

Insulation Screen: Extruded

semiconducting EPR insulation screen.

Meets or exceeds the electrical and physical requirements of ICEA S-93-639/NEMA

Wc74 & S-97-682, AEIC CS8 and UL 1072

copper shield with a 0.25" minimum overlap.

UL Listed as Type MV-90, sunlight resistant

Okoguard-Okolene cables are also available

and CSA C68.5 for polyethylene jackets.

A Seam-Sealed overlap is also available.

Jacket: Meets or exceeds electrical and

physical requirements of ICEA S-93-639/NEMA WC74 & S-97-682, UL 1072 and

CSA C68.5 for polyethylene jackets.

with Okolon TP-CPE® or Okoclear TP®

in accordance with UL 1072.

Shield: 10 mil longitudinal corrugated,

Okoguard®-Okolene® Type MV-90 25kV LCS Shielded Power Cable

One Aluminum Conductor/90°C Rating 100% Insulation Level

Sunlight Resistant



Okoquard 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 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.

with the insulation provides optimum electrical characteristics.

A 10 mil copper longitudinal corrugated shield (LCS) is applied over the extruded semiconducting insulation screen. The LCS resistance is also extremely stable during load cycling.

The Okolene jacket on this cable is mechanically rugged, chemical, oil and moisture resistant.

Applications

Okoguard shielded Okolene Type MV-90 power cables are recommended for use as feeder circuits, in electric utility distribution circuits.

Type MV cables may be installed in wet or dry locations, indoors or outdoors (exposed to sunlight), in any raceway or underground duct, directly buried if installed in a system with a grounding conductor in close proximity that conforms with NEC Section 315.36 and 250.4(A)(5), or messenger supported in industrial establishments and electric utilities.

Specifications

Conductor: Aluminum compressed round Class B strand per ASTM B-231 & B-609. Copper conductors are also available per ASTM B-496 and ASTM B-8.

Strand Screen: Extruded semiconducting EPR strand screen. Meets or exceeds electrical and physical requirements of ICEA S-93-639/NEMA WC74 & S-97-682. CSA C68.5, AEIC CS8 and UL 1072.

Insulation: Meets or exceeds electrical and physical requirements of ICEA S-93-639/NEMA WC74 & S-97-682, CSA C68.5, AEIC CS8 and UL 1072.



The triple tandem extrusion of the screens



(TPPO) jackets.

- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed all recognized industry standards (UL, AEIC, NEMA/ICEA, IEEE).
- 90°C continuous operating temperature.
- 130°C emergency rating.
- 250°C short circuit rating.
- Excellent corona resistance.
- · Screens are clean stripping.
- Exceptional resistance to "treeing."
- Low shield resistance.
- Moisture resistant.
- · Resistant to most oils, acids and alkalies.
- Sunlight resistant.
- Improved Temperature Rating.
- CSA C68.5 listed LTGG (-40°C), SR.



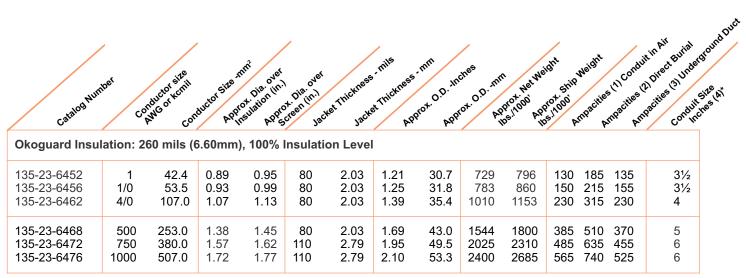
- A Conductor-Stranded Aluminum B Strand Screen-Extruded Semiconducting EPR
- C Insulation-Okoguard EPR
- D Insulation Screen-Extruded Semiconducting EPR
- E Shield-10 mil LCS Copper Tape
- F Jacket-Okolene

Okoguard-Okolene Type MV-90

25kV LCS Shielded Power Cable
One Aluminum Conductor/90°C Rating
100% Insulation Level
Sunlight Resistant



Product DataSection 2: Sheet 15



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

Ampacities

(3) Ampacities are in accordance with Table 315.60(C)(12) of the NEC for three single conductors or triplexed cable in one underground raceway, three feet deep with a conductor temperature 90°C, 100% Load Factor, an ambient earth temperature of 20°C, and thermal resistance (RHO) of 90.

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

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

⁽¹⁾ Ampacities are in accordance with Table 315.60(C)(8) of the NEC for three single Type MV-105 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.

⁽²⁾ Ampacities are in accordance with Table 315.60(C)(16) of the NEC for an insulated single conductor directly buried with a conductor temperature rating of 90°C, ambient earth temperature of 20°C, 100% Load Factor, thermal resistance (RHO) of 90.

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