COILBOND

RUBADUEWIRE

Reinforced (3 layers) Insulation ETFE .0015” / Layer with .0015” Self-Bonding Overcoat

Product Information

Temperature Rating: 155°C
Insulation: DuPont™ Tefzel® ETFE w/Proprietary Self-Bonding Overcoat
Compliances: UL OBJT2 File No. E206198
UL 60950-1 (Ed. 2), Annex U. UL 60601-1
RoHS Compliant

Conductor: Tin Plated Copper, Solid or Stranded (ASTM B-33/ASTM B-286)
Bare Copper and other conductors available
Size Range: UL: 18 AWG – 40 AWG
Voltage: UL: 1500 V for electronic equipment,
UL: 707 V for medical equipment
Breakdown: Approx. 7000 V
OD Tolerances: 14- 24 AWG + 0.0015”/-0.001”
25- 40 AWG + 0.001”/-0.001”

Reinforced Insulation Information:

Insulation Type: Fluoropolymer
Dielectric Constant: 2.6
Abrasion Resistance: Excellent
Water Resistance: Excellent

Thermal: Continuous Operating Temperature, 150°C
Tensile Strength (psi): 6500
UV Resistance: Excellent
Underground Resistance: Excellent

UL Flammability Rating: V-0
Elongation (%): 150-300
Chemical Resistance: Excellent
Long Term Stability: 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

Self-Bonding Overcoat Information:

The Self-Bonding Overcoat is a proprietary material intended for bonding the product together and it should not be considered an additional layer of insulation nor should it be used for any additional electrical or mechanical properties.

Insulated Wire Information with 0.0015” Self-Bonding Overcoat:

		Conductor OD		Insulated Wire OD w/Self-Bonding Overcoat		
Part Number	AWG	Inches	MM	Inches	MM	
T18A01TXXX-1.5-SB-1.5	18	0.0403	1.024	0.0523	1.33	
T19A01TXXX-1.5-SB-1.5	19	0.0359	0.912	0.0479	1.22	
T20A01TXXX-1.5-SB-1.5	20	0.0320	0.813	0.0440	1.12	
T21A01TXXX-1.5-SB-1.5	21	0.0285	0.724	0.0405	1.03	
T22A01TXXX-1.5-SB-1.5	22	0.0253	0.643	0.0373	0.95	
T23A01TXXX-1.5-SB-1.5	23	0.0226	0.574	0.0346	0.88	
T24A01TXXX-1.5-SB-1.5	24	0.0201	0.511	0.0321	0.82	
T25A01TXXX-1.5-SB-1.5	25	0.0179	0.455	0.0299	0.76	
T26A01TXXX-1.5-SB-1.5	26	0.0159	0.404	0.0279	0.71	
T27A01TXXX-1.5-SB-1.5	27	0.0142	0.361	0.0262	0.67	
T28A01TXXX-1.5-SB-1.5	28	0.0126	0.320	0.0246	0.62	
T29A01TXXX-1.5-SB-1.5	29	0.0113	0.287	0.0233	0.59	
T30A01TXXX-1.5-SB-1.5	30	0.0100	0.254	0.0220	0.56	
T31A01TXXX-1.5-SB-1.5	31	0.0089	0.226	0.0209	0.53	
T32A01TXXX-1.5-SB-1.5	32	0.0080	0.203	0.0200	0.51	
T33A01TXXX-1.5-SB-1.5	33	0.0071	0.180	0.0191	0.49	
T34A01TXXX-1.5-SB-1.5	34	0.0063	0.160	0.0183	0.46	
T35A01TXXX-1.5-SB-1.5	35	0.0056	0.142	0.0176	0.45	
T36A01TXXX-1.5-SB-1.5	36	0.0050	0.127	0.0170	0.43	
T37A01TXXX-1.5-SB-1.5	37	0.0045	0.114	0.0165	0.42	
T38A01TXXX-1.5-SB-1.5	38	0.0040	0.102	0.0160	0.41	
T39A01TXXX-1.5-SB-1.5	39	0.0035	0.089	0.0155	0.39	
T40A01TXXX-1.5-SB-1.5	40	0.0031	0.079	0.0151	0.38	

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.
18	.0399	.0403	.0415	.0617	.0664	.0699
19	.0355	.0359	.0370	.0776	.0837	.0883
20	.0317	.0320	.0330	.0975	.1053	.1108
21	.0282	.0285	.0294	.1229	.1328	.1400
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.