

**Factory
Mutual
System**

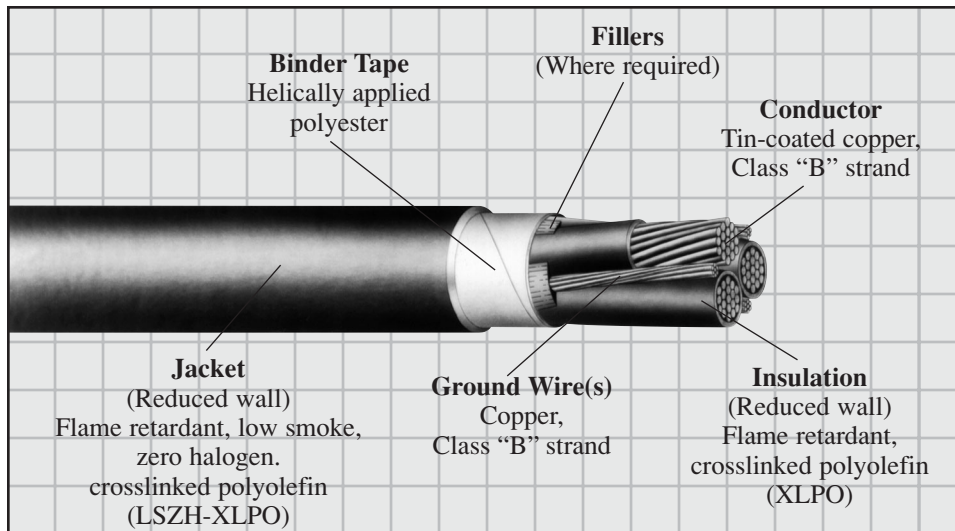
X-Link[®] TC

Power Cable

(XLPO/LSZH-XLPO)

90°C*, 600 Volt
NEC Type TC
UL Listed

Spec. RSS-3-089



Scope

X-Link[®] TC is the smallest diameter, thermoset, UL listed, Type TC power cable available in the industry today. X-Link[®] TC is 20% to 30% smaller in diameter than standard power cable. It may be installed in wet and dry locations, indoors and outdoors, in metal

trays, conduits, ducts, or in direct burial applications. It is ideal for applications in substations, cogeneration, waste/energy, petrochemical and industrial facilities to perform a variety of low voltage power, lighting and related functions.

Features

- Thermoset insulation and jacket for enhanced thermal stability
- Small diameter & light weight
- Economical
- More cables per tray or conduit
- Flame retardant
- Flexible
- Heat, sunlight, oil and abrasion resistant
- Easily pulled (low friction jacket)
- Tin-coated conductors for improved terminations and corrosion resistance
- Jackets have printed sequential footage markers for improved inventory control
- Jacket strippability facilitates termination
- Reduced halogen design
- Low smoke jacket
- Lead free jacket
- Superior insulation and jacket moisture resistance

Performance Standards

- UL listed, Type TC (UL 1277) in accordance with the NEC
- UL listed for direct burial and sunlight
- Factory Mutual Research Corp. group "1" fire rated per "Specification Test Standard for Cable Fire Propagation, Class 3972"
- Passes IEEE-383 1974 70,000 BTU/hr vertical tray flame test and ICEA 70,000 BTU/hr vertical tray flame test (T-30-520)
- Single conductors pass UL VW-1 flame test
- Single conductors in accordance with performance requirements of ICEA S-95-658 and UL 44., Class XL
- Jacket exceeds the requirements of UL Class XL/90°C and ICEA Publication T-33-655, Type II
- UL approved for 90°C operation in both wet and dry locations
- Cable components are in compliance with the maximum leachable lead level required by the EPA in 40CFR, Part 261

Construction

Conductor:

Annealed, tin-coated copper, Class "B" strand (ASTM B-8 & B-33)

Insulation:

Flame retardant crosslinked polyolefin meeting performance requirements of ICEA S-95-658 and UL 44 Class XL

Circuit Identification:

Printed numbers per ICEA Method 4

Ground Wire(s):

Annealed copper, Class "B" strand, sized to comply with UL-1277 requirements

Fillers:

(Where required)

Binder Tape:

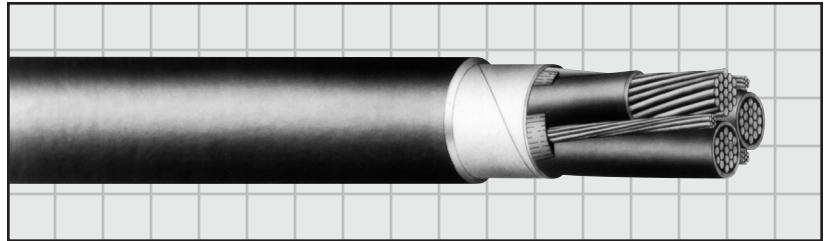
Helically applied polyester

Jacket:

Reduced wall, black, flame retardant, low smoke, zero halogen, crosslinked polyolefin jacket

* Rated 90°C for normal operation in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

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Three Conductors

Product Code	Conductor Size	Number of Strands	Insulation Thickness		No. & Size of Ground Wires	Jacket Thickness (Mils)	Nominal Overall Diameter		Approximate Net Weight (Lbs/M')
			(Inch)	(mm)			(Inch)	(mm)	
P92-0143	14 AWG	7	.020	.51	3-18 AWG	35	.32	8.13	85
P92-0123	12 AWG	7	.020	.51	3-16 AWG	35	.36	9.14	125
P92-0113	10 AWG	7	.020	.51	3-14 AWG	35	.41	10.41	185
P92-0083	8 AWG	7	.030	.76	3-14 AWG	45	.54	13.72	275
P92-0063	6 AWG	7	.030	.76	3-12 AWG	45	.62	15.75	410
P92-0043	4 AWG	7	.035	.89	3-12 AWG	45	.74	18.80	585
P92-0023	2 AWG	7	.035	.89	3-10 AWG	65	.91	23.11	915
P92-0013	1 AWG	19	.045	1.14	3-10 AWG	65	1.04	26.42	1125
P92-0103	1/0 AWG	19	.045	1.14	3-10 AWG	65	1.12	28.45	1355
P92-0203	2/0 AWG	19	.045	1.14	3-10 AWG	65	1.22	30.99	1630
P92-0303	3/0 AWG	19	.045	1.14	3-8 AWG	65	1.33	33.78	2055
P92-0403	4/0 AWG	19	.045	1.14	3-8 AWG	65	1.45	36.83	2485

Four Conductors

P92-0144	14 AWG	7	.020	.51	3-18 AWG	35	.35	8.89	105
P92-0124	12 AWG	7	.020	.51	4-18 AWG	35	.40	10.16	150
P92-0114	10 AWG	7	.020	.51	4-16 AWG	35	.45	11.43	220
P92-0084	8 AWG	7	.030	.76	2-12 AWG	45	.60	15.24	350
P92-0064	6 AWG	7	.030	.76	2-10 AWG	45	.69	17.53	515
P92-0044	4 AWG	7	.035	.89	2-10 AWG	65	.86	21.84	785
P92-0024	2 AWG	7	.035	.89	2-8 AWG	65	1.01	25.65	1170
P92-0014	1 AWG	19	.045	1.14	2-8 AWG	65	1.15	29.21	1445
P92-0104	1/0 AWG	19	.045	1.14	2-8 AWG	65	1.24	31.50	1745
P92-0204	2/0 AWG	19	.045	1.14	2-8 AWG	65	1.35	34.29	2125

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