Okoguard®-Okoseal® Type MV-90
2.4 kV Nonshielded Power Cable
One Okopact® (Compact Stranded) Copper Conductor
90°C Rating Wet or Dry

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.

Jackets
The Okoseal (PVC) jacket supplied with this cable is mechanically rugged and has excellent resistance to oil, acids and most chemicals.

Applications
Okoguard-Okoseal 2.4 kV cables are heavy duty nonshielded cables designed for use at up to 2.4 kV phase-to-phase in wet or dry locations in accordance with NEC Section 311.44.
Okoguard-Okoseal nonshielded cables are recommended for power distribution and motor circuits in generating plants and substations; in industrial and commercial buildings.
Single conductors may be installed in industrial or commercial occupancies in triplexed or random lay in any raceway or duct in wet or dry locations, or in open runs as permitted by the NEC.

Specifications
Conductor: Annealed 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-96-659/NEMA WC71 and UL 1072.
Insulation: Meets or exceeds electrical and physical requirements of ICEA S-96-659/NEMA WC71, and UL 1072.
Jacket: Meets or exceeds electrical and physical requirements of ICEA S-96-659/NEMA WC71 for polyvinyl chloride jackets and UL 1072.
UL Listed as Type MV-90 in accordance with UL 1072.
1/C 2.4 kV nonshielded cables can surface discharge in service when in a random phase spacing or when in contact with grounded surfaces.

Product Features
• Okoguard cables meet or exceed all recognized industry standards (UL, NEMA/ICEA, IEEE).
• 90°C continuous operating temperature.
• 130°C emergency rating.
• 250°C short circuit rating.
• Excellent corona resistance.
• Exceptional resistance to “treeing”.
• Stress cones not required.
• Moisture resistant.
• Resistant to most oils, acids, and alkalies.
• Sunlight Resistant.
• UL Listed as Oil Res II.
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### Okonite’s web site www.okonite.com contains the most up to date information.

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

### Ampacities
(2) Ampacities are in accordance with Table 311.60 (C)(73) of the NEC for three single Type MV-90 conductors, or single conductors twisted together (triplexed) and installed in an isolated conduit in air at an ambient temperature of 40°C and a conductor temperature of 90°C.

(3) Ampacities are in accordance with Table 311.60 (C)(77) of the NEC for three single conductors or triplexed cable in one underground raceway, three feet deep with a conductor temperature of 90°C, 100% Load Factor, an ambient earth temperature of 20°C, and thermal resistance (RHO) of 90.

(4) Recommended sizes of rigid or nonmetallic conduit for 3 conductors based on 40% maximum fill.

* The jam ratio, conduit I.D. to cable O.D., should be checked to avoid possible jamming.

### Table: Conductor Sizes and Ampacities

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Size AWG or kcmil</th>
<th>Insulation Thickness - mils</th>
<th>Jacket Thickness - mils</th>
<th>Approx. O.D. - inches</th>
<th>Approx. Net Weight lbs/1000'</th>
<th>Approx. Ship Weight lbs/1000'</th>
<th>Ampacities in Air Conduit Size (2)</th>
<th>Ampacities Underground Duct</th>
<th>Conduit Size (4) Inches</th>
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<tbody>
<tr>
<td>114-24-3215</td>
<td>8</td>
<td>8.4</td>
<td>125</td>
<td>3.18</td>
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