

# RUBADUEWIRE

## Basic (1 layer) Insulation, Litz wire, FEP Insulation

### Product Information

**Temperature Rating:** 155°C

**Insulation:** FEP

**Compliances:** UL OBJT2 File No. E206198  
 UL 60950-1 (Ed. 2), Annex U  
 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:** 600 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
SXXL825/44FX-3(MWXX)	11	0.0844	3300	825	44	0.0904	400 - 850 khz
SXXL120/38FX-2(MWXX)	15	0.0567	1920	120	38	0.0607	50 - 100 khz
SXXL120/38FX-3(MWXX)	15	0.0567	1920	120	38	0.0627	50 - 100 khz
SXXL550/44FX-2(MWXX)	13	0.0689	2200	550	44	0.0729	400 - 850 khz
SXXL550/44FX-3(MWXX)	13	0.0689	2200	550	44	0.0749	400 - 850 khz
SXXL100/38FX-2(MWXX)	16	0.0518	1600	100	38	0.0558	50 - 100 khz
SXXL100/38FX-3(MWXX)	16	0.0518	1600	100	38	0.0578	50 - 100 khz
SXXL07/28FX-2(MWXX)	18	0.0413	1110	7	28	0.0453	60 hz - 1 khz
SXXL07/28FX-3(MWXX)	18	0.0413	1110	7	28	0.0473	60 hz - 1 khz
SXXL66/38FX-2(MWXX)	18	0.0420	1056	66	38	0.0460	50 - 100 khz
SXXL66/38FX-3(MWXX)	18	0.0420	1056	66	38	0.0480	50 - 100 khz
SXXL360/44FX-2(MWXX)	15	0.0557	1440	360	44	0.0597	400 - 850 khz
SXXL360/44FX-3(MWXX)	15	0.0557	1440	360	44	0.0617	400 - 850 khz
SXXL20/34FX-2(MWXX)	19	0.0360	794	20	34	0.0400	20 khz
SXXL20/34FX-3(MWXX)	19	0.0360	794	20	34	0.0420	20 khz
SXXL07/30FX-2(MWXX)	20	0.0331	700	7	30	0.0371	1 - 10 khz
SXXL07/30FX-3(MWXX)	20	0.0331	700	7	30	0.0391	1 - 10 khz
SXXL19/36FX-2(MWXX)	21.5	0.0281	475	19	36	0.0321	20 - 50 khz
SXXL19/36FX-3(MWXX)	21.5	0.0281	475	19	36	0.0341	20 - 50 khz
SXXL07/32FX-2(MWXX)	21.5	0.0267	448	7	32	0.0307	10 khz
SXXL07/32FX-3(MWXX)	21.5	0.0267	448	7	32	0.0327	10 khz
SXXL40/40FX-2(MWXX)	22	0.0254	385	40	40	0.0294	100 - 200 khz
SXXL230/44FX-2(MWXX)	17	0.0445	920	230	44	0.0485	400 - 850 khz
SXXL230/44FX-3(MWXX)	17	0.0445	920	230	44	0.0505	400 - 850 khz

## 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.