

RCT5-LT-1A-RNA



RCT5, RADIAX® Coaxial Radiating Cable with Bump, 50–500 MHz, tuned foil, 7/8 in, black non-halogenated, fire retardant polyolefin jacket

Product Classification

Product Type	Radiating cable
Product Brand	RADIAX®
Product Series	RCT5

General Specifications

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

Dimensions

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

Electrical Specifications

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

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Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	8000 V
Operating Frequency Band	50 – 900 MHz
Optimum Operating Frequency Band	150 – 500 MHz
Peak Power	91 kW
Stop Bands	320 – 340 MHz 615 – 670 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	1	0.3	66	76
100.0	1.1	0.34	63	74
150.0	1.4	0.43	72	82
350.0	2.6	0.79	53	57
400.0	2.6	0.79	55	57
420.0	2.6	0.79	56	58
450.0	2.7	0.82	58	63
500.0	2.8	0.85	54	56
800.0	4	1.22	55	59
900.0	4.3	1.31	57	65

Material Specifications

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

Mechanical Specifications

Minimum Bend Radius, single Bend	254 mm 10 in
Tensile Strength	215 kg 473.993 lb
Bending Moment	14.9 N-m 131.876 in lb
Coupling Loss Test Method	IEC 61196-4
Coupling Loss Tolerance	±5 dB

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Flat Plate Crush Strength	0.6 kg/mm 33.598 lb/in
Indication of Slot Alignment	Yes—bumps face the wall

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 60332-1-2 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	0.42 kg/m 0.282 lb/ft
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Regulatory Compliance/Certifications

Agency	Classification
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

