

PAIRCC50E-318

3-1/8" Air-Insulation Coaxial Cable

PROSE

- 3-1/8" Air-Insulation Coaxial Cable
- Corrugated copper outer conductor
- Black PE jacket
- This product is used for telecommunication system



Photo for reference

Material

Inner conductor material	Corrugated copper tube
Dielectric material	PE strip
Outer conductor material	Corrugated copper tube
Jacket material	PE, Black, Halogen free

Dimensions

Nominal size	3-1/8"
Inner conductor OD.	Ø 34.7 mm
Dielectric OD.	Ø 75.2 mm
Outer conductor OD.	Ø 85.4 mm
Jacket OD.	Ø 91.0 mm

Reference standard

UV Resistance	UL 1581 or IEC 60068-2-5
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Electrical Specification

Impedance, nominal		50 Ω
Relative Velocity of Propagation, (%)		96
Capacitance, (pF/m)		70
Maximum operating frequency, (GHz)		1.55
Peak power rating, (kw)		940
Min. insulation resistance, (MΩ·km)		10000
DC breakdown voltage, (kV)		9.7
VSWR	550~1600kHz	≤1.06
	87~108MHz	≤1.08
	470~862MHz	≤1.10

Environmental Specification

Installation Temperature	-40°C to +60°C
Operating Temperature	-40°C to +85°C
RoHS	Compliant

Standard Conditions

Attenuation, Ambient Temperature (VSWR 1.0)	20°C
Average Power, Ambient Temperature (VSWR 1.0)	40°C
Average Power, Inner Conductor Temperature	115°C

Mechanical Specification

Min. bending radius of single, (mm)	380
Min. bending radius of repeated, (mm)	1100
Number of bends, minimum	15

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power(kW)
2	0.05	300.0
88	0.34	58.3
108	0.38	52.5
174	0.48	41.1
200	0.52	38.3
450	0.81	25.4
500	0.86	24.1
600	0.95	22.0
700	1.03	20.4
800	1.11	19.1

*Maximum attenuation value shall be 105% of the nominal attenuation value.

Marking on cable

PROSE _ PAIRCC50E-318 _ 50Ω _ _ _ _ (DD+MM+SS+YY+NNNNN) _ _ _ _ XXXXm
Remark1: Printing Interval: 1m, within ±0.5% accuracy.
Remark2: (DD+MM+SS+YY+NNNNN) means cable code.
Remark3: XXXXm means cable meter.

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