



# Coaxial Cable



## PRODUCT SPECIFICATION

### FSJ2RN-50

Superflexible coaxial cable, 3/8", 50 ohm foam HELIAX with fire retardant jacket (CATVX) (Wideband from 0.5-13400 MHz)

#### CHARACTERISTICS

##### Mechanical Specifications

Pressurizable	No
Weight lb/ft (kg/m)	0.09 (0.13)
Tensile Strength lb (kg)	210.00 (95.00)
Flat Plate Crush Strength lb/in (kg/mm)	100.00 (1.80)
Minimum Bending Radius in (mm)	1.00 (25.00)
Bending Moment lb-ft (N-m)	1.70 (2.30)
Number of Bends minimum (typical)	20.00 (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 (ohms/1000m)	1.29 (4.23)
DC Resistance Outer ohms/1000ft (ohms/1000m)	1.52 (4.99)
Cable Test Voltage (VDC)	2300.00
Jacket Spark volts (RMS)	4000.00
Capacitance pF/ft (pF/m)	24.30 (79.70)
Inductance microH/ft (microH/m)	0.06 (0.20)
Insulation Resistance (Meg-Ohms)	100000.00

##### Construction Materials

Dielectric Type	Foam Dielectric, Superflexible
Dielectric Material	Ployethylene Foam
Jacket Color	Gray
Jacket Description	Non-Halogenated, Fire Retardant
Jacket Material	Megolon
Outer Conductor Material	Corrugated Copper
Inner Conductor Material	Copper-Clad Aluminum Wire

##### Dimensions

Diameter Over Jacket in (mm)	0.42 (10.70)
Outer Conductor Outside Diameter in (mm)	0.38 (9.70)
Outer Conductor Inside Diameter in (mm)	0.36 (9.10)
Inner Conductor Outside Diameter in (mm)	0.11 (2.80)

#### Customer Support Center:

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

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#### CHARACTERISTICS

##### General Specifications

Cable Grade	Flame Retardant
NEC Classification Type	CATVR
Nominal Size (inches)	3/8

##### Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact Attachment	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
F2PNR-HA	N Male	Right Angle	Solder	Plated
F2PDF-BHBA-1	7-16 DIN Female	Bulkhead	Solder	Plated
F2PDF-SXBH	7-16 DIN Male	Bulkhead	Solder	Plated
F2PDM-SX	7-16 DIN Male		Solder	Plated
F2TQCM-A			Captivated	Plated

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#### CHARACTERISTICS

##### Performance

Frequency (MHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)
1	0.117	0.383	13.2
1.5	0.143	0.469	13.2
2	0.165	0.542	13.2
10	0.372	1.22	6.92
20	0.528	1.73	4.87
30	0.649	2.13	3.97
50	0.842	2.76	3.06
88	1.13	3.69	2.29
100	1.2	3.94	2.14
108	1.25	4.1	2.06
150	1.48	4.86	1.74
174	1.6	5.25	1.61
200	1.72	5.65	1.49
300	2.13	6.99	1.21
400	2.48	8.14	1.04
450	2.64	8.66	0.975
500	2.79	9.17	0.921
512	2.83	9.28	0.91
600	3.08	10.1	0.836
700	3.35	11	0.769
800	3.6	11.8	0.715
824	3.66	12	0.704
894	3.82	12.5	0.673
960	3.97	13	0.648
1000	4.06	13.3	0.634
1250	4.59	15.1	0.58
1500	5.08	16.7	0.507
1700	5.45	17.9	0.472
1800	5.63	18.5	0.457
2000	5.97	19.6	0.431
2100	6.14	20.1	0.419
2200	6.3	20.7	0.409
2300	6.47	21.2	0.398

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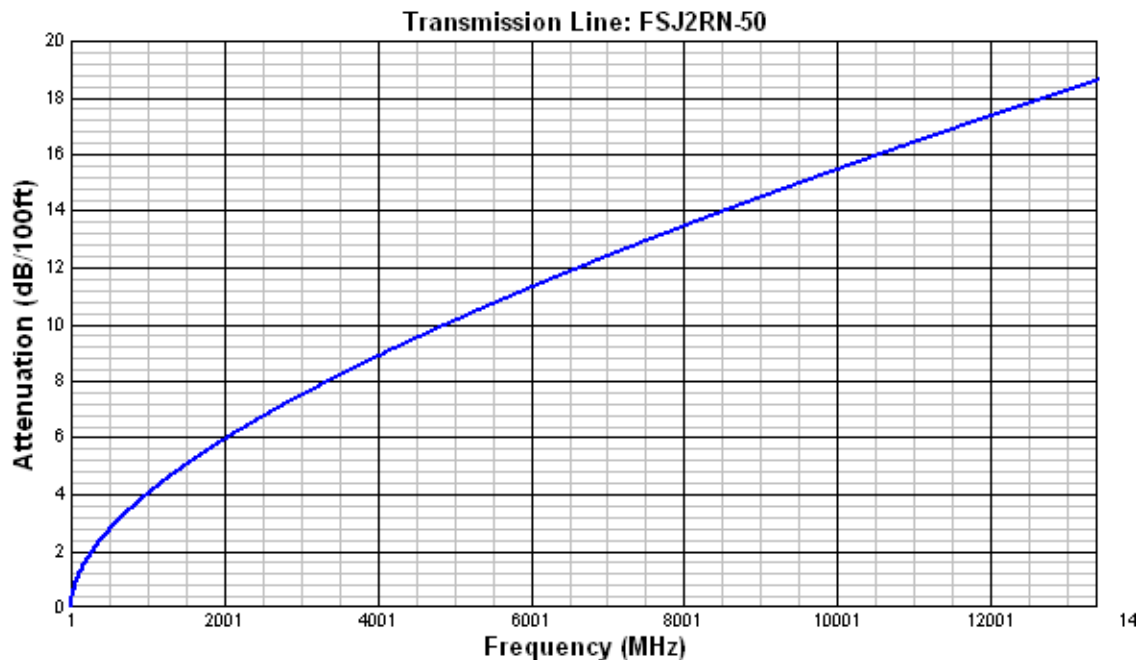
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### CHARACTERISTICS

#### Performance

Frequency (MHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)
3000	7.53	24.7	0.342
3400	8.09	26.6	0.318
4000	8.9	29.2	0.289
5000	10.2	33.3	0.254
6000	11.3	37.2	0.228
8000	13.5	44.3	0.191
10000	15.5	50.8	0.166
12000	17.4	57	0.148
13400	18.6	61.1	0.138



#### 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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