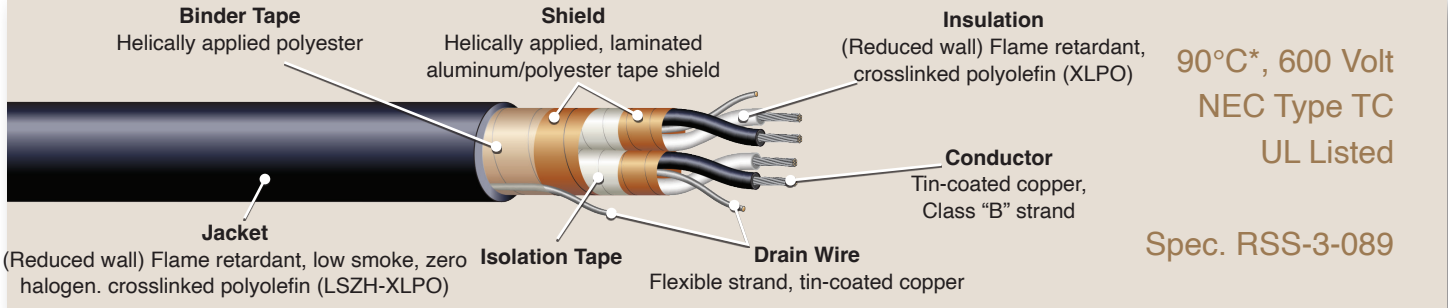


# X-Link® TC

## Instrumentation Cable

Multi-Shielded Pairs With Overall Shield (XLPO/LSZH-XLPO)



### 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)
- Extremely 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

### 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 complete isolation is required between pairs and from external interference.*

### Performance Standards

- UL listed, Type TC (UL 1277) in accordance with the NEC
- UL listed sunlight resistance
- Passes IEEE 383-1974 70,000 BTU/hr vertical flame test as modified by NRC Reg. Guide 1.131
- Passes ICEA T-30-520 70,000 BTU/hr vertical flame test
- Cable constructions comply with IEEE 1202 70,000 BTU/hr vertical flame test
- 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:** Tin-coated copper conductors, Class "B" strand (ASTM B8 & B33)

**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, a helically applied aluminum/polyester laminated tape shield and an isolation tape

**Cabling:** Required number of pairs cabled

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

**Fillers:** As applicable

**Overall Shield System:** Helically applied aluminum/polyester laminated tape shield in continuous contact with a 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

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

# X-Link® TC

## Instrumentation Cable

Multi-Shielded Pairs With Overall Shield (XLPO/LSZH-XLPO)



90°C\*, 600 Volt  
NEC Type TC  
UL Listed

Spec. RSS-3-089

### 16 AWG, 7 Strand

Product Code	Number of Conductor 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)	
I83-0024	2	.020	.51	.10	18 AWG (16/s)	35	.45	11.43	95
I83-0034	3	.020	.51	.10	18 AWG (16/s)	35	.48	12.19	125
I83-0044	4	.020	.51	.10	18 AWG (16/s)	45	.57	14.48	190
I83-0054	5	.020	.51	.10	18 AWG (16/s)	45	.62	15.75	225
I83-0074	7	.020	.51	.10	18 AWG (16/s)	45	.68	17.27	290
I83-0084	8	.020	.51	.10	18 AWG (16/s)	45	.73	18.54	330
I83-0094	9	.020	.51	.10	18 AWG (16/s)	45	.79	20.07	365
I83-0124	12	.020	.51	.10	18 AWG (16/s)	65	.93	23.62	505
I83-0154	15	.020	.51	.10	18 AWG (16/s)	65	1.03	26.16	610
I83-0194	19	.020	.51	.10	18 AWG (16/s)	65	1.08	27.43	740
I83-0374	37	.020	.51	.10	18 AWG (16/s)	65	1.45	36.83	1340

### 18 AWG, 7 Strand

Product Code	Number of Conductor 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)	
I84-0024	2	.020	.51	.09	20 AWG (10/s)	35	.41	10.41	70
I84-0034	3	.020	.51	.09	20 AWG (10/s)	35	.43	10.92	95
I84-0044	4	.020	.51	.09	20 AWG (10/s)	35	.49	12.45	130
I84-0054	5	.020	.51	.09	20 AWG (10/s)	45	.56	14.22	169
I84-0074	7	.020	.51	.09	20 AWG (10/s)	45	.61	15.49	215
I84-0084	8	.020	.51	.09	20 AWG (10/s)	45	.66	16.76	240
I84-0094	9	.020	.51	.09	20 AWG (10/s)	45	.71	18.03	265
I84-0124	12	.020	.51	.09	20 AWG (10/s)	45	.80	20.32	340
I84-0154	15	.020	.51	.09	20 AWG (10/s)	65	.92	23.37	450
I84-0194	19	.020	.51	.09	20 AWG (10/s)	65	.97	24.64	540
I84-0374	37	.020	.51	.09	20 AWG (10/s)	65	1.30	33.02	965

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



Made in the USA



Marmon Electrical  
A Berkshire Hathaway Company