RCT6-LT-1A-RNA



RCT6, RADIAX® Coaxial Radiating Cable with Bump, 50–900 MHz, tuned foil, 1-1/4 in, black non-halogenated, fire retardant polyolefin jacket

OBSOLETE

This product was discontinued on: January 30, 2024

Product Classification

Product Type Radiating cable

Product Brand RADIAX®
Product Series RCT6

General Specifications

Polarization Horizontal

 Cable Type
 Radiating Mode (RCT) Series

Jacket Color Black

Dimensions

 Diameter Over Jacket
 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

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dc Resistance, Inner Conductor1.74 ohms/km | 0.53 ohms/kftdc Resistance, Outer Conductor2.953 ohms/km | 0.9 ohms/kft

dc Test Voltage 8500 V

Insulation Resistance 100000 MOhms-km

Jacket Spark Test Voltage (rms) 10000 V

Operating Frequency Band50 - 900 MHzOptimum Operating Frequency Band70 - 500 MHz

Peak Power 180 kW

Stop Bands 295 – 335 MHz | 610 – 664 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	0.7	0.21	63	74
100.0	0.8	0.24	55	67
150.0	1	0.3	67	77
350.0	1.8	0.55	56	59
400.0	1.9	0.58	56	59
450.0	2	0.61	62	68
500.0	2.1	0.64	53	55
800.0	3.5	1.1	54	62
900.0	4.2	1.28	52	65

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

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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

Environmental Specifications

Installation temperature $-30 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to $+140 \,^{\circ}\text{F}$)

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

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

Attenuation, Ambient Temperature68 °F | 20 °CAverage Power, Ambient Temperature104 °F | 40 °CAverage Power, Inner Conductor Temperature212 °F | 100 °C

Fire Retardancy Test Method IEC 60332-1-2 | 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 UK-ROHS Compliant



