



# TW

## Hybrid D'Sub series



MAIN CHARACTERISTICS

Specifications

- Connectors according to: MIL C24308 - NFC93425 - HE507

Materials and plating		Electrical Data	
<b>Shells</b>	Steel-Tin plating	<b>Current rating</b>	
<b>Insulators</b>	High temperature black thermoplastic	<b>Signal contacts</b>	7.5 A. with 10 A. peak
<b>Signal contacts</b>	Female: machined bronze	<b>Power contacts</b>	
<b>Material</b>	Male: machined brass	<b>PCB terminations</b>	10 to 40 A.
<b>Plating finish</b>	Flash, 15µ" Au over 79µ" Ni min. or 30µ" Au over 79µ" Ni min.	<b>Solder cup terminations</b>	10 to 40 A.
<b>Shielded contacts</b>	Female: machined bronze	<b>Crimp terminations</b>	10 to 40 A.
<b>Material</b>	Male: machined brass	<b>Shielded contacts</b>	0.5 A.
<b>Plating</b>		<b>Voltage rating</b>	
<b>Inner conductor</b>	15µ" Au or 30µ" Au over 79µ" Ni	<b>Signal and power contacts</b>	300 V.R.M.S. at 50 Hz
<b>Outer ring</b>	Flash Au over 79µ" Ni	<b>Shielded contacts</b>	150 V.R.M.S. at 50 Hz
<b>Terminations</b>	Tinned	<b>Shielded contacts</b>	
<b>Except solder cup and crimp terminations</b>	30µ" Au	<b>Frequency range</b>	0-1 GHz
<b>Power contacts</b>	Female: machined bronze	<b>Attenuation</b>	0.2dB
<b>Material</b>	Male: machined brass	<b>V. S. W. R.</b>	1.4(+0.04/GHz)
<b>Plating</b>		<b>Characteristic impedance</b>	50 Ohms
<b>Contacts</b>	Flash, 15µ" Au or 30µ" Au over 79µ" Ni	<b>Dielectric withstanding voltage</b>	≥ 1000 V.R.M.S. at 50Hz
<b>Terminations</b>	Tinned	<b>Insulation resistance</b>	≥ 5000 M Ohms at 500 VDC
<b>Except solder cup and crimp terminations</b>	15µ" Au	<b>Contact resistance</b>	≤ 5m Ohms
<b>Brackets</b>	Steel-Tin plating	<b>Shell resistance (electrical grounding)</b>	≤ 1m Ohm
<b>Front jackscrews</b>	Brass-Tin plating		
<b>Rear clinch nuts</b>	Brass-Tin plating		
<b>Boardlocks</b>	Bronze-Tin plating		
<b>Stand-off</b>	Brass-Tin plating		

Climatic Data		Mechanical data	
<b>Operating temperature</b>	-55°C +155°C (with peak of 180°C)	<b>Shells</b>	With or without dimples
<b>Damp heat</b>	56 days (40°C -95% RH)	<b>Contact retention force in dielectric material</b>	> 40N
<b>Salt spray</b>	48 hours	<b>Maximum mating and unmating force</b>	
		<b>With dimples</b>	E size = 70 N A size = 80 N B size = 100 N C size = 150 N D size = 180 N
		<b>Without dimples</b>	E size = 30 N A size = 50 N B size = 80 N C size = 120 N D size = 160 N
		<b>Compatible with process</b>	
		<b>IR - Air convection</b>	260°C for 20s.
		<b>Resistance to solder iron heat</b>	260°C for 30s.
		<b>Mating cycles</b>	100 (class III) 200 (class II) 500 (class I)



DESCRIPTION

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

This economic series was first 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 fixed in the insulator.

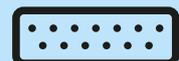
A complete range of housings are also available for cable application.

*Full series  
multiple  
arrangement  
connectors*

APPLICATIONS

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

TW / E1



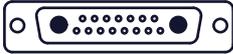
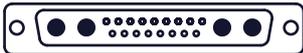
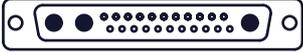
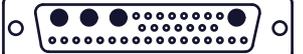
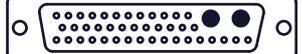
**Amphenol**

## Shell and contact plating

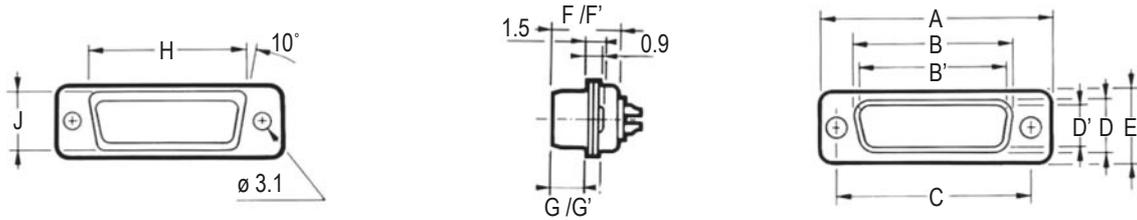
CLASS 3 Flash Gold Signal & Power		CLASS 2 .4um(15u") Signal, Power, Coax		CLASS 1 .76um(30u") Signal, Power Coax	
Type	Shell + Plating	Type	Shell + Plating	Type	Shell + Plating
<b>76</b>	Tin plated shell Pin or Socket	<b>77</b>	Tin plated shell Pin or Socket	<b>177</b>	Tin plated shell Pin or Socket
<b>716</b>	Tin plated shell with grounding dimples-Pin only	<b>717</b>	Tin plated shell with grounding dimples-Pin only	<b>777</b>	Tin plated shell with grounding dimples-Pin only

## Housing arrangement

### Male front view

Arrangement... Shell size.....	 2W2 E	 P2W2 E	 P3W3 E
Arrangement... Shell size.....	 5W1 A	 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.....	 21WA4 C	 8W8 C	 25W3 C
Arrangement... Shell size.....	 24W7 D	 36W4 D	 43W2 D

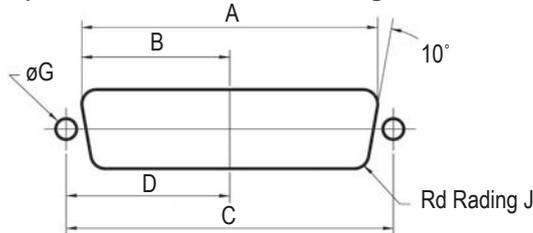
## Shell size dimensions



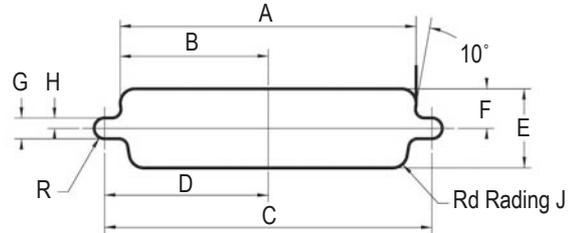
Shell size	Contact P: Pin S: Socket	A ±0.25 (±.010)	B 0/-0.20 (0/-0.008)	B' +0.20/0 (+.008/0)	C ±0.10 (±.004)	D 0/-0.25 (0/-0.10)	D' +0.25/0 (+.010/0)	E ±0.20 (±.008)	F +0.05/-0.20 (+.002/-0.008)	F' +0.10/-0.20 (+.004/-0.008)	G +0.10/-0.20 (+.004/-0.008)	G' ±0.10 (±.004)	H +0.10/-0.40 (+.004/-0.16)	J 0/-0.50 (0/-0.20)
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

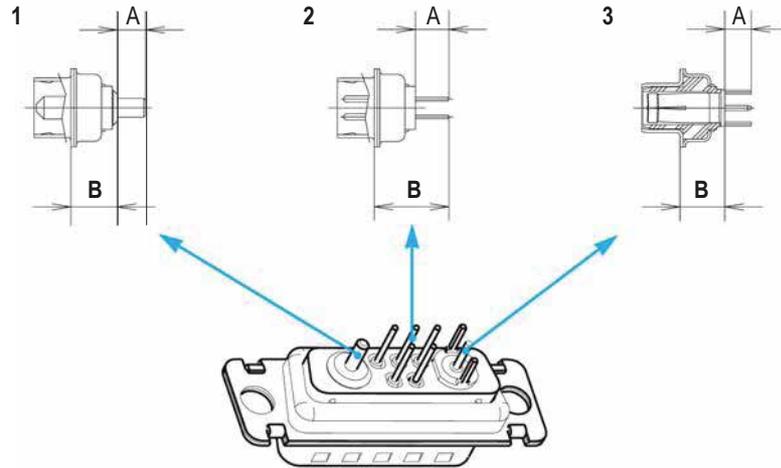


Standard cutout



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")							
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")							
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")							
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")							
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")							

## Straight connector footprint



Signal tail 0.6 mm Dia. (.024")  
 1.6 mm (.063")PCB  
 For other PCB thickness: consult factory.

Description		Dimensions	
		a	b
Power 3.2mm(.126") tail dia	1	4.80 mm (.189")	7.2 mm (.283")
Power 2.0mm(.078") tail dia	1	4.80 mm (.189")	7.2 mm (.283")
Shielded	3	4.00 mm (.157")	7.2 mm (.283")
Signal	2	5.30 mm (.209")	11.50 mm (.453")

## Straight contact combinations

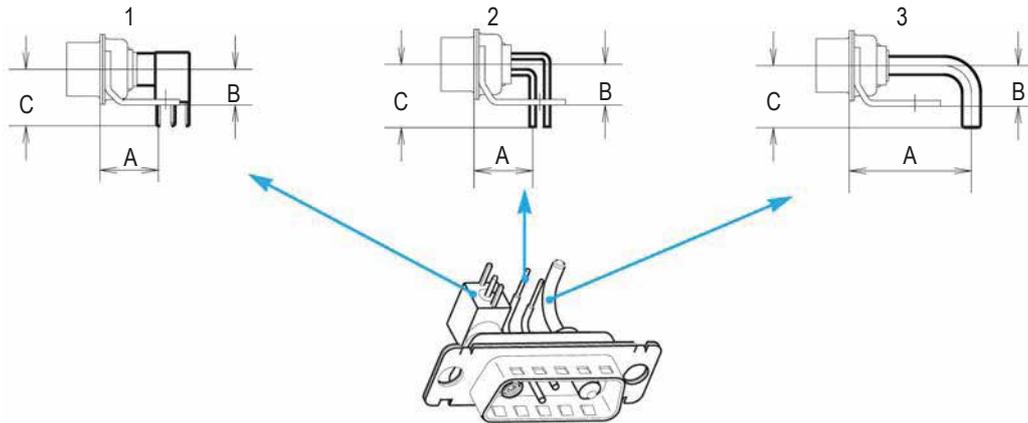
### Arrangement with signal contacts

See above dimensions	<b>Size 8 and 20 Contacts</b>
↓	
<b>P 3SY</b>	Power 3.2 mm DIA. (.126") (20 to 40 A) and signal
<b>P 2SY</b>	Power 2 mm DIA. (.078") (10 to 20 A) and signal
<b>CSY</b>	Shielded and signal
<b>SY</b>	Signal only
No reference	Signal (Size 20) with solder cup terminations <i>Housing preloaded with contacts</i>

### Arrangement without signal contacts 2W2 - 3W3 - 5W5 - 8W8

See above dimensions	<b>Size 8 Contacts</b>
↓	
<b>P 3Y</b>	Power only 3.2 mm DIA. (.126") (20 to 40 A)
<b>P 2Y</b>	Power only 2 mm DIA. (.078") (10 to 20 A)
<b>CY</b>	Shielded only

## Right angle connector footprint



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

Description	Europe			Mix			MIL		
	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 2.0mm(.078") 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 3.2mm(.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 correspond to sizes E to C. Consult factory for D sizes.  
 Connector comes equipped 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. (.078") (10 to 20 A) and signal
-	HCSV	MCSV	Shielded and signal
ESV	HSV	MSV	Signal only

### Arrangement without signal contacts 2W2 - 3W3 - 5W5 - 8W8

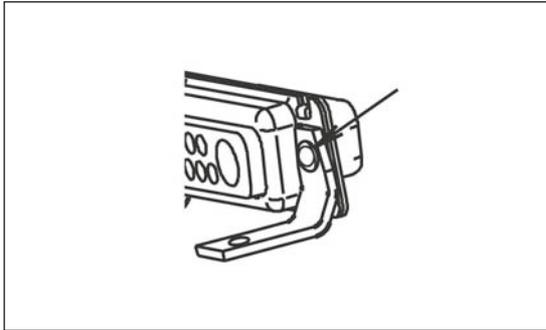
European footprint	Mixed footprint	MIL (U.S.) footprint	Size 8 contacts only
EP3V	HP3V	MP3V	Power only 3.2 mm DIA. (.126") (20 to 40 A)
EP2V	HP2V	MP2V	Power only 2.0 mm DIA. (.078") (10 to 20 A)
-	HCV	MCV	Shielded only

## Mounting options

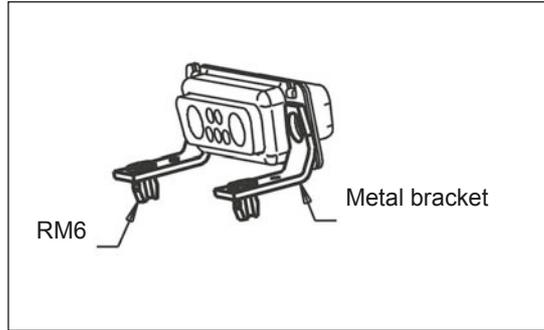
### Right angle version

Connectors come equipped with metal brackets

**BLANK:** Metal brackets

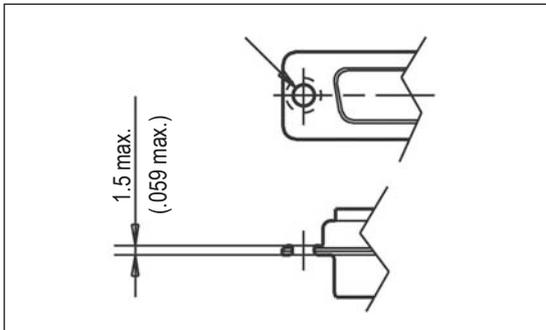


**RM6:** Metal brackets + boardlock

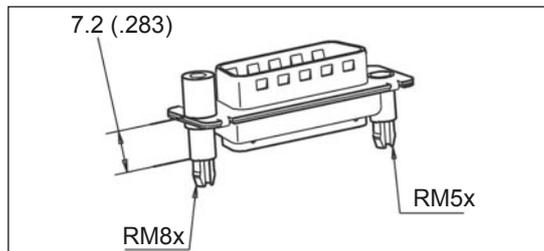


### Straight version

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

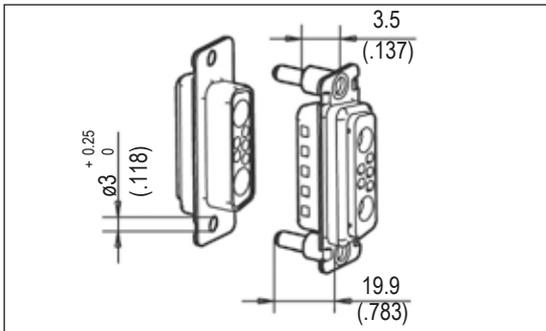


**RM54:** 4-40 threaded standoff and B/L  
**RM53:** M3 threaded standoff and B/L

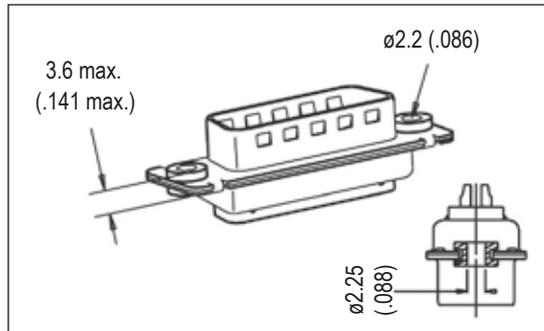


**RM84:** 4-40 fixed screwlocks+RM54 (combo)  
**RM83:** M3 removable screwlocks + RM53

**A514:** blind mating system



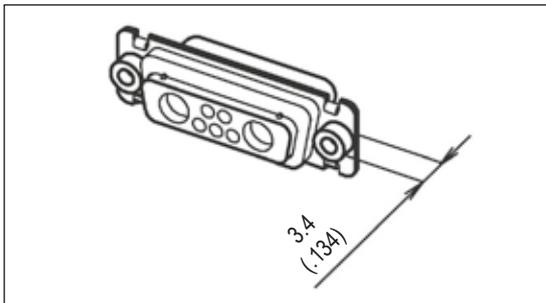
**FM:** float mounting system



### Straight and right angle version

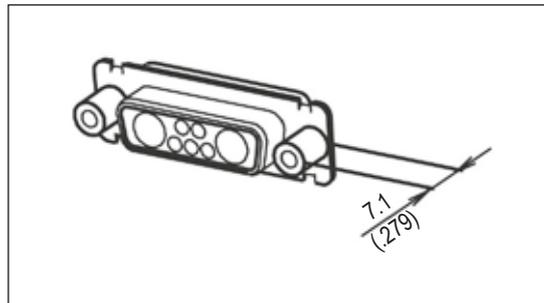
**4R:** 4-40 rear nut

**3R:** M3 rear nut

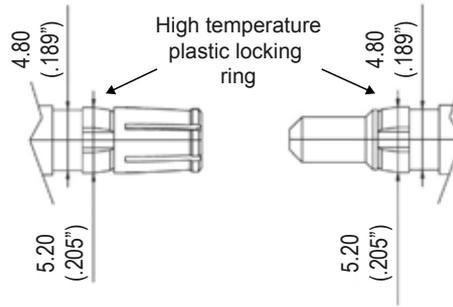


**4F:** 4-40 fixed front female screwlock

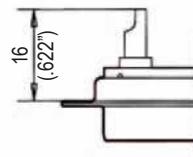
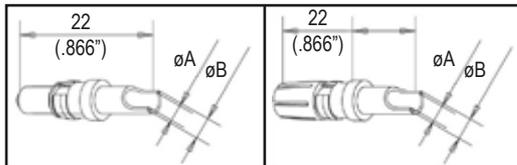
**3F:** M3 fixed front female screwlock



## High power contacts



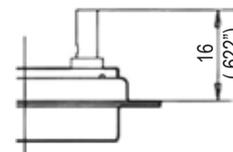
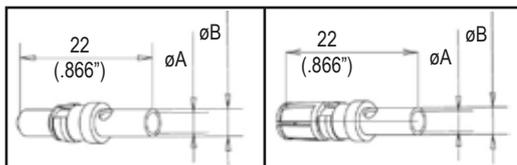
## Solder cup version



P/N		Current	Dimensions	
Pin	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



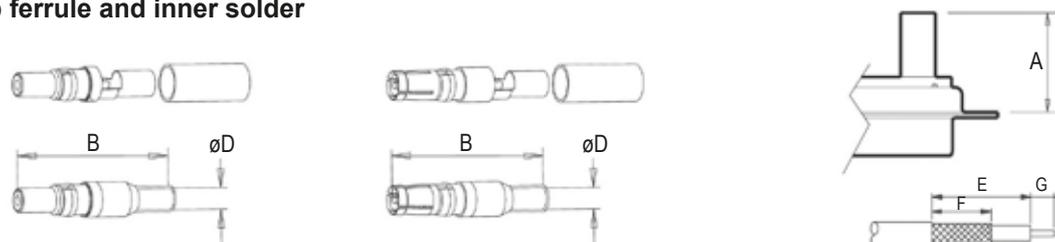
P/N		Current	Dimensions	
Pin	Socket		A mm (inch)	B mm (inch)
L 17DM 53745-208	L 17DM 53744-207	10 to 20 Amp.	1.80 (.071")	2.55 (.100")
L 17DM 53745-207	L 17DM 53744-206	20 to 30 Amp.	2.80 (.110")	3.70 (.145")
L 17DM 53745-201	L 17DM 53744-201	30 to 40 Amp.	4.80 (.189")	5.60 (.220")

Trim dimensions: 7.5 mm (.295")

Contact plating	Part number option
Flash Gold	L17DMxxxxx-x <b>G</b>
0.4 $\mu$ m(15 $\mu$ ) Au	Standard part number as above
0.76 $\mu$ m(30 $\mu$ ) Au	L17DMxxxxx-x <b>C309</b>

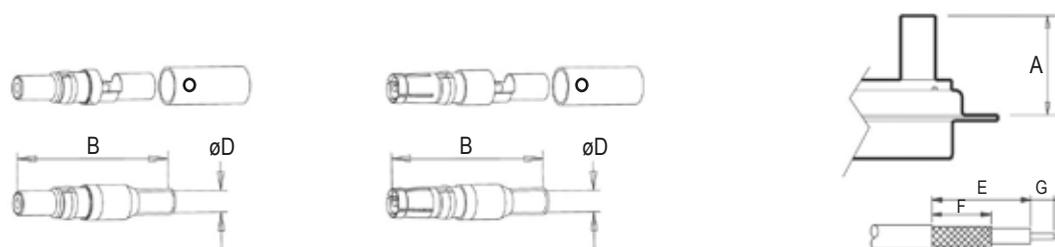
## Straight shielded contacts

### Crimp ferrule and inner solder



Type	P/N	Dimensions (inch)			Cable - RG	Trim dimensions (inch)		
		A Max	B	D		E	F	G
Pin	L17DM 53740	18.8 (740")	23.6 (.929")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")
Pin	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")
Pin	L17DM 53740-3	21.5 (846")	23.6 (.929")	2.8 (.110")	180 B/U	9.5 (.374")	7.9 (.311")	2 (.078")
Pin	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")

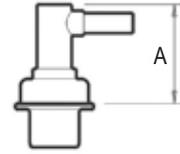
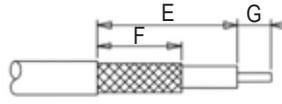
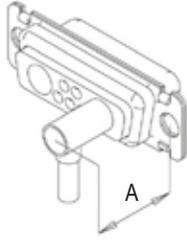
### Ferrule and inner solder



Type	P/N	Dimensions (inch)			Cable - RG	Trim dimensions (inch)		
		A Max	B	D		E	F	G
short Pin	L17DM 53740-5000	17.0 (669")	21.8 (.858")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")
Pin	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")
Pin	L17DM 53740-5002	21.5 (846")	26.3 (1.035")	2.8 (.110")	180 B/U	9.5 (.374")	7.9 (.311")	2 (.078")
Pin	L17DM 53740-5005	21.5 (846")	26.3 (1.035")	3.2 (.126")	58 C/U	9.5 (.374")	7.9 (.311")	2 (.078")
Pin	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 53742-5006	18.8 (740")	23.6 (.929")	1.0 (.039")	178 B/U	7.9 (.311")	6.3 (.248")	2 (.078")

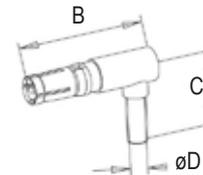
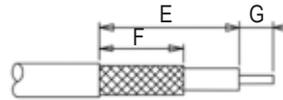
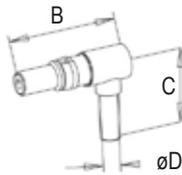
## Right angled shielded contact

Crimp ferrule and inner solder



Type	P/N	Dimensions (inch)			Cable - RG	Trim dimensions (inch)		
		A Max	B	D		E	F	G
Pin	L17DM 53741	13.5 (.531")	18.6 (.732")	1.0 (.039")	178 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
Pin	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")
Pin	L17DM 53741-3	13.5 (.531")	18.6 (.732")	2.8 (.110")	180 B/U	10.7 (.421")	7.9 (.311")	2.4 (.094")
Pin	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)			Cable - RG	Trim dimensions (inch)		
		A Max	B	D		E	F	G
Pin	L17DM 53741-5000	13.5 (.531")	18.6 (.732")	1.0 (.039")	178 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
Pin	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")
Pin	L17DM 53741-5003	13.5 (.531")	18.6 (.732")	2.8 (.110")	180 B/U	10.7 (.421")	7.9 (.311")	2.4 (.094")
Pin	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 & crimping tools

Extraction tool for sizes 8 cts  
L17D429SP

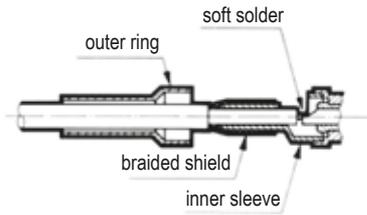


Crimping tool for all sizes  
L17D479SP

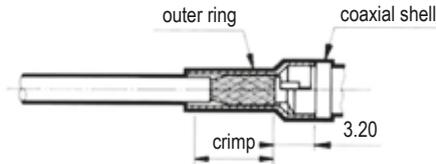


## Cabling instructions for shielded contacts

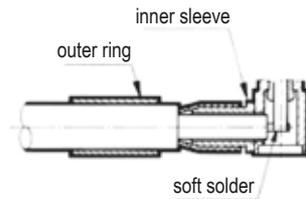
### Straight crimp shielded contacts:



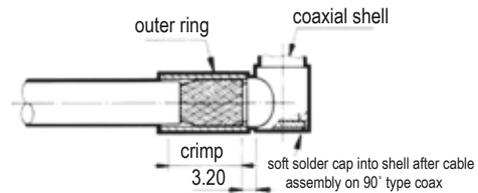
### inner solder contact outer crimp contact



### Right angle crimp shielded contacts:



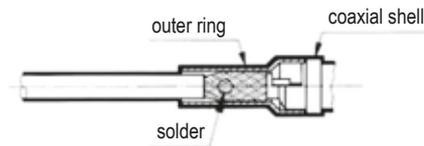
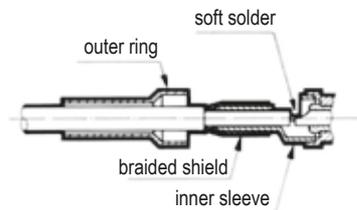
### inner solder contact outer crimp contact



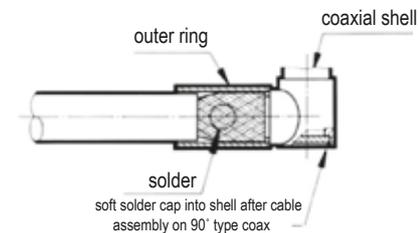
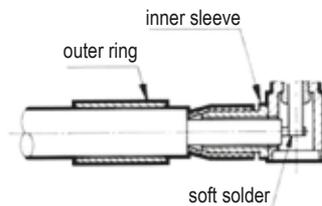
### Assembly method

- 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 and recover the braid.
- Using crimp hand tool equipped with the appropriate dies, crimp in the area defined.

### Solder straight shielded contacts:



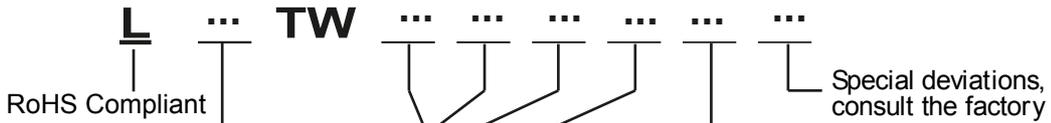
### Solder right angle shielded contacts:



### 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 and recover the braid.
- Solder by introducing metal through the outer ring hole.

# Hybrid Connectors - How to order



Contact plating

Flash**	<b>76</b>	Tinned shell for receptacle
	<b>716</b>	Tinned shell + dimples for Pin connector
0.38µm (15µ")	<b>77</b>	Tinned shell for receptacle
	<b>717</b>	Tinned shell + dimples for Pin connector
0.76µm (30µ")	<b>177</b>	Tinned shell for receptacle
	<b>777</b>	Tinned shell + dimples for Pin connector

\*\* Signal and Power contacts only

Shell size and Configuration:				
E2W2	♦P2W2	E5W1	A3W3	♦P3W3
A7W2	A11W1	B5W5	B9W4	B13W3
B17W2	B21W1	C8W8	C13W6	C17W5
C21WA4	C25W3	C27W2	D24W7	D36W4
♦ Keyed housing				

Contact type:	
P	= Pin
S	= Socket

PCB mounting options:	
<b>Straight connector</b>	
BLANK =	Without standoff and boardlocks
RM53 =	M3 threaded standoff with boardlocks
RM54 =	4-40 threaded standoff with boardlocks
RM83 =	Removable M3 front screwlocks + RM53
RM84 =	Fixed 4-40 front screwlocks + standoff and boardlocks (Combo)
<b>Right Angle connector</b>	
BLANK =	Metal bracket with 3.1mm clear hole
RM6 =	Metal bracket with boardlocks

Panel mounting options:	
BLANK =	Ø3.1mm (.122") rivet
3F =	Fixed M3 front screwlock
3R =	Rear M3 threaded insert
4F =	Fixed 4-40 front screwlock
3R =	Rear 4-40 threaded insert
VFM2 =	M3 removable front screwlock
VF2 =	4-40 removable front screwlock
FM =	Float mounting bushing
A514 =	Blindmate guide pin

Termination:	
<b>Straight PCB &amp; Solder-cup</b>	
BLANK =	Solder-cup signal contacts only
P3SY =	20~40Amp power & signal mix
P2SY =	10~20Amp power & signal mix
CSY =	Coax & signal mix
SY =	Signal only
P3Y =	20~40Amp power only (2W2, 3W3, 5W5, 8W8)
P2Y =	10~20Amp power only (2W2, 3W3, 5W5, 8W8)
CY =	Coax only (2W2, 3W3, 5W5, 8W8)
<b>Right Angle PCB</b>	
MP3SV =	US footprint, 20~40Amp power & signal mix
MP2SV =	US footprint, 10~20Amp power & signal mix
MCSV =	US footprint, coax & signal mix
MSV =	US footprint, signal only
MP3V =	US footprint, 20~40Amp power only (2w2, 3W3, 5W5, 8W8)
MP2V =	US footprint, 10~20Amp power only (2w2, 3W3, 5W5, 8W8)
<b>Right Angle PCB cont.,</b>	
MCV =	US footprint, coax only (2W2, 3W3, 5W5, 8W8)
EP3SV =	European footprint, 20~40Amp power & signal mix
EP2SV =	European footprint, 10~20Amp power & signal mix
ESV =	European footprint, signal only
EP3V =	European footprint, 20~40Amp power only (2W2, 3W3, 5W5, 8W8)
EP2V =	European footprint, 10~20Amp power only (2W2, 3W3, 5W5, 8W8)
HP3SV =	Mixed footprint, 20~40Amp power & signal mix
HP2SV =	Mixed footprint, 10~20Amp power & signal mix
HCSV =	Mixed footprint, coax & signal mix
HSV =	Mixed footprint, signal only
HP3V =	Mixed footprint, 20~40Amp power only (2W2, 3W3, 5W5, 8W8)
HP2V =	Mixed footprint, 10~20Amp power only (2W2, 3W3, 5W5, 8W8)
HCV =	Mixed footprint, coax only (2W2, 3W3, 5W5, 8W8)

Example: L717 TW B9W4 S MP3V 4F RM6

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[36P2ZNUG](#)