Loxarmor® Type MV-105 or MC
15kV Okoguard® Shielded Power Cable
3 Okopact® (Compact Stranded) Copper Conductors/105°C Rating
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 rubber (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequalled 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
The Type MV-105 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 Loxarmor provides excellent mechanical strength. For direct burial, embedment in concrete or for areas subjected to corrosive atmospheres, the Loxarmor is protected with a red 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 as feeders in industrial and utility power distribution systems. Loxarmor power cables may be installed in both exposed and concealed work, wet and dry locations, 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.

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 electrical and physical requirements of ICEA S-93-639/NEMA WC74 and UL 1072. The insulated conductors are tested in accordance with AEIC CS8.
Insulation Screen: Extruded semiconducting (EPR) insulation screen per ICEA S-93-639/NEMA WC74, AEIC CS8 and UL 1072.
Shield: 5 mil uncoated copper tape with 12.5% nominal overlap.
Phase Identification: Color coded (black, red, blue) polyester ribbon laid longitudinally under the copper shield tape.
Grounding Conductor: Uncoated copper in accordance with UL 1072.
Assembly: Cabled with fillers and ground wire in the interstices, binder tape overall.
Loxarmor: Galvanized steel or aluminum interlocked tape armor per UL 1072, ICEA S-93-639/NEMA WC74, and UL Listing E-60545.
Jacket: Sunlight resistant red PVC jacket in accordance with UL 1072.
UL Listed as Type MV-105 or MC, sunlight resistant, for use in cable tray, and for direct burial in accordance with UL 1072.
CSA listed to C68.10.

Product Features
- Triple 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.) and the 210,000 BTU/hr. corner configuration test.
- Complies with NEC Articles 300.50 and 310.10(F) for direct burial.
- Excellent corona resistance.
- Screens are clean stripping.
- Exceptional resistance to “treeing”.
- Resistant to most oils, acids, and alkalies.
- Improved Temperature Rating.
- Minimum installation temperature of -40°C.
- CSA listed as FT4, SR, HL and LTGG (-40°C).

A Uncoated, Okopact (Compact Stranded) Copper Conductors
B Extruded Semiconducting EPR Strand Screen
C Okoguard Insulation (EPR)
D Phase Identification Strips
E Extruded Semiconducting EPR Insulation Screen
F Okopact (Compact) Copper Grounding Conductor
G 5 mil Bare Copper Shield
H Fillers and Binder Tape
J Loxarmor
K Jacket Red-Okoseal
Loxarmor Type MV-105 or MC
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Okoguard Insulation-220 mils (5.59mm)
with Red Okoseal Jacket

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Galvanized Steel Loxarmor

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

Ampacities
(2) Ampacities are in accordance with Table 310.60(B)(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 310.60(B)(75) of the NEC for a three conductor Type MV-105 or MC cable installed in uncovered cable tray in accordance with Section 392.80(B) of the NEC with a conductor operating temperature of 105°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 96% of the values shown above.

(4) Ampacities are in accordance with Table 310.60(B)(83) of the NEC for an insulated three conductor cable directly buried in the earth with a conductor operating temperature of 105°C, ambient earth temperature of 20°C, 100% Load Factor and a thermal resistance (RHO) of 90.
Refer to the NEC, IEEE/CEA 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.

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

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