Okoguard®-Okoseal®

69kV Shielded Power Cable
Conductor/105°C Rating — 100% Insulation Level

**Insulation**
Okoguard is Okonite’s registered trade name for its exclusive ethylene-propylene rubber (EPR) based, thermo-setting 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.

The triple tandem extrusion of the screens with the insulation provides optimum electrical characteristics.

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

**Applications**
Okoguard-Shielded-Okoseal 69kV Cables are designed for use as primary circuits in electrical utility and industry applications where they provide maximum circuit security and economical installation. Rated 105°C for continuous operating temperature, Okoguard 69kV cables may be installed in wet or dry locations indoors or outdoors (exposed to sunlight) in underground ducts, conduits or direct burial.

**Specifications**

**Conductors:** Uncoated copper sizes 250 through 1000 kcmil compact round stranding per ASTM B-496. Uncoated copper sizes larger than 1000 kcmil compress round stranding per ASTM B-8. EC Aluminum per ASTM B609, Class B stranded per B-231.

**Strand Screen:** Extruded semiconducting EPR strand screen. Meets or exceeds electrical and physical requirements of ICEA S-108-720, AEIC CS9.

**Insulation:** Meets or exceeds electrical and physical requirements of ICEA S-108-720 and AEIC CS9.

**Insulation Screen:** Extruded semiconducting EPR insulation screen. Meets or exceeds electrical and physical requirements of ICEA S-108-720 and AEIC CS9.

**Shield:** 5 mil bare copper tape helically applied with 25% nominal overlap.

**Jacket:** Meets or exceeds electrical and physical requirements of ICEA S-108-720 for polyvinyl chloride jackets.

Optional jackets include Okolene, Okolon TS-CPE, Okoclear and, when specified, a semi-conducting outer layer.

Optional shields include neutral wires, LCS and a combination of copper tape and wires. A CLX armor covering is also available.

**Product Features**
- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed recognized industry standards (AEIC, NEMA/ICEA).
- 105°C continuous operating temperature.
- 140°C emergency rating.
- 250°C short circuit rating.
- Excellent corona resistance.
- Exceptional resistance to “treeing.”
- Low shield resistance.
- Moisture resistant.
- Resistant to most oils, acids, and alkalies.
- Sunlight resistant.
- Improved Temperature Rating.
- Screens are clean stripping.
## Okoguard-Okoseal

**69kV Shielded Power Cable**

Conductor/ 105°C Rating  
100% Insulation Level

Okoguard Insulation: 650 mils (16.5mm)

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**Copper Conductor - Compact Round**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Size</th>
<th>Approx. Dia. over Insulation (in.)</th>
<th>Approx. Dia. over Screen (in.)</th>
<th>Jacket Thickness - mils</th>
<th>Approx. O.D. - Inches</th>
<th>Approx. O.D. - mm</th>
<th>Approx. Net Weight lbs./1000'</th>
<th>Ampacities (1) Direct Burial</th>
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<tbody>
<tr>
<td>115-22-3765</td>
<td>250</td>
<td>1.91</td>
<td>2.01</td>
<td>110</td>
<td>2.79</td>
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<td>57.4</td>
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<td>350</td>
<td>2.01</td>
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<td>2.79</td>
<td>2.36</td>
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<td>115-22-3771</td>
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<td>2.22</td>
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<td>2.47</td>
<td>62.7</td>
<td>4179</td>
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<tr>
<td>115-22-3775</td>
<td>750</td>
<td>2.30</td>
<td>2.40</td>
<td>110</td>
<td>2.79</td>
<td>2.64</td>
<td>67.1</td>
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</table>

| ▲ 115-22-3777  | 1000           | 2.44                               | 2.54                           | 140                    | 3.56                | 2.85             | 72.4                     | 6389                     |

**Copper Conductor - Compress Round**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Size</th>
<th>Approx. Dia. over Insulation (in.)</th>
<th>Approx. Dia. over Screen (in.)</th>
<th>Jacket Thickness - mils</th>
<th>Approx. O.D. - Inches</th>
<th>Approx. O.D. - mm</th>
<th>Approx. Net Weight lbs./1000'</th>
<th>Ampacities (1) Direct Burial</th>
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<td>115-22-3778</td>
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<td>2.68</td>
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<td>140</td>
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<tr>
<td>115-22-3779</td>
<td>1500</td>
<td>2.78</td>
<td>2.88</td>
<td>140</td>
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**Aluminum Conductor - Compress Round**

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<th>Catalog Number</th>
<th>Conductor Size</th>
<th>Approx. Dia. over Insulation (in.)</th>
<th>Approx. Dia. over Screen (in.)</th>
<th>Jacket Thickness - mils</th>
<th>Approx. O.D. - Inches</th>
<th>Approx. O.D. - mm</th>
<th>Approx. Net Weight lbs./1000'</th>
<th>Ampacities (1) Direct Burial</th>
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<tr>
<td>135-22-3765</td>
<td>250</td>
<td>1.94</td>
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<tr>
<td>135-22-3775</td>
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<td>2.47</td>
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<td>2.79</td>
<td>2.72</td>
<td>69.1</td>
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</tbody>
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| ▲ 135-22-3777  | 1000           | 2.52                               | 2.62                           | 140                    | 3.56                | 2.93             | 74.4                     | 4433                     |
| 135-22-3778    | 1250           | 2.68                               | 2.78                           | 140                    | 3.56                | 3.09             | 78.5                     | 4954                     |
| 135-22-3779    | 1500           | 2.80                               | 2.90                           | 140                    | 3.56                | 3.21             | 81.5                     | 5381                     |

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

▲ Authorized Stock Item. Available from our Customer Service Centers.

Additional conductor sizes are available.

**Ampacities**

1. Ampacities are in accordance with ICEA P-53-426 for three single 69kV conductors directly buried or in individual ducts underground, 36° deep with 7 1/2" spacing between conductors, at 105°C maximum conductor temperature, 25°C earth temperature, soil resistivity of 90 Rho, 100% load factor, and open circuit shields.

2. Recommended size of rigid nonmagnetic or nonmetallic conduit for a single conductor based on 53% maximum fill.