



Okoguard®-Okolon® TS-CPE

5 & 8 kV Nonshielded Internal Wiring Power Cable

Compressed Stranded Conductor
Copper Conductor/90°C Rating Dry



- A Uncoated Compressed Copper Conductor
- B Strand Screen-Extruded Semiconducting EPR
- C Insulation-Okoguard EPR
- D Jacket-Okolon TS-CPE

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 for long, problem free service.

Jacket

The Okolon TS-CPE jacket on this cable is a vulcanized chlorinated polyethylene based compound which is mechanically rugged, flame, discharge and oil resistant.

Applications

Okoguard-Okolon TS-CPE 5 & 8 kV cables are heavy duty nonshielded cables that are intended solely for use as factory-installed wiring in equipment (internal wiring), in industrial applications where such cable systems are maintained by trained personnel, not as type MV. This cable must be routed or otherwise protected such that contact by persons is not possible while the cable is energized.

Typical applications are for OEM equipment such as switchgear, transformers, etc.

Specifications

Conductor: Annealed uncoated copper compressed stranded per ASTM B-8.

Strand Screen: Extruded semiconducting EPR strand screen. Meets or exceeds electrical and physical requirements of ICEA S-96-659/NEMA WC71 (5kV only) and UL 2460.

Insulation: Meets or exceeds electrical and physical requirements of ICEA S-

96-659/NEMA WC71 (5kV only) and UL 2460.

Jacket: Meets or exceeds electrical and physical requirements of ICEA S-96-659/NEMA WC71 (5kV only) and UL 2460 for chlorinated polyethylene jackets.

1/C nonshielded cables can surface discharge in service when in a random phase spacing or when in contact with grounded surfaces.

Product Features

- Okoguard cables meet or exceed all recognized industry standards (UL, NEMA/ICEA).
- UL recognized component wire.
- 90°C continuous operating temperature.
- 130°C emergency rating.
- 250°C short circuit rating
- Exceptional resistance to "treeing".
- Stress cones not required.
- Resistant to most oils, acids, and alkalis.

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Product Data

Section 6: Sheet 7

5kV Cables

Catalog Number (1)	Conductor Size AWG or kcmil		Conductor Size -mm ²		Insulation Thickness - mils		Jacket Thickness - mm		Jacket Thickness - mils		Approx. O.D. - Inches		Approx. O.D. - mm		Approx. Net Weight lbs./1000'		Approx. Ship Weight lbs./1000'		Ampacities (2)
114-24-2600	8(7x)	8.4	125	3.18	80	2.03	0.61	15.5	230	265	83								
114-24-2602	6(7x)	13.3	125	3.18	80	2.03	0.65	16.5	275	310	110								
114-24-2604	4(7x)	21.2	125	3.18	80	2.03	0.69	17.6	345	380	145								
114-24-2606	2(7x)	33.6	125	3.18	80	2.03	0.75	19.1	450	510	190								
114-24-2608	1(19x)	42.4	125	3.18	80	2.03	0.79	20.1	520	580	225								
114-24-2610	1/0(19x)	53.5	125	3.18	80	2.03	0.83	21.1	605	665	260								
114-24-2612	2/0(19x)	67.4	125	3.18	80	2.03	0.88	22.3	710	770	300								
114-24-2614	3/0(19x)	85.0	125	3.18	95	2.41	0.96	24.3	870	960	345								
114-24-2616	4/0(19x)	107.0	125	3.18	95	2.41	1.01	25.7	1035	1125	400								
114-24-2618	250(37x)	127.0	140	3.56	110	2.79	1.13	28.8	1255	1345	445								
114-24-2620	350(37x)	177.0	140	3.56	110	2.79	1.24	31.4	1620	1725	550								
114-24-2622	500(37x)	253.0	140	3.56	110	2.79	1.37	34.7	2155	2280	695								
114-24-2630	750(61x)	380.0	155	3.94	125	3.18	1.62	41.1	3140	3320	900								
114-24-2640	1000(61x)	507.0	155	3.94	125	3.18	1.77	44.9	4000	4250	1075								

8kV Cables

Catalog Number (1)	Conductor Size AWG or kcmil		Conductor Size -mm ²		Insulation Thickness - mils		Jacket Thickness - mm		Jacket Thickness - mils		Approx. O.D. - Inches		Approx. O.D. - mm		Approx. Net Weight lbs./1000'		Approx. Ship Weight lbs./1000'		Ampacities (2)
115-24-2933	6(7x)	13.3	180	4.57	80	2.03	0.76	19.4	350	410	110								
115-24-2935	4(7x)	21.2	180	4.57	95	2.41	0.84	21.3	450	510	150								
115-24-2937	2(7x)	33.6	180	4.57	95	2.41	0.90	22.8	565	625	195								
115-24-2939	1(19x)	42.4	180	4.57	95	2.41	0.94	23.8	640	700	225								
115-24-2941	1/0(19x)	53.5	180	4.57	95	2.41	0.98	24.8	730	820	260								
115-24-2943	2/0(19x)	67.4	180	4.57	95	2.41	1.02	25.9	840	930	300								
115-24-2945	3/0(19x)	85.0	180	4.57	110	2.79	1.10	28.0	1015	1105	345								
115-24-2947	4/0(19x)	107.0	180	4.57	110	2.79	1.16	29.4	1185	1275	400								
115-24-2949	250(37x)	127.0	210	5.33	110	2.79	1.28	32.4	1415	1520	445								
115-24-2952	350(37x)	177.0	210	5.33	110	2.79	1.38	35.0	1795	1920	550								
115-24-2953	500(37x)	253.0	210	5.33	110	2.79	1.51	38.3	2345	2525	685								
115-24-2955	750(61x)	380.0	235	5.97	125	3.18	1.78	45.2	3395	3645	885								
115-24-2957	1000(61x)	507.0	250	6.35	140	3.56	1.99	50.6	4405	4805	1060								

Aluminum Conductors

(1) Aluminum conductors are available on special order. To order aluminum conductors, change the first three digits of the catalog number from 114 to 134 for 5kV cables or 115 to 135 for 8kV cables.

Ampacities

(2) Ampacities are in accordance with NEC Table 310.60(C)(69) for a single conductor, in air at an ambient temperature of 40°C and a conductor temperature of 90°C. Derating factors may be needed depending upon the application.