Loxarmor® Type MV-90 or MC
2.4kV Okoguard® Nonshielded Power Cable

3 Okopact® (Compact Stranded) Copper Conductors/90°C Rating
100% and 133% Insulation Level
For Cable Tray Use-Sunlight Resistant-For Direct Burial

Insulation
Okoguard is Okonite's registered trade name for its exclusive ethylene-propylene (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequaled in other solid dielectric. 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
The Type MV-90 conductors are assembled with fillers and a binder tape overall. One bare stranded copper grounding conductor is placed in one of the outer interstices. The interlocked armor provides good mechanical strength. For direct burial, embedment in concrete or for areas subjected to corrosive atmospheres, the Loxarmor is protected with a yellow Okoseal® (PVC) jacket.

Applications
Loxarmor power cables are recommended as an economical alternate to a wire in conduit system. They are designed specifically for use on feeders and branch circuits in industrial power distribution systems. Loxarmor power cables may be installed in both exposed and concealed work, wet and dry location, direct burial 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. Loxarmor power cables are also approved for Classes I and II, Division 2 and Class III, Divisions 1 and 2, hazardous locations - NEC Articles 501, 502 and 503.

2.4kV Non-Shielded cables discharge normally in service when spacing between phases is non-uniform or when phases are in close proximity to a grounded surface.

Specifications
Conductors: Uncoated copper compact stranded per ASTM B-496.
Strand Screen: Extruded semiconducting EPR conductor stress relief meets or exceeds electrical and physical requirements of ICEA S-96-659/NEMA WC71 and UL 1072.
Insulation: Okoguard meets or exceeds electrical and physical requirements of ICEA S-96-659/NEMA WC71 and UL 1072.

Phase Identification: Print color code (black, red and blue).
Grounding Conductor: Uncoated copper in accordance with UL 1072.
Assembly: Cabled with fillers and ground wire, fillers in the interstices, binder tape overall.
Loxarmor: Galvanized steel or aluminum interlocked tape armor per UL 1072, ICEA S-96-659 NEMA WC71, and UL Listing E-60545.
Jacket: Sunlight resistant, yellow PVC jacket in accordance with UL 1072.

UL Listed as Type MV-90 or MC, sunlight resistant, for use in cable tray, and for direct burial in accordance with UL 1072.

Product Features
• Tandem extruded all EPR system.
• Complete prepackaged, color coded, factory tested wiring system.
• Okoguard Loxarmor cables meet or exceed all recognized industry standards (UL, AEIC, NEMA/ICEA, IEEE).
• Passes the vertical tray flame test requirements of IEEE 383 and 1202, UL 1072 & ICEA T-29-520 (210,000 BTU/hr).
• Complies with NEC Articles 300.50 and 310.10(F) for direct burial.
• Excellent corona resistance.
• Exceptional resistance to “treeing”.
• Stress cones not required.
• Resistant to most oils, acids, and alkalies.
• Minimum installation temperature of -40°C.
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Okoguard Insulation: 90 mils (2.29mm)
With Yellow Okoseal Jacket

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Visit Okonite's web site, www.okonite.com for the most up to date dimensions.

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

Ampacities
(2) Ampacities are in accordance with Table 310.71 of the NEC for an insulated three conductor cable, isolated in air, with a conductor operating temperature of 90°C and an ambient air temperature of 40°C.
(3) Ampacities are in accordance with Table 310-75 of the NEC for a three conductor Type MV-90 or MC cable installed in uncovered cable tray in accordance with Section 392.13 of the NEC with a conductor operating temperature of 90°C and ambient air temperature of 40°C. Where the cable tray is covered for more than six feet with solid unventilated covers, the ampacities shall not be more than 95% of the values shown above.
(4) Ampacities are in accordance with Table 310.83 of the NEC for an insulated three conductor cable directly buried in the earth with a conductor operating temperature of 90°C, ambient earth temperature of 20°C, 100% load factor, thermal resistance (RHO) of 90.
Refer to the NEC, IEEE/IEC 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.