# F4S-HMHM-8-P-SGW



RSJ4-50 SureFlex® Jumper with interface types 4.3-10 Male and 4.3-Male with HELIAX® SureGuard weatherproofing, 8 feet

• WARNING: DO NOT MATE WITH 4.1-9.5 DIN

#### Product Classification

Product Type	SureFlex® Premium, static PIM
Product Brand	HELIAX®   SureFlex®
Product Series	RSJ4-50
General Specifications	
Body Style, Connector A	Straight
Body Style, Connector B	Straight
Interface, Connector A	4.3-10 Male
Interface, Connector B	4.3-10 Male
Specification Sheet Revision Level	А
Dimensions	
Length	2.438 m   7.999 ft
Nominal Size	1/2 in
Electrical Specifications	
3rd Order IMD Static	-119 dBm
3rd Order IMD Static Test Method	Two +43 dBm carriers
DTF, Connector A	-34 dB
DTF, Connector B	-34 dB
VSWR/Return Loss	

# Frequency Band VSWR Return Loss (dB) 698-960 MHz 1.065 30.04 1700-2200 MHz 1.065 30.04

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2200–2700 MHz	1.106	25.96
3400–3800 MHz	1.222	20.01

## Jumper Assembly Sample Label



#### Environmental Specifications

Immersion Test Method

Meets IEC 60529:2001, IP68 in mated condition HELIAX® SureGuard weatherproofing boot

Weatherproofing Method

Packaging and Weights

Included

Weatherproofing boot

#### Regulatory Compliance/Certifications

#### Agency

ISO 9001:2015

Classification

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

### Included Products

RSJ4-50

RSJ4-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket

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**COMMSCOPE**°



RSJ4-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket

#### Product Classification

Product Type	Coaxial wireless cable
Product Brand	HELIAX®   SureFlex®
Product Series	RSJ4-50
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	9.423 mm   0.371 in
Diameter Over Jacket	13.411 mm   0.528 in
Inner Conductor OD	3.594 mm   0.141 in
Outer Conductor OD	11.989 mm   0.472 in
Nominal Size	1/2 in
Electrical Specifications	
Cable Impedance	50 ohm ±1 ohm
Capacitance	83.9 pF/m   25.573 pF/ft
dc Resistance, Inner Conductor	2.65 ohms/km   0.808 ohms/kft
dc Resistance, Outer Conductor	4.56 ohms/km   1.39 ohms/kft
dc Test Voltage	2500 V

Inductance

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0.213 µH/m | 0.065 µH/ft



Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	5000 V
Operating Frequency Band	1 – 10200 MHz
Peak Power	15.6 kW
Velocity	79 %

#### 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

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.327	0.1	15.6
1.5	0.401	0.122	15.6
2.0	0.463	0.141	15.6
10.0	1.044	0.318	10.14
20.0	1.485	0.453	7.12
30.0	1.828	0.557	5.79
50.0	2.377	0.724	4.45
85.0	3.13	0.954	3.38
88.0	3.187	0.971	3.32
100.0	3.406	1.038	3.11
108.0	3.546	1.081	2.98
150.0	4.214	1.285	2.51
174.0	4.558	1.389	2.32
200.0	4.908	1.496	2.16
204.0	4.96	1.512	2.13
300.0	6.095	1.858	1.74
400.0	7.121	2.17	1.49
450.0	7.592	2.314	1.39
460.0	7.684	2.342	1.38
500.0	8.042	2.451	1.32

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512.0	8.148	2.483	1.3
600.0	8.891	2.71	1.19
700.0	9.683	2.951	1.09
800.0	10.431	3.179	1.01
824.0	10.605	3.232	1
894.0	11.101	3.383	0.95
960.0	11.555	3.522	0.92
1000.0	11.824	3.604	0.89
1218.0	13.226	4.031	0.8
1250.0	13.423	4.091	0.79
1500.0	14.906	4.543	0.71
1700.0	16.027	4.885	0.66
1794.0	16.537	5.04	0.64
1800.0	16.57	5.05	0.64
2000.0	17.624	5.371	0.6
2100.0	18.137	5.528	0.58
2200.0	18.641	5.682	0.57
2300.0	19.138	5.833	0.55
2500.0	20.11	6.129	0.53
2700.0	21.056	6.418	0.5
3000.0	22.432	6.837	0.47
3400.0	24.198	7.375	0.44
3600.0	25.055	7.636	0.42
3700.0	25.478	7.765	0.42
3800.0	25.898	7.893	0.41
3900.0	26.314	8.02	0.4
4000.0	26.727	8.146	0.4
4100.0	27.136	8.271	0.39
4200.0	27.542	8.394	0.38
4300.0	27.946	8.517	0.38
4400.0	28.346	8.639	0.37
4500.0	28.744	8.761	0.37
4600.0	29.139	8.881	0.36
4700.0	29.531	9.001	0.36
4800.0	29.921	9.119	0.35

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4900.0	30.308	9.238	0.35
5000.0	30.693	9.355	0.34
6000.0	34.427	10.493	0.31
8000.0	41.403	12.619	0.26
8800.0	44.054	13.427	0.24
10000.0	47.914	14.603	0.22

#### 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	31.75 mm   1.25 in
Minimum Bend Radius, single Bend	31.75 mm   1.25 in
Number of Bends, minimum	15
Number of Bends, typical	20
Tensile Strength	79 kg   174.165 lb
Bending Moment	3.1 N-m   27.437 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
Dackaging and Woights	

#### Packaging and Weights

Cable weight

0.15 kg/m | 0.101 lb/ft

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#### Regulatory Compliance/Certifications

#### Agency Classification

CENELECEN 50575 compliant, Declaration of Performance (DoP) availableISO 9001:2015Designed, manufactured and/or distributed under this quality management system

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