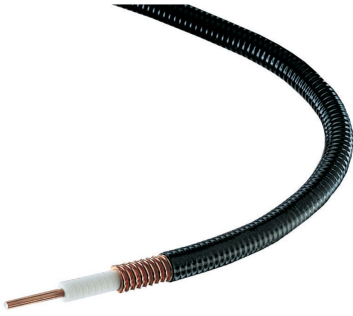


LSF2-50-43B



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	CommScope® standard product (Global)

General Specifications

Flexibility	Superflexible
Jacket Color	Black
Performance Note	Attenuation 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 Conductor	3.65 ohms/km 1.113 ohms/kft
dc Resistance, Outer Conductor	4.64 ohms/km 1.414 ohms/kft
dc Test Voltage	2500 V
Inductance	0.202 µH/m 0.062 µH/ft

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Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	5000 V
Operating Frequency Band	1 – 10200 MHz
Peak Power	15.6 kW
Velocity	82 %

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680–806 MHz	1.15	23.13
806–906 MHz	1.13	24.29
1427–1535 MHz	1.13	24.29
1700–2300 MHz	1.15	23.13
2535–2655 MHz	1.253	18.99
3480–3800 MHz	1.253	18.99
4400–4900 MHz	1.253	18.99

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

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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
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

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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 Bends	25.4 mm 1 in
Minimum Bend Radius, single Bend	25.4 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 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)
Attenuation, Ambient Temperature	68 °F 20 °C
Average Power, Ambient Temperature	104 °F 40 °C
Average Power, Inner Conductor Temperature	212 °F 100 °C
EN50575 CPR Cable EuroClass Fire Performance	Fca

Packaging and Weights

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Cable weight

0.11 kg/m | 0.074 lb/ft

Regulatory Compliance/Certifications

Agency

CENELEC

ISO 9001:2015



Classification

EN 50575 compliant, Declaration of Performance (DoP) available

Designed, manufactured and/or distributed under this quality management system