

High-Reliability Datamate Cable Assemblies

Ready-made single and double ended for signal and power

The latest addition to the Datamate range is the introduction of ready-made cable assemblies for a complete plug-and-play solution in both signal and power configurations.

Available in single or double-ended varieties, the cable lengths are 150mm (6”) and are ideal for both prototyping, small builds, or higher volume requirements. No additional tooling or staff training is required – the cables are fully terminated to the connectors, and fully inspected and tested during and after production.

The cables used are PTFE insulated; signal cables are 24 AWG, and power is available in either 12 or 10AWG (for a choice of 20 or 40A current carrying capacity).

Features and Benefits	
Fully assembled cable assemblies	No additional training, expensive tooling or in-house experience required
100% electrically tested and inspected assembly	Total confidence in fault-free connections
Manufactured in accordance with IPC-A-620	Assured quality products
High reliability connectors with improved specifications	Ideally suited for high vibration environments and multiple insertions
Stainless Steel Jackscrews available on signal and power connectors	Additional strain relief for rugged environments
150mm single and double ended options in stock	Fast delivery, hassle-free installation and fully tested

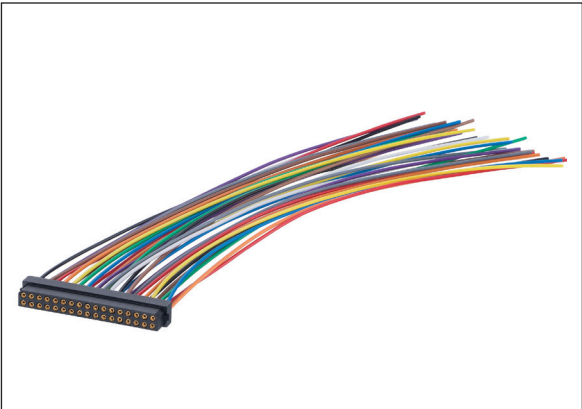
Key Applications	
Aviation	UAVs, Avionics, Aircraft infotainment, Radar, In-flight facilities
Motorsport	Navigation, Tracking, Control Systems
Energy	Oil, Gas and Renewable Sources, E-vehicles
Industrial	Drives and Controls, Robotics
Space	Satellites, CubeSats, Launch Systems
Defense and Security	Mobile Communications, Vehicle Control systems



Datamate J-Tek double-ended female cable assembly



Datamate Power single ended male cable assembly

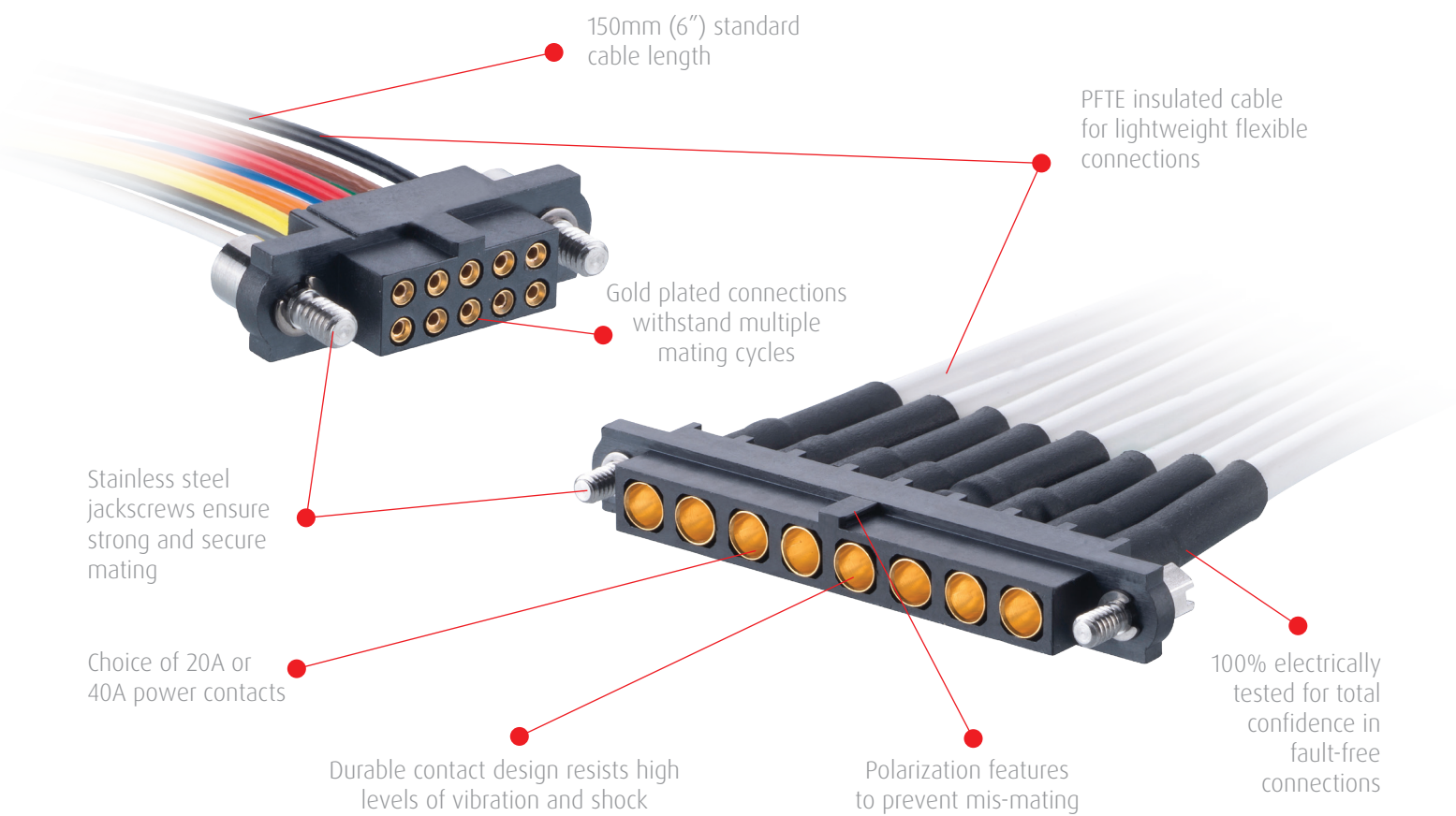


Datamate L-Tek single ended female cable assembly

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Product Features



Specifications

Electrical		Mechanical		Physical	
Current Rating (J-Tek, L-Tek)	3.3A max (single contact) 3A max (all contacts)	No. of operations	500 cycles	Packaging	Bag
Current Rating (Power 20A)	20A max (single contact)	Vibration	10G for 6 hours, 2 hours per axis	Housing	Thermoplastic UL94V-0
Current Rating (Power 40A)	40A nominal, up to 80A max (single contact)	Shock	100G for 6ms	Contacts	Copper alloy, Gold plated
Maximum Voltage	1,200V AC/DC	Temp Range	-55°C to +125°C	Wire	PTFE insulation

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Datamate J-Tek Cable Assemblies

Part Number	Assembly Type	Jackscrew Type	No. of Contacts	Wire Size	Cable Length
M80-FC20605F2-0150F2	Female-to-Female	Hex Socket floating	3+3	24 AWG	150mm
M80-FC21005F2-0150F2	Female-to-Female	Hex Socket floating	5+5	24 AWG	150mm
M80-FC22005F2-0150F2	Female-to-Female	Hex Socket floating	10+10	24 AWG	150mm
M80-FC22605F2-0150F2	Female-to-Female	Hex Socket floating	13+13	24 AWG	150mm
M80-FC20668F2-0150L	Female Single Ended	Hex Socket floating	3+3	24 AWG	150mm
M80-FC21068F2-0150L	Female Single Ended	Hex Socket floating	5+5	24 AWG	150mm
M80-FC22068F2-0150L	Female Single Ended	Hex Socket floating	10+10	24 AWG	150mm
M80-FC22668F2-0150L	Female Single Ended	Hex Socket floating	13+13	24 AWG	150mm
M80-FC25068F2-0150L	Female Single Ended	Hex Socket floating	25+25	24 AWG	150mm
M80-FC20468FC-0150L	Female Single Ended	101Lok	2+2	24 AWG	150mm
M80-FC20868FC-0150L	Female Single Ended	101Lok	4+4	24 AWG	150mm
M80-FC21268FC-0150L	Female Single Ended	101Lok	6+6	24 AWG	150mm
M80-FC22068FC-0150L	Female Single Ended	101Lok	10+10	24 AWG	150mm

Datamate Power Cable Assemblies (20A)

Part Number	Assembly Type	Jackscrew Type	No. of Contacts	Wire Size	Cable Length
M80-FC325F1-02-0150L	Female Single Ended	Hex Slotted floating	2	12 AWG	150mm
M80-FC325F1-04-0150L	Female Single Ended	Hex Slotted floating	4	12 AWG	150mm
M80-FC325F1-06-0150L	Female Single Ended	Hex Slotted floating	6	12 AWG	150mm
M80-FC325F1-08-0150L	Female Single Ended	Hex Slotted floating	8	12 AWG	150mm
M80-MC335M1-02-0150L	Male Single Ended	Internal threaded	2	12 AWG	150mm
M80-MC335M1-04-0150L	Male Single Ended	Internal threaded	4	12 AWG	150mm
M80-MC335M1-06-0150L	Male Single Ended	Internal threaded	6	12 AWG	150mm
M80-MC335M1-08-0150L	Male Single Ended	Internal threaded	8	12 AWG	150mm

Datamate Power Cable Assemblies (40A)

Part Number	Assembly Type	Jackscrew Type	No. of Contacts	Wire Size	Cable Length
M80-FCPF5F1-02-0150L	Female Single Ended	Hex Slotted floating	2	10 AWG	150mm
M80-FCPF5F1-04-0150L	Female Single Ended	Hex Slotted floating	4	10 AWG	150mm
M80-FCPF5F1-06-0150L	Female Single Ended	Hex Slotted floating	6	10 AWG	150mm
M80-FCPF5F1-08-0150L	Female Single Ended	Hex Slotted floating	8	10 AWG	150mm
M80-MCPM5M1-02-0150L	Male Single Ended	Internal threaded	2	10 AWG	150mm
M80-MCPM5M1-04-0150L	Male Single Ended	Internal threaded	4	10 AWG	150mm
M80-MCPM5M1-06-0150L	Male Single Ended	Internal threaded	6	10 AWG	150mm
M80-MCPM5M1-08-0150L	Male Single Ended	Internal threaded	8	10 AWG	150mm

Datamate L-Tek Cable Assemblies

Part Number	Assembly Type	Jackscrew Type	No. of Contacts	Wire Size	Cable Length
M80-FC20605L0-0150F	Female-to-Female	For Latches	3+3	24 AWG	150mm
M80-FC21005L0-0150F	Female-to-Female	For Latches	5+5	24 AWG	150mm
M80-FC22605L0-0150F	Female-to-Female	For Latches	13+13	24 AWG	150mm
M80-FC23405L0-0150F	Female-to-Female	For Latches	17+17	24 AWG	150mm
M80-FC20668L0-0150L	Female Single Ended	For Latches	3+3	24 AWG	150mm
M80-FC21068L0-0150L	Female Single Ended	For Latches	5+5	24 AWG	150mm
M80-FC22668L0-0150L	Female Single Ended	For Latches	13+13	24 AWG	150mm
M80-FC23468L0-0150L	Female Single Ended	For Latches	17+17	24 AWG	150mm
M80-FD20268L0-0150L	Female Single Ended	For Latches	2	24 AWG	150mm
M80-FD20368L0-0150L	Female Single Ended	For Latches	3	24 AWG	150mm
M80-FD20468L0-0150L	Female Single Ended	For Latches	4	24 AWG	150mm
M80-FD21768L0-0150L	Female Single Ended	For Latches	17	24 AWG	150mm