

**Factory
Mutual
System**

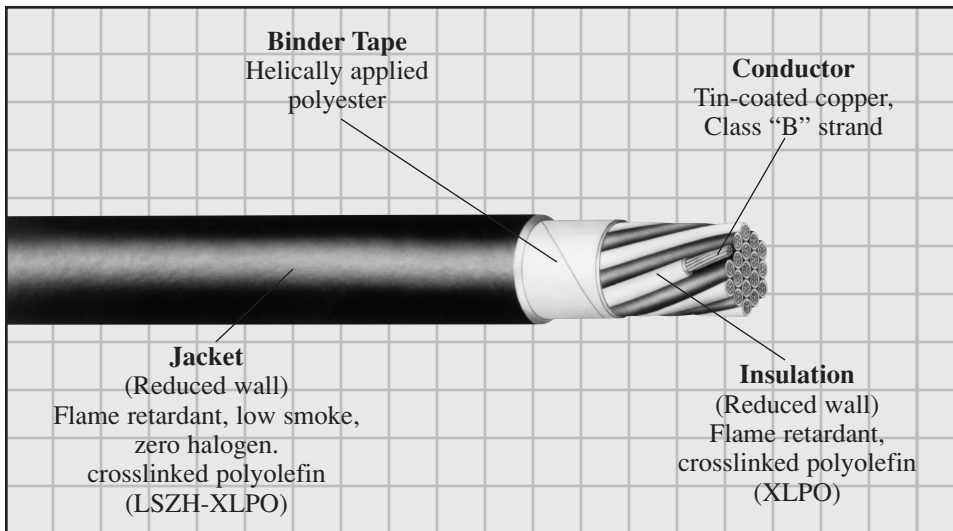
X-Link[®] TC

Instrumentation Cable

Multi-Conductor
Unshielded
(XLPO/LSZH-XLPO)

90°C*, 600 Volt
NEC Type TC
UL Listed

Spec. RSS-3-089



Binder Tape
Helically applied
polyester

Conductor
Tin-coated copper,
Class "B" strand

Jacket
(Reduced wall)

Flame retardant, low smoke,
zero halogen.
crosslinked polyolefin
(LSZH-XLPO)

Insulation
(Reduced wall)
Flame retardant,
crosslinked polyolefin
(XLPO)

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 not 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)
- 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

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-66-524 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.

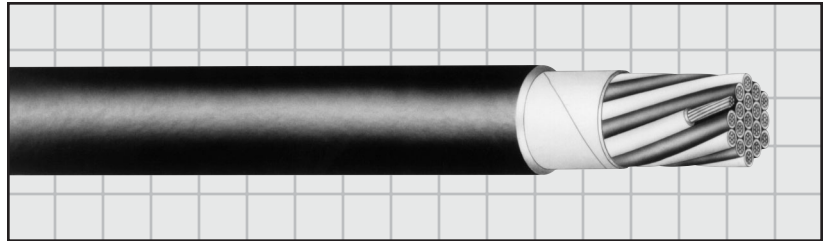
** Also available in K-1 color identification

† 2/C #16 and larger

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Spec. RSS-3-089



16 AWG, 7 Strand

Product Code K-2	K-1	Number of Conductors	Insulation Thickness		Insulated Conductor Diameter (Inch)	Jacket Thickness (Mils)	Nominal Overall Diameter		Approximate Net Weight (Lbs/M')
			(Inch)	(mm)			(Inch)	(mm)	
I83-0020	I83-0022	2	.020	.51	.10	35	.27	6.86	40
I83-0030	I83-0032	3	.020	.51	.10	35	.29	7.37	55
I83-0040	I83-0042	4	.020	.51	.10	35	.31	7.87	65
I83-0050	I83-0052	5	.020	.51	.10	35	.34	8.64	80
I83-0070	I83-0072	7	.020	.51	.10	35	.37	9.40	105
I83-0090	I83-0092	9	.020	.51	.10	35	.43	10.92	130
I83-0120	I83-0122	12	.020	.51	.10	35	.48	12.19	170
I83-0150	I83-0152	15	.020	.51	.10	45	.56	14.22	220
I83-0190	I83-0192	19	.020	.51	.10	45	.59	14.99	270
I83-0270	I83-0272	27	.020	.51	.10	45	.70	17.78	370
I83-0370	I83-0372	37	.020	.51	.10	45	.78	19.81	490

18 AWG, 7 Strand

I84-0020	I84-0022	2	.020	.51	.09	35	.25	6.35	30
I84-0030	I84-0032	3	.020	.51	.09	35	.26	6.60	40
I84-0040	I84-0042	4	.020	.51	.09	35	.29	7.37	50
I84-0050	I84-0052	5	.020	.51	.09	35	.31	7.87	60
I84-0070	I84-0072	7	.020	.51	.09	35	.34	8.64	75
I84-0090	I84-0092	9	.020	.51	.09	35	.39	9.91	95
I84-0120	I84-0122	12	.020	.51	.09	35	.43	10.92	125
I84-0150	I84-0152	15	.020	.51	.09	35	.48	12.19	150
I84-0190	I84-0192	19	.020	.51	.09	45	.53	13.46	195
I84-0270	I84-0272	27	.020	.51	.09	45	.63	16.00	265
I84-0370	I84-0372	37	.020	.51	.09	45	.70	17.78	350

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