

3/8" Super Flexible RF Coaxial Cable NO.7101103

Construction Parameters:

Inner Conductor		2.60±0.03mm Copper Clad Aluminum Wire
Insulation		7.00±0.20mm Foamed PE
Outer Conductor		9.00±0.15mm Helical Corrugated Copper Tube
Jacket		10.30±0.20mm PE or LSZH
ZION'S SKU		Short Description
SKU	7101103-PEBK-500M	3/8" Super Flexible RF Coax Cable PE Black Jacket (CPR Fca) 500M
	7101103-OEBK-500M	3/8" Super Flexible RF Coax Cable LSZH Black Jacket (CPR Eca) 500M
	7101103-xxxx-xxxM	xxxx-xxxM will be named by Test inquired and Packing Length.
Marking on Cable Jacket		ZION 3/8" Super Flexible RF COAXIAL CABLE 7101103-xxxx-xxxM

Electrical Characteristics:

Capacitance	83 pF/m
Impedance	50 ±1 Ω
Velocity of Propagation	81%
Peak Power Rating	12 KW
Max. Operating Frequency	13.4 GHz
Insulation Resistance	>10000 MΩ.km
DC Breakdown Voltage	2500 V
Jacket Spark Test Voltage	3000 Vrms
Inner Conductor DC Resistance	≤ 5.52 Ω/km
Outer Conductor DC Resistance	≤ 7.30 Ω/km
Shielding Attenuation	≥120dB
VSWR	
30MHz-2700MHz	≤ 1.15
3300MHz-4200MHz	≤ 1.20
4400MHz-5000MHz	≤ 1.25
5000MHz-6000MHz	≤ 1.35
PIM	
Intermodulation (3rd order,2*20W)	≤ - 158 dBc



RF 50ohms Coaxial Cable



Mechanical Properties:

Bending Radius (Single Bend)	25 mm
Bending Radius (Repeated Bend)	32 mm
Bending moment	1.4 Nm
Flat plate crush strength	15 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	6.03	1.31
450	9.22	0.86
800	12.50	0.63
900	13.30	0.59
1800	19.40	0.41
2000	20.60	0.38
2200	21.70	0.36
2500	23.80	0.35
2700	24.00	0.33
3000	25.80	0.31
3400	27.70	0.28
4000	30.40	0.26
5000	38.31	0.23
6000	43.90	0.21

※ 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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