

PRC50FR-78BG D

7/8" Leaky Cable

PROSE

- 7/8" Foam Insulation Leaky Cable
- Slotted copper foil outer conductor
- Black flame retardant polyolefin jacket
- Recommended operating frequency: 75~1000 MHz
- CPR B2ca-s1a,d0,a1
- 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 Tube
Dielectric material	Foam PE
Outer conductor material	Copper foil
Jacket material	Flame retardant polyolefin, Black, Halogen free
Note: Tape may be used around outer conductor	

Dimensions

Nominal size	7/8"
Inner conductor OD.	Ø 9.45 mm
Dielectric OD.	Ø 22.8 mm
Outer conductor OD.	Ø 23.5 mm
Jacket OD.	Ø 27.2 mm

Reference standard

Flame retardant property	IEC 60332-1-2, IEC 60754-1/-2, IEC 61034-2 CPR B2ca-s1a,d0,a1
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Electrical Specification

Impedance	50 ± 2 Ω
Capacitance	75 pF/m
Insulation Resistance	≥5000 MΩx km
Insulation Voltage	10000 V
Jacket Spark Test Voltage	8000 V

Relative Velocity of Propagation	89 %
Peak power	91 kW
Operating Frequency Band	5~1000 MHz
Optimum Operating Frequency Band	300~960MHz
Stop Band	480~520 MHz & 720~780 MHz
VSWR	≤1.3 75MHz to 150MHz
	≤1.3 300MHz to 480MHz
	≤1.3 806MHz to 960MHz

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
	300-960MHz	Vertical

Mechanical Specification

Minimum Bend Radius:	
Single Bend	250 mm
Multiple Bend	500 mm
Bending Moment	14.9 N·m
Minimum Distance to Wall	50 mm
Recommended Hanger Spacing	0.8 m to 1.2m
Tensile Strength	1350 N

Standard Conditions

Attenuation Test Method	IEC 61196-4
Max. Attenuation	Nominal value *105%
Attenuation Ambient Temperature	20 °C
Average power, ambient temperature	40 °C
Average power, inner conductor temperature	100 °C
Max. Coupling Loss	Nominal value +10 dB
Coupling Loss Test Method	IEC 61196-4

Attenuation and Coupling Loss

Frequency (MHz)	Attenuation (dB/100m)	Coupling Loss (2m) 50% (dB)	Coupling Loss (2m) 95% (dB)
75	1.30	55	65
100	1.61	57	61
150	1.90	58	68
200	2.20	61	69
300	2.80	59	63
350	3.01	57	60
400	3.30	54	58
450	3.50	53	57
800	4.69	55	57
900	5.00	53	56
960	5.30	55	58

Marking on cable

PROSE _ PRC50FR-78BG D _ 50Ω _ _ _ _ "B2ca, s1a, d0, a1" _ _ CE _ _ _ _ (DD+MM+SS+YY+NNNNN)_ _ _ _ _ XXXXm
Remark1: Printing Interval: 1m, within $\pm 0.5\%$ accuracy.
Remark2: (DD+MM+SS+YY+NNNNN) means cable code.
Remark3: XXXXm means cable meter.

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