



Radiating cable, slotted and corrugated copper tube for outer conductor and smooth copper tube for inner conductor, foam PE dielectric, 1-1/4 in, FRNC jacket

General Specifications

Flexibility	Standard
Jacket Color	Black
Performance Note	Attenuation guaranteed within the tolerance $\pm 10\%$
Structure Note	Dimension guaranteed within the tolerance $\pm 5\%$
Nominal Size	1-1/4 in

Material Specifications

Inner Conductor	Smooth Copper Tube
Dielectric	Foam PE
Outer Conductor	Slotted and Corrugated Copper Tube
Jacket	FRNC
Diameter of Inner Conductor	13.20 mm
Diameter of Dielectric	32.60 mm
Diameter of Outer Conductor	35.80 mm
Diameter of Jacket	38.80 mm

Electrical Specifications

Impedance	50 ohms ± 1 ohm
Maximum Available Frequency	50-2500 MHz
Velocity Ratio	88%
Peak Power	205 kW
Insulation Resistance	100,000 M Ω ·km
DC Breakdown Voltage	9000 V
Nominal Capacitance	70 pF/m
Nominal Inductance	0.19 μ H/m

Attenuations

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Coupling Loss, 2m (dB, 50%)
150	1.2	0.37	73/84
450	2.8	0.85	73/83
900	4.0	1.22	76/86
1800	5.2	1.58	73/79
2400	6.4	1.95	72/80

Return Loss / VSWR

Frequency Band	VSWR	Return Loss (dB)	Tolerance
50-2500MHz	1.30	17.7	5%

Mechanical Specifications

Bending Radius (Single)	≥400 mm
Bending Radius (Repeated)	≥580 mm
Number of Bending (Typical)	≤15
Tensile Strength	2500N

Environmental Specifications

Installation Temperature	-20 °C to +55 °C
Operating Temperature	-20 °C to +85 °C
Storage Temperature	-25 °C to +85 °C

Regulatory Compliances

ISO 9001:2015	Compliant
ROHS	Compliant
China RoHS	Compliant
UK RoHS	Compliant
REACH	Compliant
EU/CE	Compliant

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