

Datamate Mix-Tek Off-the-Shelf Mixed Technology Connectors

Signal, Power and Coax in one compact connection

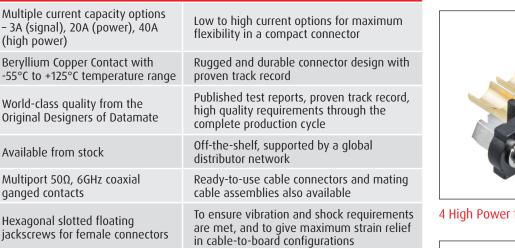
Achieve high reliability and performance with the mixed technology connectors from the Datamate range. Specify off-the-shelf connectors with:

Power Only (20A)	Power (20A) with Signal (3A)
High Power Only (40A)	Coax Only (50Ω)

Discover a wide range of lightweight connectors ideal where COTS (Commercial Off-The-Shelf) substitution is possible. Guard against vibration and shock with fitted stainless steel jackscrews. These robust connectors bring you a proven track record under extreme conditions. Specify these cable-to-board connectors for delivery from stock.



2 Power and 2 signal male vertical PCB connector



Key Applications

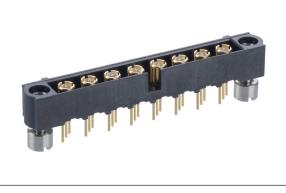
Features and Benefits

(high power)

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



4 High Power female cable connector with solder cups



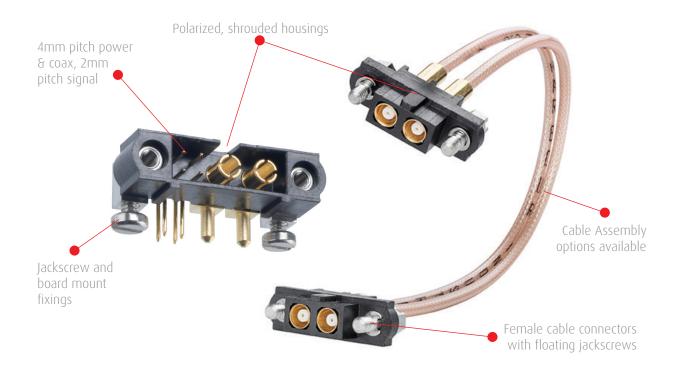
8 coax male vertical PCB connector with board mount



www.harwin.com/mix-tek



Product Features



Specifications						
Electrical		Mechanical		Physical		
Current Rating	3A (signal), 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			
Frequency Range (coax)	Up to 6GHz					
VSWR (coax)	1.05 + (0.04 x Frequency) GHz max					

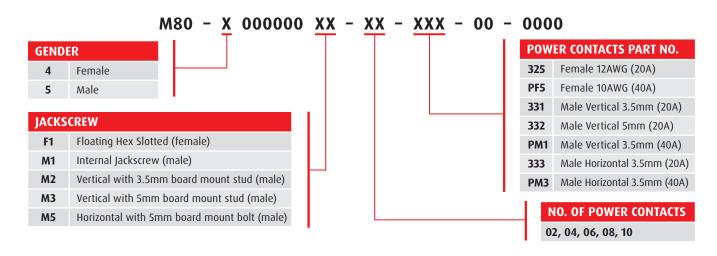


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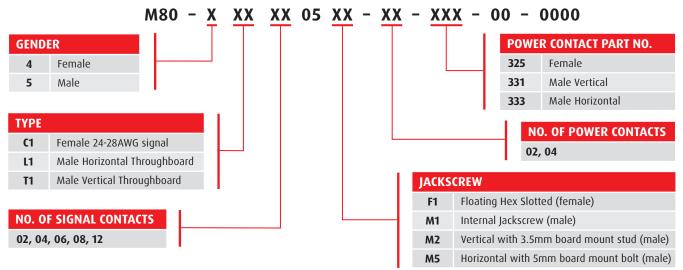


How to Order

Power Only connector



Signal & Power connector



50Ω Coax ganged connector

M80 – XXXXXXX – XX

GENDER/TYP	R/ТҮРЕ	
FC305F1	Female Cable, RG178	
MV311M2C	Male Vertical Board Mount, 3mm Throughboard	
MV312M3C	Male Vertical Board Mount, 4.5mm Throughboard	
MH313M2C	Male Horizontal Board Mount, 3mm Throughboard	
MH314M3C	Male Horizontal Board Mount, 4.5mm Throughboard	



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