Specifications

Conductors: Bare soft annealed copper, Class B, 7-strand concentric per ASTM B-8.
Insulation: Flame-retardant Okoseal (PVC) per UL 83, 15 mils nominal thickness, 90°C temperature rating.
Jacket: Nylon per UL 83, 4 mils nominal thickness.
Conductor Identification: Pigmented black and white in pairs; black, white and red in triads.
Assembly: Pairs or triads assembled with left-hand lay. Non-wicking fillers included where required to provide a round cable.
Cable Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a #16 AWG stranded tinned copper drain wire.
Inner Jacket: Black, flame-retardant Okoseal per UL Standard 1569. 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 meeting UL 1569 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 Standard 1569.

Applications

Okonite C-L-X Single pair or triad type P-OS instrumentation cables are designed for use on Class 1 Remote-Control Signaling circuits or where a 600V cable is desired, as instrumentation, process control, or computer cable transmitting signals at levels above 100 milli-volts in circuits where shielding against external interference is required, but shielding against interference among groups is not required. For use indoors or outdoors; wet or dry locations; in cable trays; in raceways; supported by a messenger wire; for direct burial; in Classes I, II, and III, Divisions 1 and 2 hazardous locations.

Applicable Standards

- UL listed for cable tray use, direct burial and sunlight resistant.
- Vertical Tray Flame Tests, IEEE 383-1974, FT4/IEEE 1202, ICEA T-29-520 (210,000 BTU)
- American Bureau of Shipping Type approved as CWCMC Type MC-HL.
- API Standards 14F and 14FZ.
- ASTM B-8.
- OSHA Acceptable
- UL 2225 Type MC-HL
- UL 83
- UL 1309 (CWCMC) Marine Shipboard
- UL 1569
- UL certified as Marine Shipboard in accordance with IEEE 1580, Marine Shipboard Cable rated 600/1000 volts.
- NEC Articles 501, 502, 503, 504 and 505 for Classes I, II and III, Divisions 1 and 2 Hazardous Locations.
- NPLF per NEC Code Article 760.
- CSA C22.2 No. 230 Type TC
- CSA C22.2 No. 239 Type ACIC
- cUL Type ACIC-TC complies with CEC Zone 2, Class II Div 2, Class III Div 1 and Class III Div 2 Hazardous Locations.

For dc service in wet locations, X-Olene insulation is recommended. These cables also comply with UL requirements for Types CL2 and CL3.

Product Features

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.
Impervious, continuous sheath excludes moisture, gases and liquids.
Excellent compression and impact resistance.
Lower installed system cost than conduit or EMT systems.
Suitable for low temperature installation to -40°C.

Product Data

Section 5: Sheet 40

A Bare Stranded Copper Conductor
B Okoseal Insulation/Nylon Jacket
C Twisted, Shielded Pairs/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 Okoseal-N P-OS
UL Type MC-HL and cUL Type ACIC-TC Instrumentation Cable
Single Pair or Triad-Overall Shield
600 Volts 90°C Rating 600/1000V Marine Cable
For Cable Tray Use - Sunlight Resistant - For Direct Burial
Conductors: #16 AWG; Okoseal Insulation: 15 mils; Nylon Jacket: 4 mils

#16 AWG — Single Pair & Triad (P-OS) Type MC-HL

<table>
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<tr>
<th>Catalog Number</th>
<th>Number of Pairs</th>
<th>Number of Triads</th>
<th>Inner Jacket Thickness - mils</th>
<th>Inner Jacket Nominal O.D. - Inches</th>
<th>C-L-X O.D. - Inches</th>
<th>Outer Jacket Thickness, mils</th>
<th>Nominal Cable O.D. - Inches</th>
<th>Cross-Sectional Area * Sq. In.</th>
<th>Net Weight Lbs/1000'</th>
<th>Ship Weight Lbs/1000'</th>
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<td>0.32</td>
<td>182</td>
<td>190</td>
<td>221</td>
</tr>
</tbody>
</table>

ELECTRICAL SPECIFICATIONS

Conductor Resistance, maximum .......................ohms/1000 ft. ..................@20°C @25°C
16 AWG ........................................... 4.34 4.43
Insulation Test Voltage (spark test).................6000 Volts ac
Dielectric Test Voltage ..................................2000 Volts ac.
Shield Isolation Test
Pair to Cable Shield . . . . . . . exceeds 100 Megohms-1000 ft.
Insulation Resistance Constant @60°F minimum
(natural material typical value) . . . . . . 2000 Ohms-1000 ft.
Loop Resistance, nominal (2 conductor).............ohms/1000 ft
............................................................................@20°C @25°C
16 AWG ........................................... 8.68 8.86
Mutual Capacitance (PF/ft.)*
#16 .............................................. 60
*Typical Value

*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 (not "HL" listed), change the sixth digit of the catalog number from 3 to 1, for example to order 1 pr. 20 AWG with a bare aluminum C-L-X, the catalog number would be 564-10-1212.

Length Tolerance: Cut lengths of 1000 ft. or longer are subject to a tolerance of +_10%; less than 1000 ft. +_15%