**Description** | **Product Number**
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Plenum Rated Cable Inside Metal Raceway | MR-AP6012J50-RD

**Physical Dimensions**
- Center Diameter, in (mm): 0.188 (4.78)
- Diameter Over Outer Conductor, in (mm): 0.550 (13.97)
- Maximum Diameter Over Jacket, in (Area in\(^2\)): 0.62 (0.3019)
- Inside Diameter of Metal Raceway, in (Area in\(^2\)): 0.852 (0.5701)
- Maximum Diameter Over Metal Raceway, in (mm): 1.08 (27.43)
- Fill Rate of Metal Raceway: 52.95%
- Center Conductor: Copper-Clad Aluminum
- Outer Conductor: Corrugated Aluminum
- Jacket Color: Red
- Metal Raceway: Interlocked Aluminum

**Electrical Characteristics**
- Maximum Frequency, GHz: 10
- Peak Power Rating, KW: 35
- DC Resistance, Ohms/1,000 ft (1,000 m): 0.46 (1.51)
- Capacitance, pF/ft (m): 22 (72.12)
- Inductance, mH/ft (m): 0.057 (0.187)
- Jacket Spark, kV RMS: 8
- VSWR min, (dB): 1.25 (19.0)
- VSWR typical, 150 / 450 / 698-960 / 1700-2200 MHz (dB): 1.13 (24.3)
- Impedance, Ohms: 50 ± 2
- Velocity of Propagation: 94%

**Mechanical Characteristics**
- Minimum Bend Radius, in (mm): 7 (178)
- Cable Weight, lb/ft (kg/m): 0.26 (0.39)
- Bending Moment, ft lb (N m): 15 (20.3)
- Tensile Strength of Metal Raceway, lb (kg): 150 (68)
- Clamp Spacing, ft (m): 5 (1.52)
- Metal Raceway utilizes standard MC/AC ½" connectors and hangers
- Recommended Install Temp., °F (°C): +5° to 194° (-15° to 90°)
- Recommended Storage Temp., °F (°C): +5° to 194° (-15° to 90°)
- Recommended Operating Temp., °F (°C): +5° to 194° (-15° to 90°)

**Standard Conditions**
- For Attenuation: VSWR 1.0, Ambient Temperature 20°C (68°F)
- For Average Power: VSWR 1.0, Ambient Temperature 40°C (104°F), Inner Conductor Temperature 100°C (212°F), No Solar Loading

**Regulatory Compliance/Certifications**
- RoHS 2011/65/EU Compliant
- TL 9000 H-V - All Cables designed and manufactured under this quality management system
- NFPA 72 (2019), Section 12.4.2 - Pathway Survivability Level 1 shall consist of pathways in buildings that are fully protected by an automatic sprinkler system in accordance with NFPA 13 with any interconnecting conductors, cables, or other physical pathways installed in metal raceways.

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