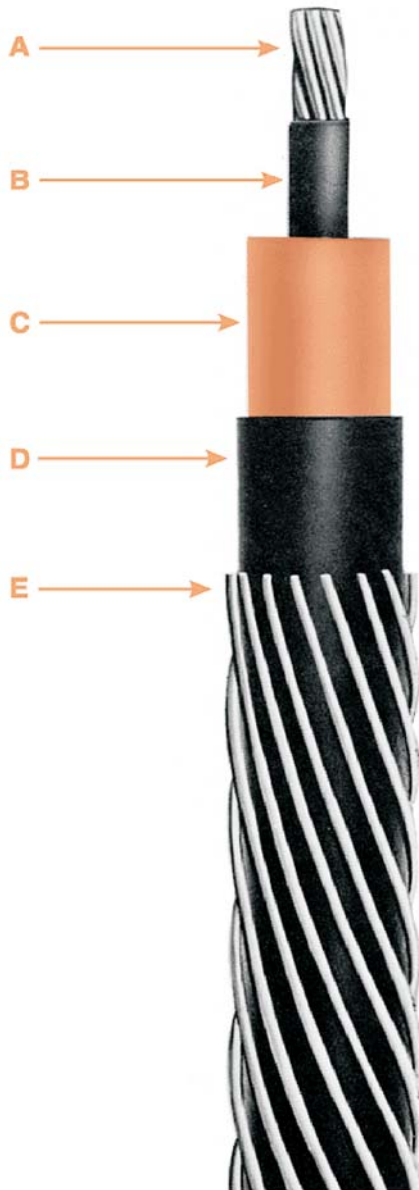




## Okoguard® URO

### 15kV Underground Primary Distribution Cable

Aluminum Conductor/105°C Rating  
133% Insulation Level



- A Conductor-Stranded Aluminum
- B Strand Screen-  
Extruded Semiconducting EPR
- C Insulation-Okoguard- EPR
- D Insulation Screen-  
Extruded Semiconducting EPR
- E Concentric Conductor-Annealed  
Bare Copper Wires

#### 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.

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

An insulation screen of ethylene-propylene rubber is extruded over the insulation. The annealed bare copper wires are uniformly spaced around the insulation screen.

#### Applications

Okoguard URO cables provide excellent circuit longevity in underground residential distribution systems. They can be buried direct or installed in underground ducts or conduits.

#### Specifications

**Central Conductor:** Aluminum per ASTM B-609, Class B stranded per B-231.

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

**Insulation:** Extruded Okoguard meets or exceeds the requirements of ICEA S-94-649 for ethylene-propylene rubber and AEIC CS8.

**Insulation Screen:** Extruded semiconducting ethylene-propylene rubber meets or exceeds the requirements of ICEA S-94-649 and AEIC CS8.

**Concentric Conductor:** Bare copper wires.

#### Product Features

- Triple tandem extruded, all EPR system
  - Okoguard cables meet or exceed ICEA standards.
  - 105°C continuous operating temperatures
  - 140°C emergency rating
  - 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.
  - Design Options:
    - Additional conductor sizes
    - Filled strand
    - Copper central conductor
    - Custom neutral sizes
    - 100% Insulation Level
  - Improved Temperature Rating.
- Okoguard insulation system has been tested and qualified for operation at 105°C continuous and 140°C emergency operating temperature.
- Minimum installation temperature of -40°C.
  - Can be listed by UL as Type MV-90 on Special Orders.

# Okoguard URO

## 15kV Underground Primary Distribution Cable

Aluminum Conductor/105°C Rating

133% Insulation Level

## Product Data Section 2: Sheet 34

### Okoguard Insulation: 220 mils 133% Insulation Level

Catalog Number	Conductor Size AWG/kcmil	Nominal Dia. over Insulation (in.)	Nominal Dia. over Insulation Screen (in.)	Copper Neutral, No. x AWG (1)	Nominal O.D. (in.)	Approx. Net Weight lbs./1000'	Approx. Ship Weight lbs./1000'	90°C Ampacity Direct Burial (2)	90°C Ampacity Duct (2)	105°C Ampacity Direct Burial (2)	105°C Ampacity Duct (2)
<b>FULL NEUTRAL</b>											
161-23-3910	2(7x)	0.77	0.84	10 x 14	0.98	481	571	170	120	180	130
161-23-3916	1(19x)	0.81	0.89	13 x 14	1.02	555	645	195	135	205	150
161-23-3922	1/0(19x)	0.84	0.92	16 x 14	1.06	635	725	220	155	235	170
161-23-3925	2/0(19x)	0.90	0.97	13 x 12	1.13	746	836	250	175	270	200
161-23-3928	3/0(19x)	0.95	1.02	16 x 12	1.18	867	957	285	200	305	225
161-23-3931	4/0(19x)	0.99	1.06	13 x 10	1.28	1035	1135	325	230	350	260
161-23-3934	250(37x)	1.06	1.16	16 x 10	1.37	1228	1344	360	255	385	285
161-23-3940	350(37x)	1.16	1.26	20 x 10	1.47	1514	1692	425	300	455	340
<b>1/3 NEUTRAL</b>											
160-23-3910	2(7x)	0.78	0.85	6 x 14	0.98	429	519	160	135	165	130
160-23-3916	1(19x)	0.81	0.89	6 x 14	1.02	464	554	180	155	190	150
160-23-3922	1/0(19x)	0.84	0.92	6 x 14	1.06	506	596	205	175	215	175
160-23-3925	2/0(19x)	0.90	0.97	7 x 14	1.10	568	658	235	200	245	195
160-23-3928	3/0(19x)	0.95	1.02	9 x 14	1.15	653	743	270	230	280	225
160-23-3931	4/0(19x)	0.99	1.06	11 x 14	1.21	752	852	300	240	315	255
160-23-3934	250(37x)	1.06	1.16	13 x 14	1.29	873	973	330	260	345	280
160-23-3940	350(37x)	1.16	1.26	18 x 14	1.39	1092	1208	390	320	415	345
160-23-3943	500(37x)	1.29	1.39	16 x 12	1.56	1405	1583	470	385	495	415
160-23-3946	750(61x)	1.48	1.58	15 x 10	1.79	1920	2170	570	470	600	510
160-23-3949	1000(61x)	1.63	1.77	18 x *(A)	1.98	2465	2813	665	550	685	585

\* - Special Conductor Size ((A) Wire O.D. =0.1052"

(1) Individual wire size and count may vary. The resulting combination meets the 1/3 or full neutral, size requirement.

Okonite's web site, [www.okonite.com](http://www.okonite.com) contains the most up to date information.

#### Ampacities

- (2) Full neutral, single phase ampacities are based on ICEA's S-94-649, Appendix F for 90°C conductor temperature, 20°C ambient temperature, 100% load factor, and earth thermal resistivity of RHO 90 and modified for un-jacketed cable. One third neutral ampacities are based on ICEA P-53-426 triplexed or triangular configuration for the same conditions stated above.