Product Specifications









RCT6-S-1A-RNA

RCT6, RADIAX® Coaxial Radiating Cable with Bump, 1700-2500 MHz, tuned foil, 1-1/4 in, black non-halogenated, fire retardant polyolefin jacket

Construction Materials

Jacket Material Non-halogenated, fire retardant polyolefin

Dielectric Material Foam PE

Inner Conductor Material Corrugated copper tube

Jacket Color Black

Outer Conductor Material Copper foil

Dimensions

Nominal Size 1-1/4 in

 Diameter Over Jacket, maximum
 39.116 mm | 1.540 in

 Inner Conductor OD
 0.5200 in | 14.2080 mm

 Outer Conductor OD
 1.340 in | 34.030 mm

 Cable Weight
 0.43 lb/ft | 0.64 kg/m

Electrical Specifications

Operating Frequency Band 1700 – 2500 MHz

Optimum Operating Frequency Band 2300 – 2500 MHz Polarization Vertical

VSWR Installed, typical, 50–960 MHz 1.30
VSWR on Reel, typical 1.43

Cable Impedance 50 ohm ±2 ohm

dc Resistance, Inner Conductor0.530 ohms/kft| 1.740 ohms/kmdc Resistance, Outer Conductor0.900 ohms/kft| 2.953 ohms/km

dc Test Voltage 8500 V

Insulation Resistance 100000 Mohms•km

Jacket Spark Test Voltage (rms)10000 VPeak Power180.0 kWVelocity91%

Environmental Specifications

Installation Temperature $-30 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (-22 °F to +140 °F) Operating Temperature $-30 \,^{\circ}\text{C}$ to $+80 \,^{\circ}\text{C}$ (-22 °F to +176 °F) Storage Temperature $-30 \,^{\circ}\text{C}$ to $+80 \,^{\circ}\text{C}$ (-22 °F to +176 °F)

General Specifications

Cable Type Radiating Mode (RCT) Series

Brand RADIAX®

Product Specifications



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Mechanical Specifications

Bending Moment 15.5 N-m | 11.4 ft lb

Flat Plate Crush Strength 80.0 lb/in | 1.4 kg/mm

Indication of Slot Alignment Yes; bumps face the wall

Minimum Bend Radius, Single Bend 381.00 mm | 15.00 in

Recommended Distance from the Wall 101.6 mm | 4.0 in

Recommended Hanger Spacing 1.3 m | 4.3 ft

Tensile Strength 168 kg | 370 lb

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

Standard Conditions

Attenuation Test Method IEC 61196-4
Attenuation Tolerance ±5%

Attenuation, Ambient Temperature 20 °C | 68 °F

Average Power, Ambient Temperature 40 °C | 104 °F

Average Power, Inner Conductor Temperature 100 °C | 212 °F

Coupling Loss Test Method IEC 61196-4

Coupling Loss Tolerance ±5 dB

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Coupling Loss 50%	Coupling Loss 95%
1700 MHz	3.50	1.07	75	77
1800 MHz	3.60	1.10	72	76
1900 MHz	3.80	1.16	70	72
2000 MHz	3.90	1.19	69	73
2100 MHz	4.10	1.25	67	70
2200 MHz	4.30	1.31	67	70
2300 MHz	4.50	1.37	66	69
2400 MHz	4.80	1.46	63	66
2500 MHz	5.20	1.58	62	65

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system