



SPECIFICATION

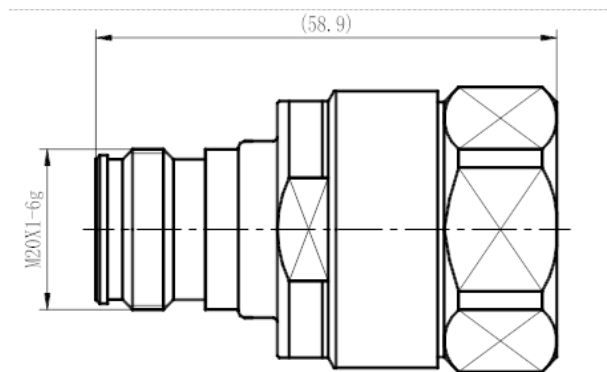
4.3/10 FEMALE CONNECTOR FOR 7/8" CABLE

4.3/10 connector system is designed to meet the rising performance needs of mobile network equipment e.g. to connect the RRU to the antenna. The small size and low weight of these connectors do justice to the miniaturization of mobile radio network components. Despite their size, the connectors guarantee excellent return loss and passive inter-modulation performance (PIM) levels.

Three different coupling mechanisms of the plug connectors screw, quick-lock/push-pull and hand-screw types are mateable with all jack connectors. All of the 4.3-10 connectors meet the requirements of IP68 and, because of the excellent properties of materials used, are suitable for temperatures ranging from -40°C up to +85°C. Customized connector designs for use at higher temperatures are also possible on demand.

Designed for Fast and Easy Installation

| Standards | | IEC61169-54 | |
|------------------------------------|------------------------------|-----------------------------|--------------|
| Electrical Characteristics | | Mechanical Characteristics | |
| Contact resistance inner conductor | $\leq 1.0 \text{ m}\Omega$ | Recommended coupling torque | 5-10Nm |
| Contact resistance outer conductor | $\leq 1.0 \text{ m}\Omega$ | Durability (mating cycles) | ≥ 100 |
| Insulation resistance | $\geq 5.0 \text{ G}\Omega$ | Material: spring contacts | Brass |
| Voltage proof | 2.5KV/50Hz | Material: outer conductor | Brass |
| Impedance | 50 Ω | Material: other metal parts | Brass |
| Passive inter-modulation | -166dBc@2 x 43 dBm. | Material: insulators | PTFE |
| Return loss: Angle type | 26.4 dB@3 GHz; 20.8dB@/6 GHz | Plating: Inner conductor | Ag |
| Working voltage | 1.8KV/50Hz | Plating: Outer conductor | Ni/Tri-alloy |
| Frequency range up to | 12GHz | Plating: Other metal parts | Ni/Tri-alloy |



Part Number: 4.3-10 F 7/8 S.T.

Dimensions are in millimeters

Interface

According to IEC 61169-54

General Specifications

| | |
|---------------------|-------------------------------------|
| Cable Size | 7/8" |
| Cable Type | Foam Dielectric |
| Connector Interface | 4.3/10 |
| Sealing Method | Sealing rubber and shrinking sleeve |
| Gender | Female |

Electrical

| | |
|---------------------------------|---|
| Characteristic Impedance | 50 ohm |
| Frequency Range | DC-12GHz |
| VSWR | ≤1.10(0-3G) ≤1.20(3-6G) |
| PIM Intermodulation@2-tonex20w | ≤-163 dBc |
| Dielectric Withstanding Voltage | ≥2500V RMS,50Hz,at sea level |
| Dielectric Resistance | ≥5000MΩ |
| Contact Resistance | Center Contact ≤1.0mΩ Outer Contact ≤1.0mΩ |

Mechanical

Durability Mating cycles ≥100 cycles

Material and Plating

| | Material | Plating |
|------------------|-----------------|--------------|
| Body | Brass | Tri-Alloy |
| Center conductor | Phosphor Bronze | Ag |
| Insulator | PTFE | - |
| Gasket | Silicone rubber | - |
| Other | Brass | Tri-Alloy/Ni |

Environmental

| | | |
|-----------------------------|--------|-----------------------|
| Installation Temperature CF | °C(°F) | -40 to 85(-40 to 185) |
| Storage Temperature CF | °C(°F) | -40 to 85(-40 to 185) |
| Operation Temperature CF | °C(°F) | -40 to 85(-40 to 185) |
| Watertightness | | IP68 |
| RoHS-compliance | | Full RoHS Compliance |
| Salt-fog test | | 96h |