

# RCT5-LTC-2A-RNA

---



RCT5, RADIAX® Coaxial Radiating Cable, 50–1000 MHz, foil, 7/8 in, black non-halogenated, fire retardant polyolefin jacket

## Product Classification

<b>Brand</b>	RADIAX®
<b>Product Series</b>	RCT5
<b>Product Type</b>	Radiating cable

## Construction Materials

<b>Jacket Material</b>	Non-halogenated, fire retardant polyolefin
<b>Dielectric Material</b>	Foam PE
<b>Inner Conductor Material</b>	Copper tube
<b>Jacket Color</b>	Black
<b>Outer Conductor Material</b>	Copper foil

## Dimensions

<b>Nominal Size</b>	7/8 in
<b>Diameter Over Jacket, maximum</b>	27.686 mm   1.090 in
<b>Inner Conductor OD</b>	0.3720 in   9.4500 mm
<b>Outer Conductor OD</b>	0.950 in   24.100 mm
<b>Cable Weight</b>	0.28 lb/ft   0.42 kg/m

## Electrical Specifications

<b>Operating Frequency Band</b>	50 – 1000 MHz
<b>Optimum Operating Frequency Band</b>	70 – 960 MHz
<b>Polarization</b>	Vertical
<b>VSWR Installed, typical, 50–960 MHz</b>	1.30
<b>VSWR on Reel, typical</b>	1.43
<b>Stop Bands</b>	650 – 720 MHz
<b>Cable Impedance</b>	50 ohm ±2 ohm
<b>dc Resistance, Inner Conductor</b>	0.410 ohms/kft   1.435 ohms/km
<b>dc Resistance, Outer Conductor</b>	1.036 ohms/kft   3.400 ohms/km
<b>dc Test Voltage</b>	6000 V
<b>Insulation Resistance</b>	100000 Mohms•km
<b>Jacket Spark Test Voltage (rms)</b>	8000 V

# RCT5-LTC-2A-RNA

---

<b>Peak Power</b>	91.0 kW
<b>Velocity</b>	91%

## Environmental Specifications

<b>Installation Temperature</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Operating Temperature</b>	-30 °C to +80 °C (-22 °F to +176 °F)
<b>Storage Temperature</b>	-30 °C to +80 °C (-22 °F to +176 °F)

## General Specifications

<b>Cable Type</b>	Radiating Mode (RCT) Series
-------------------	-----------------------------

## Mechanical Specifications

<b>Bending Moment</b>	11.0 ft lb   15.0 N-m
<b>Flat Plate Crush Strength</b>	35.0 lb/in   0.6 kg/mm
<b>Indication of Slot Alignment</b>	Yes; bumps face the wall
<b>Minimum Bend Radius, Single Bend</b>	254.00 mm   10.00 in
<b>Recommended Distance from the Wall</b>	101.6 mm   4.0 in
<b>Recommended Hanger Spacing</b>	1.0 m   3.3 ft
<b>Tensile Strength</b>	475 lb   215 kg
<b>Fire Retardancy Test Method</b>	IEC 60332-1   IEC 60332-3C-24
<b>Smoke Index Test Method</b>	IEC 61034
<b>Toxicity Index Test Method</b>	IEC 60754-1   IEC 60754-2

## Standard Conditions

<b>Attenuation Test Method</b>	IEC 61196-4
<b>Attenuation Tolerance</b>	±5%
<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F
<b>Average Power, Inner Conductor Temperature</b>	100 °C   212 °F
<b>Coupling Loss Test Method</b>	IEC 61196-4
<b>Coupling Loss Tolerance</b>	±5 dB

## Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Coupling Loss 50%	Coupling Loss 95%
75 MHz	1.10	0.34	56	62
100 MHz	1.20	0.37	55	67
150 MHz	1.50	0.46	62	72
350 MHz	2.50	0.76	70	80
450 MHz	2.70	0.82	67	77
800 MHz	4.20	1.28	62	73
900 MHz	4.50	1.37	62	72

# RCT5-LTC-2A-RNA

---

960 MHz

4.80

1.46

62

69

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU

ISO 9001:2015

### Classification

Compliant

Designed, manufactured and/or distributed under this quality management system

