

HRCAY(Z)-50-9 1/2 Superflexible Cable



Construction Characteristic

Item	Material	Diameter(mm)
1. Inner Conductor	Copper Clad Aluminum	3.60
2. Dielectric	Physical Foam Polyethylene	9.20
3. Outer Conductor	Helical Copper Tube	12.00
4. Jacket	PE or Low Smoke Halogen Free Fire Retardant PE	13.60

Electrical Characteristic

Capacitance(pF/m)	80
Impedance(ohm)	50
Velocity of Propagation(%)	83
Peak Power(KW)	19
RF Peak Voltage(KV)	1.13
Insulation Resistance(MΩ.km)	>5000
Cutoff Frequency(GHz)	12.5
Insulation Voltage(KVrms)	2.5
Jacket Spark(KVrms)	5.0
Shielding Effectiveness(dB)	>120

Mechanical and Environmental Characteristic

Min Single Bending Radius(mm)	50
Min Repeated Bending Radius(mm)	125
No.of Bends	15
Tensile Strength(kg)	110
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	3.31	3.03
200	4.84	2.11
450	7.20	1.37
800	10.20	1.00
900	10.70	0.94
1000	11.30	0.88
1500	14.20	0.70
1800	15.60	0.63
2000	16.20	0.59
2200	17.30	0.56
2400	18.20	0.53
2500	18.60	0.52
3000	21.00	0.48
4000	26.70	0.41
5000	30.70	0.36
6000	34.50	0.29