

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 (50Ω)**.

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 1,081 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 50 Ω , 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

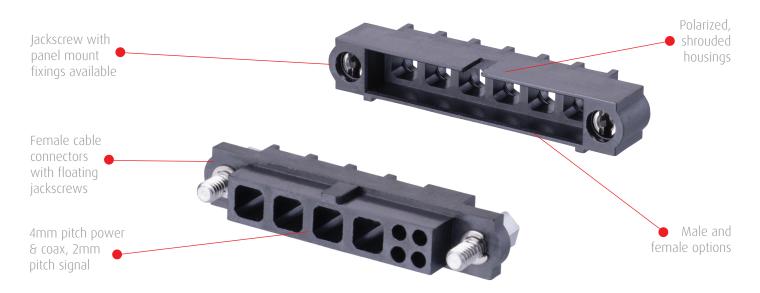


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Key Applications					
Aerospace, Defense & Security	Radar, avionics controls, guidance systems, UAVs, radio communications, radar and tracking, vehicle electronics				
Motorsport	Sensors and telemetry, navigation, sensor power				
Space	Satellites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

Product Features



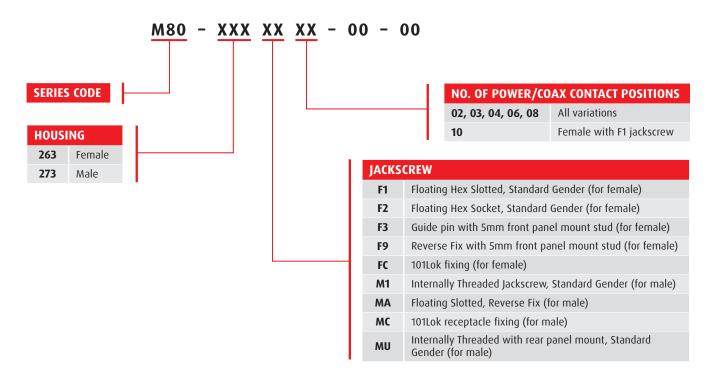
Specifications							
Electrical		Mechanical & Environmental		Physical			
Current rating	3A (signal contact), 20A (power), 40A (high power)	Number of Mating Cycles	500	Housing	Glass filled PPS, UL94V-0		
Voltage rating	800V AC/DC	Temperature Range	-55°C to +125°C	Contacts	Copper alloy, Gold or selective gold/tin plating		
Maximum Voltage	1200V AC/DC	Insertion force	2N max (signal), 8N max (power), 15N max (high power), 20N max (coax)	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						



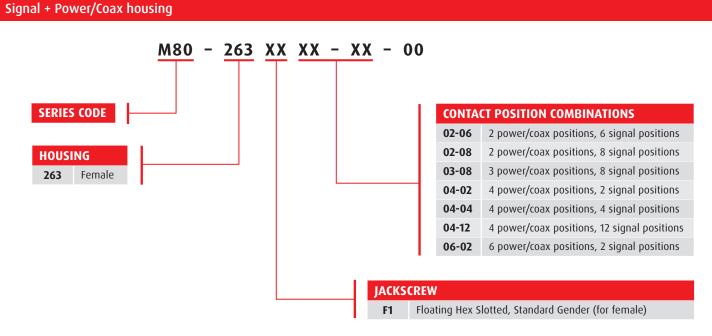
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Power/Coax Only housing



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



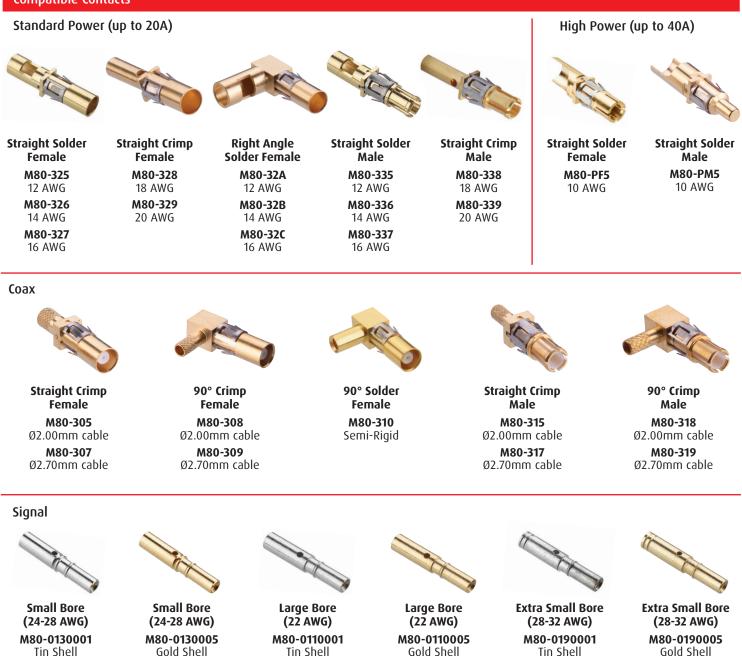
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Compatible Contacts



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