C-L-X® Type P-OS
Type ITC/PLTC Armored Thermoset Instrumentation Cable
Multiple Pairs or Triads - 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 Standard 13 and 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 lay.
Communication Wire: 20 AWG solid copper conductor, 15 mils X-Olene, 90°C temperature rating.
Cable Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a 7-strand tinned copper drain wire, same size as conductor.
Inner Jacket: Black, flame-retardant, low temperature Okoseal (PVC) per UL Standard 13 and 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 low temperature Okoseal per UL Standard 13 and 2250.

Classifications
UL Listed as ITC/PLTC — Instrument Tray Cable/Power Limited Tray Cable for use in accordance with Article 727 and Article 725 of the National Electrical Code.
These cables comply with UL 2250 and UL Standard 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 2 hazardous locations. Also for use as Power-Limited fire protective signaling cable (FPL) per NEC Code 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.

Product Features
• 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 Section 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.
• OSHA acceptable.
• UL listed as Marine Shipboard cable.
• Listed by American Bureau of Shipping (ABS) as CWCMC-PLT and CWCMC-ITC.
• Meets API Standards 14F and 14FZ.
• Suitable for low temperature installation to -40°C.
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Multiple Pairs or Triads - Overall Shield — 300V - 90°C Rating
For Cable Tray Use

Conductors: 16 AWG
X-Olene Insulation: 15 mils

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<th>Catalog Number</th>
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<th>Number of Triads</th>
<th>Inner Jacket Thickness - mils</th>
<th>Inner Jacket Nominal O.D. - Inches</th>
<th>Outer Jacket Thickness - mils</th>
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<th>C-L-X O.D. - Inches</th>
<th>Cross-Sectional Area (sq in)</th>
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† Cross-sectional area for calculation of cable tray fill in accordance with NEC Section 392.22.

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 567-93-1801.

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