

# RUBADUEWIRE

## Reinforced (3 layers) Insulation FEP .003" / Layer

### Product Information

**Temperature Rating:** 155°C

**Insulation:** DuPont™ Teflon® FEP

**Compliances:** UL OBJT2 File No. E206198

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

IEC 61010-1 (Ed.2)

VDE License Nr. 6715: 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:** 10 AWG – 40 AWG

**Voltage:** 1000 V

**Breakdown:** Approx. 12000 V

**OD Tolerances:** 10- 24 AWG + 0.002"/-0.001"

25- 40 AWG +0.002"/0.001"

### Insulation Information:

**Insulation Type:** Fluoropolymer

**Dielectric Constant:** 2.03

**Abrasion Resistance:** Good

**Chemical Resistance:** Excellent

**Underground Resistance:** Excellent

**Thermal:** Continuous Operating Temperature, 200°C

**Tensile Strength (psi):** 3000+

**Bondability:** Poor

**Water Resistance:** Excellent

**Long Term Stability:** Excellent

**UL Flammability Rating:** V-0

**Elongation (%):** 300

**UV Resistance:** Excellent

FEP is a Fluoropolymer compound with exceptional dielectric properties, heat resistance, chemical resistance, and flexibility. Commonly used in winding wires, UL AWM wires, and cable jacketing.

### Insulated Wire Information:

Part Number	AWG	Conductor OD		Insulated Wire OD		Weight LB/KFT
		Inches	MM	Inches	MM	
T10A37FXXX-3	10(37/26)	0.1070	2.718	0.1250	3.175	32.01
T12A19FXXX-3	12(19/25)	0.0862	2.189	0.1042	2.647	21.37
T14A19FXXX-3	14(19/27)	0.0679	1.725	0.0859	2.182	13.88
T16A01FXXX-3	16	0.0508	1.290	0.0688	1.748	9.42
T16A19FXXX-3	16(19/29)	0.0539	1.369	0.0719	1.826	9.19
T18A01FXXX-3	18	0.0403	1.024	0.0583	1.481	6.25
T18A19FXXX-3	18(19/30)	0.0476	1.209	0.0656	1.666	7.40
T20A01FXXX-3	20	0.0320	0.813	0.0500	1.270	4.20
T20A19FXXX-3	20(19/32)	0.0385	0.978	0.0565	1.435	5.03
T22A01FXXX-3	22	0.0253	0.643	0.0433	1.100	2.87
T22A19FXXX-3	22(19/34)	0.0295	0.749	0.0475	1.207	3.37
T24A01FXXX-3	24	0.0201	0.511	0.0381	0.968	2.01
T24A19FXXX-3	24(19/36)	0.0242	0.615	0.0422	1.072	2.37
T26A01FXXX-3	26	0.0159	0.404	0.0339	0.861	1.44
T26A19FXXX-3	26(19/38)	0.0190	0.483	0.0370	0.940	1.65
T28A01FXXX-3	28	0.0126	0.320	0.0306	0.777	1.06
T28A19FXXX-3	28(19/40)	0.0152	0.386	0.0332	0.843	1.22
T30A01FXXX-3	30	0.0100	0.254	0.0280	0.711	0.82
T32A01FXXX-3	32	0.0080	0.203	0.0260	0.660	0.65

## 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.