



C-L-X[®] X-Olene[®] P-OS

UL Type MC-HL, PLTC, ITC-HL and cUL ACIC-TC Instrumentation Cable
Single Pair/Triads or Multiple Pairs/Triads - Overall Shield

600 Volts 90°C Rating: UL MC-HL and cUL ACIC-TC

300 Volts 90°C Rating: UL PLTC & ITC-HL

For Cable Tray Use Sunlight Resistant For Direct Burial -50°C



- A** Copper Stranded Conductor
- B** X-Olene Insulation
- C** Tin Coated Copper Drain Wire
- D** Polyester Tape
- E** Twisted Pairs
- F** Rip Cord
- G** Inner Okoseal Jacket
- H** Impervious, Continuous, Corrugated Aluminum C-L-X Sheath
- J** Outer Okoseal Jacket

Specifications

Conductors: Bare copper, Class B, stranded per ASTM B8.

Insulation: X-Olene[®] (XLPE), per UL 13, 2250 & 1569, 30 mils nominal thickness, 90°C temperature rating. Meets MIL-DTL-1377H, section 4.8.4.1.2 Cold Bend at -66°C and ASTM D746-04 brittlepoint at -76°C.

Conductor Identification: Pigmented black and white in pairs, black, red and white in triads; white conductor numerically printed for group identification.

Multiple Pair Assembly: Pairs/triads 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 tincoated copper drain wire, same size as conductor.

Inner Jacket: Black, flame-retardant, low temperature Okoseal[®] (PVC) per UL 13 and UL 2250. The inner jacket meets the thickness requirements of UL 1277. 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 13 and UL 2250.

Applications

These cables eliminate the need for conduit. Can be installed as Type PLTC in accordance with Article 722, and as Type ITC in accordance with Article 335 of the 2023 National Electrical Code.

They can also be installed as Type MC-HL and Type ITC-HL in Class I, II, and III, Divisions 1 and 2 hazardous location in accordance with NEC Articles 501, 502, 503, & 505; in Zone 2 per CEC for conductors #14 AWG & larger.

Product Features

Complete pre-packaged, factory-tested wiring system-color coded.

C-L-X enclosure permits installation in cable tray containing lighting and power cables without a barrier separator.

Lower installed system cost than conduit or EMT systems.

Applicable Standards

- UL listed for cable tray use, direct burial, in ducts, and sunlight resistant.
- Vertical Tray Flame Tests; IEEE 383-1974 & FT4/IEEE 1202.
- UL listed at -50°C. Also, meets the CSA 22.2 No.3 Cold Impact Test at -45°C.
- UL 13 Type PLTC & UL 2250 Type ITC.
- UL 2225 Type MC-HL & UL 1569.
- CSA C22.2 No. 230 Type TC.
- CSA C22.2 No. 239 type ACIC.
- cUL listed as Type ACIC-TC complies with CEC Zone 2 Hazardous Locations.

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Product Data Section 5: Sheet 49A

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Catalog Number	Number of Pairs	Number of Triads	C-L-X O.D. Inches	Jacket Thickness mils	Nominal Cable O.D. - Inches	Cross-Sectional Area † (sq in)	Approx Net Weight (lbs/1000')	Approx Ship Weight (lbs/1000')
#18 Copper								
567-75-3301	1		0.53	50	0.64	0.32	162	183
567-75-3302	2		0.71	50	0.82	0.53	236	273
567-75-3304	4		0.84	50	0.95	0.71	328	386
567-75-3308	8		1.02	50	1.13	1.00	454	521
567-75-3312	12		1.15	50	1.26	1.25	600	694
567-75-3324	24		1.60	60	1.73	2.36	1005	1193
567-75-3336	36		1.87	60	2.00	3.14	1413	1601
567-76-3301	1		0.58	50	0.69	0.37	182	211
567-76-3302	2		0.75	50	0.86	0.58	266	303
567-76-3304	4		0.89	50	1.00	0.78	376	434
567-76-3308	8		1.10	50	1.22	1.16	551	618
567-76-3312	12		1.24	50	1.35	1.42	733	827
567-76-3324	24		1.69	60	1.82	2.60	1249	1437
#16 Copper								
567-75-3401	1		0.58	50	0.69	0.37	182	247
567-75-3402	2		0.75	50	0.86	0.58	267	320
567-75-3404	4		0.93	50	1.04	0.85	385	443
567-75-3408	8		1.11	50	1.22	1.16	546	613
567-75-3412	12		1.29	50	1.40	1.53	733	827
567-75-3424	24		1.74	60	1.87	2.75	1237	1425
567-75-3436	36		1.96	60	2.09	3.42	1676	1900
567-76-3401	1		0.58	50	0.69	0.37	196	225
567-76-3402	2		0.84	50	0.95	0.71	331	389
567-76-3404	4		0.97	50	1.08	0.92	449	516
567-76-3408	8		1.24	50	1.35	1.42	716	810
567-76-3412	12		1.34	50	1.45	1.64	903	1055
567-76-3424	24		2.01	60	2.14	3.61	1914	2199

ELECTRICAL SPECIFICATIONS

Conductor Resistance, nominal - ohms/1000 ft.@20°C@25°C
 18 AWG6.937.07
 16 AWG4.344.43

Insulation Test Voltage (spark test)7500 Volts ac

Dielectric Test Voltage3000 Volts ac

Insulation Resistance Constant @60°F minimum ...10,000 ohms-1000 ft.

Loop Resistance, nominal (2 cdr.) - ohms/1000 ft .@20°C@25°C
 18 AWG13.914.2
 16 AWG8.688.86

Mutual Capacitance (PF/ft.)*
 #1821
 #1623

*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 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. 16 AWG with a bare aluminum C-L-X, the catalog number would be 567-75-1401.

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