

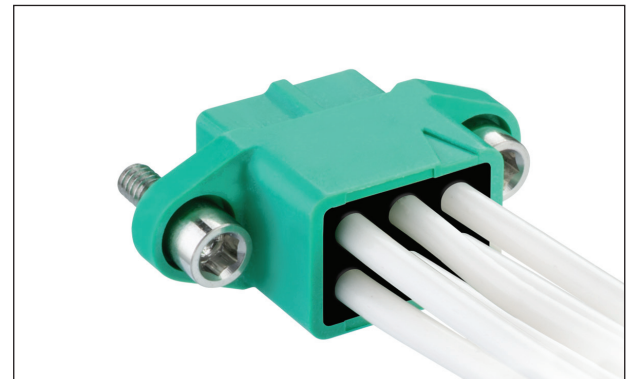
M300 Off-the-Shelf Cable Assemblies

Complete ready-to-use high-reliability power connections

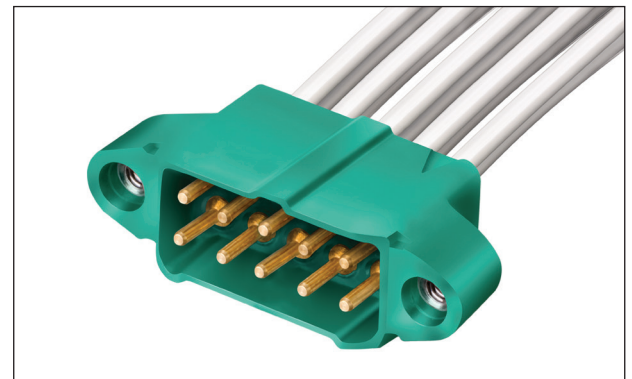
M300 ready-made cable assemblies provide you with reliable performance, quick delivery, and a complete plug-and-play solution.

These fully terminated assemblies are available in 150mm lengths of high-grade M22759/11 wire. This is a thin-wall, PTFE insulated wire rated for 600V and over 175°C.

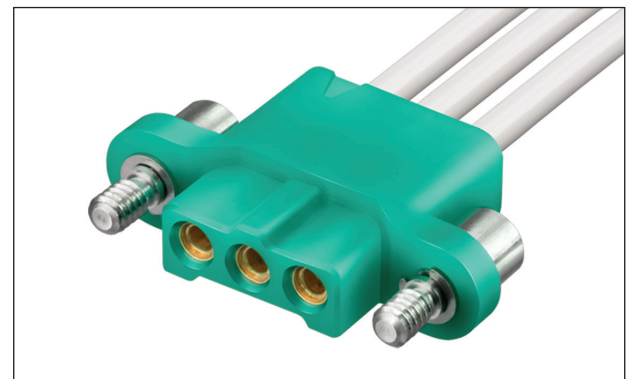
All 3mm pitch cable assemblies are supplied fully back potted for additional strain relief and resistance to shock and vibration.



M300-FC10605F2-0150L



M300-MC11005M1-0150L



M300-FC50305F2-0150L

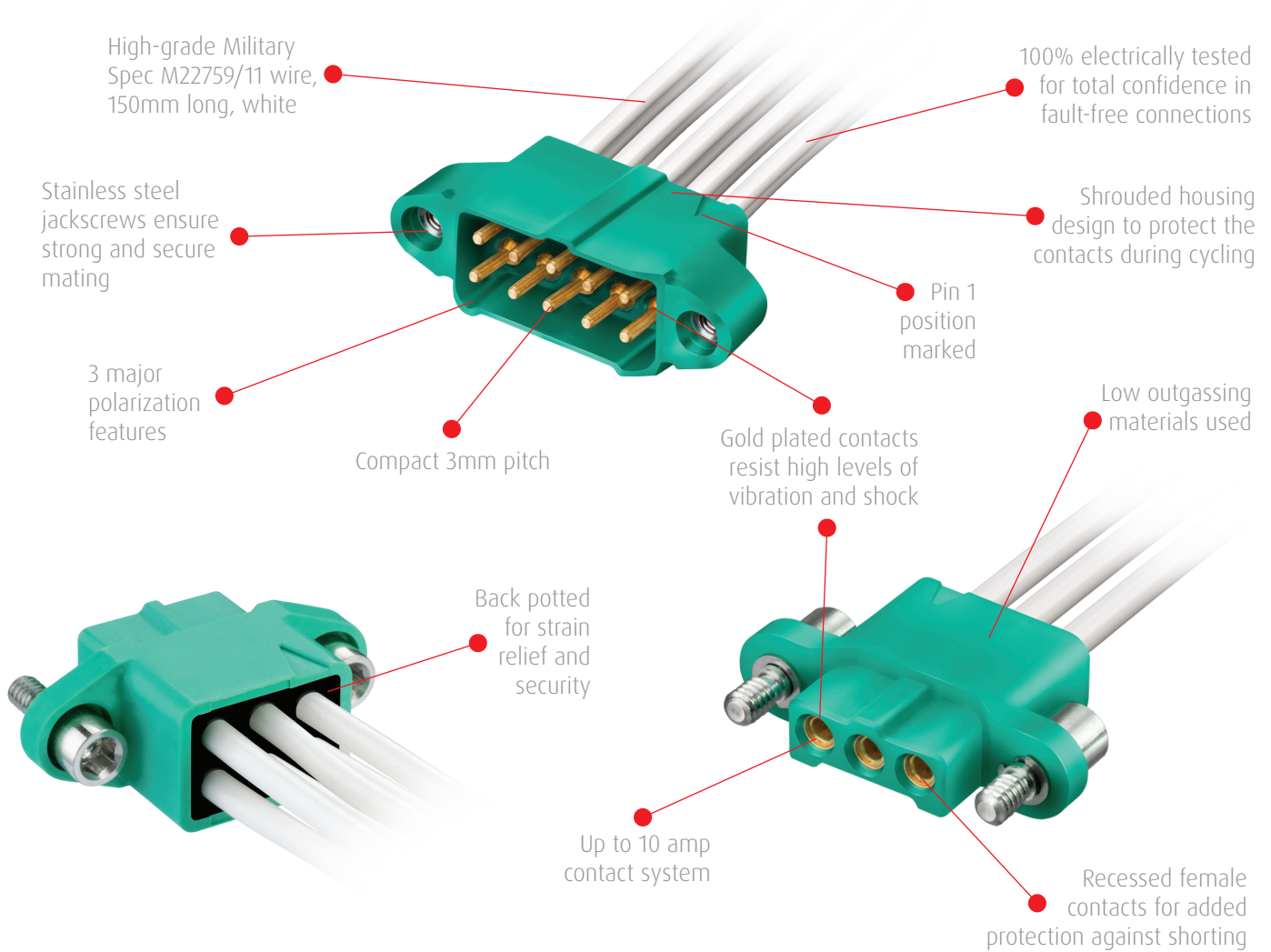
Features and Benefits

M300 cable assembly solutions are a plug and play solution	Removes the requirement to purchase tooling, decreases production build time, increases assembly speed
Low outgassing materials throughout	Meets NASA and ESA Requirements
Compact 3.00mm pitch	Reduces space real-estate requirements and weight
High-quality, high-reliability 10 amp gold-plated contacts	Ideally suited for high vibration environments and multiple insertions
Shrouded housing design, recessed female contacts	Protects both male and female contacts prior to, and during, mating cycles
Three polarisation features	Eliminates the possibility of mis-mating due to incorrect orientation
Stainless Steel jackscrew fixings	Strong and secure mating, excellent robust strain relief
150mm single ended options in stock	Fast delivery, hassle-free installation and fully tested
100% electrically tested, highly inspected at each assembly stage	Total confidence in fault-free connections

Key Applications

Aviation	Avionic controls, Engines, Radar
Motorsport and Transport	Navigation, GPS and Tracking systems
Energy	Oil, gas and renewable sources
Industrial	Drives and controls, robotics
Space	Satellites, CubeSat, launch systems, radar and communications
Defence and Security	Wi-Fi antennas, routers, radio communications and radar

Product Features



Mating Connectors

No. of Contacts	Female PCB Connectors	Male PCB Connectors	Female Cable Housings	Male Cable Housings
3 contacts, single row	M300-FV1034500 or M300-FV10345F2	M300-MV10345M1	M300-2250396F2	M300-3250396M1
6 contacts, double row	M300-FV3064500 or M300-FV30645F2	M300-MV30645M1	M300-2240696F2	M300-3240696M1
10 contacts, double row	M300-FV3104500 or M300-FV31045F2	M300-MV31045M1	M300-2241096F2	M300-3241096M1
Crimp Contacts		For 18-20AWG	M300-0010045	M300-1010045
		For 22AWG	M300-0020045	M300-1020045

Female Single-ended

M300 - FC XXX 05F2 - 0150 L

SERIES CODE

WIRE GAUGE & NO. OF CONTACTS

503	18 AWG, 3 way Single Row
603	20 AWG, 3 way Single Row
703	22 AWG, 3 way Single Row
106	18 AWG, 6 way Double Row
206	20 AWG, 6 way Double Row
306	22 AWG, 6 way Double Row
110	18 AWG, 10 way Double Row
210	20 AWG, 10 way Double Row
310	22 AWG, 10 way Double Row

TERMINATION - SECOND END

L Loose cut end

CABLE LENGTH

0150 150mm

Male Single-ended

M300 - MC XXX 05M1 - 0150 L

SERIES CODE

WIRE GAUGE & NO. OF CONTACTS

503	18 AWG, 3 way Single Row
603	20 AWG, 3 way Single Row
703	22 AWG, 3 way Single Row
106	18 AWG, 6 way Double Row
206	20 AWG, 6 way Double Row
306	22 AWG, 6 way Double Row
110	18 AWG, 10 way Double Row
210	20 AWG, 10 way Double Row
310	22 AWG, 10 way Double Row

TERMINATION - SECOND END

L Loose cut end

CABLE LENGTH

0150 150mm

Specifications

Electrical		Mechanical		Physical	
Current Rating	10A per contact (5A with 22AWG wire)	No. of Operations	1000	Packaging	10 per bag
Working Voltage	600V AC/DC	Insertion Force	9N max per contact	Housing	30% GF PA4T
Maximum Voltage	1800V AC/DC	Withdrawal Force	1N min per contact	Contacts	Copper alloy, Gold over nickel plated
Contact Resistance	6mΩ Max	Temperature Range	-65°C to +175°C	Jackscrews, Circlip	Stainless steel
Insulation Resistance	100MΩ min at 100V DC	Vibration	10G for 9 hours	Wire	M22759/11 (18, 20, 22 AWG)



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