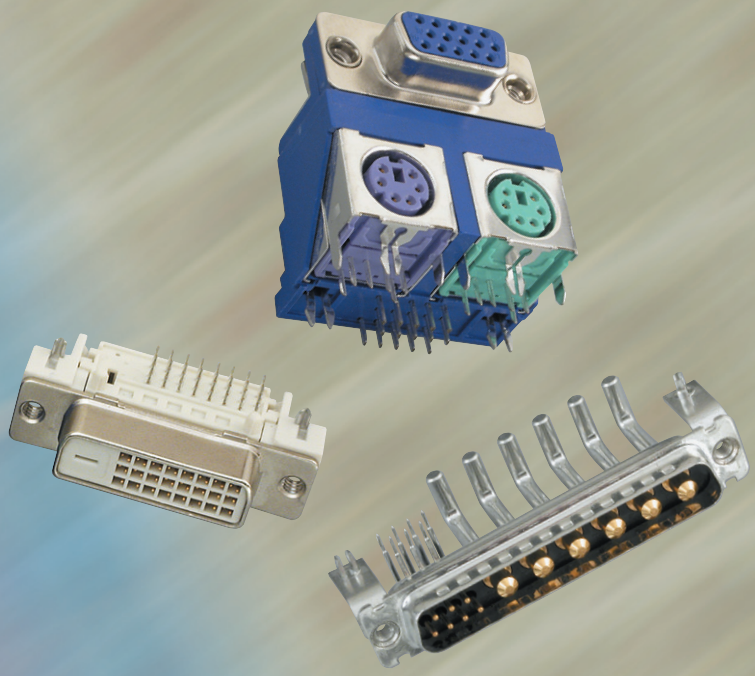
D-Subminiature Connectors



Amphenol®

ACCESSORIES | STANDARD DENSITY | 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:

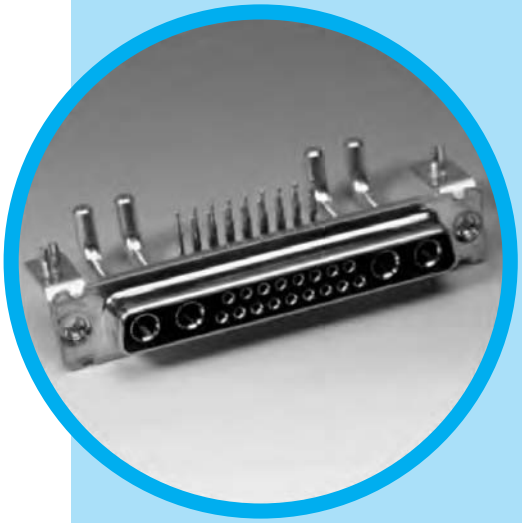
- Business equipment
- Electronic office systems
- Data communications
- Medical equipment
- Mobile communications
- Consumer electronics

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.

TW

Hybrid D'Sub series



CONTENT

Specifications

• **Connectors according to: MIL C24308 - NFC93425 - HE507**

Materials and platings	
Shells	Steel-Tin plating
Insulators	High temperature black thermoplastic
Signal contacts	Female: machined bronze
Material	Male: machined brass
Plating finish	16µ "Au over 79µ" Ni min.
Or	30µ" Au over 79µ" Ni min.
Shielded contacts	Female: machined bronze
Material	Male: machined brass
Plating	
Inner conductor	16µ "Au or 30µm Au over 79µ" Ni
Outer ring	10µ "Au over 79µ" Ni
Terminations	Tinned
Except solder cup and crimp terminations	gold flash
Power contacts	Female: machined bronze
Material	Male: machined brass
Plating	
Contacts	16µ "Au or 30µ" Au over 79µ" Ni
Terminations	Tinned
Except solder cup and crimp terminations	gold flash
Brackets	Steel-Tin plating
Front jackscrews	Brass-Tin plating
Rear clinch nuts	Brass-Tin plating
Boardlocks	Bronze-Tin plating
Stand-off	Brass-Tin plating

Electrical Data	
Current rating	
Signal contacts	7.5 A. with 10 A. peaks
Power contacts	
PCB terminations	10 to 40 A.
Solder cup terminations	10 to 40 A.
Crimp terminations	10 to 40 A.
Shielded contacts	0.5 A.
Voltage rating	
Signal and power contacts	300 V.R.M.S. at 50 Hz
Shielded contacts	150 V.R.M.S. at 50 Hz
Shielded contacts	
Frequency range	0-1 GHz
Attenuation	0.2dB
V. S. W. R.	1.4(+0.04/GHz)
Characteristic impedance	50 Ohms
Dielectric withstanding voltage	≥ 1000 V.R.M.S. at 50Hz
Insulation resistance	≥ 5000 M Ohms at 500 VDC
Contact resistance	≤ 5m Ohms
Shell resistance (electrical grounding)	≤ 1m Ohm

Climatic Data	
Operating temperature	-55˚C + 155˚C (with peaks up to 180˚C)
Damp heat	56 days (40˚C - 95% HR)
Salt spray	48 hours

Mechanical data	
Shells	With or without dimples
Contact retention force in dielectric material	> 40N
Maximum mating and unmating force	
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.
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

DESCRIPTION

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

APPLICATIONS

- Commercial
- Medical
- Industrial
- Telecom
- Any application requiring optimization of space

TW / E1

Amphenol RoHS Compliant EU 2002/95/EC

Amphenol

Shell and contacts plating

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

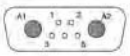
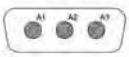
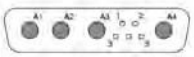
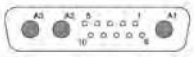
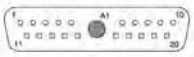
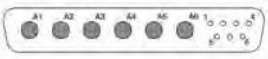
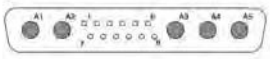
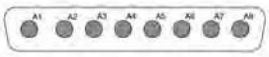
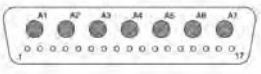
Types	Shells and plating
77 TW	Tin plated shell **Male and female*
717 TW	Tin plated shell with dimples *Male only*

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

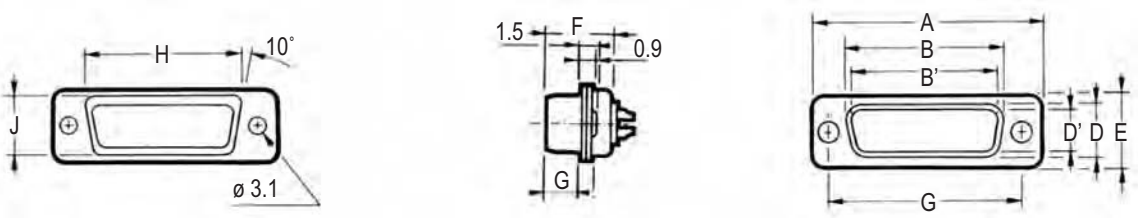
Types	Shells and plating
177 TW	Tin plated shell **Male and female*
777 TW	Tin plated shell with dimples *Male only*

Housing arrangements

Male front view

Arrangement ..... Shell size	 5W1 **E**	 7W2 **A**	 11W1 **A**
Arrangement ..... Shell size	 3W3 **A**	 5W5 **B**	 9W4 **B**
Arrangement ..... Shell size	 13W3 **B**	 17W2 **B**	 21W1 **B**
Arrangement ..... Shell size	 27W2 **C**	 13W6 **C**	 17W5 **C**
Arrangement ..... Shell size	 21W4 **C**	 8W8 **C**	 25W3 **C**
Arrangement ..... Shell size	 24W7 **D**	 36W4 **D**	 43W2 **D**

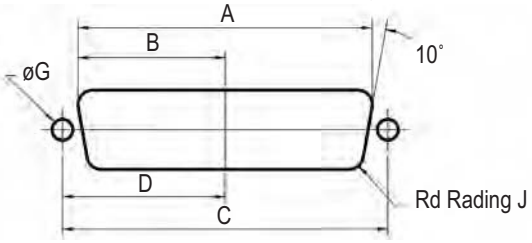
Shell size dimensions



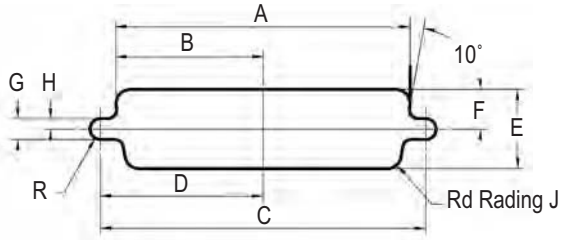
Shell size	Contact P: Pin S: Socket	A ±0.25 (±.010)	B 0/-0.20 (0/-.008)	B' +0.20/0 (+.008/0)	C ±0.10 (±.004)	D 0/-0.25 (0/-.010)	D' +0.25/0 (+.010/0)	E ±0.20 (±.008)	F +0.05/-0.20 (+.002/-.008)	F' +0.10/-0.20 (+.004/-.008)	G +0.10/-0.20 (+.004/-.008)	G' ±0.10 (±.004)	H +0.10/-0.40 (+.004/-.016)	J 0/-0.50 (0/-.020)
E	P	30.7 (1.209")		16.8 (.661")	25.0 (.984")		8.2 (.323")	12.4 (.488")		10.9 (.429")		5.9 (.232")	19.4 (.764")	11.0 (.433")
	S		16.4 (.646")			8.0 (.315")			11.1 (.437")		6.2 (.244")			
A	P	39.0 (1.535")		25.1 (.988")	33.3 (1.311")		8.2 (.323")	12.4 (.488")		10.9 (.429")		5.9 (.232")	27.7 (1.091")	11.0 (.433")
	S		24.8 (.976")			8.0 (.315")			11.1 (.437")		6.2 (.244")			
B	P	52.9 (2.083")		38.8 (1.528")	47.0 (1.850")		8.2 (.323")	12.4 (.488")		11.0 (.433")		5.8 (.228")	41.4 (1.630")	11.0 (.433")
	S		38.5 (1.513")			8.0 (.315")			11.1 (.437")		6.2 (.244")			
C	P	69.2 (2.724")		55.3 (2.177")	63.5 (2.500")		8.2 (.323")	12.4 (.488")		11.0 (.433")		5.8 (.228")	57.9 (2.280")	11.0 (.433")
	S		54.9 (2.161")			8.0 (.315")			11.1 (.437")		6.2 (.244")			
D	P	66.8 (2.630")		52.7 (2.075")	61.1 (2.406")		11.0 (.433")	15.2 (.598")		11.0 (.433")		5.8 (.228")	55.5 (2.185")	13.8 (.543")
	S		52.5 (2.067")			10.9 (.429")			11.1 (.437")		6.2 (.244")			

Panel cutouts

Optimal cutout for rear mounting

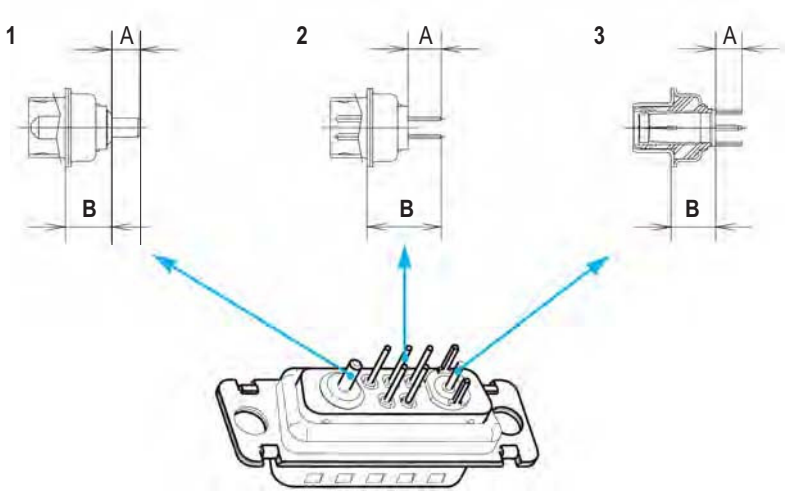


Standard cutout



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 (.984")	12.5 (.492")	13.0 (.512")	6.5 (.256")	3.0 (.118")	1.5 (.059")	2.1 (.083")
	Rear	20.5 (.807")	10.2 (.402")			11.4 (.449")	5.7 (.224")			3.4 (.0134")
A	Front	30.5 (1.201")	15.3 (.602")	33.3 (1.311")	16.7 (.657")	13.0 (.512")	6.5 (.256")	3.0 (.118")	1.5 (.059")	2.1 (.083")
	Rear	28.8 (1.134")	14.4 (.567")			11.4 (.449")	5.7 (.224")			3.4 (.0134")
B	Front	44.3 (1.744")	22.1 (.870")	47.0 (1.850")	23.5 (.925")	13.0 (.512")	6.5 (.256")	3.0 (.118")	1.5 (.059")	2.1 (.083")
	Rear	42.5 (1.673")	21.3 (.839")			11.4 (.449")	5.7 (.224")			3.4 (.0134")
C	Front	60.7 (2.390")	30.4 (1.197")	63.5 (2.500")	31.7 (1.248")	13.0 (.512")	6.5 (.256")	3.0 (.118")	1.5 (.059")	2.1 (.083")
	Rear	59.1 (2.327")	29.5 (1.161")			11.4 (.449")	5.7 (.224")			3.4 (.0134")
D	Front	58.3 (2.295")	29.2 (1.150")	61.1 (2.406")	30.6 (1.205")	15.8 (.622")	7.9 (.311")	3.0 (.118")	1.5 (.059")	2.1 (.083")
	Rear	56.3 (2.217")	28.2 (1.110")			14.1 (.555")	7.1 (.280")			3.4 (.0134")

Straight connector footprint



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

Description		Dimensions a	Dimensions 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

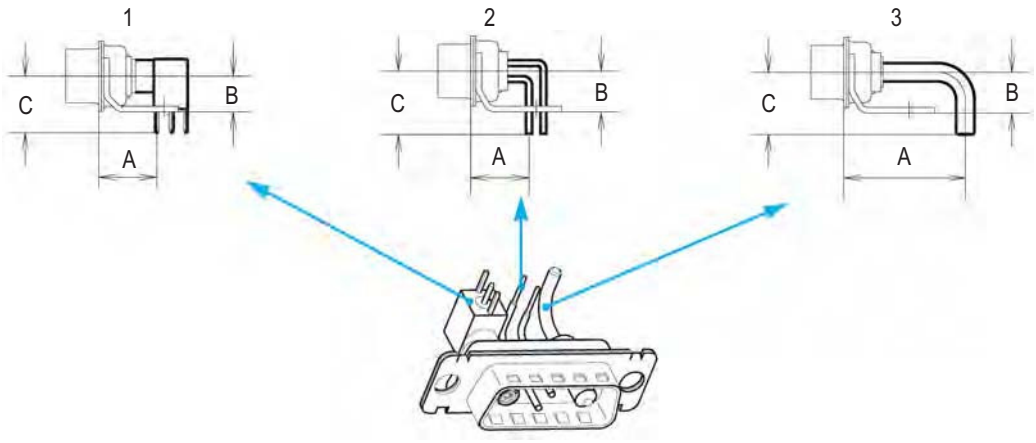
Arrangement with signal contacts

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

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

See above dimensions	**Size 8 Contacts**
P 3Y	Power only 3.2 mm DIA. (.126") (20 to 40 A)
P 2Y	Power only 2 mm DIA. (.0787") (10 to 20 A)
CY	Shielded only

Right angle connector footprint



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

		Europe			Mix			MIL		
		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		a	b	c	a	b	c	a	b	c
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

European footprint	Mixed footprint	MIL (U.S.) footprint	**Size 8 and 20 Contacts**
EP3SV	**HP3SV**	**MP3SV**	Power 3.2 mm DIA. (.126") (20 to 40 A) and signal
EP2SV	**HP2SV**	**MP2SV**	Power 2 mm DIA. (.0787") (10 to 20 A) and signal
-	**HCSV**	**MCSV**	Shielded and signal
ESV	**HSV**	**MSV**	Signal only

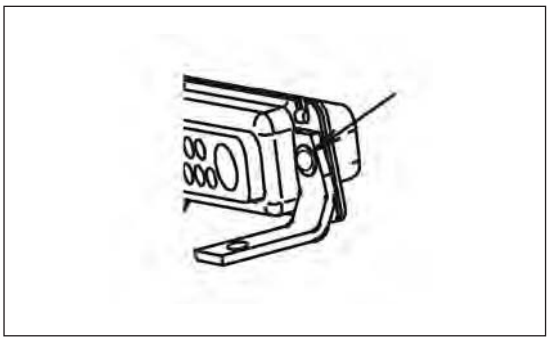
Arrangement without signal contacts
3W3 - 5W5 - 8W8

European footprint	Mixed footprint	MIL (U.S.) footprint	**Size 8 contacts only**
EP3V	**HP3V**	**MP3V**	Power only 3.2 mm DIA. (.126") (20 to 40 A)
EP2V	**HP2V**	**MP2V**	Power only 2.0 mm DIA. (.0787") (10 to 20 A)
-	**HCV**	**MCV**	Shielded only

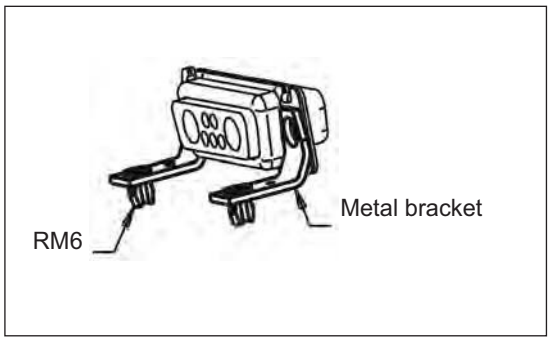
Mounting options

Right angle version
Connectors come equiped with metal brackets

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

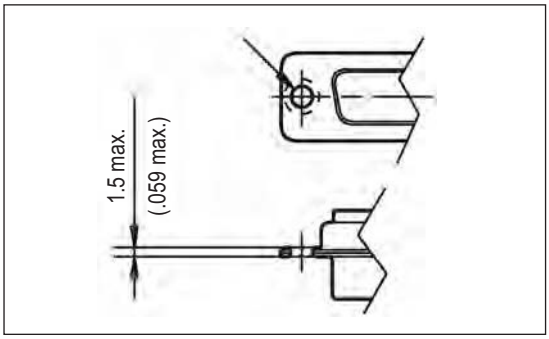


RM6: metal brackets + boardlock

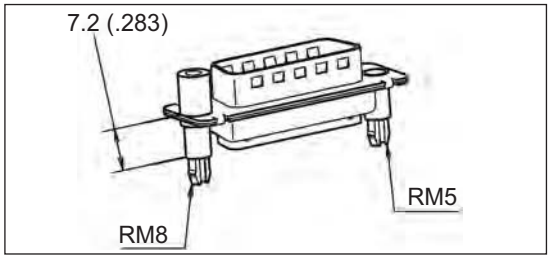


Straight version

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

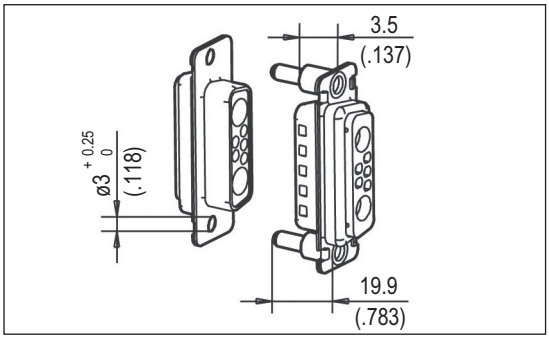


RM54: RM5 4.40 threaded
RM53: RM5 M3 threaded

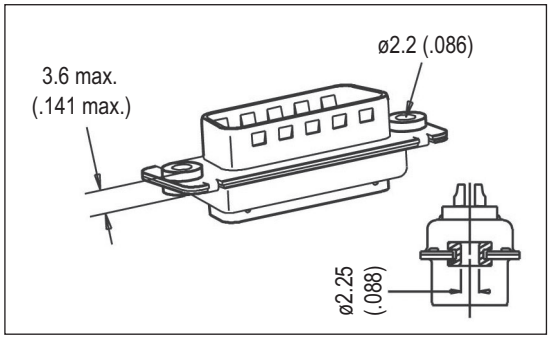


RM84: RM8 4.40 threaded
RM83: RM8 M3 threaded

A514: blind mating system

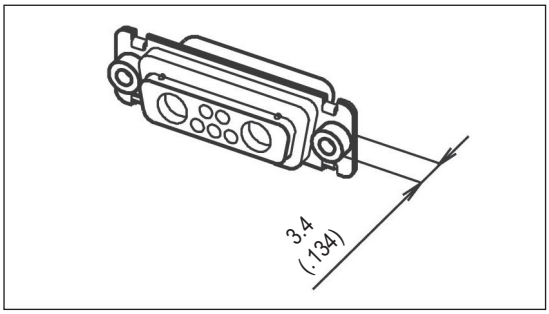


FM: float mounting system

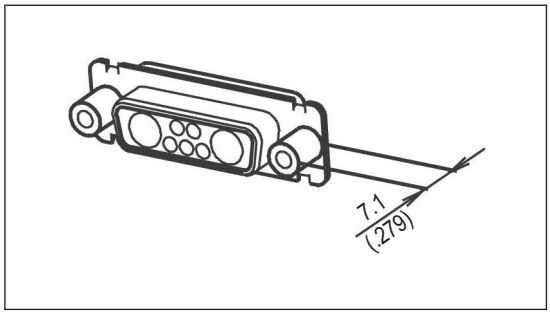


Straight and right angle version

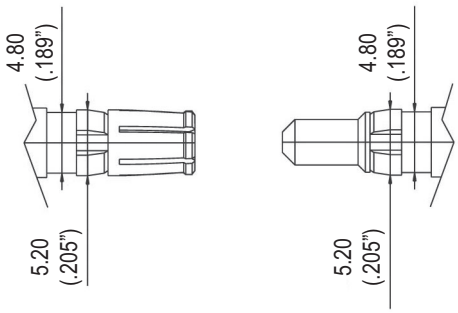
4R: 4.40 rear nut
3R: M3 rear nut



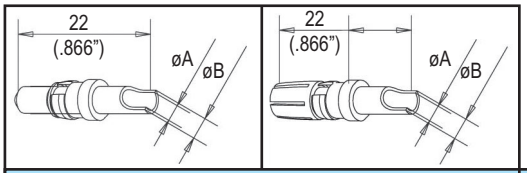
4F: 4.40 front female screwlock
3F: M3 front female screwlock

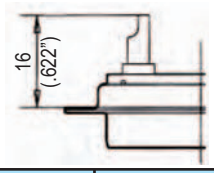


High power contacts



Solder cup version

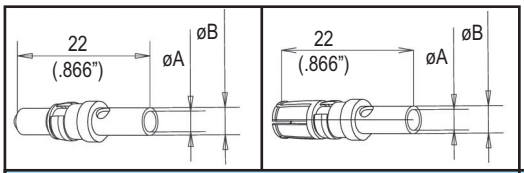


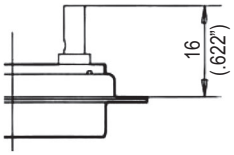


P/N		Current	Dimensions	
Plug	Socket		A mm (inch)	B mm (inch)
L 17DM 53745-8	L 17DM 53744-7	10 to 20 Amp.	1.80 (.071")	2.55 (.100")
L 17DM 53745-7	L 17DM 53744-6	20 to 30 Amp.	2.80 (.110")	3.70 (.145")
L 17DM 53745-1	L 17DM 53744-1	30 to 40 Amp.	4.80 (.189")	5.60 (.220")

Trim dimensions: 7.5 mm (.295")

Crimp version





P/N		Current	Dimensions	
Plug	Socket		A mm (inch)	B mm (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")

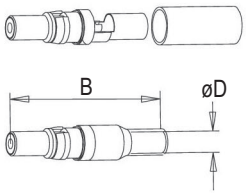
Trim dimensions: 7.5 mm (.295")

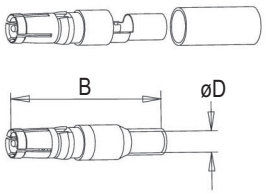
Crimping tool for all sizes
L17D479SP

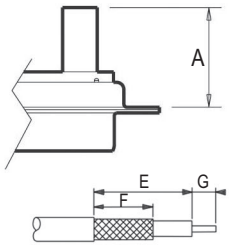
Extraction tool for sizes 8 cts

Straight shielded contacts

Crimp ferrule and inner solder

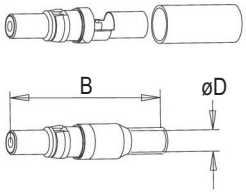


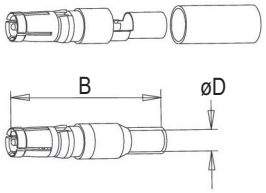


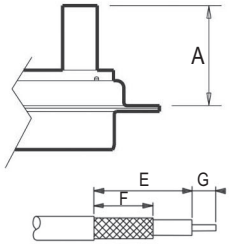


Type	P/N	Dimensions (inch)			Cable - RG	Trim dimensions (inch)		
		A Max	B	D		E	F	G
plug	**L17DM 53740**	18.8 (740")	23.6 (.929")	1.0 (.039")	**178 B/U**	7.9 (.311")	6.3 (.248")	2 (.078")
plug	**L17DM 53740-1**	18.8 (740")	23.6 (.929")	1.7 (.066")	**179 B/U 316 B/U**	7.9 (.311")	6.3 (.248")	2 (.078")
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



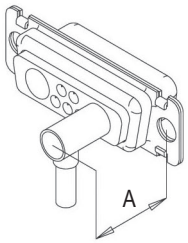


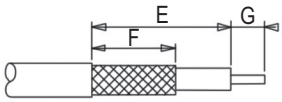


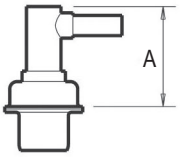
Type	P/N	Dimensions (inch)			Cable - RG	Trim dimensions (inch)		
		A Max	B	D		E	F	G
short plug	**L17DM 53740-5000**	17.0 (669")	21.8 (.858")	1.0 (.039")	**178 B/U**	7.9 (.311")	6.3 (.248")	2 (.078")
plug	**L17DM 53740-5001**	18.8 (740")	23.6 (.929")	1.7 (.066")	**179 B/U 316 B/U**	7.9 (.311")	6.3 (.248")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

Right angled shielded contact

Crimp ferrule and inner solder

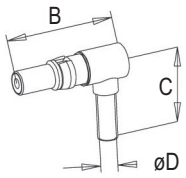


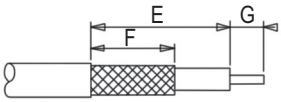


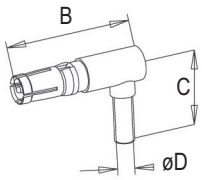


Type	P/N	Dimensions (inch)			Cable - RG	Trim dimensions (inch)		
		A Max	B	D		E	F	G
plug	**L17DM 53741**	13.5 (.531")	18.6 (.732")	1.0 (.039")	**178 B/U**	9.5 (.374")	5.9 (.232")	1.6 (.062")
plug	**L17DM 53741-1**	13.5 (.531")	18.6 (.732")	1.7 (.066")	**179 B/U 316 B/U**	9.5 (.374")	5.9 (.232")	1.6 (.062")
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







Type	P/N	Dimensions (inch)				Trim dimensions (inch)		
		A Max	B	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

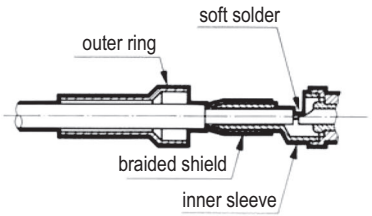
Extraction tool

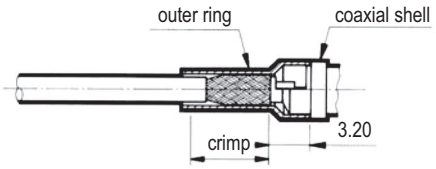
Extraction tool for sizes 8 cts
L17D429SP

Cabling instructions for shielded contacts

Straight crimp shielded contacts:

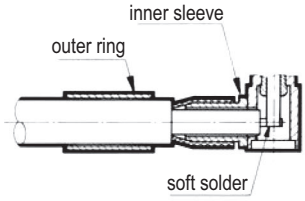
inner solder contact
outer crimp contact

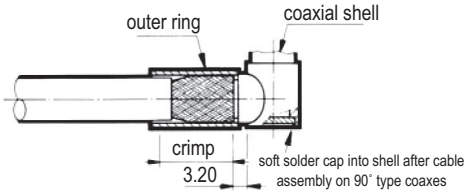




Right angle crimp shielded contacts:

inner solder contact
outer crimp contact

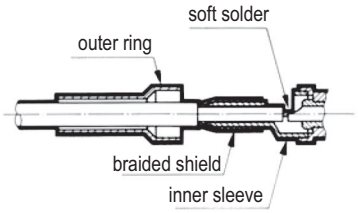


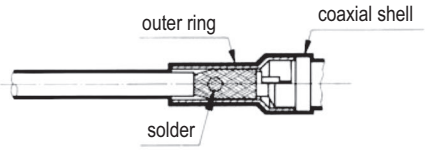


Assembly method

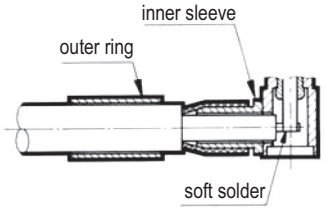
- Slide the outer ring over the cable jacket. Trim the cable according to the recommended dimensions.
- Insert the cable dielectric and the center conductor inside the inner sleeve.
- Solder the central conductor to the shielded center contacts.
- Slide the outer ring towards the inner sleeve ans recover the braid.
- Using crimp hand tool equipped with the appropriate dies, crimp in the area defined.

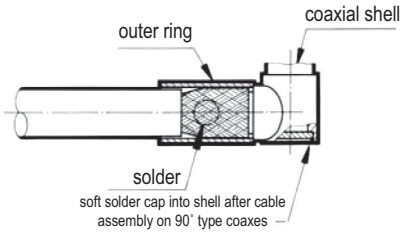
Solder straight shielded contacts:





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

L ... TW ... ...

RoHS Compliant

Contacts and Shell		
Contact Plating	Shell	
	Tinned	Tinned & Indents; Plug only
0.4µm(16µ") Au	77	717
0.76µm(30µ") Au	177	777

Shell size and Configuration:
E5W1, A3W3, A7W2, A11W1, B5W5, B9W4, B13W3, B17W2, B21W1, C8W8, C13W6, C17W5, C21WA4 C25W3, C27W2, D24W7, D36W4, D43W2

Gender:
P: Pin
S: Socket

Contacts:

For straight

BLANK: Solder-cup signal contacts only
P3SY: 20-40 Amp power & signal mix
P2SY: 10-20 Amp power & signal mix
CSY: Coax & signal mix
SY: Signal only
P3Y: 20-40 Amp power only (3W3, 5W5, 8W8)
P2Y: 10-20 Amp power only (3W3, 5W5, 8W8)
CY: Coax only (3W3, 5W5, 8W8)

For right angle

MP3SV: US Footprint, 20-40 Amp power & signal mix
MP2SV: US Footprint, 10-20 Amp power & signal mix
MCSV: US Footprint, Coax & signal mix
MSV: US Footprint, Signal only
MP3V: US Footprint, 20-40 Amp power only (3W3, 5W5, 8W8)
MP2V: US Footprint, 10-20 Amp power only (3W3, 5W5, 8W8)
MCV: US Footprint, Coax only (3W3, 5W5, 8W8)
EP3SV: European Footprint, 20-40 Amp power & signal mix
EP2SV: European Footprint, 10-20 Amp power & signal mix
ESV: European Footprint, Signal only
EP3V: European Footprint, 20-40 Amp power only (3W3, 5W5, 8W8)
EP2V: European Footprint, 10-20 Amp power only (3W3, 5W5, 8W8)
HP3SV: Mixed Footprint, 20-40 Amp power & signal mix
HP2SV: Mixed Footprint, 10-20 Amp power & signal mix
HCSV: Mixed Footprint, Coax & signal mix
HSV: Mixed Footprint, Signal only
HP3V: Mixed Footprint, 20-40 Amp power only (3W3, 5W5, 8W8)
HP2V: Mixed Footprint, 10-20 Amp power only (3W3, 5W5, 8W8)
HCV: Mixed Footprint, Coax only (3W3, 5W5, 8W8)

Special Deviations
Please consult factory

Board Mounting Options
For Straight
Blank: .120"(3.05mm) Clear Hole
RM53: M3 Threaded (panel side) standoff with boarlock
RM54: 4-40UNC Threaded (panel side) standoff with boardlock
RM84: Non-Removable M3 screwlock, with standoff and boardlock
For Right Angle
RM6: Metal bracket with boardlocks

Panel Mounting Options
For right angle & cable mount
Blank: .120"(3.05mm) Clear Hole
3F: M3 Front Screwlock
3R: M3 Rear Threaded Insert
4F: #4-40 Front Screwlock
4R: #4-40 Threaded Rear Insert
FM: Float mount system
A514: Blind Mate Guide Pin