

HRCAY(Z)-50-7 3/8 Superflexible Cable



Construction Characteristic

Item	Material	Diameter(mm)
1. Inner Conductor	Copper Clad Aluminum or Copper	2.6
2. Dielectric	Physical Foam Polyethylene	6.7
3. Outer Conductor	Helical Copper Tube	9.1
4. Jacket	PE or Low Smoke Halogen Free Fire Retardant PE	10.2

Electrical Characteristic

Capacitance(pF/m)	80
Impedance(ohm)	50
Velocity of Propagation(%)	83
Peak Power(KW)	12
RF Peak Voltage(KV)	1.04
Insulation Resistance(MΩ.km)	>5000
Cutoff Frequency(GHz)	13.4
Insulation Voltage(KVrms)	2.5
Inner Conductor DC Resistance(Ω/km)	5.4/3.4
Outer Conductor DC Resistance(Ω/km)	3.5
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	4.18	1.90
200	5.96	1.30
450	9.14	0.87
800	12.32	0.64
900	13.15	0.60
1000	13.85	0.57
1500	17.35	0.45
1800	19.20	0.41
2000	20.30	0.39
2200	21.40	0.37
2400	22.50	0.36
2500	23.00	0.35
3000	25.20	0.31