Okoguard®-Okoclear-TS®

CSA RW90 1000V
UL Type RHH/RHW/RHW-2, CSA RW90 2000V
UL & CSA 2000V and CSA 1000V Power and Control
Copper Conductor/90°C Wet or Dry
For Cable Tray Use - Sunlight Resistant

A Uncoated, Copper Conductor
B Composite Okoguard-Okoclear-TS

Composite Insulation

Okoguard-Okoclear-TS is a composite insulation consisting of a layer of ethylene propylene rubber (EPR) and covered with a thermosetting low-smoke non-halogenated cross-linked polyolefin (XLPO).
The advantages of Okoguard EPR, with a proven track record of over 40 years as a medium voltage insulation, are now offered in low voltage cables. Okoclear-TS is Okonite's trade name for its thermoset low-smoke non-halogenated XLPO.

Applications

Okoguard-Okoclear-TS 1000V and 2000V Power and Control Cables are designed for use in all low-voltage circuits where service continuity is critical. They are especially suited for environments where reduced smoke and halogen-free emissions are important in the event of fire.
These cables are approved for installation in wet or dry locations, indoors or outdoors, in raceways, underground ducts, or for aerial use when lashed to a messenger. For sizes 1/0 AWG and larger, they are also suitable for installation in cable trays, in accordance with NEC 392.10(B)(1).

Specifications

Conductor: Uncoated soft copper per ASTM B-3. Sizes larger than 1000 kcmil are compressed stranded per ASTM B-8. Sizes 1000 kcmil and smaller are compact stranded per ASTM B-496.
Insulation: Meets or exceeds all requirements of ICEA S-95-658, NEMA WC-70 and UL 44.

Listed by Underwriters Laboratories, Inc. as Type RHH or RHW-2 and sunlight resistant. Sizes 1/0 AWG and larger are marked for use in cable tray.

Listed by CSA as RW90, -40°C, FT1, SR, Hal Free, PRI, PRII, GRI, GRII, TC, TC-ER, and FT4-ST1. 600V constructions are also available.

Product Features

- Low smoke zero halogen design.
- Sizes 1/0 AWG and larger pass the Vertical Tray Flame Test with limited smoke requirements of UL 1685 for use in cable tray.
- UL Sizes 1/0 & larger are marked ST1.
- Passes the IEEE 383-1974 Vertical Tray Flame Test.
- Sizes 500 kcmil & larger pass the Vertical Tray Flame Test with limited smoke requirement of UL1685-IEEE 1202 exposure and listed FOR CT USE, IEEE 1202/FT4 ST1 and CSA RW90, -40C, FT1, FT4-ST1, TC-ER, SR, HAL-FREE, PR I, PR II, GR I and GR II.
- Oil Resistant (PR I & PR II).
- Extreme heat resistance:
  90°C continuous rating, wet or dry
  130°C emergency overload rating
  250°C short circuit rating
- Exceptional resistance to deformation at high temperature.
- Stable electrical properties.
- Low SIC and power factor.
- Low moisture absorption.
- Mechanically rugged.
- Resistant to weather, most oils, acids and alkalies.
- More flexible, easier to install and terminate than XLPE insulation.

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Catalog Number	Conductor size AWG kcmil	Number of Strands	Composite Insulation Thickness - mils	Composite Insulation Thickness - mm	Approx. O.D. - Inches	Approx. O.D. - mm	Approx. Net Weight lbs./1000'	Approx. Ship Weight lbs./1000'	90°C Wet (1)** NEC Ampacity	75°C Wet (1)* NEC Ampacity	ICEA Ampacity (2)
1000V (CSA)											
112-24-9271	500	37	135	3.43	1.02	25.98	1762	1904	430	380	477
112-24-9273	750	61	150	3.81	1.22	30.99	2602	3164	535	475	598
112-24-9275	1000	61	150	3.81	1.37	34.80	3404	3655	615	545	689
112-24-9277	1250	91	200	5.08	1.66	42.16	4414	4698	665	590	778
112-24-9279	1500	91	200	5.08	1.77	44.96	5226	6351	705	625	848
112-24-9281	1750	127	200	5.08	1.91	48.51	6154	7279	735	650	910
112-24-9283	2000	127	200	5.08	2.02	51.31	6980	7539	750	665	962
2000V (UL & CSA)											
113-24-9271	500	37	140	3.56	1.03	26.16	1772	1914	430	380	477
113-24-9273	750	61	155	3.94	1.23	31.24	2613	3175	535	475	598
113-24-9275	1000	61	155	3.94	1.38	35.05	3417	3668	615	545	689
113-24-9277	1250	91	210	5.33	1.68	42.67	4444	4728	665	590	778
113-24-9279	1500	91	210	5.33	1.79	45.47	5258	6381	705	625	848
113-24-9281	1750	127	210	5.33	1.93	49.02	6189	7314	735	650	910
113-24-9283	2000	127	210	5.33	2.04	51.82	7013	7572	750	665	962

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

▲ **Authorized stock item.** Available from our Customer Service Centers.

(1) Ampacities are based on Table 310.16 of the National Electrical Code for these 90°C rated conductors at an ambient temperature of 30°C. The 75°C wet column is provided for additional information.

The ampacities shown apply to open runs of cable, installation in any approved raceway, direct burial in the earth, or as aerial cable on a messenger. Derating for more than three current carrying conductors within a raceway is in accordance with NEC 310.15(C)(1).

(2) Based on three (3) conductors in a single enclosed or exposed conduit. Ampacities based on 40°C air ambient using ICEA methods. For 30°C ambient multiply values by 1.10; for 50°C multiply by .90. For other ambients or installation conditions refer to Engineering Data Book EHB..

The ampacities shown also apply to cables installed in cable tray in accordance with NEC Section 392.80.

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