



M300 10A Hi-Rel Connectors

Power Connectors with reliable performance in harsh applications

Specify Harwin's M300 range of high reliability and performance connectors for your aerospace, defense, industrial or other harsh environment application.

Achieve a compact power connection with up to 10A per contact, giving you a lightweight robust solution with a proven track record under extreme conditions. Guard against vibration and shock with fitted stainless steel jackscrews.

Future-proof your designs with halogen-free, RoHS compliant materials and low outgassing levels. These 3mm pitch PCB connectors, crimp cable connectors and ready-made cable assemblies are available from stock across the Harwin supply network.



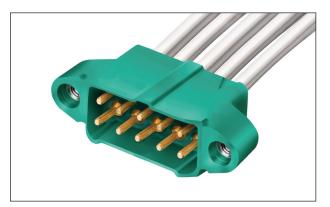
Features and Benefits

Up to 10A per signal contact (all electrically loaded; 5A if 22AWG wire is used) at 3mm pitch	Capable of a variety of power uses within a compact design, saving PCB real estate
Proven 4-finger contact design	Maintains electrical continuity through high vibration and shock environments
Beryllium Copper Contact with -65°C to +175°C temperature range	Rugged and durable connector design with proven track record
1,000 Mating cycles durability	Suitable for both fit-and-forget and multiple testing and replacement cycles
Future-proofed material usage	Halogen-free, PFOS-free, SVHC-free and RoHS compliant
Low outgassing properties	Meets NASA outgassing requirements for vacuum or space usage
Full cable assembly options off-the-shelf	Reduced delivery , fully tested assemblies with hassle-free installation

Key Applications

Aerospace, Defense & Security	Radar, avionics controls, guidance systems, UAVs, engine power management, vehicle electronics
Motorsport & Transport	Navigation, ERS controls, GPS and telemetry system
Space	Satellites & CubeSats, communications, launch systems, radar and communications
Industrial	Robotics, automation, drives & controls
Energy	Oil & Gas, renewable energy equipment

6-contact male vertical throughboard PCB connector



10-contact male cable connector



3-contact female vertical throughboard PCB connector with recessed contacts

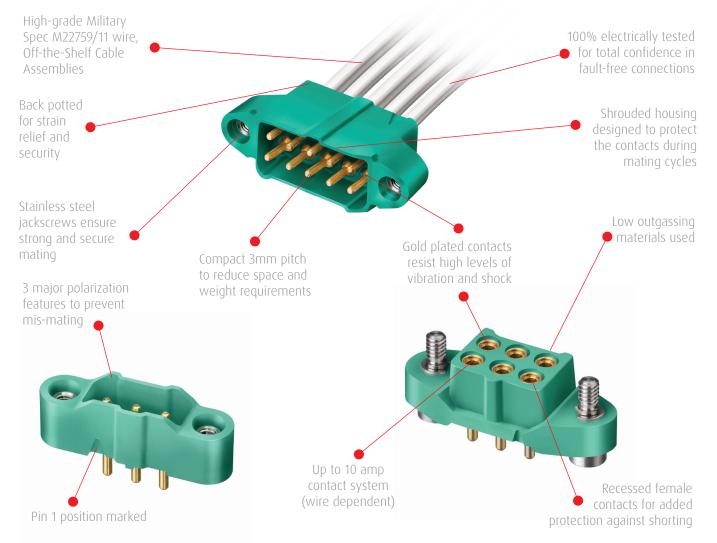


www.harwin.com/m300





Product Features



Sno	cifi	cat	ion	

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

M300

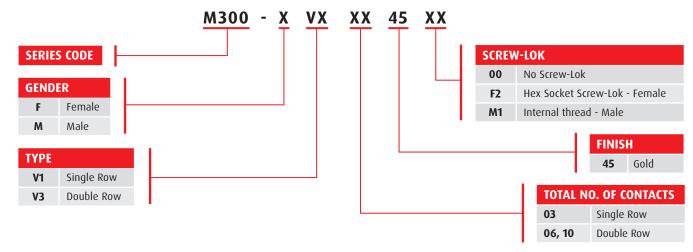
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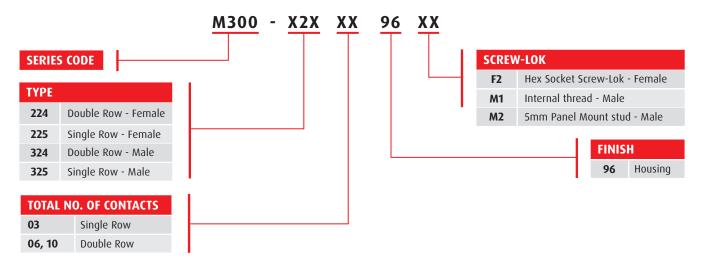


How to Order

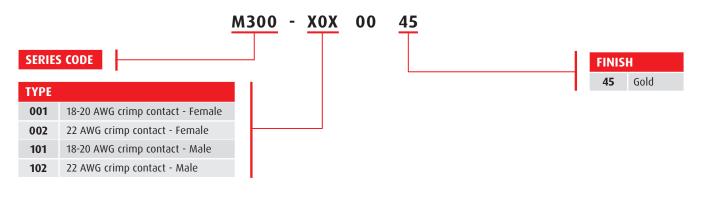




Cable Conductor Housing



Crimp Contacts





HARWiN



M1

TOTAL NO. OF CONTACTS

Single Row

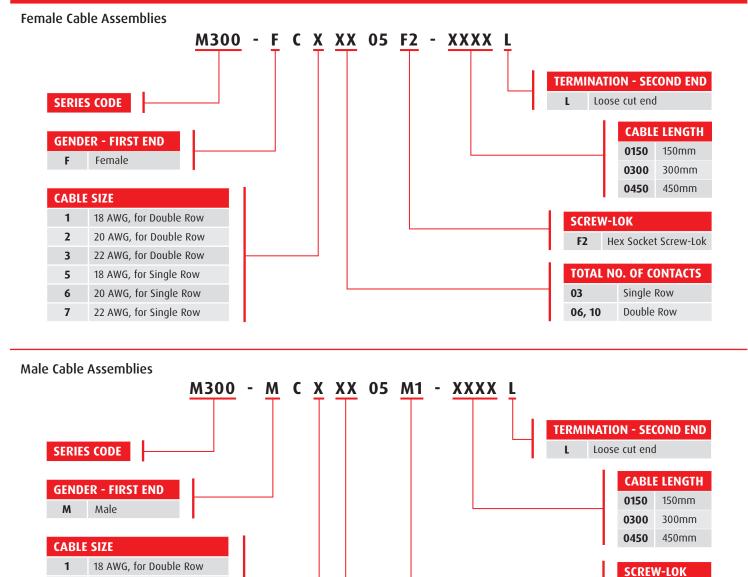
Double Row

03

06, 10

Screw-Lok

How to Order



CONTACT US

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3

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7

Visit our website: www.powell.com

Call us: 800-235-7880

20 AWG, for Double Row

22 AWG, for Double Row

18 AWG, for Single Row

20 AWG, for Single Row

22 AWG, for Single Row

Email us: harwininfo@powell.com