

- 1/2" Foam Insulation Leaky Cable
- Slotted copper foil outer conductor
- Black flame retardant polyolefin jacket
- Recommended operating frequency: 75~960 MHz
- The leaky cable is used in tunnels and subway, etc.
- Indoor application, flame retardant, low smoke, halogen free



Photo for reference

Material

Inner conductor material	Copper-Clad Aluminium Wire
Dielectric material	Foam PE
Outer conductor material	Copper foil
Jacket material	Flame retardant polyolefin, Black, Halogen free

Dimensions

Nominal size	1/2"
Inner conductor OD.	Ø 4.8 mm
Dielectric OD.	Ø 12.3 mm
Outer conductor OD.	Ø 12.6 mm
Jacket OD.	Ø 15.5 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 ± 2 Ω
Capacitance	76 pF/m
Insulation Resistance	≥5000 MΩx km
Insulation Voltage	6000 V
Jacket Spark Test Voltage	8000 V
Relative Velocity of Propagation	86 %
Operating Frequency Band	5MHz to 1000 MHz

Optimum Operating Frequency Band	350MHz to 960MHz
Stop Band	250~270 MHz & 500~540 MHz
VSWR	≤1.3 75 MHz to 150 MHz
	≤1.3 350 MHz to 470 MHz
	≤1.3 800 MHz to 960 MHz

Environmental Specification

Installation Temperature	-40°C to +80°C
Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +85°C
RoHS	Compliant

Polarization mode

Polarization	5-150 MHz	Radial
	350-960 MHz	Horizontal

Mechanical Specification

Minimum Bend Radius:	
Single Bend	120 mm
Multiple Bend	150 mm
Bending Moment	13.5 N·m
Minimum Distance to Wall	50 mm
Recommended Hanger Spacing	0.8 m to 1.2m
Tensile Strength	1000 N

Standard Conditions

Attenuation Test Method	IEC 61196-4
Attenuation Tolerance	±5 %
Attenuation Ambient Temperature	20 °C
Average power, ambient temperature	40 °C
Average power, inner conductor temperature	100 °C
Coupling Loss Test Method	IEC 61196-4
Coupling Loss Tolerance	±5 dB

Attenuation and Coupling Loss

Frequency (MHz)	Attenuation (dB/100m)	Radiation Loss (0m) 95% (dB)	Coupling Loss (2m) 95% (dB)
75	2.9	32	68
150	3.9	32	68
350	5.8	31	67
400	6.2	31	67
450	6.5	32	67
800	8.0	35	68
900	8.5	36	70
960	8.8	37	70

Marking on cable

PROSE _ PRC50FR-12(D) _ 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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