

C-L-X® Type P-OS

Type ITC/PLTC Armored Thermoset



Instrumentation Cable

Single Pair or Triad - Overall Shield — 300 Volts - 90°C Rating

For Cable Tray Use

Specifications

Conductors: Bare soft annealed copper, Class B, 7-strand concentric per ASTM B-8.

Insulation: X-Olene (XLP), UL 13 and UL 2250, 15 mils nominal thickness, 90°C temperature rating.

Conductor Identification: Pigmented black and white in pairs, black, red and white in triads.

Assembly: Pair or triad assembled with left-hand

Cable Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a #18 AWG 7-strand tinned copper drain wire.

Inner Jacket: Black, flame-retardant Okoseal (PVC) per UL 13 and UL 2250. A rip cord is laid longitudinally under the jacket to facilitate re-

C-L-X Sheath: A close-fitting, impervious, continuously welded and corrugated aluminum sheath provides complete protection against moisture, liquids, and gases, has excellent mechanical strength and provides equipment grounding through the sheath.

Outer Jacket: Black, flame-retardant low temperature PVC Okoseal per UL Subject 13 and UL 2250.

Classifications

UL Listed as ITC/PLTC — Instrument Tray Cable/Power Limited Tray Cable for use in accordance with Article 335 and Article 722 of the 2023 National Electrical Code.

These cables comply with UL 2250 for ITC and UL 13 for PLTC, CL2 and CL3.

Applications

Okonite Type C-L-X P-OS (Pair/Triad - Overall Shield) instrumentation cables are designed for use as instrumentation, process control, and computer cables in ITC non-classified or labeled circuits up to 150 volts and 5 amps (750VA) and in Class 2 or 3 Power-Limited circuits where shielding against external interference is required, but shielding against interference among groups is not required; indoors or outdoors; in wet or dry locations with conductor operating temperatures up to 90°C; in cable trays; in raceways; supported by a messenger wire; under raised floors; for direct burial. Suitable Class I, Division 2, Class II, Division 2, or Class III, Division 1 and Class I, Zone 2 hazardous locations. Also for use as Power-Limited protective signaling cable (FPL) per NEC Article 760.

The C-L-X sheath provides physical protection against mechanical damage. It may be installed in both exposed and concealed work, secured to supports not greater than 6 feet apart.

The overall shield eliminates most of the static interference from the electric field radiated by power cables and other electrical equipment.

Product Features

- Passes the UL 1581, IEEE 383-1974, & IEEE 1202-1991 vertical tray flame tests.
- Passes the 210.000 BTU/hr, vertical tray flame test per ICEA T-29-520
- Recommended for dc applications in wet environments.
- UL listed as sunlight resistant.
- UL listed for direct burial.
- Complete pre-packaged, factory-tested wiring system color coded.
- C-L-X enclosure permits installation in cable tray containing light and power cables without a barrier separator.
- Individual pairs or triads are numbered and color coded for simplified hook-up.
- Excellent noise rejection.
- Impervious, continuous sheath excludes moisture, gases and liquids.
- In addition, the aluminum CLX sheath exceeds the equipment grounding requirements of NEC Articles 250.118 and 250.122, and can be used as the equipment grounding conductor.
- Excellent compression and impact re-
- Lower installed system cost than conduit or EMT systems.
- Suitable for low temperature installation



- A Bare Stranded Copper Conductor
- **B** X-Olene Insulation
- C Twisted Pair/Triads
- D Tinned Stranded Copper Drain Wire
- E Aluminum/Synthetic Polymer Tape
- F Rip Cord
- G Inner Black Okoseal Jacket
- H Impervious, Continuous, Corrugated Aluminum C-L-X Sheath
- J Outer Black Okoseal Jacket

C-L-X Type P-OS Type ITC/PLTC Armored Thermoset Instrumentation Cable Single Pair or Triad - Overall Shield 300V - 90°C Rating

Product DataSection 5: Sheet 4

Conductors: 16 AWG X-Olene Insulation: 15 mils

For Cable Tray Use

Catalog Mundo	ar Munder o	Pairs	of Triads	cket sin	acket O.D.		J.D. Inches	Carles /	x / At.	'A. \	nigo weight
567-93-3801 567-94-3801	1	1	35 35	.26 .28	50 50	.43 .48	.56 .56	.25 .25	133 154	172 193	

† Cross-sectional area for calculation of cable tray fill in accordance with NEC Section 392.22.

Jackets - Optional jacket types available - consult local sales office.

Copper or bronze C-L-X available on special order.

To order C-L-X Type P-NS without the outer Okoseal jacket, change the sixth digit of the catalog number from 3 to 1, for example to order 1 pr. 16 AWG with a bare aluminum C-L-X, the catalog number would be 567-93-1801.

Length Tolerance: Cut lengths of 1000 feet or longer are subject to a tolerance of \pm 10%; less than 1000 feet \pm 15%.