RUBADUEWIRE

Basic (1 layer) Insulation ETFE .0015”

Product Information

Temperature Rating: 155°C
Insulation: DuPont™ Tefzel® ETFE
Compliances: UL OBTJ2 File No. E206198
UL/IEC 60950-1 (Ed. 2), Annex U.
IEC 61558-1
VDE License Nr. 136743: Class F
Systems approvals: UL 1446
RXT-2 Class F
RoHS Compliant

Conductor: Tin Plated Copper, Solid or Stranded (ASTM B-33/ASTM B-286)
Bare Copper and other conductors available
Size Range: UL: 22 AWG – 40 AWG
VDE: 14 AWG – 40 AWG
Voltage: UL: 600 V
VDE: 1000 V
Breakdown: Approx. 2000 V
OD Tolerances: 22 -24 AWG +0.0015”/-0.0005”
25-40 AWG +0.001”/-0.0005”

Insulation Information:

Insulation Type: Fluoropolymer
Dielectric Constant: 2.6
Abrasion Resistance: Excellent
Chemical Resistance: Excellent
Underground Resistance: Excellent

Thermal: Continuous Operating Temperature, 150°C
Tensile Strength (psi): 6500
Bondability: Poor
Water Resistance: Excellent
Long Term Stability: Excellent

UL Flammability Rating: V-0
Elongation (%): 150-300
UV Resistance: Excellent

ETFE is a Fluoropolymer compound with excellent electrical properties, heat resistance, chemical resistance, and abrasion resistance. Commonly used in winding wires, UL AWM wires, and medical applications

Insulated Wire Information:

		Conductor OD		Insulated Wire OD		
Part Number	AWG	Inches	MM	Inches	MM	Weight LB/KFT
S22A01TX-1.5	22	0.0253	0.643	0.0283	0.719	2.03
S23A01TX-1.5	23	0.0226	0.574	0.0256	0.650	1.63
S24A01TX-1.5	24	0.0201	0.511	0.0231	0.587	1.30
S25A01TX-1.5	25	0.0179	0.455	0.0209	0.531	1.04
S26A01TX-1.5	26	0.0159	0.404	0.0189	0.480	0.83
S27A01TX-1.5	27	0.0142	0.361	0.0172	0.437	0.66
S28A01TX-1.5	28	0.0126	0.320	0.0156	0.396	0.53
S29A01TX-1.5	29	0.0113	0.287	0.0143	0.363	0.43
S30A01TX-1.5	30	0.0100	0.254	0.0130	0.330	0.34
S31A01TX-1.5	31	0.0089	0.226	0.0119	0.302	0.28
S32A01TX-1.5	32	0.0080	0.203	0.0110	0.279	0.23
S33A01TX-1.5	33	0.0071	0.180	0.0101	0.257	0.18
S34A01TX-1.5	34	0.0063	0.160	0.0093	0.236	0.15
S35A01TX-1.5	35	0.0056	0.142	0.0086	0.218	0.12
S36A01TX-1.5	36	0.0050	0.127	0.0080	0.203	0.10
S37A01TX-1.5	37	0.0045	0.114	0.0075	0.191	0.08
S38A01TX-1.5	38	0.0040	0.102	0.0070	0.178	0.07
S39A01TX-1.5	39	0.0035	0.089	0.0065	0.165	0.05
S40A01TX-1.5	40	0.0031	0.079	0.0061	0.155	0.05

Bare Core Wire Specifications:

DCR per 10’ @ 20°C

	Core Wire Diameter			DC Resistance		
AWG	Min. Dia.	Nom. Dia.	Max. Dia.	Min. Res.*	Nom. Res.	Max. Res.
22	.0250	.0253	.0261	.1559	.1685	.1781
23	.0224	.0226	.0233	.1956	.2112	.2219
24	.0199	.0201	.0207	.2478	.2669	.2811
25	.0177	.0179	.0184	.3137	.3366	.3554
26	.0157	.0159	.0164	.3948	.4266	.4517
27	.0141	.0142	.0146	.4982	.5349	.5600
28	.0125	.0126	.0130	.6283	.6793	.7125
29	.0112	.0113	.0116	.7892	.8446	.8875
30	.0099	.0100	.0103	1.0009	1.0785	1.1359
31	.0088	.0089	.0092	1.2546	1.3616	1.4376
32	.0079	.0080	.0083	1.5414	1.6852	1.7838
33	.0070	.0071	.0074	1.9392	2.1395	2.2720
34	.0062	.0063	.0066	2.4378	2.7173	2.8962
35	.0055	.0056	.0059	3.0506	3.4391	3.6803
36	.0049	.0050	.0053	3.7803	4.3140	4.6368
37	.0044	.0045	.0048	4.6089	5.3259	5.7505
38	.0039	.0040	.0043	5.7431	6.7406	7.3195
39	.0034	.0035	.0038	7.3539	8.8041	9.6306
40	.0030	.0031	.0034	9.1860	11.2227	12.3700

*ASTM B33 sets no standard for minimum resistance. This is only an indicator to investigate other aspects such as tin-thickness and tin coverage.