

RUBADUEWIRE

Reinforced (3 layers) Insulation ETFE .0015" / Layer

Product Information

Temperature Rating: 155°C

Insulation: DuPont™ Tefzel® ETFE

Compliances: UL OBJT2 File No. E206198

UL/IEC 60950-1 (Ed. 2)am1, 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: 18 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. 7000 V

OD Tolerances: 14- 24 AWG + 0.0015"/-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:

Part Number	AWG	Conductor OD		Insulated Wire OD		Weight LB/KFT
		Inches	MM	Inches	MM	
T18A01TXXX-1.5	18	0.0403	1.024	0.0493	1.25	5.387
T19A01TXXX-1.5	19	0.0359	0.912	0.0449	1.14	4.322
T20A01TXXX-1.5	20	0.0320	0.813	0.0410	1.04	3.470
T21A01TXXX-1.5	21	0.0285	0.724	0.0375	0.95	2.804
T22A01TXXX-1.5	22	0.0253	0.643	0.0343	0.87	2.250
T23A01TXXX-1.5	23	0.0226	0.574	0.0316	0.80	1.830
T24A01TXXX-1.5	24	0.0201	0.511	0.0291	0.74	1.476
T25A01TXXX-1.5	25	0.0179	0.455	0.0269	0.68	1.200
T26A01TXXX-1.5	26	0.0159	0.404	0.0249	0.63	0.978
T27A01TXXX-1.5	27	0.0142	0.316	0.0232	0.59	0.800
T28A01TXXX-1.5	28	0.0126	0.320	0.0216	0.55	0.659
T29A01TXXX-1.5	29	0.0113	0.287	0.0203	0.52	0.552
T30A01TXXX-1.5	30	0.0100	0.254	0.0190	0.48	0.454
T31A01TXXX-1.5	31	0.0089	0.226	0.0179	0.45	0.380
T32A01TXXX-1.5	32	0.0080	0.203	0.0170	0.43	0.324
T33A01TXXX-1.5	33	0.0071	0.180	0.0161	0.41	0.274
T34A01TXXX-1.5	34	0.0063	0.160	0.0153	0.39	0.233
T35A01TXXX-1.5	35	0.0056	0.142	0.0146	0.37	0.200
T36A01TXXX-1.5	36	0.0050	0.127	0.0140	0.36	0.175
T37A01TXXX-1.5	37	0.0045	0.114	0.0135	0.34	0.155
T38A01TXXX-1.5	38	0.0040	0.102	0.0130	0.33	0.137
T39A01TXXX-1.5	39	0.0035	0.089	0.0125	0.32	0.120
T40A01TXXX-1.5	40	0.0031	0.079	0.0121	0.31	0.108

Bare Core Wire Specifications:

DCR per 10' @ 20°C

AWG	Core Wire Diameter			DC Resistance		
	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.