

Product Specifications

COMMScope®



F2A-PDMDR-2M

FSJ2-50 SureFlex® Jumper with interface types 7-16 DIN Male and 7-16 DIN Male Right Angle, 2 m

Product Classification

Product Series	FSJ2-50
Product Type	SureFlex® standard

General Specifications

Body Style, Connector A	Straight
Body Style, Connector B	Right angle
Cable Family	FSJ2-50
Interface, Connector A	7-16 DIN Male
Interface, Connector B	7-16 DIN Male
Length	2.000 m 6.562 ft
Nominal Size	3/8 in
Specification Sheet Revision Level	A

Jumper Assembly Sample Label



Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.29	18.00

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

Product Specifications

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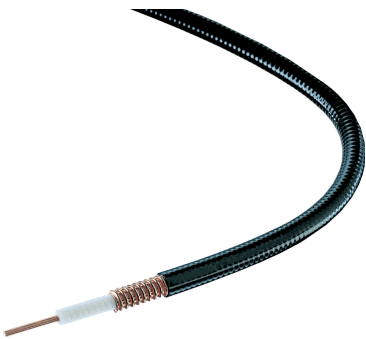
Included Products

FSJ2-50 — FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

35422-42 — Heat Treated FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

Product Specifications

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FSJ2-50

FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

Product Classification

Brand	HELIAX® SureFlex®
Product Series	FSJ2-50
Product Type	Coaxial wireless cable

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 0.12 kg/m
Diameter Over Dielectric	7.112 mm 0.280 in
Diameter Over Jacket	10.541 mm 0.415 in
Inner Conductor OD	2.7940 mm 0.1100 in
Outer Conductor OD	9.652 mm 0.380 in

Electrical Specifications

Cable Impedance	50 ohm $\pm$ 1 ohm
Capacitance	24.3 pF/ft 79.7 pF/m
dc Resistance, Inner Conductor	1.290 ohms/kft 4.232 ohms/km
dc Resistance, Outer Conductor	1.520 ohms/kft 4.987 ohms/km
dc Test Voltage	2300 V
Inductance	0.200 μ H/m 0.061 μ H/ft
Insulation Resistance	100000 Mohms•km
Jacket Spark Test Voltage (rms)	4000 V
Operating Frequency Band	1 – 13400 MHz
Peak Power	13.2 kW
Velocity	83%

Environmental Specifications

Product Specifications

COMMScope®

FSJ2-50

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

Brand	HELIAX®
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Mechanical Specifications

Bending Moment	2.3 N-m 1.7 ft lb
Flat Plate Crush Strength	100.0 lb/in 1.8 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	20
Number of Bends, typical	50
Tensile Strength	95 kg 210 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

Product Specifications

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FSJ2-50

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.27	0.082	13.20
1	0.383	0.117	13.20
1.5	0.469	0.143	13.20
2	0.542	0.165	13.20
10	1.219	0.372	6.97
20	1.732	0.528	4.91
30	2.128	0.649	3.99
50	2.762	0.842	3.08
85	3.626	1.105	2.34
88	3.691	1.125	2.30
100	3.943	1.202	2.16
108	4.103	1.25	2.07
150	4.864	1.482	1.75
174	5.254	1.601	1.62
200	5.65	1.722	1.50
204	5.709	1.74	1.49
300	6.99	2.13	1.22
400	8.139	2.481	1.04
450	8.665	2.641	0.98
500	9.166	2.794	0.93
512	9.283	2.829	0.92
600	10.107	3.081	0.84
700	10.983	3.347	0.77
800	11.807	3.599	0.72
824	11.998	3.657	0.71
894	12.542	3.823	0.68
960	13.04	3.974	0.65
1000	13.334	4.064	0.64
1218	14.861	4.529	0.57
1250	15.075	4.595	0.56
1500	16.68	5.084	0.51
1700	17.887	5.452	0.48
1794	18.436	5.619	0.46
1800	18.47	5.629	0.46
2000	19.599	5.974	0.43
2100	20.147	6.141	0.42
2200	20.685	6.305	0.41
2300	21.214	6.466	0.40
2500	22.247	6.78	0.38
2700	23.249	7.086	0.37
3000	24.701	7.529	0.34
3400	26.558	8.094	0.32
3700	27.899	8.503	0.30
4000	29.201	8.9	0.29
5000	33.316	10.154	0.26
6000	37.158	11.325	0.23
8000	44.264	13.491	0.19
8800	46.943	14.308	0.18
10000	50.826	15.491	0.17
12000	57.001	17.373	0.15

* Values typical, guaranteed within 5%

Product Specifications

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FSJ2-50

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Compliant

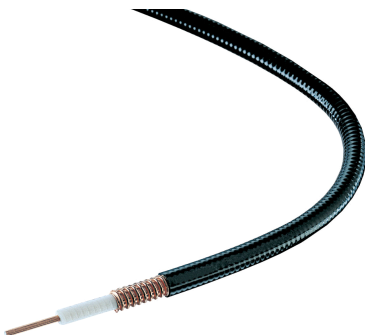
Below Maximum Concentration Value (MCV)

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



Product Specifications

COMMSCOPE®



35422-42

Heat Treated FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

Product Classification

Brand	HELIAX® SureFlex®
Product Series	FSJ2-50
Product Type	Coaxial wireless cable

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
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