

PRC50FR-158BG N

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: 75~2700 MHz
- CPR B2ca-s1a,d0,a1
- The leaky cable is used in tunnels and subway, etc.
- Indoor application, flame retardant, low smoke, halogen free

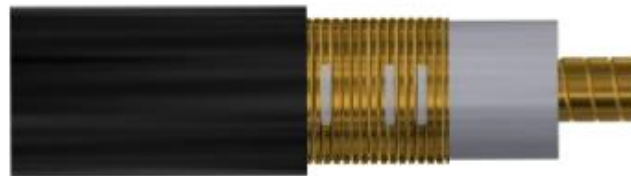


Photo for reference

Material

Inner conductor material	Helical 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	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 CPR B2ca-s1a,d0,a1
--------------------------	--

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	75MHz to 2700 MHz
Optimum Operating Frequency Band	700MHz to 2700MHz
Stop Band	540~570 MHz & 1630~1700 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	Horizontal

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
Approximate cable weight	930 g/m

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	0.60	65	74
100	0.70	65	76
150	0.94	73	85
450	1.50	76	85
500	1.60	77	85
700	1.89	67	71
800	2.11	64	67
900	2.29	64	67
960	2.40	64	66
1700	3.30	64	67
1800	3.59	59	62
1900	3.91	58	61
2000	4.09	58	61
2100	4.30	57	60
2200	4.50	57	61
2400	5.01	56	60
2600	5.59	57	59
2620	5.80	57	60
2700	6.20	58	61

Marking on cable

PROSE _ PRC50FR-158BG N _ 50Ω _ _ _ _ "B2ca, s1a, d0, a1" _ _ CE _ _ _ _ (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.

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.