RCT5, RADIAX® Coaxial Radiating Cable with Bump, 50–500 MHz, tuned foil, 7/8 in, black non-halogenated, fire retardant polyolefin jacket

Product Classification

Product Type: Radiating cable  
Product Brand: RADIAX®  
Product Series: RCT5

General Specifications

Polarization: Horizontal  
Cable Type: Radiating Mode (RCT) Series  
Jacket Color: Black

Dimensions

Diameter Over Jacket, maximum: 27.686 mm | 1.09 in  
Inner Conductor OD: 9.449 mm | 0.372 in  
Outer Conductor OD: 24.13 mm | 0.95 in  
Nominal Size: 7/8 in  
Recommended Distance from the Wall: 101.6 mm | 4 in  
Recommended Hanger Spacing: 1 m | 3.281 ft

Electrical Specifications

Attenuation Test Method: IEC 61196-4  
Attenuation Tolerance: ±5%  
Cable Impedance: 50 ohm ±2 ohm  
dc Resistance, Inner Conductor: 1.435 ohms/km | 0.437 ohms/kft  
dc Resistance, Outer Conductor: 3.4 ohms/km | 1.036 ohms/kft  
dc Test Voltage: 6000 V  
Insulation Resistance: 100000 Mohms-km
<table>
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<tr>
<th>Frequency (MHz)</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
<th>Coupling Loss 50%</th>
<th>Coupling Loss 95%</th>
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### Material Specifications

- **Dielectric Material**: Foam PE
- **Jacket Material**: Non-halogenated, fire retardant polyolefin
- **Inner Conductor Material**: Copper tube
- **Outer Conductor Material**: Copper foil

### Mechanical Specifications

- **Minimum Bend Radius, single Bend**: 254 mm | 10 in
- **Tensile Strength**: 215 kg | 473.993 lb
- **Bending Moment**: 14.9 N-m | 131.876 in lb
- **Coupling Loss Test Method**: IEC 61196-4
- **Coupling Loss Tolerance**: ±5 dB
RCT5-LT-1A-RNA

Flat Plate Crush Strength | 0.6 kg/mm | 33.598 lb/in
Indication of Slot Alignment | Yes–bumps face the wall

Environmental Specifications

Installation temperature | -30 °C to +60 °C (-22 °F to +140 °F)
Operating Temperature | -30 °C to +80 °C (-22 °F to +176 °F)
Storage Temperature | -30 °C to +80 °C (-22 °F to +176 °F)
Attenuation, Ambient Temperature | 68 °F | 20 °C
Average Power, Ambient Temperature | 104 °F | 40 °C
Average Power, Inner Conductor Temperature | 212 °F | 100 °C
Fire Retardancy Test Method | IEC 60332-1 | IEC 60332-3C-24
Smoke Index Test Method | IEC 61034
Toxicity Index Test Method | IEC 60754-1 | IEC 60754-2

Packaging and Weights

Cable weight | 0.42 kg/m | 0.282 lb/ft

Regulatory Compliance/Certifications

Agency | Classification
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ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system
REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS | Compliant