

PLAC50FR-114A

1-1/4"R Coaxial Cable

PROSE

- 1-1/4" Foam Insulation Coaxial Cable
- Corrugated aluminium outer conductor
- Black flame retardant polyolefin jacket
- Recommended operating frequency: 1~3800 MHz
- This product is used for telecommunication system
- Indoor application, flame retardant, low smoke, halogen free



Photo for reference

Material

Inner conductor material	Copper tube, helical
Dielectric material	Foam PE
Outer conductor material	Corrugated aluminium (Annularly)
Jacket material	Flame retardant polyolefin, Black, Halogen free

Dimensions

Nominal size	1-1/4"
Inner conductor OD.	Ø 13.8 mm
Dielectric OD.	Ø 33.5 mm
Outer conductor OD.	Ø 36.0 mm
Jacket OD.	Ø 38.6 mm

Reference standard

Flame retardant property	IEC 60332-1-2, IEC 60754-1/-2, IEC 61034-2
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Electrical Specification

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	88 %
Capacitance	75 pF/m
Cut-off Frequency	3.8 GHz
Peak Power Rating	185 kW
Insulation Resistance	≥ 5 GΩx km
DC Breakdown Voltage	10000 V
Jacket Spark Test Voltage	10000 Vrms

Environmental Specification

Installation Temperature	-20°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
RoHS	Compliant

Standard Conditions

Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temp	100°C

Mechanical Specification

Tensile strength	1600 N
Min. bending radius (single)	150 mm
Min. bending radius (repeated)	380 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	40 Nm
Recommended hanger spacing	1.2 m

Return Loss

Return loss(Band A)	≤ -23dB 800 to 1000MHz
Return loss(Band B)	≤ -23dB 1700 to 2500MHz
Return loss(Band C)	≤ -23dB 2500 to 2700MHz
Return loss(Band D)	≤ -20.8dB 3300 to 3800MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power(kW)
100	0.90	7.60
200	1.31	5.24
300	1.70	4.03
400	1.95	3.51
450	2.04	3.35
800	2.83	2.45
900	3.02	2.26

1000	3.21	2.12
1500	4.07	1.70
1800	4.53	1.52
2000	4.83	1.40
2200	5.10	1.33
2400	5.37	1.26
2500	5.45	1.24
2600	5.51	1.23
2700	5.62	1.20
3000	6.19	1.09
3500	6.80	0.99
3600	6.87	0.98
3800	7.21	0.94
*Maximum attenuation value shall be 105% of the nominal attenuation value.		

Marking on cable

PROSE _ PLAC50FR-114A _ 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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