

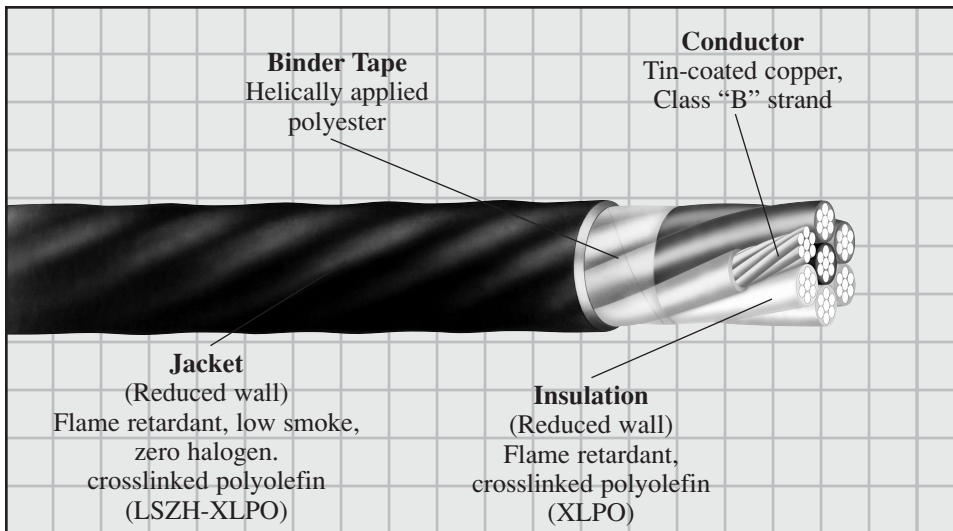
**Factory  
Mutual  
System**

## X-Link® TC

Control 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 control cable available in the industry today. X-Link® TC is 30% to 40% smaller in diameter than standard control 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 airport and urban people mover systems to perform a variety of control 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:

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

### Circuit Identification:

Colored insulation per ICEA Method 1, Table K-2\*\*

### Fillers:

(Where required)

### Binder Tape:

Helically applied polyester

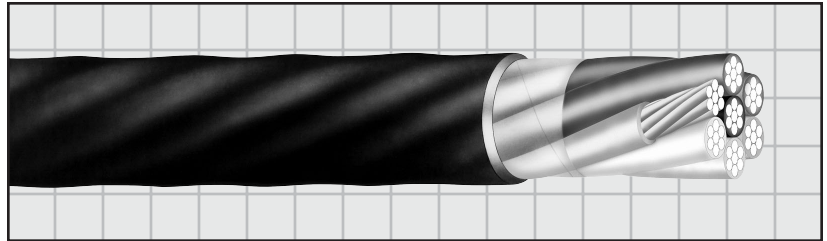
### Jacket:

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.

\*\* Also available in K-1 color identification

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## 14 AWG, 7 Strand

Product Code	Number of Conductors	Insulation Thickness		Insulated Conductor Diameter (Inch)	Jacket Thickness (Mils)	Nominal Overall Diameter		Approximate Net Weight (Lbs/M')
		(Inch)	(mm)			(Inch)	(mm)	
C14-0020	2	.020	.51	.12	35	.31	7.87	55
C14-0030	3	.020	.51	.12	35	.33	8.38	75
C14-0040	4	.020	.51	.12	35	.36	9.14	95
C14-0050	5	.020	.51	.12	35	.39	9.91	115
C14-0070	7	.020	.51	.12	35	.42	10.67	150
C14-0090	9	.020	.51	.12	35	.49	12.45	195
C14-0120	12	.020	.51	.12	45	.58	14.73	255
C14-0190	19	.020	.51	.12	45	.67	17.02	385
C14-0250	25	.020	.51	.12	45	.78	19.81	525
C14-0370	37	.020	.51	.12	65	.93	23.62	745

## 12 AWG, 7 Strand

C12-0020	2	.020	.51	.14	35	.35	8.89	75
C12-0030	3	.020	.51	.14	35	.37	9.40	105
C12-0040	4	.020	.51	.14	35	.40	10.16	130
C12-0050	5	.020	.51	.14	35	.44	11.18	160
C12-0070	7	.020	.51	.14	35	.48	12.19	215
C12-0090	9	.020	.51	.14	45	.58	14.73	285
C12-0120	12	.020	.51	.14	45	.65	16.51	365
C12-0190	19	.020	.51	.14	45	.76	19.30	555
C12-0250	25	.020	.51	.14	65	.97	24.64	775
C12-0370	37	.020	.51	.14	65	1.08	27.43	1100

## 10 AWG, 7 Strand

C10-0020	2	.020	.51	.16	35	.39	9.91	105
C10-0030	3	.020	.51	.16	35	.42	10.67	145
C10-0040	4	.020	.51	.16	35	.46	11.68	190
C10-0050	5	.020	.51	.16	35	.50	12.70	235
C10-0070	7	.020	.51	.16	45	.57	14.48	320
C10-0090	9	.020	.51	.16	45	.67	17.02	430
C10-0120	12	.020	.51	.16	45	.76	19.30	545
C10-0190	19	.020	.51	.16	65	.92	23.37	855
C10-0250	25	.020	.51	.16	65	1.08	27.43	1125
C10-0370	37	.020	.51	.16	65	1.25	31.75	1620

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