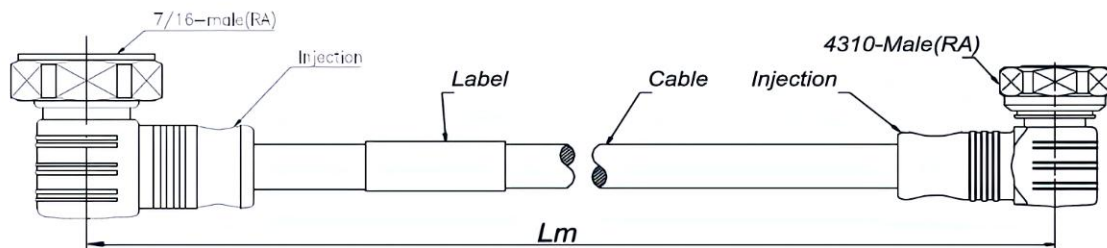




RF cable assembly, 3/8 in super-flexible coaxial cable with FRNC jacket, 7/16 DIN male right angle to 4.3-10 male right angle.



General Specifications

| | |
|-------------------------|---|
| Flexibility | Super-flexible |
| Jacket Color | Black |
| Performance Note | Attenuation guaranteed within the tolerance $\pm 10\%$ |
| Structure Note | Dimension guaranteed within the tolerance $\pm 1\%$ |
| Nominal Cable Size | 3/8 in |
| Connector 1 | 7/16 DIN male right angle |
| Connector 2 | 4.3-10 male right angle |
| Frequency Band | DC - 4 GHz |
| Insertion Loss | Cable loss + Connector loss ($0.1 \cdot \sqrt{FGHz}$) |
| Return Loss | $\leq -28\text{dB}$ @DC-1GHz $\leq -26\text{dB}$ @1.0-2.2GHz $\leq -23\text{dB}$ @2.2-3.0GHz $\leq -22\text{dB}$ @3.0-3.8GHz |
| PIM (900MHz, 3rd Order) | $\leq -160\text{dBc}$ @ $2 \times 43\text{dBm}$ |
| Impedance | 50 ohms ± 1 ohm |

Cable Specifications

| | |
|-----------------------------|------------|
| Maximum Available Frequency | 15 GHz |
| Cut-off Frequency | 17 GHz |
| Velocity Ratio | 82% |
| Peak Power | 7.2 kW |
| Insulation Resistance | 5000 MΩ·km |
| DC Breakdown Voltage | 2300 V |
| Nominal Capacitance | 82 pF/m |
| Nominal Inductance | 0.195 μH/m |

Cable Material

| | |
|-----------------|--------------------------------|
| Inner Conductor | Copper-Clad Aluminum Wire |
| Dielectric | Physical Foam Polyethylene |
| Outer Conductor | Helical Corrugated Copper Tube |
| Jacket | FRNC |

Attenuations

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) | Average Power (kW) |
|-----------------|------------------------|-------------------------|--------------------|
| 0.5 | 0.27 | 0.08 | 13.20 |
| 1 | 0.38 | 0.12 | 13.20 |
| 1.5 | 0.46 | 0.14 | 13.20 |
| 2 | 0.54 | 0.16 | 6.92 |
| 10 | 1.21 | 0.37 | 4.87 |
| 20 | 1.71 | 0.52 | 3.97 |
| 30 | 2.11 | 0.64 | 3.06 |
| 50 | 2.73 | 0.83 | 2.14 |
| 88 | 3.65 | 1.11 | 1.98 |
| 100 | 4.21 | 1.28 | 1.87 |
| 108 | 4.46 | 1.36 | 1.76 |
| 150 | 4.81 | 1.47 | 1.61 |
| 174 | 5.20 | 1.58 | 1.49 |
| 200 | 5.59 | 1.70 | 1.21 |
| 300 | 6.92 | 2.11 | 1.04 |

| | | | |
|------|-------|-------|------|
| 400 | 8.06 | 2.46 | 0.98 |
| 450 | 9.40 | 2.87 | 0.86 |
| 500 | 10.00 | 3.05 | 0.85 |
| 512 | 10.40 | 3.17 | 0.83 |
| 600 | 10.89 | 3.32 | 0.77 |
| 700 | 11.88 | 3.62 | 0.72 |
| 800 | 12.87 | 3.92 | 0.65 |
| 824 | 13.86 | 4.22 | 0.59 |
| 900 | 14.16 | 4.32 | 0.51 |
| 960 | 14.36 | 4.38 | 0.48 |
| 1000 | 14.95 | 4.56 | 0.47 |
| 1250 | 16.53 | 5.04 | 0.45 |
| 1500 | 17.72 | 5.40 | 0.42 |
| 1700 | 21.58 | 6.58 | 0.38 |
| 1800 | 22.18 | 6.76 | 0.35 |
| 2000 | 23.27 | 7.09 | 0.35 |
| 2100 | 25.35 | 7.73 | 0.32 |
| 2200 | 27.23 | 8.30 | 0.31 |
| 2400 | 28.91 | 8.81 | 0.28 |
| 3000 | 36.83 | 11.23 | 0.22 |
| 4000 | 43.86 | 13.37 | 0.19 |
| 6000 | 50.30 | 15.33 | 0.16 |
| 8000 | 44.90 | 13.69 | 0.16 |

Return Loss / VSWR

| Frequency Band | VSWR | Return Loss (dB) | Tolerance |
|----------------|------|------------------|-----------|
| DC-1.0GHz | 1.08 | 28.3 | 5% |
| 1.0-2.2GHz | 1.12 | 24.9 | 5% |
| 2.2-3.0GHz | 1.15 | 23.1 | 5% |
| 3.0-3.8GHz | 1.17 | 22.1 | 5% |

Mechanical Specifications

| | |
|-----------------------------|--|
| Bend Protection | Molding |
| Label | Wrap Sticker |
| Bending Radius (Single) | ≥15 mm |
| Bending Radius (Repeated) | ≥30 mm |
| Number of Bending (Typical) | ≤15 |
| Tensile Strength | 950N |
| Connector Tightening Torque | ≤30N.m for 7/16 DIN Type ≤8N.m for 4.3-10 Type ≤8N.m for mini-DIN Type ≤1.5N.m for N Type ≤1.8N.m for NEX10 Type |
| Unit Packing | 1pcs in PE bag |
| Package Packing | Quality Carton |

Environmental Specifications

| | |
|--------------------------|----------------------------------|
| Installation Temperature | -20 °C to +55 °C |
| Operating Temperature | -20 °C to +85 °C |
| Storage Temperature | -25 °C to +85 °C |
| Relative Humidity | 5% - 95% |
| IP Rating | Mated IP68, 1m, 1.5hrs, 20 deg-C |

Regulatory Compliances

| | |
|---------------|-----------|
| ISO 9001:2015 | Compliant |
| ROHS | Compliant |
| China RoHS | Compliant |
| UK RoHS | Compliant |
| REACH | Compliant |
| EU/CE | Compliant |

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