

# RCT5-LTC-2A-RNA

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RCT5, RADIAX® Coaxial Radiating Cable, 50–1 000 MHz, foil, 7/8 in, black non-halogenated, fire retardant polyolefin jacket

## Product Classification

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

## General Specifications

<b>Polarization</b>	Vertical
<b>Cable Type</b>	Radiating Mode (RCT) Series
<b>Jacket Color</b>	Black

## Dimensions

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

## Electrical Specifications

<b>Attenuation Test Method</b>	IEC 61196-4
<b>Attenuation Tolerance</b>	±5%
<b>Cable Impedance</b>	50 ohm ±2 ohm
<b>dc Resistance, Inner Conductor</b>	1.435 ohms/km   0.437 ohms/kft
<b>dc Resistance, Outer Conductor</b>	3.4 ohms/km   1.036 ohms/kft
<b>dc Test Voltage</b>	6000 V
<b>Insulation Resistance</b>	100000 Mohms•km

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<b>Jacket Spark Test Voltage (rms)</b>	8000 V
<b>Operating Frequency Band</b>	50 – 1000 MHz
<b>Optimum Operating Frequency Band</b>	70 – 960 MHz
<b>Peak Power</b>	91 kW
<b>Stop Bands</b>	650 – 720 MHz
<b>Velocity</b>	91 %
<b>VSWR Installed, typical, 50–960 MHz</b>	1.3
<b>VSWR on Reel, typical</b>	1.43

## Attenuation

<b>Frequency (MHz)</b>	<b>Attenuation (dB/100 m)</b>	<b>Attenuation (dB/100 ft)</b>	<b>Coupling Loss 50%</b>	<b>Coupling Loss 95%</b>
<b>75.0</b>	1.1	0.34	56	62
<b>100.0</b>	1.2	0.37	55	67
<b>150.0</b>	1.5	0.46	62	72
<b>350.0</b>	2.5	0.76	70	80
<b>450.0</b>	2.7	0.82	67	77
<b>800.0</b>	4.2	1.28	62	73
<b>900.0</b>	4.5	1.37	62	72
<b>960.0</b>	4.8	1.46	62	69

## Material Specifications

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

## Mechanical Specifications

<b>Minimum Bend Radius, single Bend</b>	254 mm   10 in
<b>Tensile Strength</b>	215 kg   473.993 lb
<b>Bending Moment</b>	15 N-m   132.761 in lb
<b>Coupling Loss Test Method</b>	IEC 61196-4
<b>Coupling Loss Tolerance</b>	±5 dB
<b>Flat Plate Crush Strength</b>	0.6 kg/mm   33.598 lb/in
<b>Indication of Slot Alignment</b>	Yes—bumps face the wall

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## 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)
<b>Attenuation, Ambient Temperature</b>	68 °F   20 °C
<b>Average Power, Ambient Temperature</b>	104 °F   40 °C
<b>Average Power, Inner Conductor Temperature</b>	212 °F   100 °C
<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

## Packaging and Weights

<b>Cable weight</b>	0.42 kg/m   0.282 lb/ft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant

