

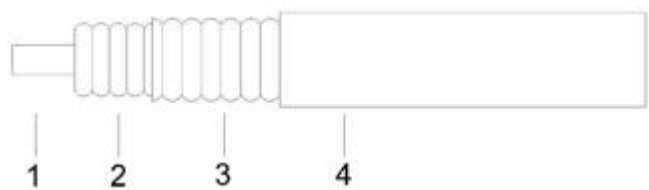
Corrugated Cable

1/2" Corrugated Coax Cable

2014-11-13 09:47 Clicks:

1/2'' Flexible Corrugated Coax Cable

BJDZ P/N: RFC1/2



Construction Specification		
Item	Material	Diameter (mm)
1. Inner Conductor	Copper Clad Aluminum Wire	4.8
2. Dielectric	Physical Foam Polyethylene	12.3
3. Outer Conductor	Corrugated Copper Tube	13.8
4. Jacket	Black PE	15.7

Electrical Characteristics		
Capacitance (pF/M)		76
Impedance (Ohm)		50
Velocity of Propagation (%)		88
Peak Power Rating (KW)		40
RF Peak Voltage (KV)		1.6
Insulation Resistance (MΩ.km)		>5000
Cut-off Frequency (GHz)		8.8
Insulation Voltage (KV)		6
Inner Conductor DC Resistance (Ω/km)		1.48
Outer Conductor DC Resistance (Ω/km)		1.90

Jacket Spark (KV)		8.0
Shielding Effectiveness (dB)		>120
VSWR $\leq$ (Return loss $\geq$ dB)		
0.005–3GHz		1.15 (23)
0.8–1.0GHz		1.10 (26)
1.7–2.0GHz		1.10 (26)
2.0–2.4GHz		1.10 (26)

Mechanical and Environmental Characteristics

Min. Single Bending Radius (mm)		50
Min. Repeated Bending Radius (mm)		125
No. of Bends		15
Mobile Apply (mm)		350
Bending Moment (N.m)		5.0
Tensile Strength (kg)		110
Storage Temp (°C)		–55 to +85
Installation Temp (°C)		–40 to +60
Operating Temp (°C)		–55 to +85

Attenuation (VSWR1.0, cable temp. 20°C) & Average Power (VSWR 1.0, ambient temp. 40°C)

Frequency (MHz)	Attenuation ($\geq$ dB/100m)	Average Power (KW)
100	2.15	3.94
200	3.08	2.75
450	4.70	1.80
800	6.35	1.33
900	6.75	1.25
1000	7.20	1.18
1500	9.05	0.95
1800	9.90	0.86
2000	10.50	0.81
2200	11.10	0.77
2400	11.60	0.75
2500	11.95	0.73
3000	13.20	0.65