

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

### Product Information

**Temperature Rating:** 155°C

**Insulation:** 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

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:** 1000 V

### 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	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
TXXL350/38FXXX-2(MWXX)	12	0.0950	5600	350	38	0.1070	400 - 850 khz
TXXL350/38FXXX-3(MWXX)	12	0.0950	5600	350	38	0.1130	400 - 850 khz
TXXL825/44FXXX-2(MWXX)	11	0.0844	3300	825	44	0.0964	400 - 850 khz
TXXL825/44FXXX-3(MWXX)	11	0.0844	3300	825	44	0.1024	400 - 850 khz
TXXL120/38FXXX-2(MWXX)	15	0.0567	1920	120	38	0.0687	50 - 100 khz
TXXL120/38FXXX-3(MWXX)	15	0.0567	1920	120	38	0.0747	50 - 100 khz
TXXL550/44FXXX-2(MWXX)	13	0.0689	2200	550	44	0.0809	440 - 850 khz
TXXL550/44FXXX-3(MWXX)	13	0.0689	2200	550	44	0.0869	440 - 850 khz
TXXL66/38FXXX-2(MWXX)	18	0.0420	1056	66	38	0.0540	50 - 100 khz
TXXL66/38FXXX-3(MWXX)	18	0.0420	1056	66	38	0.0600	50 - 100 khz
TXXL108/40FXXX-2(MWXX)	18.5	0.0418	1038	108	40	0.0538	100 - 200 khz
TXXL108/40FXXX-3(MWXX)	18.5	0.0418	1038	108	40	0.0598	100 - 200 khz
TXXL360/44FXXX-2(MWXX)	15	0.0557	1440	360	44	0.0677	400 - 850 khz
TXXL360/44FXXX-3(MWXX)	15	0.0557	1440	360	44	0.0737	400 - 850 khz
TXXL07/28FXXX-2(MWXX)	18	0.0413	1110	7	28	0.0533	60 Hz - 1 khz
TXXL07/28FXXX-3(MWXX)	18	0.0413	1110	7	28	0.0593	60 Hz - 1 khz
TXXL19/36FXXX-2(MWXX)	21.5	0.0281	475	19	36	0.0401	20 - 50 khz
TXXL19/36FXXX-3(MWXX)	21.5	0.0281	475	19	36	0.0461	20 - 50 khz
TXXL230/44FXXX-2(MWXX)	17	0.0445	920	230	44	0.0565	400 - 850 khz
TXXL230/44FXXX-3(MWXX)	17	0.0445	920	230	44	0.0625	400 - 850 khz
TXXL19/34FXXX-2(MWXX)	19.5	0.0351	755	19	34	0.0471	20 khz
TXXL19/34FXXX-3(MWXX)	19.5	0.0351	755	19	34	0.0531	20 khz
TXXL40/40FXXX-2(MWXX)	22	0.0254	385	40	40	0.0374	100 - 200 khz
TXXL07/32FXXX-2(MWXX)	24	0.0267	448	7	32	0.0387	10 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.