

## 50 Ohm Coaxial Feeder Cable

### RF50 1/4"

#### 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 2.60mm
Insulation	Physically foamed PE	Φ 6.35mm
Outer conductor	Ring corrugated copper	Φ 7.75mm
Jacket	Black PE	Φ 8.80mm

#### MECHANICAL PROPERTIES

Min. single bending radius	mm	30
Min. repeated bending radius	mm	76
Max. tensile force	N	910
Recommended maximum clamp spacing	m	1

#### ELECTRICAL PROPERTIES

Impedance	Ω	50±1
Nominal capacitance	pF/m	76.8
Nominal inductance	μH/m	0.19
Propagation velocity	%	84
DC breakdown voltage	kV	2.2
Insulation resistance	MΩ•km	>5000
Peak power rating	kW	12.1
Cut-off frequency	GHz	15.8
Screening attenuation	dB	>120
PIM	dBc@(2×20W)	≤-160

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#### TRANSMISSION PROPERTIES

Frequency MHz	Attenuation @20°C, dB/100m(dB/100ft)	Power @20°C, kW
100	4.05(1.23)	1.79
450	8.88(2.17)	0.82
690	11.17(3.41)	0.69
800	12.10(3.69)	0.60
900	12.80(3.90)	0.57
1000	13.60(4.15)	0.53
1800	18.90(5.76)	0.38
2000	20.00(6.10)	0.36
2200	21.08(6.43)	0.34
2400	22.14(6.75)	0.33
2500	22.66(6.91)	0.32
2600	23.19(7.07)	0.31
2700	23.70(7.23)	0.30
3000	25.17(7.67)	0.29

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

Storage, °C	-55~+80
Installation, °C	-40~+60
Operation, °C	-55~+80
2011/65EU(ROHS)	compliant