

PRC50FR-158

1-5/8" Leaky Cable

PROSE

- 1-5/8" Foam Insulation Leaky Cable
- Slotted copper foil outer conductor
- Black flame retardant polyolefin jacket
- Recommended operating frequency: 5~2700 MHz
- The leaky cable is used in tunnels and subway, etc.
- Indoor application, flame retardant, low smoke, halogen free

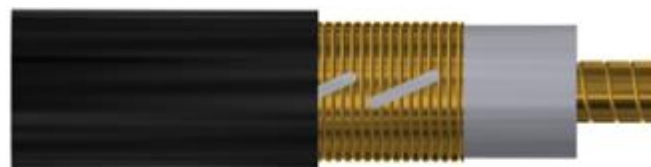


Photo for reference

Material

Inner conductor material	Helical Copper Tube
Dielectric material	Foam PE
Outer conductor material	Copper foil
Jacket material	Flame retardant polyolefin, Black, Halogen free

Dimensions

Nominal size	1-5/8"
Inner conductor OD.	Ø 18.0 mm
Dielectric OD.	Ø 42.8 mm
Outer conductor OD.	Ø 43.5 mm
Jacket OD.	Ø 47.5 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	75 pF/m
Insulation Resistance	≥5000 MΩx km
Insulation Voltage	15000 V
Jacket Spark Test Voltage	10000 V
Relative Velocity of Propagation	89 %
Peak power rating	300 kW
Operating Frequency Band	5MHz to 2700 MHz

Optimum Operating Frequency Band	700MHz to 2700MHz
Stop Band	1110~1140 MHz & 2220~2280 MHz
VSWR	≤1.3 75 MHz to 150MHz
	≤1.3 450MHz to 500MHz
	≤1.3 800MHz to 960MHz
	≤1.3 1700MHz to 2025MHz
	≤1.3 2110MHz to 2170MHz
	≤1.3 2300MHz to 2700MHz

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	5-550MHz	Radial
	700-2700MHz	Vertical

Mechanical Specification

Minimum Bend Radius:	
Single Bend	500 mm
Multiple Bend	700 mm
Bending Moment	16 N·m
Minimum Distance to Wall	50 mm
Recommended Hanger Spacing	0.8 m to 1.2m
Tensile Strength	3000 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)	Coupling Loss (2m) 50% (dB)	Coupling Loss (2m) 95% (dB)
75	0.60	70	79
100	0.70	70	81
150	0.94	78	90
450	1.50	81	90
500	1.60	82	90
700	1.90	74	77
800	2.10	70	73
900	2.30	69	72
960	2.40	69	71
1700	3.30	69	72
1800	3.60	64	67
1900	3.90	63	66
2000	4.10	63	66
2100	4.30	62	65
2200	4.50	62	66
2400	5.00	61	65
2600	5.60	62	64
2620	5.80	62	65
2700	6.20	63	66

Marking on cable

PROSE _ PRC50FR-158 _ 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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