Insulation
Okozel is Okonite’s trade name for ETFE Fluoropolymer, a modified Ethylene Tetrafluoroethylene. Okozel is extremely rugged with excellent resistance to cut-through and abrasion. It is chemically inert and has low permeability. Okozel passes the IEEE 383 and UL vertical tray flame test. It is rated for 150°C (302°F) conductor operating temperature for continuous use and retains all useful physical properties at temperatures down to -100°C (-148°F).

Specifications
Conductors: Bare copper per ASTM B-3, Class B stranded per ASTM B-8.
Insulation: Flame-retardant, moisture-resistant Okozel, a modified ETFE fluoropolymer.
Conductor Identification: Base colors with tracers in accordance with ICEA S-73-532, NEMA WC57 Method 1.
Assembly: Conductors cabled together in accordance with ICEA S-73-532, NEMA WC57 Section 5.1; with non-hygrosopic fillers as required; and a binder tape overall.
Sheath: Close fitting, impervious, continuous, welded, corrugated aluminum C-L-X in accordance with UL 1569. The sheath exceeds the grounding conductor requirements of Table 250.122 of the NEC. All C-L-X cables are rated "nonburning" under ASTM D635.

Applications
C-L-X Okozel control cables are recommended for use in or fossil fueled generating stations where continuity of service in critical circuits is of primary importance. These cables, which are rated 150°C in dry and 75°C in wet locations, offer reduced cable diameters through higher amperages and thinner insulation walls than comparable XLPE or rubber constructions. C-L-X Okozel control cables are also recommended for high ambient temperature areas up to 150°C (302°F) in industrial applications or for cold weather installations to -65°C (-85°F).

Product Features
- Factory assembled "cable in conduit".
- 150°C continuous operating temperature.
- Cold installation temperature in excess of -65°C.
- Flame retardant - passes the vertical tray flame test requirements of IEEE 383 and 1202, UL 1569 and ICEA T-29-520(210,000 BTU/hr).
- Lower smoke emission.
- Chemically inert insulation-unaffected by typical acids, bases, solvents and cleaning agents, fuels and hydraulic fluids.
- High dielectric strength.
- Low dielectric constant.
- Smaller diameter and lighter weight permits more cables per tray.
- C-L-X enclosure permits installation in cable tray containing other voltages within a barrier separator.
- 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.
- Provides excellent grounding safety.
- Excellent compression and impact resistance.
- No limit to number of bends in run.
- Lower installed system cost than conduit or EMT systems.
- UL Listed for cable tray use, and sunlight resistant.
- May be installed in ducts, plenums and other environmental air-handling spaces per NEC Articles 300.22(B) and (C).
- Special designs available that are qualified for nuclear generating stations at 90°C in accordance with IEEE Standards 383-74 and 323-74.
## C-L-X® Okozel Type MC (Z)

**600V Control Cable — Aluminum Sheath**

Multiple Copper Conductor/150°C Rating

For Cable Tray Use - Sunlight Resistant

### Table

| Catalog Number | Conductor Size AWG | Number of Conductors | Insulation Thickness (mils) | Core O.D. - Inches | Core O.D. - mm | C-L-X O.D. - Inches | C-L-X O.D. - mm | Cross-Sectional Area (sq. ft.) | Approx. Wet Weight lbs/1000 ft | Approx. Ship Weight lbs/1000 ft | Ampacity 150°C |
|----------------|--------------------|----------------------|----------------------------|-------------------|----------------|---------------------|----------------|-----------------|-------------------------------|-------------------------------|-------------------------------|----------------|
| 548-76-1402    | 2                  | 0.20                 | 5.1                        | 0.38              | 9.7            | 0.11                | 2.30           | 0.11            | 57                           | 50                           | 7               |
| 548-76-1403    | 3                  | 0.20                 | 5.1                        | 0.38              | 9.7            | 0.11                | 2.30           | 0.11            | 63                           | 56                           | 7               |
| 548-76-1404    | 4                  | 0.20                 | 5.1                        | 0.38              | 9.7            | 0.11                | 2.30           | 0.11            | 71                           | 62                           | 7               |
| 548-76-1405    | 5                  | 0.22                 | 5.6                        | 0.38              | 9.7            | 0.15                | 2.52           | 0.15            | 78                           | 71                           | 7               |
| 548-76-1406    | 6                  | 0.24                 | 6.1                        | 0.43              | 10.9           | 0.15                | 2.90           | 0.18            | 98                           | 82                           | 7               |
| 548-76-1409    | 9                  | 0.29                 | 7.4                        | 0.49              | 12.4           | 0.18                | 3.44           | 0.24            | 120                          | 105                          | 7               |
| 548-76-1412    | 12                 | 0.33                 | 8.4                        | 0.53              | 13.5           | 0.25                | 4.16           | 0.30            | 146                          | 120                          | 7               |
| 548-76-1419    | 19                 | 0.40                 | 10.2                       | 0.62              | 15.7           | 0.29                | 5.29           | 0.39            | 206                          | 175                          | 7               |
| 548-76-1437    | 37                 | 0.55                 | 14.0                       | 0.80              | 20.3           | 0.49                | 7.09           | 0.55            | 364                          | 305                          | 7               |

(1) Ampacities are based on Table 310.18 of the NEC for type Z conductors rated at a continuous operating temperature of 150°C (302°F) adjusted for a Okonite's web site, www.okonite.com contains the most up to date information.

*Per Section 240.4(D) of the NEC, sizes #18 and #16 AWG, current limited to 7 and 10 amps, intermittent and 5.6 and 8 amps, continuous, respectively. For sizes #14, #12 and #10 AWG, current limited to 15, 20 and 30 amps, respectively.*