

ETS036-50T

ETS036-50T, HELIAX® Superflexible High Power, High Temperature Foam Coaxial Cable, corrugated copper, 3.6 mm, blue PVDF jacket

Construction Materials

Jacket Material PVDF

Outer Conductor Material Corrugated copper
Dielectric Material Expanded PTFE
Flexibility Superflexible

Inner Conductor Material Silver-plated copper wire

Jacket Color Blue

Dimensions

Nominal Size 3.6 mm

 Cable Weight
 0.25 lb/ft | 0.37 kg/m

 Diameter Over Dielectric
 2.388 mm | 0.094 in

 Diameter Over Jacket
 4.445 mm | 0.175 in

 Inner Conductor OD
 1.0160 mm | 0.0400 in

 Outer Conductor OD
 3.581 mm | 0.141 in

Electrical Specifications

Cable Impedance 50 ohm ±1.5 ohm

Capacitance 27.3 pF/ft | 89.6 pF/m

dc Resistance, Inner Conductor6.500 ohms/kft21.327 ohms/kmdc Resistance, Outer Conductor4.300 ohms/kft14.108 ohms/km

dc Test Voltage 1500 V

Inductance 0.203 μH/m | 0.062 μH/ft

100000 Mohms•km

4000 V

Jacket Spark Test Voltage (rms)

Insulation Resistance

Operating Frequency Band 1 – 18000 MHz

Peak Power 3.0 kW Velocity 81%

Environmental Specifications

Operating Temperature -40 °C to +150 °C (-40 °F to +302 °F)

General Specifications

Brand HELIAX®

Mechanical Specifications

Bending Moment 1.4 N-m | 1.0 ft lb

Flat Plate Crush Strength 30.0 lb/in | 0.5 kg/mm

Minimum Bend Radius, Multiple Bends 19.05 mm | 0.75 in

Minimum Bend Radius, Single Bend 19.05 mm | 0.75 in

Number of Bends, minimum 15



ETS036-50T

Number of Bends, typical 20

Note

Performance Note Values typical, unless otherwise stated

Standard Conditions

Attenuation, Ambient Temperature 20 °C | 68 °F Average Power, Ambient Temperature 40 °C | 104 °F Average Power, Inner Conductor Temperature 200 °C | 392 °F



ETS036-50T

Attenuation

Affendation			
Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.73	0.222	3.00
1	1.033	0.315	3.00
1.5	1.266	0.386	3.00
2	1.463	0.446	3.00
10	3.288	1.002	3.00
20	4.668	1.423	3.00
30	5.734	1.748	2.57
50	7.437	2.267	1.99
85	9.758	2.974	1.51
88	9.933	3.027	1.49
100	10.607	3.233	1.39
108	11.036	3.364	1.34
150	13.075	3.985	1.13
174	14.121	4.304	1.05
200	15.18	4.627	0.97
204	15.337	4.675	0.96
300	18.76	5.718	0.79
400	21.825	6.652	0.68
450	23.228	7.079	0.64
500	24.562	7.486	0.60
512	24.874	7.581	0.59
600	27.066	8.249	0.55
700	29.393	8.959	0.50
800	31.58	9.625	0.47
824	32.088	9.78	0.46
894	33.532	10.22	0.44
960	34.85	10.622	0.42
1000	35.63	10.86	0.41
1218	39.672	12.091	0.37
1250	40.238	12.264	0.37
1500	44.478	13.556	0.33
1700	47.665	14.528	0.31
1800	49.202	14.996	0.30
2000	52.176	15.903	0.28
2100	53.619	16.342	0.28
2200	55.035	16.774	0.27
2300	56.426	17.198	0.26
2500	59.14	18.025	0.25
2700	61.771	18.827	0.24
3000	65.582	19.988	0.23
3400	70.447	21.471	0.21
3700	73.957	22.541	0.20
4000	77.363	23.579	0.19
5000	88.105	26.853	0.17
6000	98.11	29.902	0.15
8000	116.558	35.525	0.13
8800	123.496	37.64	0.12
10000	133.537	40.7	0.11
12000	149.472	45.557	0.10
14000	164.618	50.173	0.09
15800	177.709	54.163	0.08
16000	179.137	54.598	0.08
18000	193.144	58.868	0.08
10000	199.177	30.000	0.00



ETS036-50T

* Values typical, guaranteed within 5%

Regulatory Compliance/Certifications

Agency

UL/ETL Certification RoHS 2011/65/EU China RoHS SJ/T 11364-2006

Classification

Compliant Compliant Below Maximum Concentration Value (MCV)



