

HRCAY(Z)-50-5 1/4 Superflexible Cable



Construction Characteristic

Item	Material	Diameter(mm)
1. Inner Conductor	Copper Clad Aluminum	1.90
2. Dielectric	Physical Foam Polyethylene	4.75
3. Outer Conductor	Helical Copper Tube	6.35
4. Jacket	PE or Low Smoke Halogen Free Fire Retardant PE	7.50

Electrical Characteristic

Capacitance(pF/m)	80
Impedance(ohm)	50
Velocity of Propagation(%)	83
Peak Power(KW)	6.4
RF Peak Voltage(KV)	0.80
Insulation Resistance(MΩ.km)	>5000
Cutoff Frequency(GHz)	20.4
Insulation Voltage(KVrms)	2.0
Inner Conductor DC Resistance(Ω/km)	10.2/6.4
Outer Conductor DC Resistance(Ω/km)	7.02
Jacket Spark(KVrms)	3.0
Shielding Effectiveness(dB)	>120

Mechanical and Environmental Characteristic

Min Single Bending Radius(mm)	12.5
Min Repeated Bending Radius(mm)	25
No.of Bends	15
Tensile Strength(kg)	60
Storage Temp.(℃)	-55 to +85
Installation Temp.(℃)	-20 to +60
Operating Temp.(℃)	-55 to +85

Attenuation(VSWR1.0,Cable temp.20℃)and Average Power(VSWR1.0,ambient temp.40℃)

Frequency(MHz)	Attenuation(dB/100m)	Average Power(KW)
100	5.60	1.23
200	8.00	0.86
450	12.20	0.57
800	16.70	0.42
900	17.50	0.39
1000	18.60	0.37
1500	23.40	0.30
1800	25.70	0.27
2000	26.90	0.26
2200	28.50	0.25
2400	30.00	0.24
2500	30.60	0.23
3000	33.50	0.21
4000	38.90	0.17
5000	44.10	0.15