PRODUCT OVERVIEW SHEET

molex

Multi-Port RF (MPRF) Coaxial Connectors ›

MPRF Coaxial Connectors are rugged, compact cable-to-board connectors that consolidate up to eight RF contacts into a single robust interface. Offering high-density PCB connections, robust retention to withstand high vibration, and non-magnetic versions for imaging and high-performance applications, MPRF Coaxial Connectors help reduce failure rates, accelerate assembly, simplify upgrades and minimize space requirements on the board.

ADVANTAGES AND FEATURES

Withstands vibration effects
Enhanced strain relief helps prevent cable terminations from "rocking" within the mating interface, minimizing connection stability problems in high-vibration environments.

Minimizes electrical contact failures
Dual side latches and 1.00mm nominal contact wipe help prevent intermittent connectivity, delivering consistent performance.

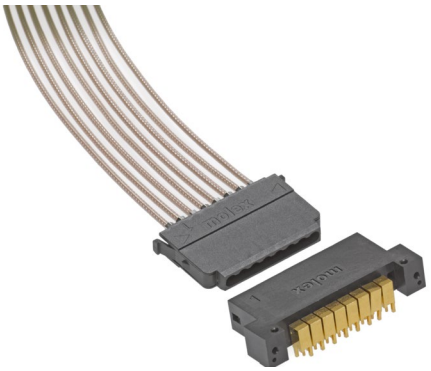
Withstands harsh operating conditions
The ruggedized outer nylon shell protects against harsh conditions and is rated to withstand 500+ mating cycles, reducing damage risk and increasing connector durability.

Port Counts	4, 6 or 8
Pitch	3.75mm
Frequencies	DC to 10 GHz
Impedance	50 Ohms
Solutions	Standard and non-magnetic

Reduces real estate requirements
The compact 3.75mm pitch and support for 2.50mm cable diameters minimize the PCB space needed to route multiple coaxial lines and preserves board flexibility.

Enables use with imaging systems
Non-magnetic versions with relative permittivity near 1.0 are available to meet stringent signal-to-noise-ratio requirements and prevent interference with imaging systems.

Simplifies cable routing and assembly
Consolidating four, six or eight RF channels into a one-piece connector block shortens installation time and simplifies routing. Removable, snap-in contacts streamline repair work and enhance serviceability.



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MARKETS AND APPLICATIONS

Aerospace
Data communications systems

Defense
Data communications systems

Industrial Automation
Automated test equipment
Test and measurement systems

MedTech
Patient-monitoring and imaging equipment

Networking
Hubs and servers

Telecommunications
Hubs and servers

Test and Measurement Systems

Patient-Monitoring and Imaging Equipment

Hubs and Servers

SPECIFICATIONS

Reference Information
Packaging: Tray
Series: 73358 (connectors, assemblies, ganged jacks/plugs); 73158 (individual jacks, plugs, retention clips); 73386 (adapters)
Cable Compatibility: RG-178, RG-316, Temp-Flex .086
Designed in: Millimeters
RoHS: Yes
Halogen Free: Yes

Electrical
Frequency Range: DC to 10 GHz
Characteristic Impedance: 50 Ohms
(75 Ohms available as a custom solution)
VSWR (max.):
1.40:1—DC to 6 GHz
1.70:1—6 to 10 GHz
Dielectric Withstanding Voltage: 500V AC (RMS)
Insulation Resistance (min.): 1,000 Megohms

Physical
Housing: Nylon
Plating:
Standard—gold over nickel, 8µin gold
Non-magnetic—gold over electroless phosphorous nickel, 5 or 8µin gold
Operating Temperatures: -55 to +165°C

Mechanical
Port Count: 4, 6, 8 (ganged configurations)
Termination Type: Coaxial cable-to-board
Configurations: Right-angle and edge-mount PCB receptacles with SMT or through-hole attachment; straight or right-angle cable connectors
Latch/Strain Relief: Integrated shell with dual side latches
Contact Type: Snap-in
Contact Wipe (nominal): 1.00mm
Pitch: 3.75mm for high-density array
Cable Diameter (max.): 2.50mm
Mating Force (max.): 6.67N (1.50 lbs)
Unmating Force (min.): 4.49N (1.0 lbs)
Retention Force (min.): 88N (latch engaged)
Durability (min.): 500 cycles

www.molex.com

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