PFC50E-14A
1/4”R Coaxial Cable

- 1/4” Foam Insulation Coaxial Cable
- Corrugated copper outer conductor
- Black PE jacket
- Recommended operating frequency: 1~4000 MHz
- This product is used for telecommunication system
- Outdoor application, UV resistance, halogen free

Photo for reference

Material

Inner conductor material	Copper Clad Aluminium Wire
Dielectric material	Foam PE
Outer conductor material	Corrugated copper(Annularly)
Jacket material	PE, Black, Halogen free

Dimensions

Nominal size	1/4”
Inner conductor OD.	Ø 2.6 mm
Dielectric OD.	Ø 6.8 mm
Outer conductor OD.	Ø 7.7 mm
Jacket OD.	Ø 9.0 mm

Reference standard

UV Resistance	UL 1581 or IEC 60068-2-5

Electrical Specification

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	85 %
Capacitance	78 pF/m
Inductance	0.195 μH/m
Maximum Operating Frequency	15.0 GHz
Cut-off Frequency	18.6 GHz
Peak Power Rating	11 kW
Insulation Resistance	≥ 10 GΩx km

DC Breakdown Voltage	2000 V
Jacket Spark Test Voltage	5000 Vrms

Environmental Specification

Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
RoHS	Compliant

Standard Conditions

Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temp	100°C

Mechanical Specification

Tensile strength	530 N
Min. bending radius (single)	50 mm
Min. bending radius (repeated)	120 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	2 Nm
Recommended hanger spacing	0.6 m

Return Loss

Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 2700MHz
Return loss(Band C)	≤ -21dB 3300 to 4000MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power(kW)
100	4.80	1.75
200	6.50	1.23
300	8.00	1.00
400	9.00	0.87
450	9.14	0.80
800	12.7	0.59

900	13.3	0.55
1000	14.1	0.54
1800	19.5	0.38
2000	20.6	0.36
2200	21.8	0.34
2500	23.4	0.33
2700	24.7	0.32
3000	26.1	0.30
3500	28.0	0.27
3600	28.6	0.26
3800	29.8	0.25
4000	31.0	0.24
*Maximum attenuation value shall be 105% of the nominal attenuation value.		

Marking on cable

PROSE _ PFC50E-14A _ 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.