



Flexible coaxial feeder cable, ring corrugated aluminum for outer conductor and smooth copper tube for inner conductor, 7/8 in, black PE jacket

General Specifications

| | |
|------------------|--|
| Flexibility | Standard |
| Jacket Color | Black |
| Performance Note | Attenuation guaranteed within the tolerance $\pm 10\%$ |
| Structure Note | Dimension guaranteed within the tolerance $\pm 5\%$ |
| Nominal Size | 7/8 in |

Material Specifications

| | |
|-----------------------------|-------------------------------|
| Inner Conductor | Smooth Copper Tube |
| Dielectric | Physical Foam Polyethylene |
| Outer Conductor | Ring Corrugated Aluminum Tube |
| Jacket | Black PE |
| Diameter of Inner Conductor | 9.00 mm |
| Diameter of Dielectric | 22.3 mm |
| Diameter of Outer Conductor | 24.9 mm |
| Diameter of Jacket | 27.5 mm |

Electrical Specifications

| | |
|-----------------------------|---------------------|
| Impedance | 50 ohms ± 1 ohm |
| Maximum Available Frequency | 5.0 GHz |
| Cut-off Frequency | 5.2 GHz |
| Velocity Ratio | 88% |
| Peak Power | 91 kW |
| Insulation Resistance | 3000 M Ω -km |
| DC Breakdown Voltage | 6000 V |
| Nominal Capacitance | 76 pF/m |
| Nominal Inductance | 0.19 μ H/m |

Attenuations

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) | Average Power (kW) |
|-----------------|------------------------|-------------------------|--------------------|
| 0.5 | 0.10 | 0.02 | 91.00 |
| 1 | 0.14 | 0.05 | 78.60 |
| 1.5 | 0.17 | 0.05 | 64.10 |
| 2 | 0.20 | 0.06 | 55.50 |
| 10 | 0.44 | 0.13 | 24.60 |
| 20 | 0.61 | 0.19 | 17.30 |
| 30 | 0.77 | 0.24 | 14.10 |
| 50 | 1.00 | 0.30 | 10.80 |
| 88 | 1.33 | 0.41 | 8.08 |
| 100 | 1.42 | 0.43 | 7.56 |
| 108 | 1.48 | 0.44 | 7.26 |
| 150 | 1.78 | 0.54 | 6.12 |
| 174 | 1.90 | 0.58 | 5.66 |
| 200 | 2.05 | 0.62 | 5.26 |
| 300 | 2.53 | 0.77 | 4.24 |
| 400 | 2.96 | 0.90 | 3.63 |
| 450 | 3.18 | 0.97 | 3.41 |
| 500 | 3.35 | 1.02 | 3.22 |
| 512 | 3.38 | 1.03 | 3.17 |
| 600 | 3.68 | 1.13 | 2.91 |
| 700 | 4.01 | 1.22 | 2.67 |
| 800 | 4.32 | 1.32 | 2.48 |
| 824 | 4.39 | 1.34 | 2.44 |
| 900 | 4.64 | 1.42 | 2.33 |
| 960 | 4.85 | 1.48 | 2.24 |
| 1000 | 4.90 | 1.49 | 2.19 |
| 1250 | 5.56 | 1.69 | 1.93 |
| 1500 | 6.16 | 1.87 | 1.74 |
| 1700 | 6.61 | 2.02 | 1.62 |
| 1800 | 6.84 | 2.09 | 1.56 |
| 2000 | 7.31 | 2.23 | 1.48 |
| 2100 | 7.48 | 2.28 | 1.44 |
| 2200 | 7.68 | 2.34 | 1.40 |
| 2400 | 8.09 | 2.46 | 1.30 |
| 3000 | 9.04 | 2.76 | 1.16 |
| 3400 | 9.95 | 3.04 | 1.08 |
| 4000 | 10.97 | 3.35 | 0.98 |
| 5000 | 12.60 | 3.84 | 0.85 |

Return Loss / VSWR

| Frequency Band | VSWR | Return Loss (dB) | Tolerance |
|----------------|------|------------------|-----------|
| 0.8-1.0GHz | 1.15 | 23.1 | 5% |
| 1.7-2.2GHz | 1.15 | 23.1 | 5% |
| 2.2-2.7GHz | 1.15 | 23.1 | 5% |
| 3.3-3.8GHz | 1.22 | 20.1 | 5% |
| 4.8-5.0GHz | 1.22 | 20.1 | 5% |

Mechanical Specifications

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|-----------------------------|---------|
| Bending Radius (Single) | ≥135 mm |
| Bending Radius (Repeated) | ≥240 mm |
| Number of Bending (Typical) | ≤15 |
| Tensile Strength | 1400N |

Environmental Specifications

| | |
|--------------------------|------------------|
| Installation Temperature | -20 °C to +55 °C |
| Operating Temperature | -40 °C to +85 °C |
| Storage Temperature | -55 °C to +85 °C |

Regulatory Compliances

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

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