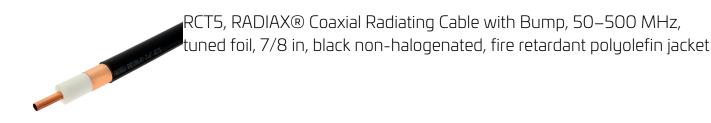
RCT5-LT-1A-RNA



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 Conductor1.435 ohms/km0.437 ohms/kftdc Resistance, Outer Conductor3.4 ohms/km1.036 ohms/kft

dc Test Voltage 6000 V

COMMSC PE®

RCT5-LT-1A-RNA

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 MethodIEC 61196-4Coupling Loss Tolerance±5 dB

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RCT5-LT-1A-RNA

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 $-30 \, ^{\circ}\text{C to } +60 \, ^{\circ}\text{C } (-22 \, ^{\circ}\text{F to } +140 \, ^{\circ}\text{F})$ 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 0.42 kg/m | 0.282 lb/ft

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

