

RUBADUEWIRE

Basic (1 layer) Insulation ETFE .003"

Product Information

Temperature Rating: 155°C

Insulation: DuPont™ Tefzel® ETFE

Compliances: UL OBTJ2 File No. E206198

UL/IEC 60950-1 (Ed. 2), Annex U. UL 60601-1

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: 10 AWG – 40 AWG

VDE: 14 AWG – 40 AWG

Voltage: UL: 600 V

VDE: 1000 V

Breakdown: Approx. 4500 V

OD Tolerances: 10 -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, mechanical 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	
S10A37TX-3	10(37/26)	0.1070	2.718	0.1130	2.870	29.64
S12A19TX-3	12(19/25)	0.0862	2.189	0.0922	2.342	19.42
S14A01TX-3	14	0.0641	1.628	0.0701	1.781	12.87
S14A19TX-3	14(19/27)	0.0679	1.725	0.0739	1.877	12.29
S16A01TX-3	16	0.0508	1.290	0.0568	1.443	8.18
S18A01TX-3	18	0.0403	1.024	0.0463	1.176	5.22
S19A01TX-3	19	0.0359	0.912	0.0419	1.064	4.18
S20A01TX-3	20	0.0320	0.813	0.0380	0.965	3.33
S21A01TX-3	21	0.0285	0.724	0.0345	0.876	2.68
S22A01TX-3	22	0.0253	0.643	0.0313	0.795	2.14
S23A01TX-3	23	0.0226	0.574	0.0286	0.726	1.73
S24A01TX-3	24	0.0201	0.511	0.0261	0.663	1.38
S25A01TX-3	25	0.0179	0.455	0.0239	0.607	1.12
S26A01TX-3	26	0.0159	0.404	0.0219	0.556	0.90
S27A01TX-3	27	0.0142	0.361	0.0202	0.513	0.73
S28A01TX-3	28	0.0126	0.320	0.0186	0.472	0.59
S29A01TX-3	29	0.0113	0.287	0.0173	0.439	0.49
S30A01TX-3	30	0.0100	0.254	0.0160	0.406	0.39
S31A01TX-3	31	0.0089	0.226	0.0149	0.378	0.32
S32A01TX-3	32	0.0080	0.203	0.0140	0.356	0.27

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.