

# RUBADUEWIRE

## Reinforced (3 layer) Insulation, Litz wire, Tefzel Insulation

### Product Information

**Temperature Rating:** 155°C

**Insulation:** DuPont ETFE Tefzel®

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

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

IEC 61558-1, 60601-1, 61010-1 (ed.2)

VDE License Nr. 136743: Class F

UL 2601

System Approvals: UL 1446

RXT-2 Class F

TCA Class F

RoHS Compliant

**Conductor:** See below chart for most common conductors.

**Litz options are not limited to the parts in chart**

**Core Diameter:** Size listed below in chart

**OD Size:** Size listed below in chart

**Size fluctuates with variances in litz wire size**

**Voltage:** UL: 1500 V for electronic equipment

UL: 707 V for medical equipment

VDE: 1000 V

### 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	Conductor Information					Insulated Conductor Information	
	Equiv. AWG	Core O.D. (in)	Circular Mils.	No. Strands	AWG of Strands	Nominal O.D (in)	Suggested Operating Frequency
TXXL180/38TXXX-2(MWXX)	13.5	0.0694	2880	180	38	0.0814	50 - 100 khz
TXXL180/38TXXX-3(MWXX)	13.5	0.0694	2880	180	38	0.0874	50 - 100 khz
TXXL15/30TXXX-1.5(MWXX)	16.5	0.0485	1500	15	30	0.0575	1 - 10 khz
TXXL15/30TXXX-2(MWXX)	16.5	0.0485	1500	15	30	0.0605	1 - 10 khz
TXXL15/30TXXX-3(MWXX)	16.5	0.0485	1500	15	30	0.0665	1 - 10 khz
TXXL360/44TXXX-2(MWXX)	15	0.0557	1440	360	44	0.0677	400 - 850 khz
TXXL360/44TXXX-3(MWXX)	15	0.0557	1440	360	44	0.0737	400 - 850 khz
TXXL19/36TXXX-2(MWXX)	21.5	0.0281	475	19	36	0.0401	20 - 50 khz
TXXL19/36TXXX-3(MWXX)	21.5	0.0281	475	19	36	0.0461	20 - 50 khz
TXXL35/38TXXX-2(MWXX)	21	0.0306	560	35	38	0.0426	50 - 100 khz
TXXL35/38TXXX-3(MWXX)	21	0.0306	560	35	38	0.0486	50 - 100 khz
TXXL07/30TXXX-1.5(MWXX)	20	0.0331	700	7	30	0.0421	1 - 10 khz
TXXL07/30TXXX-2(MWXX)	20	0.0331	700	7	30	0.0451	1 - 10 khz
TXXL230/44TXXX-2(MWXX)	17	0.0445	920	230	44	0.0565	400 - 850 khz
TXXL230/44TXXX-3(MWXX)	17	0.0445	920	230	44	0.0625	400 - 850 khz
TXXL40/40TXXX-1.5(MWXX)	22	0.0254	385	40	40	0.0344	100 - 200 khz
TXXL40/40TXXX-2(MWXX)	22	0.0254	385	40	40	0.0374	100 - 200 khz
TXXL07/32TXXX-1.5(MWXX)	21.5	0.0267	448	7	32	0.0357	10 khz
TXXL07/32TXXX-2(MWXX)	21.5	0.2670	448	7	32	0.0387	10 khz
TXXL19/40TXXX-1.5(MWXX)	25.5	0.0175	183	19	40	0.0265	100 - 200 khz
TXXL19/40TXXX-2(MWXX)	25.5	0.0175	183	19	40	0.0295	100 - 200 khz
TXXL05/32TXXX-1.5(MWXX)	23	0.0226	320	5	32	0.0316	10 khz
TXXL05/32TXXX-2(MWXX)	23	0.0226	320	5	32	0.0346	10 khz
TXXL16/44TXXX-1.5(MWXX)	30	0.0101	64	16	44	0.0191	400 - 850 khz

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## Bare Core Wire Specifications:

### **POLY-NYLON**

(Class 155) (MW-80C)

The litz core wire consists of nylon enamel film over a polyurethane enamel base coat. The nylon improves cut through temperature, windability, resistance to abrasion, and resistance to chemicals and solvents without a change to the soldering properties. Because of these properties, this insulation is preferred on 30awg and larger when a solderable film is required.