Product Summary



Datamate Mix-Tek Cable Housings

Signal, Power and Coax contacts available separately

Datamate Mix-Tek is a 2mm pitch (signal) and 4mm pitch (power/coaxial) high-reliability, high performance connector range with a proven track record for performance under extreme conditions.

Male and Female cable connector housings can be specified in combination with 3A signal contacts or with 4mm pitch only for a true mixed technology connector. Housings are compatible with any of the following power/coax contact options: Standard Power (20A), High Power (40A), Coax (50 Ω).

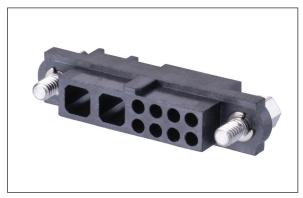
Ideal for Commercial Off-The-Shelf (COTS) specification requirements, the range is offered in the most popular cable housings sizes, compatible with each other for cable-to-cable, or with PCB connectors for cable-to-board combinations. To meet the demanding requirements of vibration, shock and strain relief, added security is provided by jackscrews, offered in a choice of different styles for added flexibility.

By stocking housings and cable contacts separately, a much wider variety of combinations is possible off-the shelf with no manufacturing lead-time – the equivalent to 1,034 connector kits.

Features and Benefits		
Multiple current capacity options – 3A (signal), 20A (power), 40A (high power)	Low to high current options for maximum flexibility in a compact connector	
Multiport 50Ω , 6GHz coaxial ganged contacts	Ready-to-use cable connectors and mating cable assemblies also available	
Beryllium Copper contacts with -55°C to +125°C temperature range	Rugged and durable connector design with proven track record	
World-class quality from the Original Designers of Datamate	Published test reports, proven track record, high quality requirements through the complete production cycle	
Thousands of combinations available from stock	Off-the-shelf without lead-time, supported by a global distributor network	
Stainless steel jackscrews suitable for standard or reverse fixing	To ensure vibration and shock requirements are met, and to give maximum strain relief in cable-to-board configurations	
101Lok fixing option	Fast mating bayonet fixing for simple and speedy mating and unmating	



M80-263FC04-00-00: 4 female contact housing with 101Lok fixings



M80-263F102-08-00: Female contact housing for 8 signal and 2 power or coax contacts



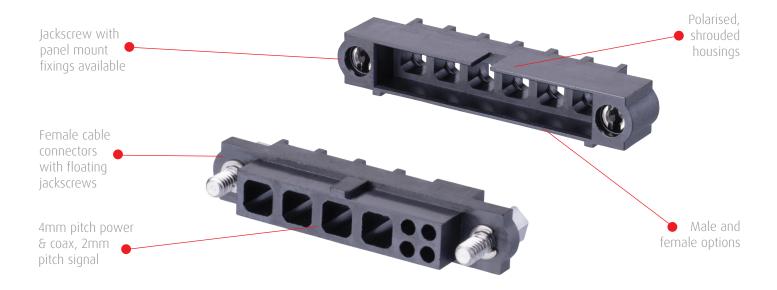
M80-273MA04-00-00: 4 male contact housing with reverse fix jackscrews



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Key Applications	
Aerospace, Defense & Security	Radar, avionics controls, guidance systems, UAVs, radio communications, radar and tracking, vehicle electronics
Motorsport	Sensors and telemetry, navigation, sensor power
Space	Satellites & CubeSats, communications, launch systems
Energy	Oil & Gas, renewable energy equipment
High-end professional electronics	Robotics, automation, drives & controls
Medical	Diagnostics, instrumentation

Product Features

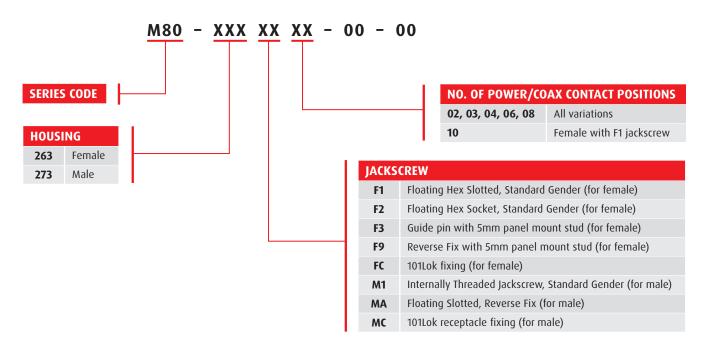


Specifications						
Electrical		Mechanical & Environmental		Physical		
Current rating	3A (signal contact), 20A (power), 40A (high power)	Number of Mating Cycles	500	Housing	Glass filled PPS, UL94V-0	
Voltage rating	800V AC/DC	Temperature Range	-55°C to +125°C	Contacts	Copper alloy, Gold or selective gold/tin plating	
Maximum Voltage	1200V AC/DC	Insertion force	2.0N max (signal), 8N max (power/coax), 15N max (high power)	Jackscrews	Stainless steel	
Contact Resistance	25mΩ max	Withdrawal force	0.2N min			
Insulation Resistance	100MΩ min	Vibration	10G, 6 hours total			
Impedance (coax)	50Ω					
Frequency range (coax)	Up to 6GHz					
VSWR (coax)	1.05 + (0.04 x Frequency) GHz max					



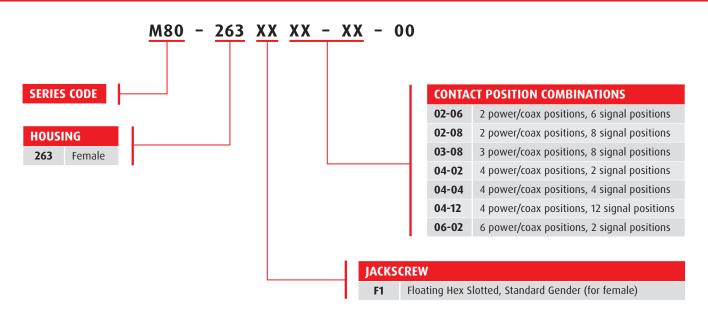


Power/Coax Only housing



For any other combinations shown on the Technical Drawings, please contact our Experts on Harwin.com/contact for assistance and availability.

Signal + Power/Coax housing



For any other combinations shown on the Technical Drawings, please contact our Experts on Harwin.com/contact for assistance and availability.



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Compatible Contacts

Standard Power (up to 20A)



Straight Solder Female M80-32512 AWG **M80-326**14 AWG **M80-327**

16 AWG



Straight Crimp Female M80-328 18 AWG M80-329 20 AWG



Right Angle Solder Female M80-32A 12 AWG M80-32B 14 AWG M80-32C 16 AWG



Straight Solder Male M80-33512 AWG **M80-336**14 AWG **M80-337**16 AWG



Straight Crimp Male M80-33818 AWG **M80-339**20 AWG

High Power (up to 40A)



Straight Solder Female M80-PF5 10 AWG



Straight Solder Male M80-PM5 10 AWG

Coax



Straight Crimp Female M80-305 Ø2.00mm cable M80-307 Ø2.70mm cable



90° Crimp Female M80-308 Ø2.00mm cable M80-309 Ø2.70mm cable



Male
M80-315
Ø2.00mm cable
M80-317
Ø2.70mm cable



90° Crimp Male M80-318 Ø2.00mm cable M80-319 Ø2.70mm cable

Signal



Small Bore (24-28 AWG) M80-0130001 Tin Shell



Small Bore (24-28 AWG) M80-0130005 Gold Shell



Large Bore (22 AWG) M80-0110001 Tin Shell



Large Bore (22 AWG) M80-0110005 Gold Shell



Extra Small Bore (28-32 AWG) M80-0190001 Tin Shell



Extra Small Bore (28-32 AWG) M80-0190005 Gold Shell

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