

LSF2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket (Not for Individual Sale - Jumpers only)

Product Classification

Product Type Coaxial wireless cable

Product Brand HELIAX® | SureFlex®

Product Series LSF2-50 | MLOC

Ordering Note ANDREW® standard product (Global)

General Specifications

Flexibility Superflexible

Jacket Color Black

Performance NoteAttenuation values typical, guaranteed within 5%

Dimensions

 Diameter Over Dielectric
 7.645 mm | 0.301 in

 Diameter Over Jacket
 11.024 mm | 0.434 in

 Inner Conductor OD
 3.048 mm | 0.12 in

 Outer Conductor OD
 9.906 mm | 0.39 in

Nominal Size 3/8 in

Electrical Specifications

Cable Impedance 50 ohm ±1 ohm

Capacitance 80.7 pF/m | 24.597 pF/ft

dc Resistance, Inner Conductor3.65 ohms/km | 1.113 ohms/kftdc Resistance, Outer Conductor4.64 ohms/km | 1.414 ohms/kft

dc Test Voltage 2500 V

Inductance $0.202 \, \mu H/m \, \mid \, 0.062 \, \mu H/ft$

Insulation Resistance 100000 MOhms-km

Jacket Spark Test Voltage (rms) 5000 V

Operating Frequency Band 1 – 10200 MHz

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 Peak Power
 15.6 kW

 Velocity
 82 %

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680-800 MHz	1.201	20.79
800-960 MHz	1.201	20.79
1700-2200 MHz	1.201	20.79
2300-2700 MHz	1.201	20.79
3400-3800 MHz	1.201	20.79

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.422	0.129	15.6
1.5	0.501	0.153	15.6
2.0	0.567	0.173	14.27
10.0	1.179	0.359	6.86
20.0	1.641	0.5	4.93
30.0	1.998	0.609	4.05
50.0	2.567	0.782	3.15
85.0	3.342	1.019	2.42
88.0	3.4	1.036	2.38
100.0	3.625	1.105	2.23
108.0	3.768	1.148	2.15
150.0	4.447	1.355	1.82
174.0	4.795	1.461	1.69
200.0	5.147	1.569	1.57
204.0	5.199	1.585	1.56
300.0	6.336	1.931	1.28
400.0	7.351	2.241	1.1
450.0	7.815	2.382	1.03
460.0	7.905	2.409	1.02
500.0	8.257	2.517	0.98
512.0	8.36	2.548	0.97
600.0	9.084	2.769	0.89

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700.0	9.851	3.003	0.82
800.0	10.572	3.222	0.77
824.0	10.739	3.273	0.75
894.0	11.214	3.418	0.72
960.0	11.648	3.55	0.69
1000.0	11.904	3.628	0.68
1218.0	13.231	4.033	0.61
1250.0	13.417	4.089	0.6
1500.0	14.806	4.512	0.55
1700.0	15.848	4.83	0.51
1794.0	16.32	4.974	0.5
1800.0	16.35	4.983	0.49
2000.0	17.321	5.279	0.47
2100.0	17.791	5.423	0.45
2200.0	18.253	5.563	0.44
2300.0	18.706	5.701	0.43
2500.0	19.589	5.97	0.41
2700.0	20.445	6.231	0.4
3000.0	21.682	6.608	0.37
3400.0	23.26	7.089	0.35
3600.0	24.022	7.321	0.34
3700.0	24.396	7.436	0.33
3800.0	24.767	7.549	0.33
3900.0	25.134	7.661	0.32
4000.0	25.498	7.771	0.32
4100.0	25.858	7.881	0.31
4200.0	26.215	7.99	0.31
4300.0	26.569	8.098	0.3
4400.0	26.92	8.205	0.3
4500.0	27.267	8.311	0.3
4600.0	27.612	8.416	0.29
4700.0	27.954	8.52	0.29
4800.0	28.294	8.623	0.29
4900.0	28.63	8.726	0.28
5000.0	28.965	8.828	0.28

6000.0	32.183	9.809	0.25
8000.0	38.096	11.611	0.21
8800.0	40.314	12.287	0.2
10000.0	43.516	13.263	0.19

Material Specifications

Dielectric Material Foam PE

Jacket Material PE

Inner Conductor Material Copper-clad aluminum wire

Outer Conductor Material Corrugated copper

Mechanical Specifications

Minimum Bend Radius, multiple Bends25.4 mm | 1 inMinimum Bend Radius, single Bend25.4 mm | 1 in

Number of Bends, minimum 15

 Tensile Strength
 118 kg | 260.145 lb

 Bending Moment
 2.2 N-m | 19.472 in lb

 Flat Plate Crush Strength
 2 kg/mm | 111.995 lb/in

Environmental Specifications

Installation temperature $-40 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ ($-40 \,^{\circ}\text{F}$ to $+140 \,^{\circ}\text{F}$)

Operating Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ ($-67 \,^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Storage Temperature $-70 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ ($-94 \,^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Attenuation, Ambient Temperature $68 \, ^{\circ}\text{F} \mid 20 \, ^{\circ}\text{C}$ Average Power, Ambient Temperature $104 \, ^{\circ}\text{F} \mid 40 \, ^{\circ}\text{C}$ Average Power, Inner Conductor Temperature $212 \, ^{\circ}\text{F} \mid 100 \, ^{\circ}\text{C}$

EN50575 CPR Cable EuroClass Fire Performance Fca

Packaging and Weights

 $\textbf{Cable weight} \hspace{1.5cm} \textbf{0.11 kg/m} \hspace{0.2cm} \mid \hspace{0.2cm} \textbf{0.074 lb/ft}$

Regulatory Compliance/Certifications

Agency Classification

CENELEC EN 50575 compliant, Declaration of Performance (DoP) available

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

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