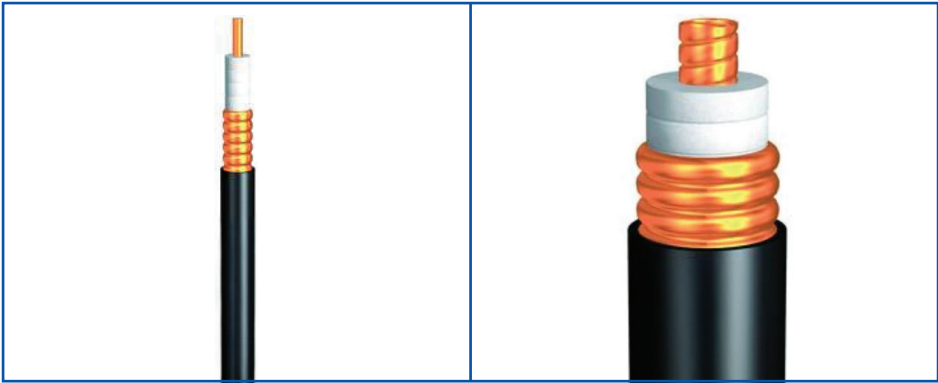




1 1/4" Low Loss RF Cable

Product Code TCX-HX-LCF114

Product Category Coaxial Cable

Construction Materials

Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE

Physical Dimensions

Inner Conductor Diameter	13.00mm
Dielectric Diameter	33.50mm
Outer Conductor Diameter	35.80mm
Diameter Over Jacket	38.60mm

Electrical Specifications

Capacitance	75.0 pF/m
Impedance	50±1 Ω
Velocity	90%
RF Peak Voltage	4.30 kV
Peak Power Rating	205 kW
Cut-off Frequency	3.60 GHz
Shielding Effectiveness >10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
Return loss(dB)	680~2700 MHz ≤-26
	2700~3800 MHz ≤-24

Mechanical Specifications

Minimum Bending Radius	
Single Bending	150mm
Repeated Bending	380mm
Minimum Number of Bends	15
Tensile Strength	2000 N

Environmental Specifications

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

Performance

Frequency	Attenuation		Average Power
MHz	dB/100 m	dB/100 ft	Rating (kW)
100	0.83	0.25	12.52
150	1.03	0.31	10.09
200	1.20	0.37	8.67
280	1.43	0.44	7.28
450	1.85	0.56	5.63
700	2.35	0.72	4.43
800	2.53	0.77	4.12
900	2.70	0.82	3.86
1000	2.87	0.87	3.63
1500	3.61	1.10	2.88
1800	4.00	1.22	2.59
2000	4.26	1.30	2.43
2100	4.38	1.34	2.36
2200	4.50	1.37	2.30
2300	4.62	1.41	2.24
2400	4.73	1.44	2.19
2500	4.85	1.48	2.14
2600	4.96	1.51	2.10
3000	5.40	1.65	1.92
3400	5.84	1.78	1.78
3500	5.93	1.81	1.75
3700	6.15	1.87	1.69

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% off the nominal attenuation value.

The facts and figures contained herein are carefully complied to the best of our knowledge, but they are intended for general informational purposes only.