ABS Coaxial Cable Product

Type : RF50 1/2

Series 50 Ohm Coaxial Feeder Cable

- The high-performance of attenuation allows coaxial cable to be used in different RF system.
- 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.

Cable Ordering Information

Part Number	Description	NEC / CSA Listing
TURF5012A0	RF50 1/2	none

Characteristics

Material	Detail	inches	mm
Inner Conductor	Copper Clad Aluminum	0.1890	4.80 ± 0.05
Dielectric	Foamed Polyethylene	0.4803	12.20 ±0.20
Outer Conductor	Ring Corrugated Copper Tube	0.539	13.70 ± 0.20
Jacket	PE, Black	0.606	15.40 ± 0.20

Mechanical Specifications			
Minimum Bend Radius	(Single)	2.76 in	70.0 mm
	(Repeated)	4.92 in	125.0 mm
Minimum Tensile Force		1130 N	
Recommended maximum clamp spacing		1 m	
Operating temperature	(Storage)	-55 ℃ ~ + 85 ℃	
	(Installation)	-40 ℃ ~ + 60 ℃	
	(Operating)	-55 ℃ ~ + 85 ℃	
2011/65/EU (RoHS)		Compliant	

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Electrical Specifications		
Cut-off Frequency		8.8 GHz
Impedance		50 ± 3 Ω
Velocity of Propagation, Nominal		86 %
Dielectric Resistance, Minimum		5000 MΩ-km
Peak Power Rating		40 kW
DC Breakdown Voltage		4000 V
Capacitance, Nominal		76.0 pF/m
Inducitance, Nominal		0.19 uH/m
VSWR, Maximum	690 ~ 960 MHz	1.13
	1700 ~ 2200 MHz	1.15
	2300 ~ 2400 MHz	1.15
	2500 ~ 2690 MHz	1.15
	3300 ~ 3800 MHz	1.25
	4800 ~ 5000 MHz	1.30
	5150 ~ 5825 MHz	1.35

Attenuation @ 68 °F (20 °C)			Power @ 40°C
Frequency, MHz	dB / 100 ft	dB / 100 m	Kw
100	0.66	2.17	3.49
450	1.45	4.75	1.59
690	1.82	5.97	1.34
800	1.97	6.46	1.17
900	2.09	6.85	1.10
1000	2.22	7.28	1.04
1800	3.08	10.10	0.75
2000	3.26	10.70	0.71
2200	3.43	11.24	0.65
2400	3.59	11.78	0.62
2500	3.68	12.06	0.61
2600	3.76	12.34	0.60
2700	3.84	12.61	0.59
3000	4.08	13.40	0.57
3400	4.39	14.40	0.53
3500	5.07	16.64	0.52
3800	4.68	15.36	0.50
4000	4.82	15.80	0.48
5000	5.49	18.00	0.42
6000	6.13	20.10	0.38

Attenuation increase with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F(0.18% / ℃)

The attenuation value allows for a deviation of 5%

Customers are reminded that they are SOLELY responsible for confirming that all products are properly installed and used in accordance with all applicable codes and regulations.

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