RUBADUEWIRE

Reinforced (3 layers) Insulation ETFE .002” / Layer

Product Information

Temperature Rating: 155°C
Insulation: DuPont™ Tefzel® ETFE
Compliances: UL OBJT2 File No. E206198
UL/IEC 60950-1 (Ed. 2)am:1, Annex U. UL 2601
IEC 61558-1, 60601-1(ed. 3), 61010-1 (Ed. 2)
VDE License Nr. 136743: Class F
System approvals: UL 1446
RXT-2 Class F, TCA 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: 10 AWG – 40 AWG
VDE: 14 AWG – 40 AWG
Voltage: UL: 1500 V for electronic equipment,
UL: 707 V for medical equipment
VDE: 1000 V
Breakdown: Approx. 9000 V
OD Tolerances: 10- 24 AWG + 0.002”/-0.001”
25- 40 AWG + 0.001”/-0.001”

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
T14A01TXXX-2	14	0.0641	1.628	0.0761	1.93	13.409
T15A01TXXX-2	15	0.0571	1.450	0.0691	1.76	10.779
T16A01TXXX-2	16	0.0508	1.290	0.0628	1.60	8.600
T18A01TXXX-2	18	0.0403	1.024	0.0523	1.33	5.563
T19A01TXXX-2	19	0.0359	0.912	0.0479	1.22	4.483
T20A01TXXX-2	20	0.0320	0.813	0.0440	1.12	3.618
T21A01TXXX-2	21	0.0285	0.724	0.0405	1.03	2.939
T22A01TXXX-2	22	0.0253	0.643	0.0373	0.95	2.375
T23A01TXXX-2	23	0.0226	0.574	0.0346	0.88	1.950
T24A01TXXX-2	24	0.0201	0.511	0.0321	0.82	1.583
T25A01TXXX-2	25	0.0862	2.189	0.0982	2.49	2.251
T26A01TXXX-2	26	0.0159	0.404	0.0279	0.71	1.069
T27A01TXXX-2	27	0.0142	0.361	0.0262	0.67	0.890
T28A01TXXX-2	28	0.0126	0.320	0.0246	0.62	0.739
T29A01TXXX-2	29	0.0113	0.287	0.0233	0.59	0.627
T30A01TXXX-2	30	0.0100	0.254	0.0220	0.56	0.525
T31A01TXXX-2	31	0.0089	0.226	0.0209	0.53	0.447
T32A01TXXX-2	32	0.0080	0.203	0.0200	0.51	0.388
T33A01TXXX-2	33	0.0071	0.180	0.0191	0.49	0.335
T34A01TXXX-2	34	0.0063	0.160	0.0183	0.46	0.291
T35A01TXXX-2	35	0.0056	0.142	0.0176	045	0.260
T36A01TXXX-2	36	0.0050	0.127	0.0170	0.43	0.228
T37A01TXXX-2	37	0.0045	0.114	0.0165	0.42	0.207
T38A01TXXX-2	38	0.0040	0.102	0.0160	0.41	0.187
T39A01TXXX-2	39	0.0035	0.089	0.0155	0.39	0.170
T40A01TXXX-2	40	0.0031	0.079	0.0151	0.38	0.155

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.
14	.0635	.0641	.0660	.0224	.0262	.0276
15	.0565	.0571	.0588	.0307	.0331	.0349
16	.0503	.0508	.0523	.0388	.0418	.0440
17	.0448	.0453	.0467	.0487	.0526	.0555
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.