

# C-L-X® Type P-OS

## Type ITC/PLTC Armored Instrumentation Cable

Single Pair or Triad - Overall Shield 300 Volts - 105°C Rating

### For Cable Tray Use

# (ÎL)

### **Specifications**

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

Insulation: Flame-retardant Okoseal® (PVC) per UL 13 and UL 2250, 15 mils nominal thickness, 105°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 lay.

**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 per UL 13 and UL 2250. A rip cord is laid longitudinally under the jacket to facilitate removal.

**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 Okoseal per UL 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 105°C; in cable trays; in raceways; supported by a messenger wire; under raised floors. Suitable Class I, Division 2, and Class I. Zone 2 Class II. Division 2. or Class III, Division 1 and Class I, Zone 2 hazardous locations. Also for use as Power-Limited fire protective signaling cable (FPL) per NEC Article 760. The C-L-X sheath provides physical protection against mechanical damage. It may be

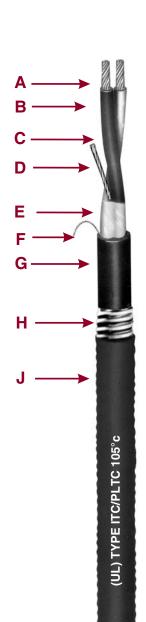
installed in both exposed and concealed work, secured to supports not greater than 6 feet apart.

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

For dc service in wet locations, X-Olene® insulation is recommended.

#### Product Features

- Passes the UL 1581, IEEE 383-1974, and IEEE 1202 vertical tray flame tests.
- Passes the 210,000 BTU/hr vertical tray flame test per ICEA T-29-520.
- UL listed as sunlight resistant.
- 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 color coded for simplified hook-up.
- Maximum 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 resistance.
- Lower installed system cost than conduit or EMT systems.
- Suitable for low temperature installation of -40°C.



- A Bare Stranded Copper Conductor
- **B** Okoseal Insulation
- C Twisted Pair/Triad
- D Tinned Stranded Copper Drain Wire
- E Aluminum/Polyester 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 Instrumentation Cable

Single Pair or Triad - Overall Shield 300V - 105°C Rating For Cable Tray Use





Conductors: 16 AWG Okoseal Insulation: 15 mils

catalog humb	st Hunder of	Pairs	of Triads	A- 1	Jacket O.D. Jacket		Norther North	Cathes /	x / / / /	et s	Weight Wood
▲ 564-10-3401 ▲ 564-15-3401	1	1	35 35	.26 .28	50 50	.43 .43	.54 .54	.25 .25	134 155	173 194	

#### ELECTRICAL SPECIFICATIONS Per UL Standard 13 & 2250

▲ Authorized Stock Item: Available from our Customer Service Center

 $\mbox{\bf †}$  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-OS 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 564-10-1401.

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