

RUBADUEWIRE

Reinforced (3 layers) Insulation ETFE .003" / Layer

Product Information

Temperature Rating: 155°C	Conductor: Tin Plated Copper, Solid or Stranded (ASTM B-33/ASTM B-286) Bare Copper and other conductors available
Insulation: DuPont™ Tefzel® ETFE	Size Range: UL: 10 AWG – 32 AWG VDE: 14 AWG – 32 AWG
Compliances: UL OBJT2 File No. E206198 UL/IEC 60950-1 (Ed. 2), Annex U. UL 60601 (ed. 3) IEC 61558-2-16, 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	Voltage: UL: 1500 V for electronic equipment, UL: 707 V for medical equipment VDE: 1000 V Breakdown: Approx. 13000 V OD Tolerances: 10- 24 AWG + 0.002"/-0.001" 25- 32 AWG + 0.0015"/-0.001"

Insulation Information:

Insulation Type: Fluoropolymer	Thermal: Continuous Operating Temperature, 150°C	UL Flammability Rating: V-0
Dielectric Constant: 2.6	Tensile Strength (psi): 6500	Elongation (%): 150-300
Abrasion Resistance: Excellent	Bondability: Poor	UV Resistance: Excellent
Chemical Resistance: Excellent	Water Resistance: Excellent	
Underground 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

Insulated Wire Information:

Part Number	AWG	Conductor OD		Insulated Wire OD		Weight LB/KFT
		Inches	MM	Inches	MM	
T10A01TXXX-3	10	0.1019	2.59	0.1199	3.05	33.74
T10A37TXXX-3	10(37/26)	0.1070	2.72	0.1250	3.18	31.30
T11A01TXXX-3	11	0.0907	2.30	0.1087	2.76	26.98
T12A01TXXX-3	12	0.0808	2.05	0.0988	2.51	21.67
T12A19TXXX-3	12(19/25)	0.0862	2.19	0.1042	2.65	20.78
T14A01TXXX-3	14	0.0641	1.63	0.0821	2.09	13.92
T14A19TXXX-3	14(19/27)	0.0679	1.72	0.0859	2.18	13.40
T15A01TXXX-3	15	0.0571	1.45	0.0751	1.91	11.30
T16A01TXXX-3	16	0.0508	1.29	0.0688	1.75	9.06
T16A19TXXX-3	16(19/29)	0.0539	1.37	0.0719	1.83	8.77
T18A01TXXX-3	18	0.0403	1.02	0.0583	1.48	5.95
T18A19TXXX-3	18(19/30)	0.0476	1.21	0.0656	1.67	7.05
T20A01TXXX-3	20	0.0320	0.813	0.0500	1.27	3.94
T20A19TXXX-3	20(19/32)	0.0385	0.978	0.0565	1.44	4.74
T22A01TXXX-3	22	0.0253	0.643	0.0433	1.10	2.65
T22A19TXXX-3	22(19/34)	0.0295	0.749	0.0475	1.21	3.13
T24A01TXXX-3	24	0.0201	0.511	0.0381	0.968	1.83
T24A19TXXX-3	24(19/36)	0.0242	0.615	0.0422	1.07	2.16
T26A01TXXX-3	26	0.0159	0.404	0.0339	0.861	1.28
T28A01TXXX-3	28	0.0126	0.320	0.0306	0.777	0.93
T29A01TXXX-3	29	0.0113	0.287	0.0293	0.744	0.81
T30A01TXXX-3	30	0.0100	0.254	0.0280	0.711	0.70
T32A01TXXX-3	32	0.0080	0.203	0.0260	0.660	0.55

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.
10	0.1009	0.1019	0.1050	0.0096	0.0104	0.0109
11	0.0898	0.0907	0.0934	0.0122	0.0131	0.0138
12	0.0800	0.0808	0.0832	0.0153	0.0165	0.0174
13	0.0713	0.0720	0.0742	0.0193	0.0208	0.0219
14	0.0635	0.0641	0.0660	0.0244	0.0262	0.0276
15	0.0565	0.0571	0.0588	0.0307	0.0331	0.0349
16	0.0503	0.0508	0.0523	0.0388	0.0418	0.0440
17	0.0448	0.0453	0.0467	0.0487	0.0526	0.0555
18	0.0399	0.0403	0.0415	0.0617	0.0664	0.0699
19	0.0355	0.0359	0.0370	0.0776	0.0837	0.0883
20	0.0317	0.0320	0.0330	0.0975	0.1053	0.1108
21	0.0282	0.0285	0.0294	0.1229	0.1328	0.1400
22	0.0250	0.0253	0.0261	0.1559	0.1685	0.1781
23	0.0224	0.0226	0.0233	0.1956	0.2112	0.2219
24	0.0199	0.0201	0.0207	0.2478	0.2669	0.2811
25	0.0177	0.0179	0.0184	0.3137	0.3366	0.3554
26	0.0157	0.0159	0.0164	0.3948	0.4266	0.4517
27	0.0141	0.0142	0.0146	0.4982	0.5349	0.5600
28	0.0125	0.0126	0.0130	0.6283	0.6793	0.7125
29	0.0112	0.0113	0.0116	0.7892	0.8446	0.8875
30	0.0099	0.0100	0.0103	1.0009	1.0785	1.1359
31	0.0088	0.0089	0.0092	1.2546	1.3616	1.4376
32	0.0079	0.0080	0.0083	1.5414	1.6852	1.7838

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