

Okoguard[®] 15kV Reduced Diameter Duct Cables (Triplexed)

Okopact Copper Conductor/105°C Rating
100% Insulation Level



- A Uncoated Okopact-(Compact Round) Copper Conductor
- B Strand Screen-Extruded Semiconducting EPR
- C Insulation-Okoguard EPR
- D Insulation Screen- Extruded Semiconducting EPR
- E Outer Conductor - Copper Straps
- F Encapsulating Jacket-Okolene and NESC lighting bolt.

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.

Ethylene-propylene rubber screens are extruded over the conductor and the insulation. The triple tandem extrusion of these screens with the insulation provides optimum electrical characteristics. The bare copper concentric flat straps are uniformly spaced around the insulation screen. The overall polyethylene jacket provides protection against mechanical damage and corrosion.

Applications

Okoguard cables provide maximum circuit longevity in underground residential distribution systems. They can be buried direct or installed in underground ducts or conduits. Cables with flat straps are typically used as PILC replacement cable and when a reduced diameter cable is desired to meet NEC maximum percent fill limits. They are also used for rodent protection in some environments.

Specifications

Central Conductor: Annealed un-coated compact round copper ASTM B-496.

Conductor Screen: Extruded semiconducting ethylene-propylene rubber meets or exceeds the requirements of ICEA S-94-649, AEIC CS8, and CSA C68.5.

Insulation: Extruded Okoguard meets or exceeds the requirements of ICEA S-94-649, AEIC CS8, and CSA C68.5.

Insulation Screen: Extruded semiconducting ethylene-propylene rubber insulation screen that meets the requirements of ICEA S-94-649, AEIC CS8, and CSA C68.5.

Centric Conductor: Bare copper concentric flat straps helically applied.

Jacket: Black Okolene[®] LLDPE that meets or exceeds the requirements of ICEA S-94-649, AEIC CS8, and CSA C68.5 for polyethylene jackets.

See Okonite Catalog Section 2: Sheet 63 for other Voltage ratings up to 69kV and ampacity data tables.

Product Features

- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceeds ICEA standards.
- Improved Temperature Rating. Okoguard insulation system has been tested and qualified for operations at 105°C continuous and 140°C emergency operating temperature.
- 250°C short circuit rating.
- Excellent corona resistance.
- Low dielectric constant and power factor.
- Screens are clean stripping.
- Exceptional resistance to "treeing".
- Moisture resistant.
- Excellent resistance to most chemicals.
- Can be listed by UL as Type MV-90 or 105 on special orders.
- CSA C68.5 listed, LTGG (-40°C), SR.

Design Options:

- Triplexed or Paralleled
- Additional conductor sizes
- Filled Strand conductors
- Aluminum conductors
- Tinned Straps
- Water Blocking Powder or Tape
- Product identification via colored jackets
- Semiconducting jacket

Optional UL Jackets/Ratings:

- FR-PVC Jacket (MV-105).
- XLPE Jacket (MV-105).
- Okolene Polyethylene (MV-90).
- Okolene Polypropylene (Non-UL).

Okoguard

15kV Reduced Diameter Duct Cable

Copper Conductors/105°C Rating
100% Insulation Level



Product Data

Section 2: Sheet 37

Insulation-175 mils
Jacket-50 mils nominal

Triplexed Cables

Catalog Number	Conductor size (AWG or kcmil)	Nominal Dia. over Insulation (in.)	Nominal Dia. over Insulation Screen (in.)	Copper Straps No. x Width x Thick. (mils)	Nominal Triplexed O.D. (in.)	Approx Net Weight (lbs./1000')	Approx Ship Weight (lbs./1000')
141-23-2591	350	1.01	1.07	14 x 195 x 20	2.65	5220	5790
141-23-2594	500	1.12	1.19	14 x 200 x 20	2.89	6773	7365
141-23-2595	600	1.22	1.28	14 x 200 x 20	3.09	7873	8635
141-23-2597	750	1.30	1.37	12 x 250 x 20	3.28	9404	10166