

1-1/4" Super Flexible Helical Corrugated Coax Cable

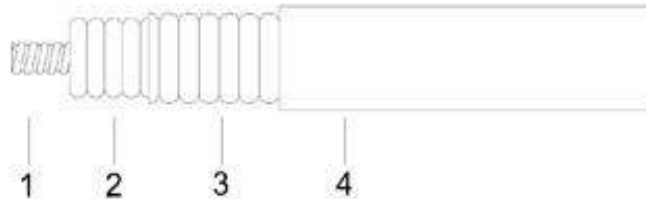
HRCTY(Z)-50-33(1-1/4" S)

► Overview

50 ohm RF cable with foam degree of about 80% of the ultra-high foam polyethylene, low attenuation, the temperature coefficient is small, the temperature changes have a good stability. It is mainly used as a low loss, low VSWR signal transmission line in wireless base stations such as mobile communication, antenna feeder, microwave transmission, broadcasting communication and other systems base stations, and the connection between receiver and antenna or other high frequency fields.



► Construction



Item	Material	Diameter (mm)
1.Inner conductor	Helical Copper Tube	13.5
2.Dielectric	Physical Foam Polyethylene	33.0
3.Outer conductor	Helical Copper Tube	36.0
4.Jacket	Black PE	38.6

► Electrical Characteristics

1.Capacitance (pF/m)	76
2.Impedance (Ω)	50
3.Velocity (%)	88
4.Peak Power Rating (kW)	178
5.RF Peak Voltage (kV)	4.2
6.Insulation Resistance (M Ω .km)	>5000
7.Cut-off Frequency (GHz)	3.4
8.Insulation Voltage (kVrms)	10
9.Jacket Spark (kVrms)	10
10.Sheilding Effectiveness (dB)	>120

► **Mechanical and Environmental Characteristics**

Min. Single Bending Radius (mm)	150
Min. Repeated Bending Radius (mm)	300
No. of Bends	15
Mobile Apply (mm)	700
Bending Moment (N.m)	38
Tensile Strength (kg)	290
Storage Temp (°C)	-55 to +85
Installation Temp (°C)	-40 to +60
Operating Temp (°C)	-55 to +85
VSWR≤(Return loss≥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)

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

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kW)
100	0.88	12.00
200	1.28	8.26
450	2.00	5.29
800	2.80	3.81
900	2.95	3.56
1000	3.15	3.35
1500	4.00	2.64
1800	4.50	2.36
2000	4.75	2.21
2200	5.05	2.09
2400	5.35	1.96
2500	5.50	1.90
3000	6.15	1.72