C-L-X® VFD Type MV-105 or MC-HL
5/8kV Okoguard® Shielded Power Cable-Aluminum Sheath
5000V CSA RA90
3 Okopact (Compact Stranded) Copper Conductors/105°C Rating
5kV - 133% or 8kV - 100% Insulation Level
For Cable Tray Use-Sunlight Resistant-For Direct Burial

Insulation
Okoguard is Okonite’s registered trade name for its exclusive ethylene-propylene rubber (EPR) base, thermosetting compound, whose optimum balance of electrical and physical properties is unequaled in other solid dielectrics. Okoguard insulation, with the distinctive red color and a totally integrated EPR system, provides the optimum balance of electrical and physical properties for long, problem free service.

Assembly
Type MV-105 conductors are assembled with fillers, three bare stranded grounding conductors and a binder tape into a round core. A continuously corrugated welded aluminum sheath (C-L-X) encases the cable core. The C-L-X sheath is protected with a low temperature yellow Okoseal® jacket. The impervious, continuous, corrugated aluminum C-L-X sheath provides complete protection against moisture, liquids and gases in addition to its excellent mechanical strength. 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 in non-HL areas. The Okoseal jacket allows the cable to be direct buried in the ground, embedded in concrete or areas subjected to corrosive atmospheres.

Applications
C-L-X power cables are recommended as an economical alternate to a wire in conduit system. They are designed specifically for use as feeders or branch circuits in industrial and utility power distribution systems. C-L-X power cables may be installed in both exposed and concealed work, wet and dry locations, directly buried in the earth, or embedded in concrete. They may be installed on metal racks, troughs, in cable trays or secured to supports not greater than 6 feet apart. C-L-X Type MC-HL cables are also approved for Classes I, II, and III, Division 1 and 2 and Class I, Zones 1 and 2 hazardous locations - NEC Articles 501, 502, 503 and 505.

Specifications
Conductors: Uncoated copper compact stranded per ASTM B-496.
Strand Screen: Extruded semiconducting EPR strand screen meets or exceeds electrical and physical requirements of ICEA S-93-639/NEMA WC74 and UL 1072.
Insulation: Okoguard meets or exceeds the electrical and physical requirements of ICEA S-93-639/NEMA WC74 and UL 1072. The insulated conductors are tested in accordance with AEIC CS8.

Product Features
- Triple tandem extruded, all EPR system.
- Complete prepackaged, color coded, factory tested wiring system.
- Okoguard C-L-X cables meet or exceed all recognized industry standards (UL, AEIC, NEMA/ICEA, IEEE).
- Okoguard C-L-X cables meet or exceed all recognized industry standards (UL, AEIC, NEMA/ICEA, IEEE).
- Excellent corona resistance.
- Screens are clean stripping.
- Exceptional resistance to "treeing".
- Minimum installation temperature of -40°C.
- Improved Temperature Rating.
- Three symmetrical grounding conductors with the CLX sheath provide a superior low resistance return path for VFD and other modern ac drive/motor applications.
- ABS listed as CWCMC Type MC-HL.
- CSA listed as FT4, SR, HL and LTGG (-40°C).
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100% & 133% Insulation Level
For Cable Tray Use-Sunlight Resistant-For Direct Burial

Okoguard Insulation: 115 mils (2.92mm), 5kV-133% or 8kV-100% Insulation Level

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Size (AWG or kcmil)</th>
<th>Approx. Core O.D. - Inches</th>
<th>Jacket Thickness - mils</th>
<th>Jacket Thickness - mm</th>
<th>Approx. O.D. - Inches</th>
<th>Approx. O.D. - mm</th>
<th>Approx. Net Weight lbs./1000'</th>
<th>Approx. Ship Weight</th>
<th>Ampacities (2)</th>
<th>Ampacities in Cable Tray (3)</th>
<th>Ampacities in Direct Burial (4)</th>
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* This cable is only rated 5kV (133%), due to UL limitations, it cannot be rated 8kV.

Okonite’s web site, www.okonite.com contains the most up to date information.

For 8kV ampacities refer to the NEC tables referenced below in the columns listed 5001-35,000 Volts

▲ Authorized stock item. Available from our Customer Service Centers.
Copper or bronze C-L-X and non-jacketed C-L-X are available on special order.

Jackets
Optional jacket types available - consult local sales office.

Aluminum Conductors
(1) Aluminum conductors are available on special order.

Ampacities
(2) Ampacities are in accordance with Table 311.60(C)(71) of the NEC for an insulated three conductor cable, isolated in air, with a conductor operating temperature of 105°C and an ambient air temperature of 40°C.

(3) Ampacities are in accordance with Table 311.60(C)(83) of the NEC for an insulated three conductor cable directly buried in the earth with a conductor operating temperature of 105°C, an ambient earth temperature of 20°C, 100% load factor and thermal resistance (RHO) of 90.

Refer to the NEC, IEEE/ICEA S-135 Power Cable Ampacity Tables, or the Okonite Engineering Data Bulletin for installation in duct banks, other ambient temperatures, circuit configurations or installation requirements.

C-L-X® The Okonite Company