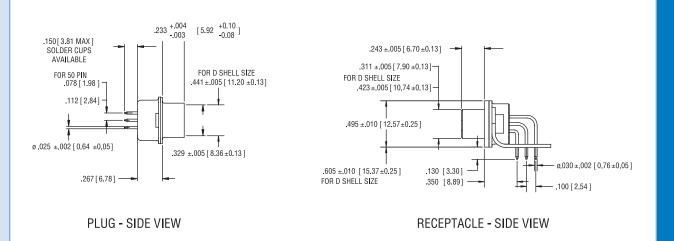
CLIMATIC DATA

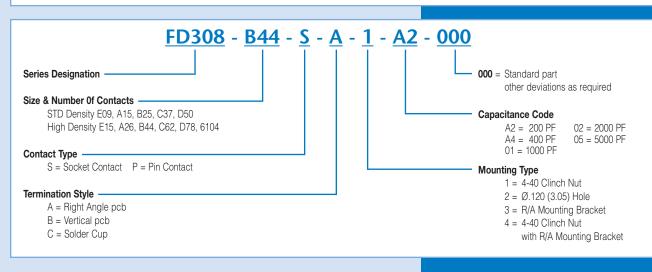
Operating Temperature

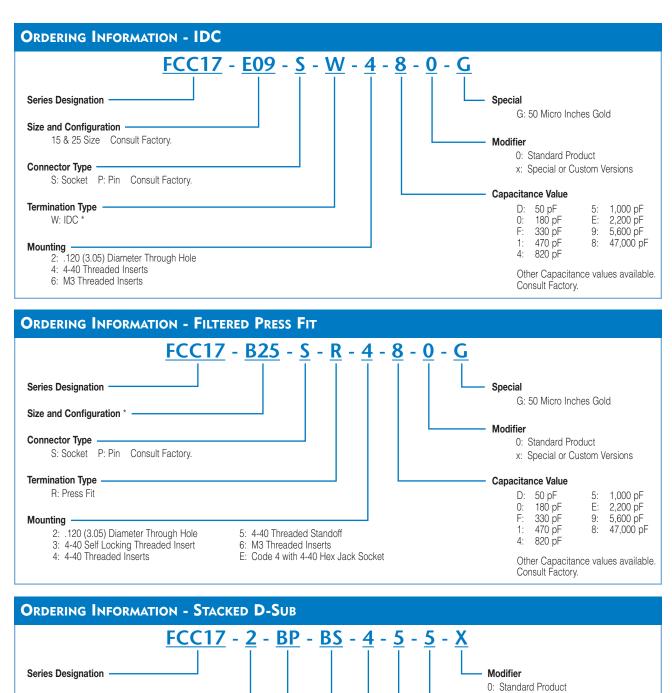
-67°F to +257°F (-55°C to +125°C)

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.

 Computers and Peripheral Equipment
 Avionics Systems Ideal For Retrofit Applications Or Late Design-In







Vertical Mounting Dimension Between Connectors -

- 1 = .625 (15.88)
- 2 = .750 (19.05)

Upper Connector Configuration (Size and Style) -

 EP:
 9 pin
 BP:
 25 pin

 ES:
 9 socket
 BS:
 25 socket

 AP:
 15 pin
 CP:
 37 pin

 AS:
 15 socket
 CS:
 37 socket

Lower Connector Configuration

(Size and Style) same as Upper Connector Configuration

Mounting -

2: .120 (3.05) Diameter Through Hole on Flanges

- 4: 4-40 Threaded Inserts on Flanges
- E: 4-40 Hex Jack Sockets (supplied loose)

D:

0.

F:

1: 4[.]

x: Special or Custom Versions

50 pF 180 pF

330 pF 470 pF

820 pF

Lower Connector Filter Capacitance same as Upper Connector Filter Capacitance Designation

Upper Connector Filter Capacitance

5:

E:

7:

g.

8.

1,000 pF

2,200 pF

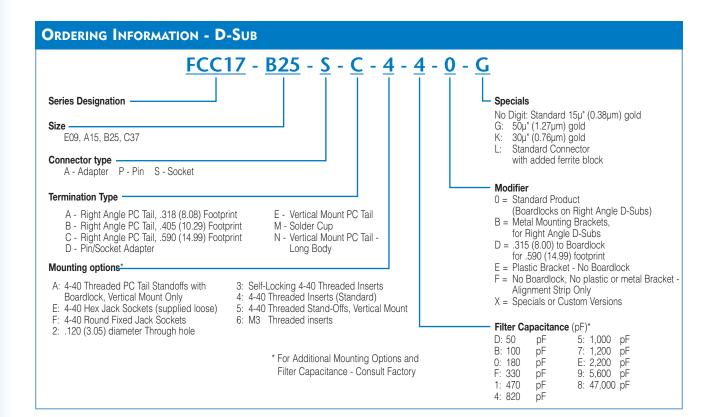
1,200 pf

5,600 pF

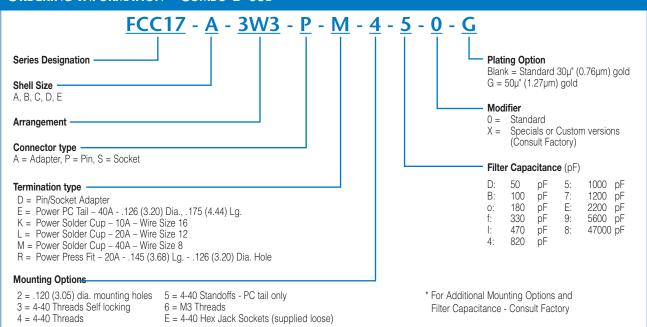
47,000 pF

Filter Capacitance - Consult Factory

FCC1 7







ACCESSORIES



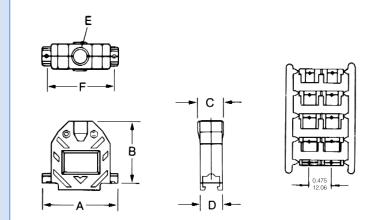
Amphenol's black plastic backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for most cable assemblies. This version is economical and highly durable. The split-grommet insert provides cable strain relief while making it easy to assemble.

Plastic Backshell

SPECIFICATIONS:

Styrene (UL 94 VO) Housing Material: Grommet Material: Polypropylene Mounting Hardware:

Steel, clear zinc finish *RoHS Compliant



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
Е		17E-1724-1	1.217	1.547	0.640	0.640	0.400	0.984	0.210	0.350	
	9	15	1/E-1/24-1	(30.91)	(39.29)	(16.26)	(16.26)	(10.16)	(24.99)	(5.33)	(8.89)
	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)
	37	62		2.734	1.830	0.906	0.640	0.726	2.500	0.350	0.640
С	37	62	17E-1727-1	(69.44)	(46.48)	(23.01)	(16.26)	(18.44)	(63.50)	(8.89)	(16.26)
		70	17-17001	2.645	1.855	0.940	0.770	0.726	2.406	0.350	0.640
D	50	78	17E-1728-1	(67.18)	(47.12)	(23.88)	(19.56)	(18.44)	(61.11)	(8.89)	(16.26)

Plated Plastic Backshell

ACCESSORIES

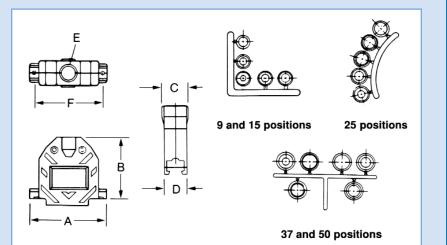
Amphenol's plated plastic backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for cable assemblies requiring compliance to FCC 20780. This version is highly durable and provides EMI/RFI protection. The rubber grommet compression insert forces the cable's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

SPECIFICATIONS:

Housing Material: Plating: Grommet Material: Mounting Hardware: ABS Polymer Nickel over copper 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		Dimensions Cable I						
Size	of Contacts	of Contacts	#	Α	В	С	D	E	F	Minimum	Maximum
Е	9	15	17E-1724-2	1.217	1.547	0.640	0.640	0.400	0.984	0.210	0.320
E	9	10	1/E-1/24-2	(30.91)	(39.29)	(16.26)	(16.26)	(10.16)	(24.99)	(5.33)	(8.13)
	15	26	17E-1725-2	1.545	1.505	0.640	0.640	0.400	1.312	0.210	0.320
A	15	20		(39.24)	(38.23)	(16.26)	(16.26)	(10.16)	(33.32)	(5.33)	(8.13)
В	25	44	17E-1726-2	2.000	1.655	0.710	0.640	0.522	1.857	0.230	0.450
D	23	44	17E-1720-2	(50.8)	(42.04)	(18.03)	(16.26)	(13.26)	(47.17)	(5.84)	(11.43)
С	37	62	17E-1727-2	2.730	1.830	0.906	0.640	0.726	2.500	0.350	0.650
C	37	02	1/E-1/2/-2	(69.34)	(46.48)	(23.01)	(16.26)	(18.44)	(63.50)	(8.89)	(16.51)
D	50	78	475 4700 0	2.645	1.855	0.940	0.440	0.726	2.406	0.350	0.650
U	50	10	17E-1728-2	(67.18)	(47.12)	(23.88)	(11.18)	(18.44)	(61.11)	(8.89)	(16.51)

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.

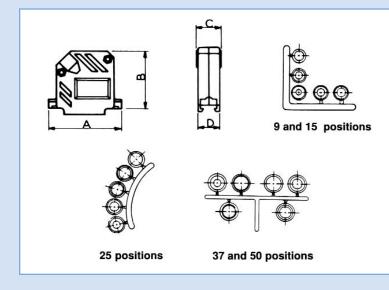
45° Plated Plastic Backshell

SPECIFICATIONS:

Housing Material:	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

			1								
Shell	Standard #	Hi-Density #	Part	Dimensions Cable Diame							eter Range
Size	of Contacts	of Contacts	#	Α	В	С	D	E	F	Minimum	Maximum
Е	9	15	17E-1824-2	1.217	1.430	0.640	0.640	0.400	0.984	0.210	0.320
	9	15	17E-1024-2	(30.91)	(36.32)	(16.26)	(16.26)	(10.16)	(24.99)	(5.33)	(8.13)
^	15	26	175 1005 0	1.545	1.568	0.640	0.640	0.400	1.312	0.210	0.320
A	15	20	17E-1825-2	(39.24)	(39.83)	(16.26)	(16.26)	(10.16)	(33.32)	(5.33)	(8.13)
В	25	44	17- 1000 0	2.090	1.735	0.710	0.640	0.522	1.857	0.230	0.450
D	25	44	17E-1826-2	(53.09)	(44.07)	(18.03)	(16.26)	(13.26)	(47.17)	(5.84)	(11.43)
	0 07 00	17- 1007 0	2.734	1.976	0.906	0.640	0.726	2.500	0.350	0.650	
C	37	62	17E-1827-2	(69.44)	(50.19)	(23.01)	(16.26)	(18.44)	(63.5)	(8.89)	(16.51)

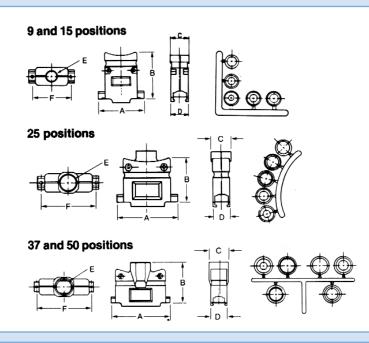
Two-Piece Die Cast Shielded Backshells

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.



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.

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	175 1657 00	1.217	1.430	0.640	0.640	0.400	0.984	0.210	0.320
E	9	15	17E-1657-09	(30.91)	(36.32)	(16.26)	(16.26)	(10.16)	(24.99)	(5.33)	(8.13)
	10	00		1.545	1.568	0.640	0.640	0.400	1.312	0.210	0.320
A	15	26	17E-1657-15	(39.24)	(39.83)	(16.26)	(16.26)	(10.16)	(33.32)	(5.33)	(8.13)
	05	4.4	175 1057 05	2.090	1.735	0.710	0.640.	0.522	1.857	0.230	0.450
В	25	44	17E-1657-25	(53.09)	(44.07)	(18.03)	(16.26)	(13.26)	(47.17)	(5.84)	(11.43)
0	07	60	175 1057 07	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)

Mouser Electronics

Authorized Distributor

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Amphenol:

 6E17SC025SAJ220
 L17D204182M3EX
 6E17H050FAJ100
 6E17HC30KBF200
 6E17HC30JBF201

 6E17HC18KAJ200
 6E17HC09FBF100
 L17D429SP
 L17D204182TM
 L17D204182M3E
 L17158709
 L17H2662120TM

 L17D2041849X
 6E17SC009SAJ120
 6E17SC009PAJ221
 6E17SC009PBJ121
 6E17SC009PBJ221

 6E17SC009SBJ120
 6E17SC015PBJ121
 6E17SC015SBJ120
 6E17SC037PAJ121
 6E17SC037SAJ220

 6E17SC037SBJ220
 6E17SC037SBJ220
 6E17SC037SBJ220
 6E17SC037SBJ220