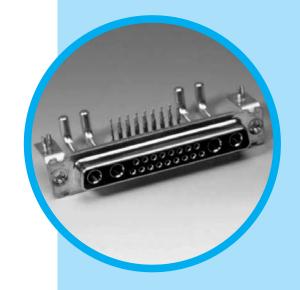




Hybrid D'Sub series



Specifications

Stand-off

• Connectors according to: MIL C24308 - NFC93425 - HE507

M	aterials and platings	Electrical Data		
Shells	Steel-Tin plating	Current rating		
Insulators	High temperature black thermoplastic	Signal contacts	7.5 A. with 10 A. peaks	
Signal contacts Material	Female: machined bronze Male: machined brass	Power contacts PCB terminations	10 to 40 A.	
Plating finish Or	16μ "Au over 79μ" Ni min. 30μ" Au over 79μ" Ni min.	Solder cup terminations Crimp terminations Shielded contacts	10 to 40 A. 10 to 40 A. 0.5 A.	
Shielded contacts Material	Female: machined bronze Male: machined brass	Voltage rating Signal and power contacts		
Plating Inner conductor	16µ "Au or 30µm Au over 79µ" Ni	Shielded contacts	150 V.R.M.S. at 50 Hz	
Outer ring Terminations	10µ "Au over 79µ" Ni Tinned up and crimp terminations gold flash	Shielded contacts Frequency range Attenuation	0-1 GHz 0.2dB	
Power contacts Material	Female: machined bronze Male: machined brass	V. S. W. R. Characteristic impedance	1.4(+0.04/GHz) 50 Ohms	
Plating Contacts Terminations	16µ "Au or 30µ" Au over 79µ" Ni Tinned	3	≥ 1000 V.R.M.S. at 50Hz	
	up 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			

Brass-Tin plating

Shells

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					



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 260° for 20 s. IR - Air convectioned Resistance to solder iron heat 260°C for 30 s. ≥ 200 (classe II) or 500 (classe I) Mating cycles Blind mating system Available upon request Polarization Available with locking accessories Consult factory

Mechanical data

With or without dimples

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

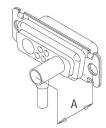
- Medical
- Industrial
- Telecom
- Any application requiring optimization of space

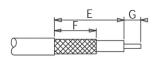




Right angled shielded contact

Crimp ferrule and inner solder

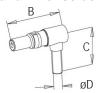


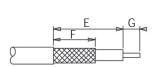


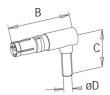


Туре	P/N	Dimensions (inch)			Cable - RG	Trim dimensions (inch)		
		A Max	В	D		Е	F	G
plug	L17DM 53741	13.5 (.531")	18.6 (.732")	1.0 (.039")	178 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
plug	L17DM 53741-1	13.5 (.531")	18.6 (.732")	1.7 (.066")	179 B/U 316 B/U	9.5 (.374")	5.9 (.232")	1.6 (.062")
plug	L17DM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

