



# Coaxial Cable

## PRODUCT SPECIFICATION

### FSJ2-50

Superflexible coaxial cable, 3/8", 50 ohm foam HELIAX (Wideband 0.5-13400 MHz)

#### CHARACTERISTICS

##### Mechanical Specifications

Pressurizable:	No
Weight (lb/ft):	0.08
Weight (kg/m):	0.12
Tensile Strength (lb):	210.00
Tensile Strength (kg):	95.00
Flat Plate Crush Strength (lb/in):	100.00
Flat Plate Crush Strength (kg/mm):	1.80
Minimum Bending Radius (inches):	1.00
Minimum Bend Radius (millimeters):	25.00
Bending Moment (lb-ft):	1.70
Bending Moment (N-m):	2.30
Number of Bends (minimum):	20.00
Number of Bends (typical):	50.00

##### Electrical Specifications

Cable Impedance (ohms):	50.00
Maximum Frequency (GHz):	13.40
Velocity percentage:	83.00
Peak Power Rating (kW):	13.20
DC Resistance Inner (ohms/1000ft):	1.29
DC Resistance Inner (ohms/1000m):	4.23
DC Resistance Outer (ohms/1000ft):	1.52
DC Resistance Outer (ohms/1000m):	4.99
Cable Test Voltage (VDC):	2300.00
Jacket Spark volts (RMS):	5000.00
Capacitance (pF/ft):	24.30
Capacitance (pF/m):	79.70
Inductance (microH/ft):	0.06
Inductance (microH/m):	0.20
Insulation Resistance (Meg-Ohms):	100000.00

##### Construction Materials

Dielectric Type:	Foam Dielectric, Superflexible
Dielectric Material:	Polyethylene Foam
Jacket Color:	Black
Jacket Description:	Polyethylene

#### Customer Support Center:

From North America: 1-800-255-1479  
International: +1-708-873-2307

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#### CHARACTERISTICS

Jacket Material:	Polyethylene
Outer Conductor Material:	Corrugated Copper
Inner Conductor Material:	Copper-Clad Aluminum Wire

#### Dimensions

Diameter Over Jacket (inches):	0.41
Diameter Over Jacket (millimeters):	10.40
Outer Conductor Outside Diameter (inches):	0.38
Outer Conductor Outside Diameter (millimeters):	9.70
Outer Conductor Inside Diameter (inches):	0.36
Outer Conductor Inside Diameter (millimeters):	9.10
Inner Conductor Outside Diameter (inches):	0.11
Inner Conductor Outside Diameter (millimeters):	2.80

#### General Specifications

Cable Grade:	Standard
NEC Classification Type:	N/A
Nominal Size (inches):	3/8
Short Description:	3/8" Superflexible 50 ohm HELIAX foam coaxial cable

#### Available Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact	Grade
F2PDF	7-16 DIN Female	N/A	Solder	Plated
F2PDF-C	7-16 DIN Female	N/A	Captivated	Plated
F2PDF-PM	7-16 DIN Female	Panel Mount	Solder	Plated
F2PDM	7-16 DIN Male	Hex Head	Solder	Plated
F2PDM-A	7-16 DIN Male	N/A	Solder	Plated
F2PDM-C	7-16 DIN Male	Hex Head	Captivated	Plated
F2PDR-A	7-16 DIN Male	Right Angle	Solder	Plated
F2PDR-C	7-16 DIN Male	Right Angle	Captivated	Plated
F2PNF	N Female	N/A	Solder	Plated
F2PNF-BH	N Female	Bulkhead	Solder	Plated
F2PNF-BHA	N Female	Bulkhead	Solder	Plated
F2PNF-C	N Female	N/A	Captivated	Plated
F2PNM-H	N Male	Hex Head	Solder	Plated
F2PNM-HA	N Male	Hex Head	Solder	Plated
F2PNM-HC	N Male	Hex Head	Captivated	Plated

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#### CHARACTERISTICS

F2PNR-HA	N Male	Right Angle	Solder	Plated
<b>Attenuation and Average Power Ratings</b>				
Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)	
0.5	0.082	0.270	13.20	
1	0.117	0.383	13.20	
1.5	0.143	0.469	13.20	
2	0.165	0.542	13.20	
10	0.372	1.219	6.98	
20	0.528	1.732	4.91	
30	0.649	2.128	4.00	
50	0.842	2.762	3.08	
88	1.125	3.691	2.30	
100	1.202	3.943	2.16	
108	1.250	4.102	2.07	
150	1.482	4.863	1.75	
174	1.601	5.254	1.62	
200	1.722	5.650	1.51	
300	2.130	6.989	1.22	
400	2.481	8.138	1.05	
450	2.641	8.665	0.98	
500	2.794	9.166	0.93	
512	2.829	9.283	0.92	
600	3.081	10.107	0.84	
700	3.347	10.982	0.77	
800	3.599	11.806	0.72	
824	3.657	11.997	0.71	
860	3.743	12.280	0.69	
894	3.823	12.542	0.68	
960	3.974	13.039	0.65	
1000	4.064	13.333	0.64	
1250	4.595	15.074	0.56	
1500	5.084	16.678	0.51	
1640	5.343	17.530	0.49	
1700	5.452	17.886	0.48	
1800	5.629	18.469	0.46	
2000	5.974	19.598	0.43	

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##### Attenuation and Average Power Ratings

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)
2100	6.141	20.146	0.42
2200	6.305	20.684	0.41
2300	6.466	21.213	0.40
2500	6.780	22.245	0.38
2700	7.086	23.247	0.37
3000	7.529	24.700	0.34
3300	7.955	26.100	0.33
3400	8.094	26.556	0.32
4000	8.900	29.199	0.29
4900	10.033	32.917	0.26
5000	10.154	33.314	0.26
5200	10.394	34.102	0.25
5300	10.513	34.492	0.25
5600	10.865	35.647	0.24
6000	11.325	37.156	0.23
6100	11.439	37.528	0.23
6600	11.997	39.359	0.22
8000	13.491	44.262	0.19
8800	14.308	46.941	0.18
10000	15.491	50.823	0.17
10900	16.351	53.643	0.16
11500	16.912	55.484	0.15
12000	17.373	56.998	0.15
13400	18.636	61.142	0.14

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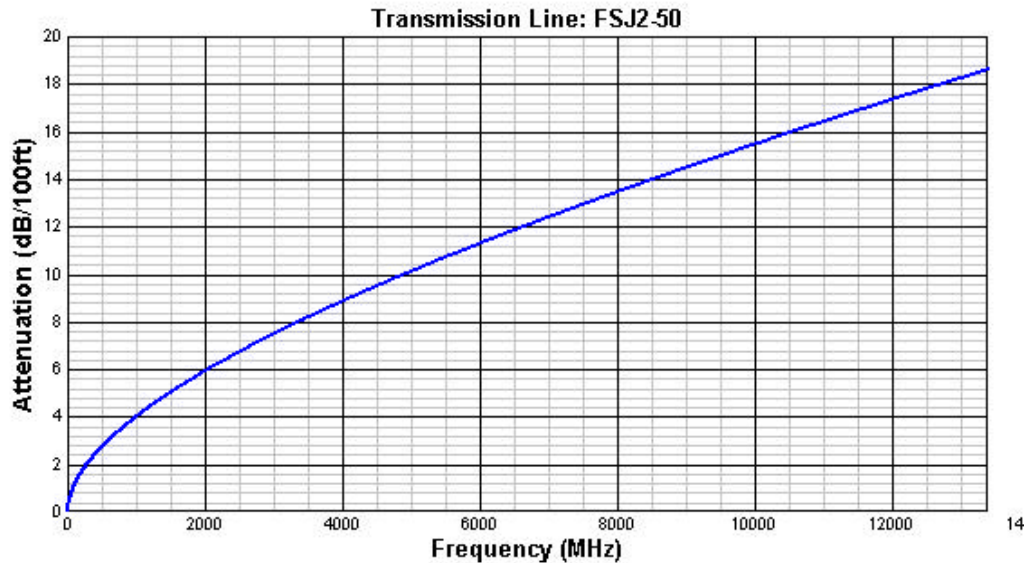
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**Standard Conditions:**

For Attenuation. VSWR 1.0, ambient temperature 20°C (68°F).

For Average Power. VSWR 1.0, ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F); no solar loading.

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