

Okoguard[®] URO-J

15kV Underground Primary Distribution Cable-Jacketed Red Identification Stripes

Filled Strand Aluminum Conductor/105°C Rating

100% and 133% Insulation Levels

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 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.

The compressed conductors are filled with water swellable powder. This construction slows the migration of water through the strands in the event of a mechanical dig-in followed by external exposure to water. An insulation screen of ethylene-propylene rubber is extruded over the insulation. The copper concentric wires are uniformly spaced around the insulation screen. The overall polyethylene jacket provides protection against mechanical damage and

corrosion. Product identification is provided through the use of three red stripes placed 120° apart in the black jacket, with an NESC lightning bolt.

Applications

Okoguard URO-J cables provide maximum circuit longevity in underground residential distribution systems. They can be buried directly or installed in underground ducts or conduits.

Specifications

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

Filled Strand: Water swellable powder meets or exceeds ICEA T-31-610 water penetration resistance and ANSI/NEMA class A connectorability requirements.

Conductor Screen: Extruded semiconucting 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 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. **Jacket:** Black Okolene with red extruded stripes meets or exceeds the requirements of ICEA S-94-649 for polyethylene jackets.

Product Features

- Triple tandem extruded, all EPR system.
- Okoguard cables meet or exceed
- NEMA/ICEA and RUS U-1 standards.
- 105°C continuous operating temperature.
- 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".
- Filled strand conductor.
- Moisture resistant.
- Overall jacket provides extended life.
- Excellent resistance to most chemicals.
- Can be listed by UL as Type MV-90 on special orders.

• Cable listed by CSA to C68.3 on special orders.

 Design Options: Additional conductor sizes Copper central conductor Copper flat strap concentric neutral Product identification via colored jackets. Semiconducting jackets.

 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.



- A Conductor Stranded Aluminum with Filled Strand - Water Swellable Power
- B Strand Screen Extruded Semiconducting EPR
- C Insulation Okoguard EPR
- D Insulation Screen Extruded Semiconducting EPR
- E Concentric Conductor-Bare Copper Wires
- F Encapsulating Jacket-Okolene with Extruded ID Stripes & NESC lightning bolt

Okoguard URO-J

15kV Underground Primary Distribution Cable-Jacketed **Red Identification Stripes**

Filled Strand Aluminum Conductor/105°C Rating **133% Insulation Level**

\rightarrow	Okoguard In	sulation:	220 n	nils 13	3% Insu	ulation	Level						
	Catalog Hur	ibet conducció	site venil Nor	Ina Dia. Ov	st heutation the	Neura, No. +	APIC III	APTOD APTOD	ship weish	Inpacity Direct	ABURN DUC (2)	Hacity Direct Burli	N Duct (2)
\rightarrow	FULL NEUTR												
	▲ 163-23-3060 163-23-3066 ▲ 163-23-3072 163-23-3075	2(7x) 1(19x) <mark>1/0(19x)</mark> 2/0(19x)	0.77 0.82 <mark>0.84</mark> 0.91	0.85 0.90 <mark>0.92</mark> 0.98	10 x 14 13 x 14 <mark>16 x 14</mark> 13 x 12	1.08 1.14 <mark>1.15</mark> 1.25	602 694 <mark>753</mark> 916	669 766 <mark>820</mark> 996	165 185 <mark>210</mark> 240	120 135 <mark>155</mark> 175	180 205 <mark>235</mark> 270	130 150 <mark>170</mark> 200	
	163-23-3078 163-23-3081 163-23-3084 163-23-3090	3/0(19x) 4/0(19x) 250(37x) 350(37x)	0.96 1.02 1.07 1.18	1.04 1.09 1.17 1.28	16 x 12 13 x 10 16 x 10 20 x 10	1.31 1.41 1.48 1.59	1045 1252 1456 1762	1125 1347 1606 1912	270 310 340 405	200 230 255 300	305 350 385 455	225 260 285 340	
	1/3 NEUTRAL	-											
	162-23-3060 162-23-3066 162-23-3072 162-23-3075	2(7x) 1(19x) 1/0(19x) 2/0(19x)	0.78 0.82 0.86 0.91	0.85 0.90 0.94 0.98	6 x 14 6 x 14 6 x 14 7 x 14	1.09 1.14 1.18 1.22	562 612 661 730	627 684 733 810	155 175 200 230	135 155 175 200	165 190 215 245	130 150 175 195	
	162-23-3078 ▲ 162-23-3081 162-23-3084 ▲ 162-23-3090	3/0(19x) 4/0(19x) 250(37x) 350(37x)	0.96 0.99 1.07 1.16	1.04 1.06 1.17 1.26	9 x 14 11 x 14 13 x 14 18 x 14	1.27 1.30 1.41 1.50	825 891 1069 1254	905 1005 1164 1425	260 290 320 380	230 240 260 320	280 315 345 415	225 255 280 345	
	 ▲ 162-23-3093 ▲ 162-23-3096 ▲ 162-23-3099 	500(37x) 750(61x) 1000(61x)	1.29 1.48 1.63	1.39 1.58 1.77	16 x 12 15 x 10 18 x *(A)	1.72 1.95 2.15	1666 2244 2808	1853 2468 3093	455 555 645	385 470 550	495 600 685	415 510 585	

* - Special Conductor Size (A) Wire O.D. =0.1066"

(1) Individual wire size and count may vary. The resulting combination meets the 1/3 or full neutral, size requirement. Visit Okonite's web site www.okonite.com for the most up to date dimensions.

Authorized Stock Item - Available from Customer Service centers.

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 jacketed cable.

One third neutral ampacities are based on ICEA P-53-426 triplexed

or triangular configuration for the same conditions stated above.

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