

- 1/2" Foam Insulation Leaky Cable
- Slotted copper tape outer conductor
- Black flame retardant polyolefin jacket
- Recommended operating frequency: 2400~5900 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 tape
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	5~6000 MHz

Optimum Operating Frequency Band	2400~5900MHz
Stop Band	2600~2800MHz & 3600~3900MHz
VSWR	≤1.3 2400 MHz to 2700MHz
	≤1.4 3300MHz to 3600MHz
	≤1.4 5000MHz to 5200MHz
	≤1.4 5700MHz to 5900MHz

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	5-150MHz	Radial
	2400-5900MHz	Horizontal

Mechanical Specification

Minimum Bend Radius:	
Single Bend	75 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	Attenuation	Coupling Loss (2m) 95%
(MHz)	(dB/100m)	(dB)
2400	16.0	66
2500	16.5	66
2600	17.0	68
3500	23.0	66
5100	42.0	68
5700	49.0	70
5800	50.0	70
5900	52.0	70

Marking on cable

PROSE _ PRC50FR-12B _ 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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