



Coaxial Cable



PRODUCT SPECIFICATION

FSJ4-50B

Superflexible coaxial cable, 1/2", 50 ohm foam HELIAX (Wideband from 0.5-10200 MHz)

CHARACTERISTICS

Mechanical Specifications

Pressurizable	No
Weight lb/ft (kg/m)	0.14 (0.21)
Tensile Strength lb (kg)	175.00 (79.00)
Flat Plate Crush Strength lb/in (kg/mm)	110.00 (2.00)
Minimum Bending Radius in (mm)	1.25 (32.00)
Bending Moment lb-ft (N-m)	2.00 (2.70)
Number of Bends minimum (typical)	20.00 (50.00)

Electrical Specifications

Cable Impedance (ohms)	50.00
Maximum Frequency (GHz)	10.20
Velocity percentage	81.00
Peak Power Rating (kW)	15.60
DC Resistance Inner ohms/1000ft (ohms/1000m)	0.82 (2.69)
DC Resistance Outer ohms/1000ft (ohms/1000m)	1.00 (3.28)
Cable Test Voltage (VDC)	2500.00
Jacket Spark volts (RMS)	5000.00
Capacitance pF/ft (pF/m)	25.20 (82.70)
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	Black
Jacket Description	Polyethelyne
Jacket Material	Polyethelyne
Outer Conductor Material	Corrugated Copper
Inner Conductor Material	Copper-Clad Aluminum Wire

Dimensions

Diameter Over Jacket in (mm)	0.52 (13.20)
Outer Conductor Outside Diameter in (mm)	0.48 (12.20)
Outer Conductor Inside Diameter in (mm)	0.46 (11.70)
Inner Conductor Outside Diameter in (mm)	0.14 (3.60)

Customer Support Center:

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

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CHARACTERISTICS

General Specifications

Cable Grade	Standard
NEC Classification Type	N/A
Nominal Size (inches)	1/2

Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact Attachment	Grade
44ASJ	HN Male	N/A	Solder	Standard
44ASP	UHF Male	N/A	Solder	Standard
44ASR	7/8 EIA Flange	N/A	Solder	Standard
44ASU	UHF Female	N/A	Solder	Standard
44SPCW	SC Male	N/A	Solder	Standard
F4PDF	7-16 DIN Female	N/A	Solder	Plated
F4PDF-A	7-16 DIN Female	N/A	Solder	Plated
F4PDF-BH	7-16 DIN Female	Bulkhead	Solder	Plated
F4PDF-BHC	7-16 DIN Female	Bulkhead	Captivated	Plated
F4PDF-C	7-16 DIN Female	N/A	Captivated	Plated
F4PDF-PM	7-16 DIN Female	Panel Mount	Solder	Plated
F4PDF-PMC	7-16 DIN Female	Panel Mount	Captivated	Plated
F4PDM-A	7-16 DIN Male	N/A	Solder	Plated
F4PDMV2	7-16 DIN Male	N/A	Solder	Plated
F4PDMV2-C	7-16 DIN Male	N/A	Captivated	Plated
F4PDR	7-16 DIN Male	Right Angle	Solder	Plated
F4PDR-A	7-16 DIN Male	Right Angle	Solder	Plated
F4PDR-C	7-16 DIN Male	Right Angle	Captivated	Plated
F4PKM-C	4.1-9.5 DIN Male	Outdoor Use	Captivated	Plated
F4PKR-A	4.1-9.5 DIN Male	Right Angle	Solder	Plated
F4PKR-C	4.1-9.5 DIN Male	Right Angle, Outdoor Use	Captivated	Plated
F4PNF	N Female	N/A	Solder	Plated
F4PNF-A	N Female	N/A	Solder	Plated
F4PNF-BH	N Female	Bulkhead	Solder	Plated
F4PNF-C	N Female	N/A	Captivated	Plated
F4PNMV2-H	N Male	Hex Head	Solder	Plated
F4PNMV2-HC	N Male	Hex Head	Captivated	Plated
F4PNR-H	N Male	Right Angle	Solder	Plated

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Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact Attachment	Grade
F4PNR-HC	N Male	Right Angle	Captivated	Plated
F4PDF-SX	7-16 DIN Female		Solder	Plated
F4PDF-SXBH	7-16 DIN Female		Solder	Plated
F4TQCM-A			Captivated	Standard
F4PDM-SX	7-16 DIN Male		Solder	Plated
F4PDR-T	7-16 DIN Male		Solder	Plated
F4TDMV2-C	7-16 DIN Male		Captivated	Standard
F4TNMV2-HC	N Male	Hex Head	Captivated	Standard
F4XNM-TU	N Male		Solder	Plated
F4XNF-TU	N Female			

Performance

Frequency (MHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)
0.5	0.07	0.231	15.6
1	0.1	0.327	15.6
1.5	0.122	0.401	15.6
2	0.141	0.463	15.6
10	0.318	1.04	10.1
20	0.453	1.49	7.07
30	0.557	1.83	5.75
50	0.724	2.38	4.42
88	0.971	3.19	3.3
100	1.04	3.41	3.08
108	1.08	3.55	2.96
150	1.28	4.21	2.49
174	1.39	4.56	2.3
200	1.5	4.91	2.14
300	1.86	6.09	1.72
400	2.17	7.12	1.48
450	2.31	7.59	1.38
500	2.45	8.04	1.31
512	2.48	8.15	1.29

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Performance

Frequency (MHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)
600	2.71	8.89	1.18
700	2.95	9.68	1.09
800	3.18	10.4	1.01
824	3.23	10.6	0.991
894	3.38	11.1	0.947
960	3.52	11.6	0.909
1000	3.6	11.8	0.889
1250	4.09	13.4	0.783
1500	4.54	14.9	0.705
1700	4.88	16	0.656
1800	5.05	16.6	0.634
2000	5.37	17.6	0.597
2100	5.53	18.1	0.58
2200	5.68	18.6	0.564
2300	5.83	19.1	0.549
3000	6.84	22.4	0.469
3400	7.38	24.2	0.435
4000	8.15	26.7	0.394
5000	9.35	30.7	0.343
6000	10.5	34.4	0.306
8000	12.6	41.4	0.254
10000	14.6	47.9	0.22
10200	14.8	48.5	0.217

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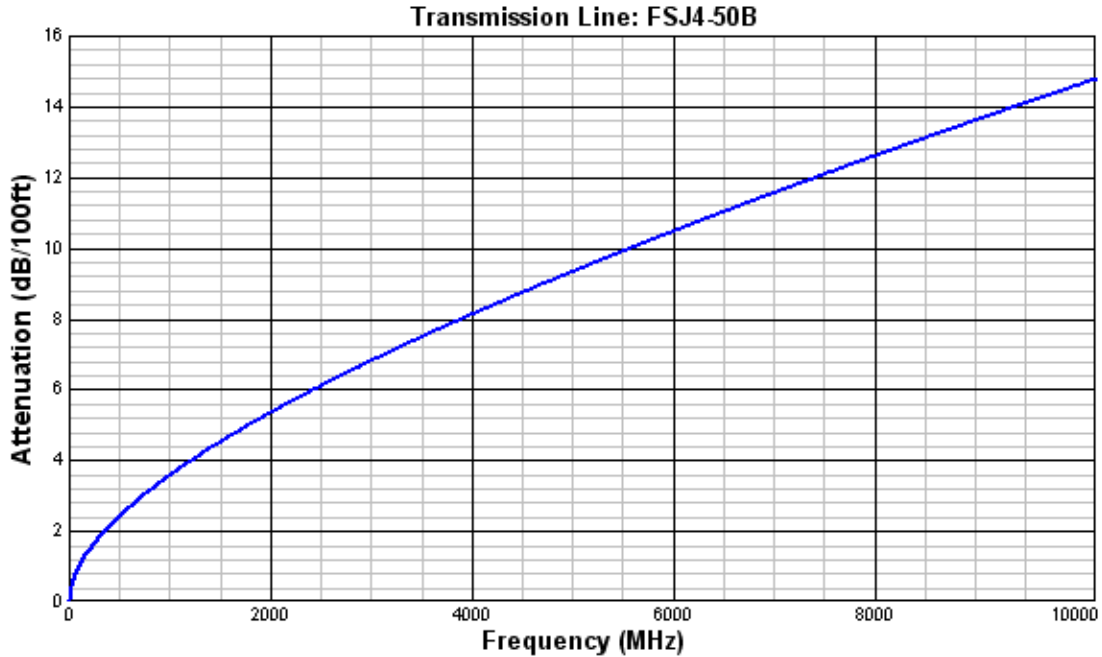


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CHARACTERISTICS



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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