

1/2" RF Coaxial Cable NO.7101106

Construction Parameters:

Inner Conductor		4.80±0.05mm Copper Clad Aluminum Wire
Insulation		12.30±0.20mm Foamed PE
Outer Conductor		13.80±0.15mm Annular Corrugated Copper Tube
Jacket		15.70±0.20mm PE or LSZH
ZION'S SKU		Short Description
SKU	7101106-PEBK-500M	1/2" RF Coax Cable PE Black Jacket (CPR Fca) 500M
	7101106-OEBK-500M	1/2" RF Coax Cable LSZH Black Jacket (CPR Eca) 500M
	7101106-OB2BK-500M	1/2" RF Coax Cable LSZH Black Jacket (CPR B2ca-s1b,d0,a1) 500M
	7101106-xxxx-xxXM	xxxx-xxXM will be named by Test inquired and Packing Length.
Marking on Cable Jacket		ZION 1/2" RF COAXIAL CABLE 7101106-xxxx-xxXM

Electrical Characteristics:

Capacitance	76 pF/m
Impedance	50 ±1 Ω
Velocity of Propagation	87%
Peak Power Rating	40 KW
Max. Operating Frequency	8.8 GHz
Insulation Resistance	>10000 MΩ.km
DC Breakdown Voltage	6000 V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC Resistance	≤ 1.62 Ω/km
Outer Conductor DC Resistance	≥ 4.30 Ω/km
Shielding Attenuation	≥ 120dB
VSWR	
30MHz-2700MHz	≤ 1.15
3300MHz-4200MHz	≤ 1.15
4400MHz-5000MHz	≤ 1.20
PIM	
Intermodulation (3rd order,2*20W)	≤ - 160 dBc



RF Feeder Coaxial Cable



Mechanical Properties:

Bending Radius (Single Bend)	50 mm
Bending Radius (Repeated Bend)	125 mm
Bending moment	6.5 Nm
Flat plate crush strength	8 N/mm
Tensile Strength	1050 N

Environmental Specifications:

	PE Jacket	LSZH Jacket
Installation Temperature	-40°C to +60 °C	-20°C to +60 °C
Operating Temperature	-55°C to +85 °C	-30°C to +80 °C
Storage Temperature	-70°C to +85 °C	-30°C to +80 °C

Attenuation(20°C):

Frequency (MHZ)	Attenuation (dB/100m)	Average Power (KW)
200	3.08	2.41
450	4.71	1.57
800	6.39	1.16
900	6.80	1.09
1800	9.91	0.75
2000	10.50	0.70
2200	11.10	0.67
2500	11.90	0.62
2700	12.40	0.59
3000	13.41	0.56
3500	14.70	0.51
4000	15.85	0.47
5000	18.20	0.42

※ Maximum attenuation value shall be 105% (some will be 110%) of above nominal attenuation value.

Regular Compliance/Standards/Certifications:

Fire Resistant	IEC 60754-1,-2; IEC 60332-1,-2; IEC 61034-1,-2; IEC 60332-3-24
RoHS	Compliant RoHS 2011/65/EU
REACH	Compliant
CPR	CPR EURO Level: Fca, Eca, B2ca-s1b,d0,a1

Packing

Packing Length	500M (Standard)
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