General

LCF14HR(Z)

LCF14HR(Z), Silexflex ® RF **Superflex** Low Density Foam Coaxial Cable 1/4", corrugated copper, 1/4 in, Black PE or Low Smoke Halogen-free Fire-retardant (Z).
Type HCAAY (Z)-50-5

Construction Materials

Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

Physical Dimensions

Inner Conductor Diameter	1.90 mm
Dielectric Diameter	4.75 mm
Outer Conductor Diameter	6.35 mm
Diameter Over Jacket	7.50 mm

Mechanical Specifications

Minimum Bending Radius	
Single Bending	12.5 mm
Repeated Bending	25.0 mm
Minimum Number of Bends	15
Tensile Strength	600 N (132 lb)

Electrical Specifications

Capacitance	80.0 pF/m (24.4 pF/ft)
Impedance	50 ± 1 Ω
Velocity	83%
RF Peak Voltage	0.80 kV
Peak Power Rating	6.40 kW
Cut-o" Frequency	20.40 GHz
Shielding E"ectiveness>10MHz	>120 dB
Insulation resistance	5000M Ω-Km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.2 GHz	≤1.10
2.2~2.7 GHz	≤1.13

Environmental Specifications

Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operation Temperature	-55 °C ~ +85 °C

Perforance - Attenuation

Frequency	Attenuation	Attenuation	Average
MHz	dB/100 m	dB/100 ft	Power Rating (kW)
100	5,60	1,71	1,23
150	7,25	2,21	0,95
200	8,00	2,44	0,86
280	10,20	3,11	0,67
450	12,20	3,72	0,57
800	16,70	5,09	0,42
900	17,50	5,33	0,39
1000	18,60	5,67	0,37
1500	23,40	7,13	0,30
1800	25,70	7,83	0,27
2000	26,90	8,20	0,26
2200	28,50	8,69	0,25
2400	30,00	9,14	0,24
2500	30,60	9,33	0,23
3000	33,50	10,21	0,21

Standard Conditions

For Attenuation: VSWR 1.0, Cable temperature 20 °C (68 °F)
For Average Power: VSWR 1.0, Ambient temperature 40 °C (104 °F)
Inner Conductor temperature 100 °C (212 °F). No solar loading.
Maximum attenuation value shall be 105% of the nominal attenuation value.