Okobus C-L-X
Twisted Shielded Single Pair: Type P-OS
Twisted Shielded Multi Pair: Type SP-OS
Type PLTC & Type ITC-HL Fieldbus Cable
Shielded Single Pair or Multiple Shielded Pairs
Overall Shield 300 Volts 90°C Rating

Specifications
Conductors: #18 AWG and #16 AWG tinned copper, Class B, stranded per ASTM B-8.
Insulation: X-Olene (crossed linked polyethylene) per UL 13 and 2250, 32 mils nominal thickness, 90°C temperature rating.
Conductor Identification: Pigmented orange and blue in pairs, orange conductor numerically printed for group identification.
Pair Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a Class B tinned copper drain wire, two sizes smaller than the conductor. All multi-pair shields are isolated from each other.
Multiple Pair Assembly: Twisted pairs assembled with a left-hand lay. Cable fillers included where required to provide a round cable.
Multiple Pair Cable Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a Class B strand tinned copper drain wire, same size as conductor.
Jacket: Orange, flame-retardant, Okoseal per UL 13 and 2250. A rip cord is laid longitudinally under the jacket to facilitate removal.
C-L-X Sheath: A close-fitting, continuously welded and corrugated aluminum sheath providing complete protection against moisture, liquids, and gases, with excellent mechanical strength. It exceeds the equipment grounding requirements of NEC Sections 250.118 and 250.122 and may be used as the equipment grounding conductor in non-HL areas.
Outer Jacket: Orange, flame-retardant, Okoseal per UL 13 and 2250. Meets ASTM D746 brittle point at -40°C.

Applications
C-L-X OKOBUS® cables are designed for use in rugged plant and off-shore marine environments utilizing networked discrete or process automation and control. ITC-HL (Instrument Tray Cable - Hazardous Locations) eliminates the need for conduit when installed in accordance with NEC Article 501.10(A)(1)(4) "ITC-HL" installations. Fully complies with Fieldcom Group FF-844.

The isolated individual shields over each pair, when properly grounded, prevent crosstalk or capacitive coupling between adjacent pairs which occurs with ac signals, particularly the pulse type.
The overall shield eliminates most of the static interference from the electrical field radiated by power cables and other electrical equipment.
The C-L-X sheath provides additional electrical shielding and physical protection against mechanical damage as well as complete protection against moisture or gases entering the cable.

Product Features
- FF-844 Foundation Fieldbus Type A.
- Foundation Fieldbus Registered.
- -40°C to 90°C.
- Passes the UL 13 and IEEE 383 vertical tray flame tests.
- Single pair passes IEEE 1202 vertical tray flame test.
- Sunlight & oil resistant.
- UL listed for direct burial.
- Individual pairs are completely isolated.
- 100% shield coverage for reduced electromagnetic noise pick-up.
- Excellent external noise rejection.
- Excellent weathering characteristics.
- OSHA Acceptable.
- Flexible, easy to handle and terminate.
- C-L-X enclosure permits installation in cable tray containing lighting and power cables without a barrier separator.
- Impervious to moisture, gases and liquids.
- Lower installed cost than conduit or EMT.
- Installation temperature of -40°C or °F.
Okobus C-L-X
Twisted Shielded Single Pair: Type P-OS
Twisted Shielded Multi Pair: Type SP-OS
Type PLTC & Type ITC-HL Fieldbus Cable
Shielded Single Pair or Multiple Shielded Pairs - Overall Shield 300 V 90°C Rating

#18 AWG

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<th>Number of Pairs</th>
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<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>Approx Net Weight (lbs/1000')</th>
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† Cross-sectional area for calculation of cable tray fill in accordance with NEC Section 392.22
▲ Authorized Stock Item: Available from our Customer Service Centers.

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

CHARACTERISTICS

Nominal Characteristic Impedance, Z0, at fr (31.25kHz), nominal..........................100 ohms
Maximum attenuation at 1.25 fr (39 kHz)........................................3.0 dB/km
Maximum capacitive unbalance to shield......................................................2 nF/km
Mutual Capacitance #18 AWG.....................................................30 nF/km
#16 AWG.....................................................65 nF/km
Pair Inductance #18 AWG.....................................................760 mH/km
#16 AWG.....................................................720 mH/km

Maximum DC resistance per conductor
#18 AWG.....................................................22 ohms/km
#16 AWG.....................................................14 ohms/km

Conductor cross-sectional area nominal
#18 AWG.....................................................0.8 mm²
#16 AWG.....................................................1.3 mm²

Drain Wire Maximum DC Resistance
#20 AWG.....................................................35 ohms/km
#18 AWG.....................................................22 ohms/km

Minimum shield coverage..........................100%
Minimum Bend Radius..............................7 x OD

D/20020548A

Ramsey, New Jersey 07446

THE OKONITE COMPANY

-All values at 25°C