

50 Ohm Coaxial Feeder Cable

RF50Z 1/2"(3A0112 D03)

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 4.80mm
Insulation	Physically foamed PE	Φ 12.20mm
Outer conductor	Ring corrugated copper	Φ 13.80mm
Jacket	Fire retardant low smoke zero halogen	Φ 15.70mm

MECHANICAL PROPERTIES

Min. single bending radius	mm	70
Min. repeated bending radius	mm	125
Maximum tensile strength	N	≥1130
Recommended maximum clamp spacing	m	1

ELECTRICAL PROPERTIES

Impedance	Ω	50±2
Nominal capacitance	pF/m	76
Nominal inductance	μH/m	0.19
Propagation velocity	%	86
DC breakdown voltage	kV	4.0
Insulation resistance	MΩ•km	>10000
Peak power rating	kW	40
Cut-off frequency	GHz	8.8
Screening attenuation	dB	>120

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TRANSMISSION PROPERTIES

Frequency MHz	Attenuation @20°C, dB/100m(dB/100ft)	Power @40°C, kW
100	2.17(0.66)	3.49
450	4.75(1.45)	1.59
690	5.97(1.82)	1.34
800	6.46(1.97)	1.17
900	6.85(2.09)	1.10
1000	7.28(2.22)	1.04
1800	10.10(3.08)	0.75
2000	10.70(3.26)	0.71
2200	11.24(3.43)	0.65
2400	11.78(3.59)	0.62
2500	12.06(3.68)	0.61
2600	12.34(3.76)	0.60
2700	12.61(3.84)	0.59
3000	13.40(4.09)	0.57

Attenuation values may be with a tolerance of 5%.

VSWR

380-470MHz	≤	1.12
690-960MHz	≤	1.12
1700-2200MHz	≤	1.12
2300-2400MHz	≤	1.12
2500-2690MHz	≤	1.15

ENVIRONMENTAL PROPERTIES

IEC 60332-3-24	Compliant
IEC 60332-1-2	Compliant
IEC 60754	Compliant
IEC 61034-2	Compliant
2011/65EU(ROHS)	Compliant