

# PRODUCT SPECIFICATION

## 50 Ohm Coaxial Feeder Cable

### RF50Z 7/8"(3A0116 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 tube	Φ 8.85mm
Insulation	Physically foamed PE	Φ 22.50mm
Outer conductor	Ring corrugated copper	Φ 24.90mm
Jacket	Fire retardant low smoke zero halogen	Φ 27.10mm

#### MECHANICAL PROPERTIES

Min. single bending radius	mm	120
Min. repeated bending radius	mm	250
Max. tensile force	N	1470
Recommended maximum clamp spacing	m	1

#### ELECTRICAL PROPERTIES

Impedance	Ω	50±2
Nominal capacitance	pF/m	75
Nominal inductance	μH/m	0.19
Propagation velocity	%	86
DC breakdown voltage	kV	6
Insulation resistance	MΩ•km	>5000
Peak power rating	kW	91
Cut-off frequency	GHz	5.5
Screening attenuation	dB	>120

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#### TRANSMISSION PROPERTIES

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Frequency MHz	Attenuation @20°C, dB/100m(dB/100ft)	Power @40°C, kW
100	1.19(0.36)	7.56
450	2.65(0.81)	3.41
690	3.35(1.02)	2.85
800	3.63(1.11)	2.48
900	3.88(1.18)	2.33
1000	4.12(1.26)	2.19
1800	5.75(1.75)	1.57
2000	6.11(1.86)	1.48
2200	6.45(1.97)	1.41
2400	6.79(2.07)	1.34
2500	6.95(2.12)	1.30
2600	7.12(2.17)	1.27
2700	7.28(2.22)	1.25
3000	7.76(2.37)	1.16

Attenuation values may be with a tolerance of 5%.

#### VSWR

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380-470MHz	1.12
800~1000MHz	1.12
1700~2200MHz	1.12
2300~2400MHz	1.12
2500~2700MHz	1.15

#### ENVIRONMENTAL PROPERTIES

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