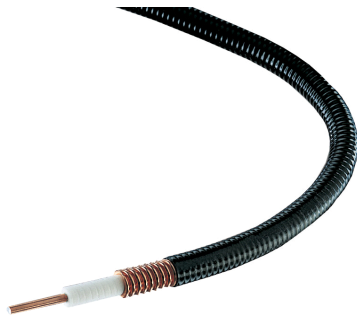


LSF2-50-43B



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

Product Classification

Brand HELIAX® | SureFlex®
Product Type Coaxial wireless cable

Standards And Qualifications

EN50575 CPR Cable EuroClass Fca

Construction Materials

Jacket Material PE
Outer Conductor Material Corrugated copper
Dielectric Material Foam PE
Flexibility Superflexible
Inner Conductor Material Copper-clad aluminum wire
Jacket Color Black

Dimensions

Nominal Size 3/8 in
Cable Weight 0.08 lb/ft | 0.11 kg/m
Diameter Over Dielectric 7.645 mm | 0.301 in
Diameter Over Jacket 11.024 mm | 0.434 in
Inner Conductor OD 3.0480 mm | 0.1200 in
Outer Conductor OD 9.906 mm | 0.390 in

Electrical Specifications

Cable Impedance 50 ohm \pm 1 ohm
Capacitance 24.6 pF/ft | 80.7 pF/m
dc Resistance, Inner Conductor 1.110 ohms/kft | 3.650 ohms/km
dc Resistance, Outer Conductor 1.410 ohms/kft | 4.640 ohms/km
dc Test Voltage 2500 V
Inductance 0.062 μ H/ft | 0.202 μ H/m

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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%

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)

General Specifications

Ordering Note	CommScope® standard product (Global)
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Mechanical Specifications

Bending Moment	2.2 N-m 1.6 ft lb
Flat Plate Crush Strength	110.0 lb/in 2.0 kg/mm
Minimum Bend Radius, Multiple Bends	25.40 mm 1.00 in
Minimum Bend Radius, Single Bend	25.40 mm 1.00 in
Number of Bends, minimum	15
Tensile Strength	118 kg 260 lb

Note

Performance Note	Values typical, unless otherwise stated
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Standard Conditions

Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Inner Conductor Temperature	100 °C 212 °F

Return Loss/VSWR

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	1.25	19.08
3480–3800 MHz	1.25	19.08
4400–4900 MHz	1.25	19.08

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.321	0.098	15.60
1	0.422	0.129	15.60
1.5	0.501	0.153	15.60
2	0.567	0.173	14.27
10	1.179	0.359	6.86
20	1.641	0.5	4.93
30	1.998	0.609	4.05
50	2.567	0.782	3.15
85	3.342	1.019	2.42
88	3.4	1.036	2.38
100	3.625	1.105	2.23
108	3.768	1.148	2.15
150	4.447	1.355	1.82
174	4.795	1.461	1.69
200	5.147	1.569	1.57
204	5.199	1.585	1.56
300	6.336	1.931	1.28
400	7.351	2.241	1.10
450	7.815	2.382	1.03
460	7.905	2.409	1.02
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500	8.257	2.517	0.98
512	8.36	2.548	0.97
600	9.084	2.769	0.89
700	9.851	3.003	0.82
800	10.572	3.222	0.77
824	10.739	3.273	0.75
894	11.214	3.418	0.72
960	11.648	3.55	0.69
1000	11.904	3.628	0.68
1218	13.231	4.033	0.61
1250	13.417	4.089	0.60
1500	14.806	4.512	0.55
1700	15.848	4.83	0.51
1794	16.32	4.974	0.50
1800	16.35	4.983	0.49
2000	17.321	5.279	0.47
2100	17.791	5.423	0.45
2200	18.253	5.563	0.44
2300	18.706	5.701	0.43
2500	19.589	5.97	0.41
2700	20.445	6.231	0.40
3000	21.682	6.608	0.37
3400	23.26	7.089	0.35
3600	24.022	7.321	0.34

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3700	24.396	7.436	0.33
3800	24.767	7.549	0.33
3900	25.134	7.661	0.32
4000	25.498	7.771	0.32
4100	25.858	7.881	0.31
4200	26.215	7.99	0.31
4300	26.569	8.098	0.30
4400	26.92	8.205	0.30
4500	27.267	8.311	0.30
4600	27.612	8.416	0.29
4700	27.954	8.52	0.29
4800	28.294	8.623	0.29
4900	28.63	8.726	0.28
5000	28.965	8.828	0.28
6000	32.183	9.809	0.25
8000	38.096	11.611	0.21
8800	40.314	12.287	0.20
10000	43.516	13.263	0.19

* Values typical, guaranteed within 5%

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014
CENELEC

Classification

Compliant
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
EN 50575 compliant, Declaration of Performance (DoP) available

