

**Factory
Mutual
System**

X-Link® TC

Instrumentation Cable

Multi-Unshielded Pairs

With Overall Shield

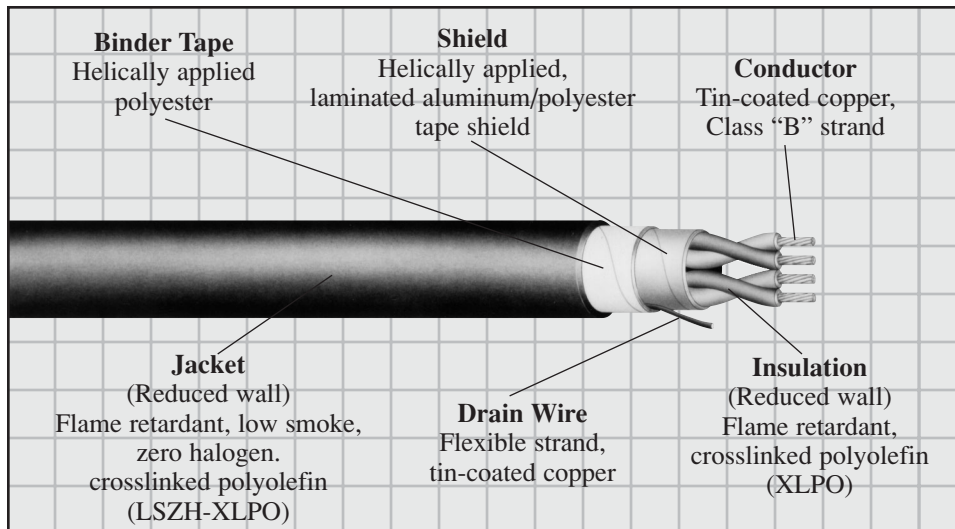
(XLPO/LSZH-XLPO)

90°C*, 600 Volt

NEC Type TC

UL Listed

Spec. RSS-3-089



Scope

X-Link® TC is the smallest thermoset, UL listed, Type TC Instrumentation 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 wet and dry locations, indoors and outdoors, in metal trays, ducts, conduits, or in direct burial applications. It is ideal for applications in substations, cogeneration, waste/energy and industrial facilities to perform a variety of signaling, data acquisition and monitoring functions. *Designed for use on circuits where shielding from external electrostatic interference is required but shielding between pairs is not critical.*

Construction

Conductor:

Tin-coated copper conductors, Class "B" strand (ASTM B-8 & B-33)

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

Cabling:

Required number of pairs cabled

Circuit Identification:

One black & one red insulated single conductor in each pair with printed pair numbers on both singles for pair identification (alternate methods also available)

Fillers:

(Where required)

Shield System:

Helically applied aluminum/polyester laminated tape shield in continuous contact with flexible strand, tin-coated copper drain wire

Binder Tape:

Helically applied polyester

Jacket:

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

† 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.

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)
- 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 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-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

X-Link® TC Instrumentation Cable

Multi-Unshielded Pairs

With Overall Shield

(XLPO/LSZH-XLPO)

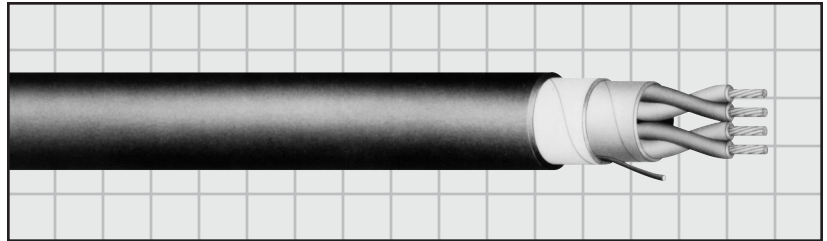
90°C*, 600 Volt

NEC Type TC

UL Listed

Spec. RSS-3-089

**Factory
Mutual
System**



16 AWG, 7 Strand

Product Code	Number of Pairs	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)	
I83-0025	2	.020	.51	.10	18 AWG (16/s)	35	.41	10.41	75
I83-0035	3	.020	.51	.10	18 AWG (16/s)	35	.44	11.18	100
I83-0045	4	.020	.51	.10	18 AWG (16/s)	35	.51	12.95	145
I83-0055	5	.020	.51	.10	18 AWG (16/s)	45	.57	14.48	185
I83-0075	7	.020	.51	.10	18 AWG (16/s)	45	.62	15.75	235
I83-0085	8	.020	.51	.10	18 AWG (16/s)	45	.67	17.02	265
I83-0095	9	.020	.51	.10	18 AWG (16/s)	45	.73	18.54	295
I83-0125	12	.020	.51	.10	18 AWG (16/s)	65	.86	21.84	410
I83-0155	15	.020	.51	.10	18 AWG (16/s)	65	.95	24.13	495
I83-0195	19	.020	.51	.10	18 AWG (16/s)	65	1.00	25.40	595
I83-0375	37	.020	.51	.10	18 AWG (16/s)	65	1.33	33.78	1065

18 AWG, 7 Strand

I84-0025	2	.020	.51	.09	20 AWG (10/s)	35	.37	9.40	60
I84-0035	3	.020	.51	.09	20 AWG (10/s)	35	.40	10.16	75
I84-0045	4	.020	.51	.09	20 AWG (10/s)	35	.46	11.68	110
I84-0055	5	.020	.51	.09	20 AWG (10/s)	35	.50	12.70	125
I84-0075	7	.020	.51	.09	20 AWG (10/s)	45	.56	14.22	175
I84-0085	8	.020	.51	.09	20 AWG (10/s)	45	.60	15.24	195
I84-0095	9	.020	.51	.09	20 AWG (10/s)	45	.65	16.51	215
I84-0125	12	.020	.51	.09	20 AWG (10/s)	45	.73	18.54	275
I84-0155	15	.020	.51	.09	20 AWG (10/s)	45	.81	20.57	330
I84-0195	19	.020	.51	.09	20 AWG (10/s)	65	.89	22.61	435
I84-0375	37	.020	.51	.09	20 AWG (10/s)	65	1.19	30.23	765

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