RCT6-LTC-4A-RNA

RCT6, RADIAX® Coaxial Radiating Cable with Bump, 70–960 MHz, tuned foil, 1-1/4 in, black non-halogenated, fire retardant polyolefin jacket

Product Classification

Product Type	Radiating cable
Product Brand	RADIAX®
Product Series	RCT6

General Specifications

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

Dimensions

Diameter Over Jacket, maximum	39.116 mm | 1.54 in
Inner Conductor OD	14.208 mm | 0.559 in
Outer Conductor OD	34.036 mm | 1.34 in
Nominal Size	1-1/4 in
Recommended Distance from the Wall	101.6 mm | 4 in
Recommended Hanger Spacing	1.3 m | 4.265 ft

Electrical Specifications

Attenuation Test Method	IEC 61196-4
Attenuation Tolerance	±5%
Cable Impedance	50 ohm ±2 ohm
dc Resistance, Inner Conductor	1.74 ohms/km | 0.53 ohms/kft
dc Resistance, Outer Conductor	2.953 ohms/km | 0.9 ohms/kft
dc Test Voltage	8500 V
Insulation Resistance	100000 Mohms•km

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Jacket Spark Test Voltage (rms)	10000 V
Operating Frequency Band	50 – 1000 MHz
Optimum Operating Frequency Band	70 – 960 MHz
Peak Power	180 kW
Stop Bands	590 – 635 MHz | 895 – 904 MHz
Velocity	91 %
VSWR Installed, typical, 50–960 MHz	1.3
VSWR on Reel, typical	1.43

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Coupling Loss 50%	Coupling Loss 95%
75.0	0.8	0.24	64	77
100.0	0.9	0.27	62	74
150.0	1	0.304	69	80
350.0	1.6	0.487	72	75
450.0	1.9	0.58	67	70
800.0	2.8	0.853	64	68
900.0	3.3	1	63	67

Material Specifications

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

Mechanical Specifications

Minimum Bend Radius, single Bend	381 mm | 15 in
Tensile Strength	168 kg | 370.376 lb
Bending Moment	15.5 N-m | 137.187 in lb
Coupling Loss Test Method	IEC 61196-4
Coupling Loss Tolerance	±5 dB
Flat Plate Crush Strength	1.4 kg/mm | 78.396 lb/in
Indication of Slot Alignment	Yes–bumps face the wall

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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	0.64 kg/m | 0.43 lb/ft

Regulatory Compliance/Certifications

Agency	**Classification**
CHINA-ROHS	Below maximum concentration value
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