# F1A-HMHR-2-TMB

FSJ1-50A SureFlex® Jumper with interface types 4.3-10 Male and 4.3-

• WARNING: DO NOT MATE WITH 4.1-9.5 DIN

#### Product Classification **Product Type** SureFlex® standard **Product Brand** HELIAX® | SureFlex® **Product Series** FSJ1-50A General Specifications **Body Style, Connector A** Straight Right angle Body Style, Connector B Interface, Connector A 4.3-10 Male 4.3-10 Male Interface, Connector B **Specification Sheet Revision Level** А Dimensions Length 0.61 m | 2.001 ft **Nominal Size** 1/4 in **Electrical Specifications 3rd Order IMD** -117 dBm **3rd Order IMD Test Method** Two +43 dBm carriers VSWR/Return Loss **Frequency Band** VSWR Return Loss (dB) 698-2700 MHz 1.152 23.02 3400-3800 MHz 1.288 18

### Jumper Assembly Sample Label

3800-6000 MHz

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18

1.288

## F1A-HMHR-2-TMB



#### **Environmental Specifications**

**Immersion Test Method** 

Meets IEC 60529:2001, IP68 in mated condition

#### Regulatory Compliance/Certifications

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

#### Included Products

FSJ1-50A

FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket

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FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket

#### Product Classification

Product Type	Coaxial wireless cable	
Product Brand	HELIAX®   SureFlex®	
Product Series	FSJ1-50A   MLOC	
General Specifications		
Product Number	887009902/00   SZ887009902/00	
Flexibility	Superflexible	
Jacket Color	Black	
Performance Note	Attenuation values typical, guaranteed within 5%	
Dimensions		
Diameter Over Dielectric	4.826 mm   0.19 in	
Diameter Over Jacket	7.366 mm   0.29 in	
Inner Conductor OD	1.905 mm   0.075 in	
Outer Conductor OD	6.35 mm   0.25 in	
Nominal Size	1/4 in	
Electrical Specifications		
Cable Impedance	50 ohm ±1 ohm	
Capacitance	79.4 pF/m   24.201 pF/ft	
dc Resistance, Inner Conductor	9.843 ohms/km   3 ohms/kft	
dc Resistance, Outer Conductor	7.216 ohms/km   2.199 ohms/kft	
dc Test Voltage	1600 V	
Inductance	0.2 μH/m   0.061 μH/ft	
Insulation Resistance	100000 MOhms-km	
Jacket Spark Test Voltage (rms)	5000 V	

**Operating Frequency Band** 

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1 – 18000 MHz

Peak Power	6.4 kW
Velocity	82 %

### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680–960 MHz	1.201	20.8
1700–2200 MHz	1.201	20.8
2200–2700 MHz	1.433	15

### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.577	0.176	6.4
1.5	0.707	0.215	6.4
2.0	0.816	0.249	6.4
10.0	1.833	0.559	3.99
20.0	2.6	0.792	2.81
30.0	3.192	0.973	2.29
50.0	4.136	1.261	1.77
85.0	5.419	1.652	1.35
88.0	5.516	1.681	1.33
100.0	5.889	1.795	1.24
108.0	6.125	1.867	1.19
150.0	7.25	2.21	1.01
174.0	7.825	2.385	0.93
200.0	8.408	2.563	0.87
204.0	8.495	2.589	0.86
300.0	10.373	3.162	0.71
400.0	12.051	3.673	0.61
450.0	12.817	3.906	0.57
460.0	12.965	3.952	0.56
500.0	13.545	4.128	0.54
512.0	13.715	4.18	0.53
600.0	14.909	4.544	0.49
700.0	16.175	4.93	0.45
800.0	17.362	5.292	0.42

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824.0	17.637	5.376	0.41
894.0	18.42	5.614	0.4
960.0	19.134	5.832	0.38
1000.0	19.556	5.96	0.37
1218.0	21.738	6.626	0.34
1250.0	22.044	6.719	0.33
1500.0	24.326	7.414	0.3
1700.0	26.038	7.936	0.28
1794.0	26.813	8.172	0.27
1800.0	26.862	8.187	0.27
2000.0	28.455	8.673	0.26
2100.0	29.227	8.908	0.25
2200.0	29.984	9.139	0.24
2300.0	30.727	9.365	0.24
2500.0	32.174	9.806	0.23
2700.0	33.576	10.233	0.22
3000.0	35.602	10.851	0.21
3400.0	38.183	11.638	0.19
3600.0	39.428	12.017	0.19
3700.0	40.041	12.204	0.18
3800.0	40.647	12.389	0.18
3900.0	41.247	12.571	0.18
4000.0	41.841	12.753	0.17
4100.0	42.429	12.932	0.17
4200.0	43.012	13.11	0.17
4300.0	43.59	13.286	0.17
4400.0	44.163	13.46	0.17
4500.0	44.73	13.633	0.16
4600.0	45.293	13.805	0.16
4700.0	45.852	13.975	0.16
4800.0	46.405	14.144	0.16
4900.0	46.955	14.311	0.16
5000.0	47.5	14.477	0.15
6000.0	52.747	16.077	0.14
8000.0	62.37	19.01	0.12

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8800.0	65.974	20.108	0.11
10000.0	71.173	21.693	0.1
12000.0	79.393	24.198	0.09
14000.0	87.172	26.569	0.08
15800.0	93.872	28.611	0.08
16000.0	94.601	28.833	0.08
18000.0	101.745	31.01	0.07

### 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
Number of Bends, typical	20
Tensile Strength	68 kg   149.914 lb
Bending Moment	0.7 N-m   6.196 in lb
Flat Plate Crush Strength	1.8 kg/mm   100.795 lb/in

### **Environmental Specifications**

C to +60 °C (-40 °F to +140 °F)
C to +85 °C (-67 °F to +185 °F)
C to +85 °C (-94 °F to +185 °F)
20 °C
F   40 °C
F   100 °C

### Packaging and Weights

Cable weight

0.07 kg/m | 0.047 lb/ft

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### Regulatory Compliance/Certifications

#### Agency

#### Classification

CHINA-ROHS ISO 9001:2015 **REACH-SVHC** ROHS Compliant **UK-ROHS** 

**UL/ETL** Certification



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