

Materials

Mouldings:	Glass-filled thermoplastic UL94V-0
Female Contacts:	Brass shell, with beryllium copper inner contact
Male Contacts:	Phosphor bronze
Finish:	See individual pages

Electrical

Current (individual contacts in isolation):	At 25°C 3.3A max At 85°C 2.6A max
All contacts simultaneously:	At 25°C 3.0A max At 85°C 2.2A max
Working Voltage (at sea level 1013 mbar):	240V d.c. or a.c. peak (at 2.0A) 120V d.c. or a.c. peak (at 3.3A)
Proof voltage (at sea level 1013 mbar):	360V d.c. or a.c. peak
Contact resistance (initial):	20 mΩ max
Contact resistance (after conditioning):	25 mΩ max
Insulation resistance (initial):	1000 MΩ min at 500V d.c.
Insulation resistance (after conditioning):	100 MΩ min at 500V d.c.

Mechanical

Durability:	500 operations*
Mating forces (per contact pair):	
Insertion force (max):	2.8N max (M80-XXX) 1.0N max (M83-XXX)
Withdrawal force (min):	0.2N
Contact retention in moulding:	10N min
Contact holding force:	0.2N min
Signal crimp accommodation:	22 A.W.G. to 28 A.W.G. BS 3G 210 Type A

Environmental

Environmental classification:	55/125/56 days at 95% RH
Operational temperature:	- 55°C to 125°C
Vibration sensitivity:	10Hz to 2000Hz, 0.75mm, 98mm/s ² (10G). duration 6h
Bump severity:	390m/s ² (40G), 4000± 10 bumps
Shock severity:	981m/s ² (100G) for 6ms
Acceleration severity:	490m/s ² (50G)

All preferred sizes of this range are held in stock. Check www.harwin.com for availability.

*Datamate has been tested to 5,000 operations, and still performed within Electrical Specifications. Please contact datamate@harwin.com for more information.

POLARISING FEATURES

<p><u>Datamate L-Tek</u> Single Row</p>	<p><u>Datamate L-Tek</u> Double Row</p>
<p><u>Datamate J-Tek</u> Double Row</p>	<p><u>Datamate J-Tek</u> 3 - Row (M83)</p>
<p><u>Datamate Mix-Tek</u> Double Row</p>	<p><u>Datamate Mix-Tek</u> 3 - Row (M83)</p>

Contact numbering is shown looking onto mating face of male connector.

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