

PRODUCT SPECIFICATION

50 Ohm Coaxial Feeder Cable

RF50Z 7/8" 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	Helical corrugated copper	Φ 9.42mm
Insulation	Physically foamed PE	Φ 22.50mm
Outer conductor	Ring corrugated copper	Φ 24.90mm
Jacket	Flame retardant black PE	Φ 27.10mm

MECHANICAL PROPERTIES

Min. single bending radius	mm	90
Min. repeated bending radius	mm	125
Max. tensile force	N	1020
Recommended maximum clamp spacing	m	1

ELECTRICAL PROPERTIES

Impedance	Ω	50±1
Nominal capacitance	pF/m	74
Nominal inductance	μH/m	0.19
Propagation velocity	%	83
DC breakdown voltage	kV	4
Insulation resistance	MΩ•km	>5000
Peak power rating	kW	90
Cut-off frequency	GHz	4.9
Screening attenuation	dB	>120
PIM	dBc@(2×20W)	≤-160

PRODUCT SPECIFICATION

50 Ohm Coaxial Feeder Cable

RF50Z 7/8"S

TRANSMISSION PROPERTIES

Frequency	Attenuation	Power
MHz	@20°C, dB/100m(dB/100ft)	@20°C, kW
100	1.30(0.40)	6.62
450	2.88(0.88)	2.99
690	3.63(1.11)	2.51
800	3.94(1.20)	2.19
900	4.20(1.28)	2.06
1000	4.46(1.36)	1.94
1800	6.21(1.89)	1.39
2000	6.59(2.01)	1.31
2200	6.97(2.13)	1.25
2400	7.41(2.26)	1.19
2500	7.59(2.31)	1.17
2600	7.68(2.34)	1.14
2700	7.97(2.43)	1.12
3000	8.55(2.60)	1.04

Attenuation values may be with a tolerance of 5%.

VSWR

690~960MHz	1.15
1700~2200MHz	1.15
2300~2400MHz	1.15
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.