

1/4" Super Flexible RF Coaxial Cable NO.7101101

Construction Parameters:

Inner Conductor		1.90±0.03mm Copper Clad Aluminum Wire
Insulation		4.85±0.15mm Foamed PE
Outer Conductor		6.40±0.15mm Helical Corrugated Copper Tube
Jacket		7.50±0.20mm PE or LSZH
ZION'S SKU		Short Description
SKU	7101101-PEBK-500M	1/4" Super Flexible RF Coax Cable PE Black Jacket (CPR Fca) 500M
	7101101-OEBK-500M	1/4" Super Flexible RF Coax Cable LSZH Black Jacket (CPR Eca) 500M
	7101101-xxxx-xxxM	xxxx-xxxM will be named by Test inquired and Packing Length.
Marking on Cable Jacket		ZION 1/4" Super Flexible RF COAXIAL CABLE 7101101-xxxx-xxxM

Electrical Characteristics:

Capacitance	78 pF/m
Impedance	50 ±1 Ω
Velocity of Propagation	85%
Peak Power Rating	7.5 KW
Max. Operating Frequency	19 GHz
Insulation Resistance	>10000 MΩ.km
DC Breakdown Voltage	2000 V
Jacket Spark Test Voltage	3000 Vrms
Inner Conductor DC Resistance	≤ 10.20 Ω/km
Outer Conductor DC Resistance	≤ 7.45 Ω/km
Shielding Attenuation	≥120dB
VSWR	
30MHz-2700MHz	≤ 1.15
3300MHz-4200MHz	≤ 1.15
4400MHz-5000MHz	≤ 1.20
5000MHz-6000MHz	≤ 1.30
PIM	
Intermodulation (3rd order,2*20W)	≤ - 158 dBc



RF 50ohms Coaxial Cable



Mechanical Properties:

Bending Radius (Single Bend)	15 mm
Bending Radius (Repeated Bend)	25 mm
Bending moment	0.7 Nm
Flat plate crush strength	18 N/mm
Tensile Strength	600 N

Enviromental 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	8.33	0.79
450	12.70	0.52
800	17.30	0.38
900	18.40	0.36
1800	26.90	0.25
2000	28.50	0.23
2200	30.10	0.22
2400	31.60	0.21
2500	32.40	0.21
2700	33.60	0.20
3400	38.40	0.17
4000	42.20	0.16
5000	48.00	0.14
6000	53.40	0.12

※ 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

Packing

Packing Length	500M (Standard)
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