

HCAAY(Z)-50-8 3/8 Corrugated Coaxial Cable



Construction Characteristic

Item	Material	Diameter(mm)
1. Inner Conductor	Copper Clad Aluminum	3.3
2. Dielectric	Physical Foam Polyethylene	8.3
3. Outer Conductor	Corrugated Copper Tube	9.6
4. Jacket	PE or Low Smoke Halogen Free Fire Retardant PE	11.2

Electrical Characteristic

Capacitance(pF/m)	76
Impedance(ohm)	50
Velocity of Propagation(%)	88
Peak Power(KW)	15.6
RF Peak Voltage(KV)	1.05
Insulation Resistance(MΩ.km)	>5000
Cutoff Frequency(GHz)	13.5
Insulation Voltage(KVrms)	2.5
Inner Conductor DC Resistance(Ω/km)	3.2
Outer Conductor DC Resistance(Ω/km)	3.1
Jacket Spark(KVrms)	5.0
Shielding Effectiveness(dB)	>120

Mechanical and Environmental Characteristic

Min Single Bending Radius(mm)	40
Min Repeated Bending Radius(mm)	95
No.of Bends	15
Tensile Strength(kg)	53
Storage Temp.(°C)	-55 to +85
Installation Temp.(°C)	-20 to +60
Operating Temp.(°C)	-55 to +85

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

Frequency(MHz)	Attenuation(dB/100m)	Average Power(KW)
100	3.12	2.23
200	4.45	1.56
450	6.79	1.02
800	9.20	0.75
900	9.80	0.71
1000	10.37	0.67
1500	12.90	0.53
1800	14.25	0.48
2000	15.10	0.46
2200	15.90	0.43
2400	16.70	0.42
2500	17.08	0.41
3000	18.90	0.37