



**159 Series**

The 159 range of plugs and sockets is available with from 7 to 71 poles, and a simple but extremely efficient locking device, gold flash on contacts and solder tags, a robust cover with either top or side cable entry protected by a bonded plastic coat. An inner plastic coating provides insulation between solder tags and cover.

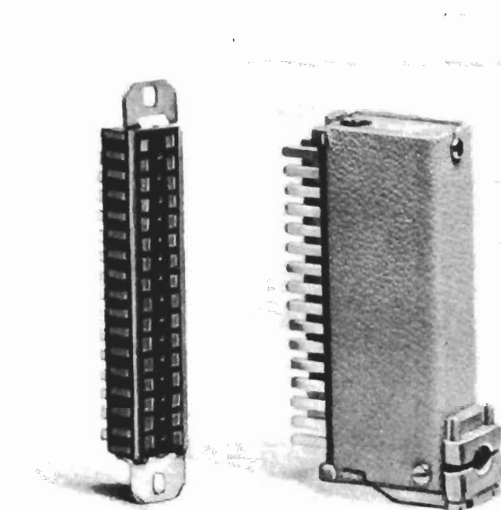
Contacts are arranged in two rows for the 7 to 31 pole range and four rows for the 35 to 71 pole. One row contains a polarised cavity.

The 159 series, apart from normal plug and socket applications and use as a unitor, provides an efficient cable coupling. When used as a cable connector both plug and socket will be provided with the standard cover, the plug member however being fitted with the 159 series retainer.

**Specification**

Working voltage	350V D.C. or A.C. (peak)
Current rating	3 amps D.C. or A.C. (RMS) at 55 °C 5 amps D.C. or A.C. (RMS) at 20 °C
Maximum operating temperature	70 °C
Average contact resistance	0.002 Ω
Maximum contact resistance	0.0025 Ω
Flashover voltage	4kV between contacts and between contacts and case
Insulation resistance	Greater than 10 <sup>12</sup> Ω (10 <sup>6</sup> MΩ) initially. Greater than 10 <sup>11</sup> Ω (10 <sup>5</sup> MΩ) after H6 Climatic exposure. (DEF 5011) VI (DEF 5011)
Vibration category	VI (DEF 5011)
Insertion and withdrawal force	6 ozs per contact average

**Line connector with cover—2 row**

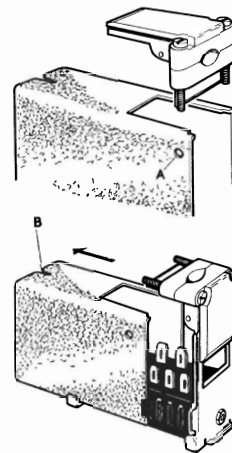


**Materials**

Clips	Beryllium copper—gold flashed on 0.0003 silver
Blade	Brass—gold flashed on 0.0003 silver
Body mouldings	Delrin 500
Cover	Aluminium—grey PVC coated
End plates and cable clamps	Zinc alloy

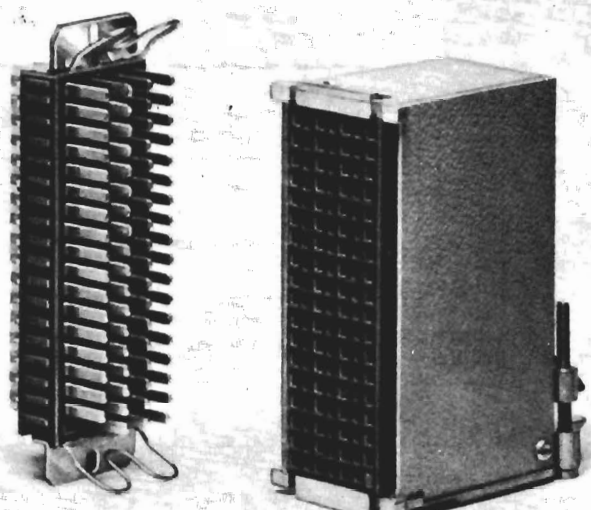
**Conversion from top entry to side entry**

The cable clamp provides a simple method of conversion of the cover from top entry to side entry by its removal and reversal.



This is effected by removing cable clamp screw A and case retaining screw B. Case may now be moved away from cable clamp mounting in the direction of the arrow, and the cable clamp lifted clear, reversed and replaced.

**Line connector with cover—4 row**





**159 Series 2 Row**

**With mounting brackets, with or without retainers**

NO. OF WAYS	PART NUMBERS				DIMENSIONS					
	PLUG		SOCKET		B		C		D	
	WITH RETAINERS	WITHOUT RETAINERS	WITH RETAINERS	WITHOUT RETAINERS	INCH	MM	INCH	MM	INCH	MM
<b>7</b>	74/10/0706/10 (324825)	74/10/0705/10 (324797)	74/10/0756/10 (324839)	74/10/0755/10 (324811)	1.37	34.8	1.13	28.7	0.85	21.6
<b>11</b>	74/10/1106/10 (324827)	74/10/1105/10 (324799)	74/10/1156/10 (324841)	74/10/1155/10 (324813)	1.67	42.4	1.43	36.3	1.15	29.2
<b>15</b>	74/10/1506/10 (324829)	74/10/1505/10 (324801)	74/10/1556/10 (324843)	74/10/1555/10 (324815)	1.97	50.0	1.73	43.9	1.44	36.6
<b>19</b>	74/10/1906/10 (324831)	74/10/1905/10 (324803)	74/10/1956/10 (324845)	74/10/1955/10 (324817)	2.26	57.4	2.02	51.3	1.74	44.2
<b>23</b>	74/10/2306/10 (324833)	74/10/2305/10 (324805)	74/10/2356/10 (324847)	74/10/2355/10 (324819)	2.56	65.0	2.32	58.9	2.04	51.8
<b>31</b>	74/10/3106/10 (324837)	74/10/3105/10 (324809)	74/10/3156/10 (324851)	74/10/3155/10 (324823)	3.15	80.0	2.91	73.9	2.63	66.8

Obsolete part numbers shown in brackets.

**With cover**

NUMBER OF WAYS	PART NUMBERS			DIMENSION A	
	PLUG	PLUG WITH RETAINER	SOCKET	INCH	MM
	<b>7</b>	74/10/0701/10 (324965)	74/10/0702/10 (324993)	74/10/0751/10 (324979)	1.06
<b>11</b>	74/10/1101/10 (324967)	74/10/1102/10 (324995)	74/10/1151/10 (324981)	1.35	34.3
<b>15</b>	74/10/1501/10 (324969)	74/10/1502/10 (324997)	74/10/1551/10 (324983)	1.65	41.9
<b>19</b>	74/10/1901/10 (324971)	74/10/1902/10 (324999)	74/10/1951/10 (324985)	1.94	49.3
<b>23</b>	74/10/2301/10 (324973)	74/10/2302/10 (325001)	74/10/2351/10 (324987)	2.24	56.9
<b>31</b>	74/10/3101/10 (324977)	74/10/3102/10 (325005)	74/10/3151/10 (324991)	2.83	71.9

**CONTACT NUMBERING**

