

# PRODUCT SPECIFICATION

## 50 Ohm Coaxial Feeder Cable

### RF50 3/8"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	Copper Clad Aluminum	Φ 2.80mm
Insulation	Physically foamed PE	Φ 7.00mm
Outer conductor	Helical corrugated copper	Φ 9.52mm
Jacket	Black PE	Φ 10.80mm

#### MECHANICAL PROPERTIES

Min. single bending radius	mm	25
Min. repeated bending radius	mm	50
Max. tensile force	N	950
Recommended maximum clamp spacing	m	1

#### ELECTRICAL PROPERTIES

Impedance	Ω	50±1
Nominal capacitance	pF/m	82
Nominal inductance	μH/m	0.21
Propagation velocity	%	81
DC breakdown voltage	kV	2.5
Insulation resistance	MΩ•km	>5000
Peak power rating	kW	13.2
Cut-off frequency	GHz	10.2
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	3.94(1.20)	2.14
450	8.66(2.64)	0.98
690	10.89(3.32)	0.82
800	11.80(3.60)	0.72
900	12.50(3.81)	0.67
1000	13.30(3.75)	0.63
1800	18.50(5.64)	0.46
2000	19.60(5.98)	0.43
2200	20.68(5.78)	0.41
2400	21.72(6.62)	0.39
2500	22.24(6.78)	0.38
2600	22.74(6.93)	0.37
2700	23.00(7.01)	0.36
3000	24.70(7.53)	0.34

Attenuation values may be with a tolerance of 5%.

#### VSWR

690~960MHz	≤	1.13
1700~2200MHz	≤	1.13
2300~2400MHz	≤	1.13
2500~2690MHz	≤	1.15

#### ENVIRONMENTAL PROPERTIES

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