



# Coaxial Cable

## PRODUCT SPECIFICATION

### ETS2-50T

Superflexible, high power, high temperature, plenum rated coaxial cable, 3/8" , 50 ohm foam HELIAX, fire retardant jacket (CATVP) (Wideband from 0.5-13400 MHz)

#### CHARACTERISTICS

##### Mechanical Specifications

Pressurizable:	No
Weight (lb/ft):	0.09
Weight (kg/m):	0.13
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):	4000.00
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, High Temperature, High Power
Dielectric Material:	Expanded PFTE
Jacket Color:	Blue

#### Customer Support Center:

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

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#### CHARACTERISTICS

Jacket Description:	Halogenated, Fire Retardant
Jacket Material:	Solef
Outer Conductor Material:	Corrugated Copper
Inner Conductor Material:	Silver Plated, 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:	CATVP
Nominal Size (inches):	3/8
Short Description:	3/8" Superflexible, high power, high temperature, plenum rated 50 ohm HELIAX 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-C	7-16 DIN Male	Hex Head	Captivated	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-C	N Female	N/A	Captivated	Plated
F2PNM-H	N Male	Hex Head	Solder	Plated
F2PNM-HC	N Male	Hex Head	Captivated	Plated

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#### CHARACTERISTICS

##### Attenuation and Average Power Ratings

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)
0.5	0.083	0.271	13.20
1	0.117	0.383	13.20
1.5	0.143	0.470	13.20
2	0.166	0.543	13.20
10	0.373	1.224	13.20
20	0.531	1.742	12.27
30	0.653	2.143	9.97
50	0.849	2.786	7.67
88	1.138	3.735	5.72
100	1.217	3.992	5.35
108	1.267	4.156	5.14
150	1.505	4.938	4.33
174	1.628	5.340	4.00
200	1.752	5.749	3.72
300	2.176	7.138	2.99
400	2.541	8.337	2.56
450	2.709	8.888	2.40
500	2.869	9.414	2.27
512	2.907	9.536	2.24
600	3.171	10.404	2.05
700	3.453	11.329	1.89
800	3.719	12.202	1.75
824	3.781	12.405	1.72
860	3.873	12.706	1.68
894	3.958	12.985	1.65
960	4.119	13.514	1.58
1000	4.215	13.829	1.54
1250	4.783	15.693	1.36
1500	5.310	17.422	1.23
1640	5.591	18.343	1.16
1700	5.708	18.728	1.14
1800	5.901	19.361	1.10
2000	6.276	20.589	1.04
2100	6.458	21.186	1.01

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#### CHARACTERISTICS

##### Attenuation and Average Power Ratings

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)
2200	6.637	21.774	0.98
2300	6.813	22.353	0.96
2500	7.158	23.484	0.91
2700	7.494	24.585	0.87
3000	7.982	26.186	0.82
3300	8.454	27.735	0.77
3400	8.608	28.240	0.76
4000	9.504	31.181	0.69
4900	10.773	35.344	0.60
5000	10.909	35.791	0.60
5200	11.180	36.678	0.58
5300	11.314	37.118	0.58
5600	11.711	38.422	0.56
6000	12.231	40.129	0.53
6100	12.360	40.550	0.53
6600	12.993	42.628	0.50
8000	14.699	48.225	0.44
8800	15.636	51.300	0.42
10000	17.001	55.777	0.38
10900	17.996	59.043	0.36
11500	18.648	61.182	0.35
12000	19.185	62.943	0.34
13400	20.660	67.780	0.32

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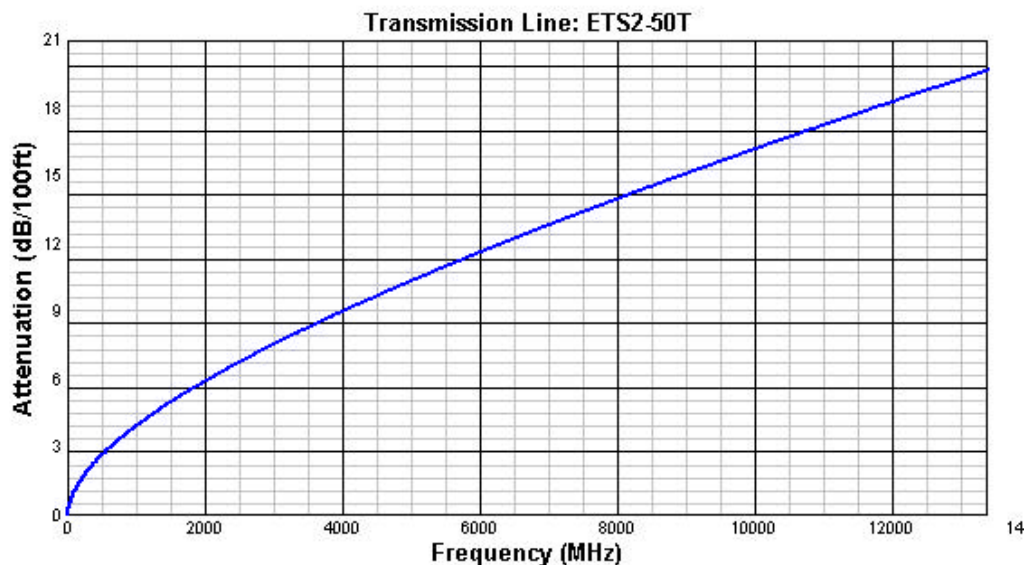
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#### CHARACTERISTICS



#### 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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