

MMCX PoC

The MMCX Power-over-Coax (PoC) connector developed by Molex is an innovative solution tailored for applications requiring a compact radio frequency (RF) connection within the DC – 6 GHz range, while also providing the capability to deliver remote power. These connectors offer a robust, reliable solution that simplifies the upgrade process and enhances performance in challenging environments, directly addressing the customer's need for stable connections and efficient integration.

ADVANTAGES AND FEATURES

Helps deliver remote power in dynamic environments

MMCX PoC Connectors enable single-cable data and power transmission, reduce installation complexity and are flexible enough for a wide range of applications.

Provides cost savings, time efficiency, and simplicity

MMCX PoC connectors are backward compatible to IEC 61169-52 MMCX products and will not require PCB receptacle changes (connector or PCB footprint).

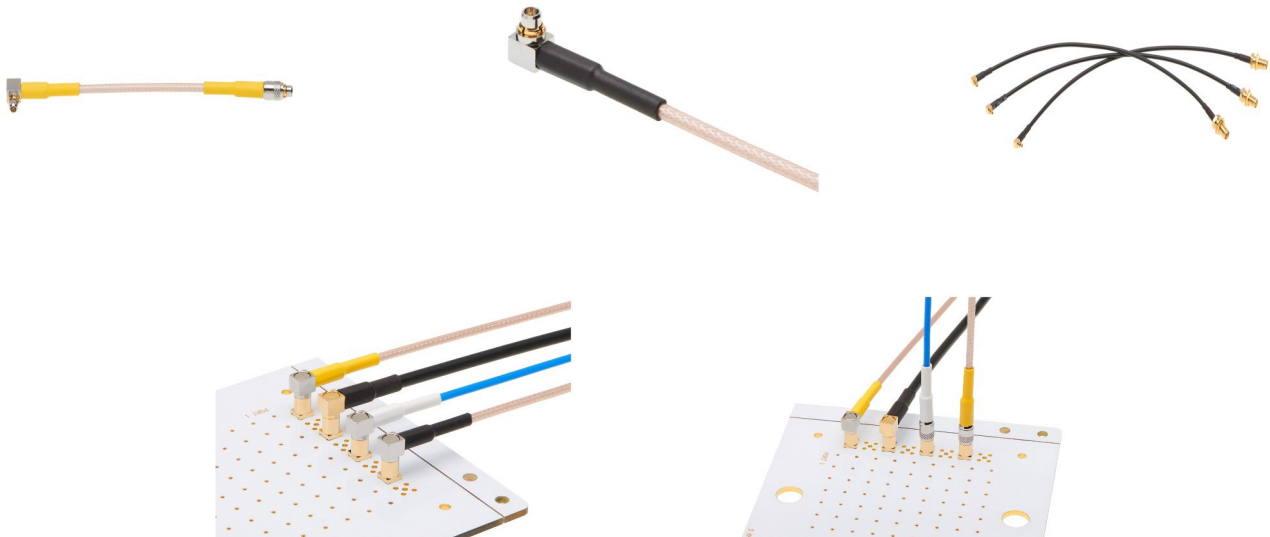
Frequency Range (max.)	DC – 6 GHz
Impedance	50 ohms
Withstanding Voltage	500 VRMS
Force to Engage (max.):	26.7N
Force to Disengage (min.):	8.9N
Operating Temperatures	-65 to +125°C

Ensures full compatibility with standard MMCX Jack connectors

The fully compatible feature enhances the snap-on mating mechanism by ensuring easy integration, providing a reliable connection and maintaining consistent performance across various applications.

Provides stable and reliable GND continuity

These connectors feature a full-locking mating mechanism with zero gap and a non-snap ring design.



MMCX PoC

MARKETS AND APPLICATIONS

Automotive

Digital rearview mirrors
Driver monitoring systems
Intelligent transport management systems
Centralized monitoring and control (CMC) panels
Telematics systems

Wireless infrastructure

Open-path gas leak detectors
Sensors
Video devices
GPS receivers
Consumer electronics devices
GPS surveying equipment
Vehicle-mounted GPS antennas

Industrial

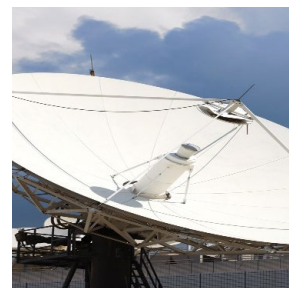
RF industrial applications
Wireless meter readers

Agricultural machinery

Agricultural market GPS antennas



Digital Rearview Mirrors



GPS Receivers



Wireless Meter Readers



Agricultural Market GPS Antennas

SPECIFICATIONS

Reference Information

Packaging: Bag
Designed In: Taiwan
RoHS: Yes
Halogen Free: No
Glow Wire Capable: N/A

Electrical

Connector VSWR* (Return Loss) (Max.):
1.25 (-19dB) DC to 4GHz
1.4 (-16dB) MAX, 4GHz to 6GHz
Frequency Range (Max.): DC – 6 GHz
Impedance: 50 Ohms
Withstanding Voltage: 500 VRMS
Insulation Resistance (Min.): 1,000 Megohms
Vibration and Shock: No discontinuity of
1.0 μ s or greater

**Typical and may vary by specific part number*

Mechanical

Coupling Method: Snap-On
Force to Engage (Max.): 26.7N
Force to Disengage (Min.): 8.9N
Durability (Max.): 500 cycles

Physical

Operating Temperatures: -65 to +125°C

www.molex.com