

5G RF Connector and Cable Assembly Solutions for the Wireless Industry ›

Molex 5G RF Connector and Cable Assembly Solutions meet the performance needs of next-generation mobile network equipment, in a small form factor with best-in-class passive intermodulation (PIM) and less torque than current interfaces

FEATURES AND ADVANTAGES

5G CABLE JUMPER SOLUTIONS



RF Cable Jumper Assembly for 5G Applications

Serialization of cable assemblies	Helps keep data on file for technicians working in the field
Custom connectors and cable jumpers designed to optimize performance	Delivers excellent passive intermodulation (PIM) and return loss (RL) results
Cables constructed with 1/2" corrugated cable as well as multiple superflex cable options	Provides design flexibility to meet the needs of a range of applications

AISG CABLES AND CONNECTORS

Cables available in multiple lengths, with male and female connector configurations. Customization also available
Delivers design flexibility to meet the application's specific needs

Built to withstand harsh environments

Can remain in use in the field for multiple years



AISG RF Cable Jumper Assembly for 5G Applications

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FEATURES AND ADVANTAGES

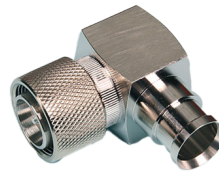
AISG CABLES AND CONNECTORS

30% smaller than DIN 7/16 connectors

Decreases operational expenditures by reducing tower loading



Vertical
Hand-Tight Plug



Right-Angle
Hand-Tight Plug

Low-PIM performance (160dBc @ 2x43dBm)

Enables wireless service providers to build networks capable of superior performance



Right-Angle
Wrench-Tight Plug



Vertical
Wrench-Tight Plug

IP68 rated with IEC 60529 standards

Makes this connector ideal for use in outdoor environments

Interface already adopted by radio and antenna OEMs

Base station equipment will be deployed with new 4.3-10 connectors

Serialized cables mean 100% data traceability
Enables quality assurance



Patent-pending weatherproof boots
Protects connection in harsh weather. Ideal for outdoor cellular sites

Custom, factory-made low-PIM cable jumper assemblies (12.70mm [1/2"] coaxial cable, 9.53mm [3/8"] coaxial cable)

Eliminates a vendor and the need for the customer to assemble

Three mating options for right-angle and vertical plugs (hand tight, quick lock and torque)

Provides design flexibility, depending on application needs, without compromising electrical performance

MARKETS AND APPLICATIONS

5G

Consumer devices
Internet of Things (IoT)
Telecom infrastructure

Connected Home

5G infrastructure and devices

Consumer

Devices with 5G connectivity

Telecommunications/Networking

Network radio OEMs
Base station antennas
Signal optimization equipment



5G Connectivity



Base Station Antenna



Smart Home Device

5G RF Connector and Cable Assembly Solutions for the Wireless Industry >

SPECIFICATIONS

Reference Information

Packaging: Tray, carton
 Mates with: series 73162 4.3/10 plugs mate with series 73162 jacks
 Use with: Coaxial or fit cable: 12.70mm (0.5") foam or flexible models
 Designed in: Millimeters
 RoHS: Yes

Electrical

Voltage: 1800Vrms @ sea level
 Frequency (max.): DC to 12 GHz
 Impedance: 50 Ohms
 Dielectric Withstanding Voltage: 2500V AC @ 0.5mA
 Contact Resistance:
 Center Contact: ≤ 1 milliohm
 Outer Contact: ≤ 1 milliohm
 Insulation Resistance: ≥ 5000 Megohms
 VSWR:
 ≤ 1.03 DC to 4 GHz
 ≤ 1.05 4 to 6 GHz
 RF Insertion Loss: $\leq 0.05 \times \sqrt{f}$ (GHz) dB
 Center Contact Resistance: ≤ 1 milliohms
 Outer Contact Resistance: ≤ 1 milliohms
 PIM3 (Typical): -166dBc (2x43 dBm)

Mechanical

Mating Torque: 5 to 8nm
 Coupling Proof Torque: 8nm
 Coupling Nut Retention Force: ≥ 450 N
 Engagement Force (Quick Lock): 100N
 Disengagement Force (Quick Lock): 80N
 Durability: 100 cycles
 Sealing: IP68

Physical

Housing: Brass
 Contact: Phosphor Bronze
 Plating:
 Contact Area—Silver
 Insulator: Teflon
 O-Ring: Silicone rubber
 Operating Temperature: -55 to +90°C

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