

**Factory
Mutual
System**

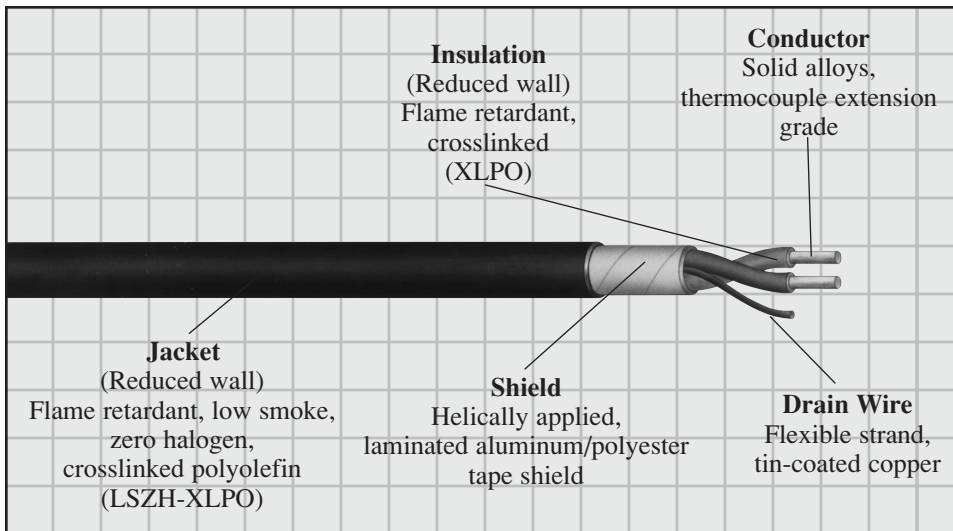
X-Link® TC

Thermocouple Extension Cable

Single Pair Shielded
(XLPO/LSZH-XLPO)

90°C*, 600 Volt
NEC Type TC
UL Listed

Spec. RSS-3-089



Scope

X-Link® TC is the smallest thermoset, UL listed, 600 volt Type TC Thermocouple Extension cable available in the industry today. X-Link® TC is 30% to 40% smaller in diameter than standard 600 volt cable. It may be installed in metal trays, ducts, conduits, or in

direct burial applications. It is ideal for applications in substations, cogeneration, waste/energy and industrial facilities. *Designed for use on circuits where shielding from external electrostatic interference is required.*

Features

- Thermoset insulation and jacket for enhanced thermal stability
- Small diameter & light weight
- Economical
- More cables per tray or conduit
- 600 volt rating allows cables to be run in trays without separation (300 vs 600 volt)
- Flame retardant
- Flexible
- Heat, sunlight, oil and abrasion resistant
- Easily pulled (low friction jacket)
- 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 sunlight resistance
- 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-75-658 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:

Solid alloys per ANSI MC 96.1 (Extension Grade, standard limits of error)

Insulation:

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

Pair Assembly:

Two insulated conductors twisted with a flexible strand, tin-coated copper drain wire and a helically applied aluminum/polyester laminated tape shield

Circuit Identification:

Individual pair single conductors color coded to ANSI requirements by means of pigmented insulation

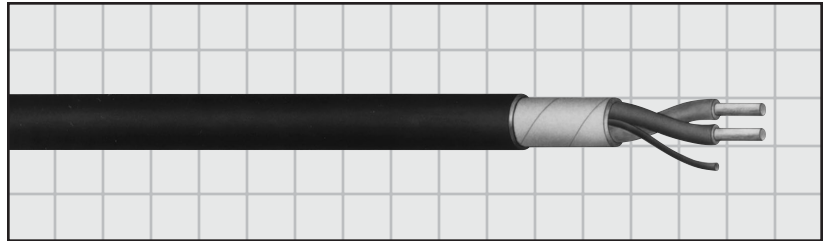
Jacket:

Reduced wall, black, flame retardant, low smoke, zero halogen, crosslinked polyolefin jacket (Note: colored jackets are not available)

† 2/C #16 and larger

* 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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Single Shielded Pair - 16 AWG, Solid

Product Code	Conductor Type	Insulation Thickness		Insulated Conductor Diameter (Inch)	Drain Wire Size/ Stranding	Jacket Thickness (Mils)	Nominal Overall Diameter		Approximate Net Weight (Lbs/M')
		(Inch)	(mm)				(Inch)	(mm)	
I85-3000	JX	.020	.51	.09	18 AWG (16/s)	35	.26	6.60	40
I85-3001	EX	.020	.51	.09	18 AWG (16/s)	35	.26	6.60	40
I85-3002	KX	.020	.51	.09	18 AWG (16/s)	35	.26	6.60	40
I85-3003	TX	.020	.51	.09	18 AWG (16/s)	35	.26	6.60	40

Single Shielded Pair - 18 AWG, Solid

I86-3000	JX	.020	.51	.08	20 AWG (10/s)	35	.24	6.10	35
I86-3001	EX	.020	.51	.08	20 AWG (10/s)	35	.24	6.10	35
I86-3002	KX	.020	.51	.08	20 AWG (10/s)	35	.24	6.10	35
I86-3003	TX	.020	.51	.08	20 AWG (10/s)	35	.24	6.10	35