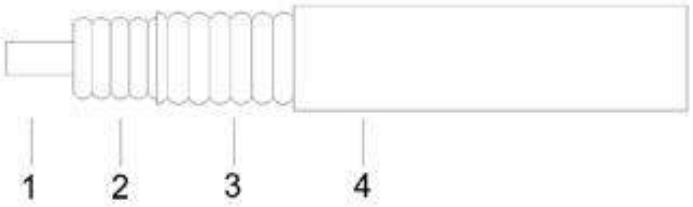
1-5/8" Flexible Annular Corrugated Coax Cable

HHTAY(Z)-50-42(1-5/8")

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 Corrugated Copper Tube	17.30±0.2
2.Dielectric	Physical Foam Polyethylene	42.50±0.2
3.Outer conductor	Annular Corrugated Copper Tube	46.50±0.2
4.Jacket	Black PE	49.50±0.2

Electrical Characteristics

1.Capacitance（pF/m）	76
2.Impedance（Ω）	50
3.Velocity（%）	88
4.Peak Power Rating（kW）	320
5.RF Peak Voltage（kV）	5.7
6.Insulation Resistance（MΩ.km）	>5000
7.Cut-off Frequency（GHz）	2.8
8.Insulation Voltage（kVrms）	15
9.Jacket Spark（kVrms）	10
10.Sheilding Effectiveness（dB）	>120

Mechanical and Environmental Characteristics

Min. Single Bending Radius (mm)	200
Min. Repeated Bending Radius (mm)	510
No. of Bends	15
Mobile Apply (mm)	330
Storage Temp (℃)	-55 to +85
Installation Temp (℃)	-40 to +60
Operating Temp (℃)	-55 to +85
VSWR≤(Return loss≥dB)	
10M~3000MHz	1.20
800M~1000MHz	1.10
1700M~2000MHz	1.10
2100M~2400MHz	1.10

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

Frequency（MHz）	Attenuation（dB/100m）	Average Power（kW）
100	0.70	17.00
200	1.03	11.00
450	1.61	6.97
800	2.23	4.89
900	2.39	4.53
1000	2.54	4.24
1500	3.24	3.25
1800	3.62	2.88
2000	3.86	2.69
2200	4.11	2.47
2400	4.34	2.35
2500	4.45	2.32
2700	4.67	2.10