## F2A-PDMDF-4M

FSJ2-50 SureFlex® Jumper with interface types 7-16 DIN Male and 7-

#### Product Classification

Product Type	SureFlex® standar	d
Product Brand	HELIAX®   SureF	lex®
Product Series	FSJ2-50	
General Specifications		
Body Style, Connector A	Straight	
Body Style, Connector B	Straight	
Interface, Connector A	7-16 DIN Male	
Interface, Connector B	7-16 DIN Female	
Specification Sheet Revision Level	А	
Dimensions		
Length	4 m   13.123 ft	
Nominal Size	3/8 in	
VSWR/Return Loss		
Francis Dand	Vewp	D.4

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.222	20.01

### Jumper Assembly Sample Label

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## F2A-PDMDF-4M



#### **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 Product	S

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





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

#### Product Classification

Product Type	Coaxial wireless cable
Product Brand	HELIAX®   SureFlex®
Product Series	FSJ2-50
General Specifications	
Flexibility	Superflexible
Jacket Color	Black
Performance Note	Attenuation values typical, guaranteed within 5%
Dimensions	
Diameter Over Dielectric	7.112 mm   0.28 in
Diameter Over Jacket	10.541 mm   0.415 in
Inner Conductor OD	2.794 mm   0.11 in
Outer Conductor OD	9.652 mm   0.38 in
Nominal Size	3/8 in
Electrical Specifications	
Cable Impedance	50 ohm ±1 ohm
Capacitance	79.7 pF/m   24.293 pF/ft
dc Resistance, Inner Conductor	4.232 ohms/km   1.29 ohms/kft
dc Resistance, Outer Conductor	4.987 ohms/km   1.52 ohms/kft
dc Test Voltage	2300 V
Inductance	0.2 μH/m   0.061 μH/ft
Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	4000 V
Operating Frequency Band	1 – 13400 MHz
Peak Power	13.2 kW

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#### Velocity

83 %

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.383	0.117	13.2
1.5	0.469	0.143	13.2
2.0	0.542	0.165	13.2
10.0	1.219	0.372	6.97
20.0	1.732	0.528	4.91
30.0	2.128	0.649	3.99
50.0	2.762	0.842	3.08
85.0	3.626	1.105	2.34
88.0	3.691	1.125	2.3
100.0	3.943	1.202	2.16
108.0	4.103	1.25	2.07
150.0	4.864	1.482	1.75
174.0	5.254	1.601	1.62
200.0	5.65	1.722	1.5
204.0	5.709	1.74	1.49
300.0	6.99	2.13	1.22
400.0	8.139	2.481	1.04
450.0	8.665	2.641	0.98
460.0	8.767	2.672	0.97
500.0	9.166	2.794	0.93
512.0	9.283	2.829	0.92
600.0	10.107	3.081	0.84
700.0	10.983	3.347	0.77
800.0	11.807	3.599	0.72
824.0	11.998	3.657	0.71
894.0	12.542	3.823	0.68
960.0	13.04	3.974	0.65
1000.0	13.334	4.064	0.64
1218.0	14.861	4.529	0.57
1250.0	15.075	4.595	0.56
1500.0	16.68	5.084	0.51

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1700.0	17.887	5.452	0.48
1794.0	18.436	5.619	0.46
1800.0	18.47	5.629	0.46
2000.0	19.599	5.974	0.43
2100.0	20.147	6.141	0.42
2200.0	20.685	6.305	0.41
2300.0	21.214	6.466	0.4
2500.0	22.247	6.781	0.38
2700.0	23.249	7.086	0.37
3000.0	24.701	7.529	0.34
3400.0	26.558	8.094	0.32
3600.0	27.456	8.368	0.31
3700.0	27.899	8.503	0.3
3800.0	28.337	8.637	0.3
3900.0	28.771	8.769	0.3
4000.0	29.201	8.9	0.29
4100.0	29.628	9.03	0.29
4200.0	30.051	9.159	0.28
4300.0	30.47	9.287	0.28
4400.0	30.886	9.414	0.28
4500.0	31.298	9.539	0.27
4600.0	31.708	9.664	0.27
4700.0	32.114	9.788	0.26
4800.0	32.518	9.911	0.26
4900.0	32.919	10.033	0.26
5000.0	33.316	10.154	0.26
6000.0	37.158	11.325	0.23
8000.0	44.264	13.491	0.19
8800.0	46.943	14.308	0.18
10000.0	50.826	15.491	0.17
12000.0	57.001	17.373	0.15

### Material Specifications

#### Dielectric Material

Foam PE

PE



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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	20
Number of Bends, typical	50
Tensile Strength	95 kg   209.439 lb
Bending Moment	2.3 N-m   20.357 in lb
Flat Plate Crush Strength	1.8 kg/mm   100.795 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

#### Packaging and Weights

Cable weight

0.12 kg/m | 0.081 lb/ft

#### Regulatory Compliance/Certifications

#### Classification

ISO 9001:2015

Agency

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

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ANDREW an Amphenol company



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

#### Product Classification

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

#### General Specifications

Product Number	887019902/00   SZ887019902/00
Flexibility	Superflexible
Jacket Color	Black
Performance Note	Attenuation values typical, guaranteed within 5%
Dimensions	
Diameter Over Dielectric	7.112 mm   0.28 in
Diameter Over Jacket	10.541 mm   0.415 in
Inner Conductor OD	2.794 mm   0.11 in
Outer Conductor OD	9.652 mm   0.38 in
Nominal Size	3/8 in

#### **Electrical Specifications**

Cable Impedance	50 ohm ±1 ohm
Capacitance	79.7 pF/m   24.293 pF/ft
dc Resistance, Inner Conductor	4.232 ohms/km   1.29 ohms/kft
dc Resistance, Outer Conductor	4.987 ohms/km   1.52 ohms/kft
dc Test Voltage	2300 V
Inductance	0.2 µH/m   0.061 µH/ft
Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	4000 V
Operating Frequency Band	1 – 13400 MHz

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Peak Power	13.2 kW
Velocity	83 %

### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
2.5–2.7 GHz	1.106	25.96
680–800 MHz	1.106	25.96
800–960 MHz	1.106	25.96
1700–2200 MHz	1.101	26.36

#### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
1.0	0.383	0.117	13.2
1.5	0.469	0.143	13.2
2.0	0.542	0.165	13.2
10.0	1.219	0.372	6.97
20.0	1.732	0.528	4.91
30.0	2.128	0.649	3.99
50.0	2.762	0.842	3.08
85.0	3.626	1.105	2.34
88.0	3.691	1.125	2.3
100.0	3.943	1.202	2.16
108.0	4.103	1.25	2.07
150.0	4.864	1.482	1.75
174.0	5.254	1.601	1.62
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600.0	10.107	3.081	0.84
700.0	10.983	3.347	0.77

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### Material Specifications

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Jacket Material	PE
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Number of Bends, typical	50
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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

#### Packaging and Weights

#### Cable weight

0.12 kg/m | 0.081 lb/ft

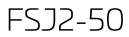
#### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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Compliant

Compliant

ROHS

UK-ROHS

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