

# PRODUCT SPECIFICATION

## 50 Ohm Coaxial Feeder Cable

### RF50Z 1/4" S

#### PRODUCT DESCRIPTION



- The high-performance of attenuation allows coaxial cable to be used in different RF systems, such as 3G, 4G mobile communication.
- Wide range of applications, such as indoor distribution, broadcast, various base stations, wireless cellular, and others.
- Lower VSWR, perfect shielding effectiveness, and extraordinary inter-modulation performance lead to fewer energy loss and outer interference.

#### CONSTRUCTION

Inner conductor	Copper Clad Aluminum	Φ 1.90mm
Insulation	Physically foamed PE	Φ 4.70mm
Outer conductor	Helical corrugated copper	Φ 6.40mm
Jacket	Flame retardant black PE	Φ 7.40mm

#### MECHANICAL PROPERTIES

Min. single bending radius	mm	25
Min. repeated bending radius	mm	30
Max. tensile force	N	680
Recommended maximum clamp spacing	m	1

#### ELECTRICAL PROPERTIES

Impedance	Ω	50±1
Nominal capacitance	pF/m	79.4
Nominal inductance	μH/m	0.20
Propagation velocity	%	82
DC breakdown voltage	kV	1.6
Insulation resistance	MΩ•km	>5000
Peak power rating	kW	6
Cut-off frequency	GHz	20
Screening attenuation	dB	>120
PIM	dBc@(2×20W)	≤-160

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#### TRANSMISSION PROPERTIES

Frequency	Attenuation	Power
MHz	@20°C, dB/100m(dB/100ft)	@20°C, kW
100	5.89(1.80)	1.23
450	12.80(3.90)	0.57
690	16.07(4.90)	0.48
800	17.40(5.30)	0.42
900	18.40(5.61)	0.40
1000	19.60(5.98)	0.37
1800	26.90(8.20)	0.27
2000	28.50(8.69)	0.26
2200	29.98(9.14)	0.24
2400	31.43(9.58)	0.23
2500	32.15(9.80)	0.22
2600	32.86(10.02)	0.22
2700	33.56(10.23)	0.21
3000	35.60(10.85)	0.20

Attenuation values may be with a tolerance of 5%.

#### VSWR

690-960MHz	≤	1.12
1700-2200MHz	≤	1.12
2300-2400MHz	≤	1.12
2500-2690MHz	≤	1.15

#### ENVIRONMENTAL PROPERTIES

Flame retardant	IEC 60332-1, IEC60332-3C, UL CMR
2011/65EU(ROHS)	Compliant

Note: According to customers' requirements, the flame retardant of cable can meet one or all of the standard of IEC 60332-1, IEC60332-3C, UL CMR.