

# High-Reliability Datamate Cable Assemblies

Ready-made single and double ended for signal and power

Discover the simplicity of a complete plug-and-play solution from Harwin. Choose from signal or power cable assemblies in single- or double-ended varieties. No additional tooling, staff training or manufacturing time is required – the cables are fully terminated to the connectors and fully inspected & tested during and after production.

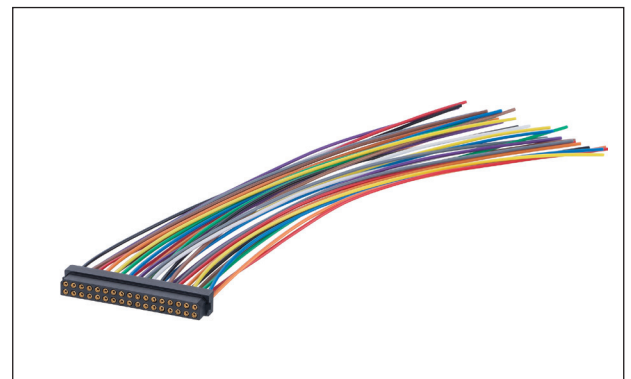
Ideal for prototyping, small builds, or higher volume production, these cable assemblies are stocked in standard lengths – 150mm across the range, with additional 300mm and 450mm options (6", 12" and 18"). Built using high quality PTFE-insulated cables and performance connectors from the high-reliability Datamate range, these ready-made harnesses are ready for your extreme environment applications.



Datamate J-Tek double-ended female cable assembly



Datamate Power single ended male cable assembly

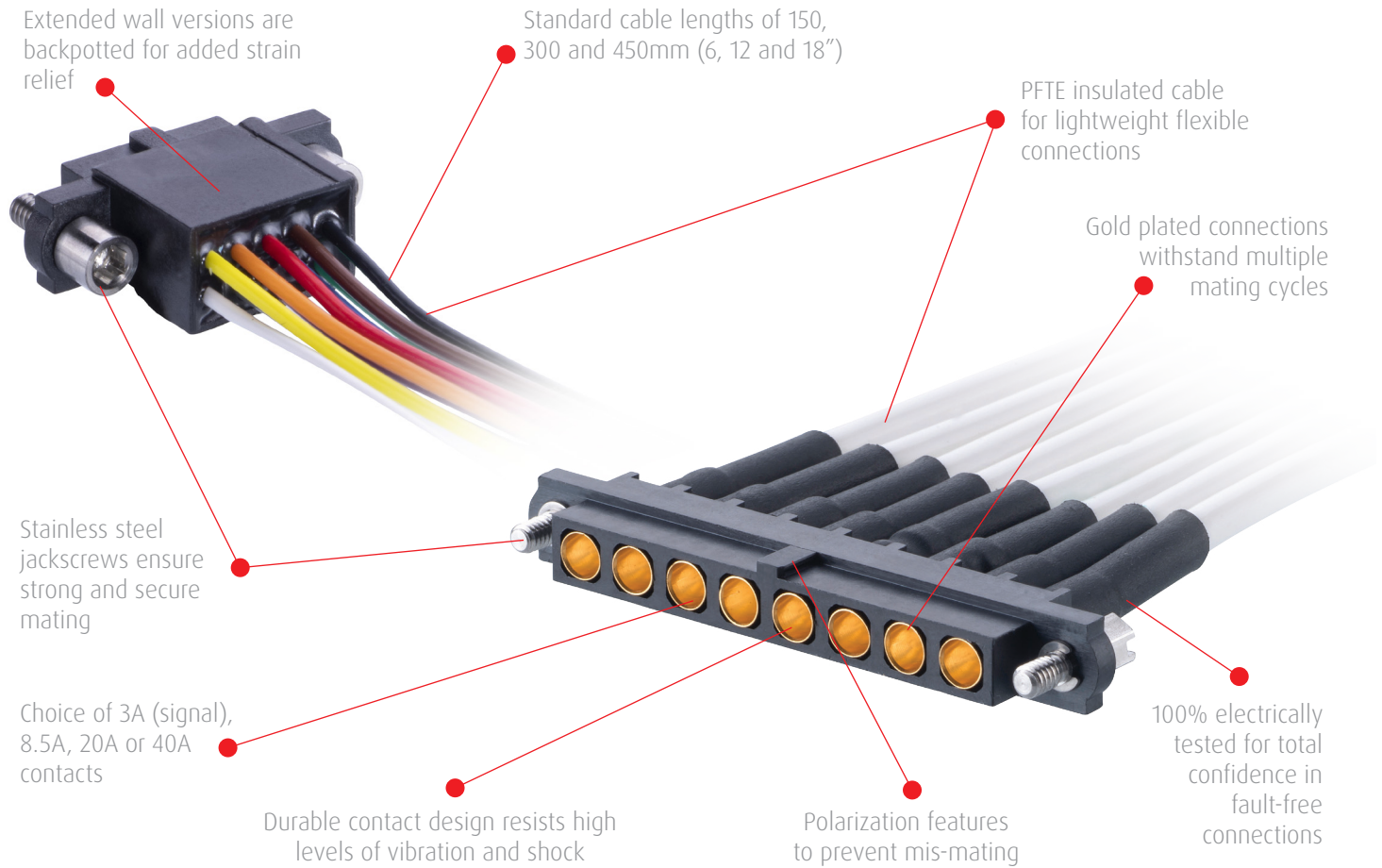


Datamate L-Tek single ended female cable assembly

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
Extended Wall options with backpotting	Adds additional strain-relief to the cable assembly

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

## Product Features



## Specifications

Electrical		Mechanical		Physical	
Current Rating (Signal)	3.3A max (single contact) 3A max (all contacts)	No. of operations	500 cycles (1,000 for T-Contact)	Packaging	Bag
Current Rating (T-Contact)	8.5A max (single contact) 3.5A max (all contacts)	Vibration (T-Contact)	40G for 6 hours, 2 hours per axis	Housing	Thermoplastic UL94V-0
Current Rating (Power 20A)	20A max (single contact)	Vibration (Other)	10G for 6 hours, 2 hours per axis	Contacts	Copper alloy, Gold plated
Current Rating (Power 40A)	40A nominal, up to 80A max (single contact)	Shock	100G for 6ms	Fixings	Stainless Steel jackscrews, BeCu latches
Maximum Voltage	1,200V AC/DC	Operating Temp.	-55°C to +125°C	Wire	PTFE insulation

## Datamate J-Tek Cable Assemblies (Signal)

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-FC30605F2-0300F2	Female-to-Female	Hex Socket floating	3+3	26 AWG	300mm
M80-FC21005F2-0150F2	Female-to-Female	Hex Socket floating	5+5	24 AWG	150mm
M80-FC31005F2-0300F2	Female-to-Female	Hex Socket floating	5+5	26 AWG	300mm
M80-FC31605F2-0300F2	Female-to-Female	Hex Socket floating	8+8	26 AWG	300mm
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-FC32605F2-0300F2	Female-to-Female	Hex Socket floating	13+13	26 AWG	300mm
M80-FC35005F2-0300F2	Female-to-Female	Hex Socket floating	25+25	26 AWG	300mm
M80-FC20668F2-0150L	Female Single Ended	Hex Socket floating	3+3	24 AWG	150mm
M80-FC30668F2-0150L	Female Single Ended	Hex Socket floating	3+3	26 AWG	150mm
M80-FC21068F2-0150L	Female Single Ended	Hex Socket floating	5+5	24 AWG	150mm
M80-FC31068F2-0150L	Female Single Ended	Hex Socket floating	5+5	26 AWG	150mm
M80-FC31668F2-0150L	Female Single Ended	Hex Socket floating	8+8	26 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-FC32668F2-0150L	Female Single Ended	Hex Socket floating	13+13	26 AWG	150mm
M80-FC25068F2-0150L	Female Single Ended	Hex Socket floating	25+25	24 AWG	150mm
M80-FC35068F2-0150L	Female Single Ended	Hex Socket floating	25+25	26 AWG	150mm
M80-FC20468FC-0150L	Female Single Ended	101Lok	2+2	24 AWG	150mm
M80-FC10668FC-0150L	Female Single Ended	101Lok	3+3	22 AWG	150mm
M80-FC20868FC-0150L	Female Single Ended	101Lok	4+4	24 AWG	150mm
M80-FC11068FC-0150L	Female Single Ended	101Lok	5+5	22 AWG	150mm
M80-FC21268FC-0150L	Female Single Ended	101Lok	6+6	24 AWG	150mm
M80-FC12068FC-0150L	Female Single Ended	101Lok	10+10	22 AWG	150mm
M80-FC22068FC-0150L	Female Single Ended	101Lok	10+10	24 AWG	150mm
M80-FC12668FC-0150L	Female Single Ended	101Lok	13+13	22 AWG	150mm
M80-MC20468M1-0450L	Male Single Ended	Internal Jackscrew	2+2	24 AWG	450mm
M80-MC20668M1-0450L	Male Single Ended	Internal Jackscrew	3+3	24 AWG	450mm
M80-MC21068M1-0450L	Male Single Ended	Internal Jackscrew	5+5	24 AWG	450mm
M80-MC21468M1-0450L	Male Single Ended	Internal Jackscrew	7+7	24 AWG	450mm
M80-MC22068M1-0450L	Male Single Ended	Internal Jackscrew	10+10	24 AWG	450mm
M80-MC23468M1-0450L	Male Single Ended	Internal Jackscrew	17+17	24 AWG	450mm
M80-MC24268M1-0450L	Male Single Ended	Internal Jackscrew	21+21	24 AWG	450mm
M80-MC25068M1-0450L	Male Single Ended	Internal Jackscrew	25+25	24 AWG	450mm
M80-MC20468MA-0450L	Male Single Ended	Reverse Fix floating	2+2	24 AWG	450mm
M80-MC20668MA-0450L	Male Single Ended	Reverse Fix floating	3+3	24 AWG	450mm
M80-MC21068MA-0450L	Male Single Ended	Reverse Fix floating	5+5	24 AWG	450mm
M80-MC21468MA-0450L	Male Single Ended	Reverse Fix floating	7+7	24 AWG	450mm
M80-MC22068MA-0450L	Male Single Ended	Reverse Fix floating	10+10	24 AWG	450mm
M80-MC23468MA-0450L	Male Single Ended	Reverse Fix floating	17+17	24 AWG	450mm
M80-MC24268MA-0450L	Male Single Ended	Reverse Fix floating	21+21	24 AWG	450mm
M80-MC25068MA-0450L	Male Single Ended	Reverse Fix floating	25+25	24 AWG	450mm

## Datamate J-Tek with Extended Wall Cable Assemblies (Signal)

Part Number	Assembly Type	Jackscrew Type	Ext. Wall Length	No. of Contacts	Wire Size	Cable Length
M80-FE20668F2-0450L	Female Single Ended	Hex Socket floating	5mm	3+3	24 AWG	450mm
M80-FE21068F2-0450L	Female Single Ended	Hex Socket floating	5mm	5+5	24 AWG	450mm
M80-FE21268F2-0450L	Female Single Ended	Hex Socket floating	5mm	6+6	24 AWG	450mm
M80-FE21468F2-0450L	Female Single Ended	Hex Socket floating	5mm	7+7	24 AWG	450mm
M80-FE22068F2-0450L	Female Single Ended	Hex Socket floating	5mm	10+10	24 AWG	450mm
M80-FE22668F2-0450L	Female Single Ended	Hex Socket floating	5mm	13+13	24 AWG	450mm
M80-FE23468F2-0450L	Female Single Ended	Hex Socket floating	5mm	17+17	24 AWG	450mm
M80-FE24268F2-0450L	Female Single Ended	Hex Socket floating	5mm	21+21	24 AWG	450mm
M80-FE25068F2-0450L	Female Single Ended	Hex Socket floating	5mm	25+25	24 AWG	450mm
M80-FF20668F2-0450L	Female Single Ended	Hex Socket floating	1mm	3+3	24 AWG	450mm
M80-FF21068F2-0450L	Female Single Ended	Hex Socket floating	1mm	5+5	24 AWG	450mm
M80-FF21268F2-0450L	Female Single Ended	Hex Socket floating	1mm	6+6	24 AWG	450mm
M80-FF22068F2-0450L	Female Single Ended	Hex Socket floating	1mm	7+7	24 AWG	450mm

## Datamate T-Contact Cable Assemblies (8.5A)

Part Number	Assembly Type	Jackscrew Type	No. of Contacts	Wire Size	Cable Length
M80-FB10468F2-0150L	Female Single Ended	Hex Socket floating	2+2	22 AWG	150mm
M80-FB10668F2-0150L	Female Single Ended	Hex Socket floating	3+3	22 AWG	150mm
M80-FB10868F2-0150L	Female Single Ended	Hex Socket floating	4+4	22 AWG	150mm
M80-FB11068F2-0150L	Female Single Ended	Hex Socket floating	5+5	22 AWG	150mm
M80-FB11668F2-0150L	Female Single Ended	Hex Socket floating	8+8	22 AWG	150mm
M80-FB12068F2-0150L	Female Single Ended	Hex Socket floating	10+10	22 AWG	150mm
M80-FB10468FC-0150L	Female Single Ended	101Lok	2+2	22 AWG	150mm
M80-FB10668FC-0300L	Female Single Ended	101Lok	3+3	22 AWG	300mm
M80-FB10868FC-0150L	Female Single Ended	101Lok	4+4	22 AWG	150mm
M80-FB11068FC-0150L	Female Single Ended	101Lok	5+5	22 AWG	150mm
M80-FB11668FC-0300L	Female Single Ended	101Lok	8+8	22 AWG	300mm
M80-FB12068FC-0150L	Female Single Ended	101Lok	10+10	22 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



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