



Okoguard®-Okoseal® Type RHW-2/PVC



600V Power and Control

Copper Conductor/90°C Wet or Dry

For Cable Tray Use-Sunlight Resistant-Oil Resistant II



- A Stranded Copper Conductor
- B Insulation - Okoguard
- C Jacket - Okoseal

Insulation

Okoguard is Okonite's trade name for its ethylene propylene based insulation. Okoguard insulation is heat resistant, mechanically rugged, and exceptionally moisture resistant. This insulation provides an excellent balance of properties for a low voltage power cable.

Applications

For use in branch circuits up to 600V. Rated 90°C wet or dry for use in conduits, underground ducts and aerial circuits in accordance with the National Electric Code. It is applicable for cable tray use on sizes 4/0 and larger and is sunlight resistant. This construction combines the high dielectric and flexibility characteristics of EPR and PVC to resist the hostile oil environments in refinery use and permits ease of low friction installation. The jacket is UL rated Oil Resistant II.

Specifications

Conductor: Uncoated soft copper per ASTM B-3. Sizes smaller than #8 are compact stranded per ASTM B-8. Sizes #8 and larger are compact stranded per ASTM B-496.

Insulation: Okoguard (EPR) meets or exceeds all requirements of ICEA S-95-658, NEMA WC70 and UL Standard 44.

Jacket: Okoseal (PVC) meets or exceeds the requirements of ICEA S-95-658, NEMA WC70 and UL 1581, Class 43 (90°C rated PVC jacket).

Listed by Underwriters Laboratories, Inc. under miscellaneous wire category as RHW-2/PVC. Sizes 4/0 & larger are also marked "for CT-Use".

Product Features

- Sizes 4/0 AWG and larger pass the Vertical Tray Flame Test requirements of UL 1581 for use in cable tray.
- Heat resistance; 90°C continuous rating; 130°C emergency overload rating; 250°C short circuit rating
- Rated 90°C wet or dry.
- Resistant 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 alkalis.
- More flexible, easier to install and terminate than XLPE insulation.
- UL Listed.
- Constructions also available rated 2kV.
- FOR CT USE listing available on select constructions.

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Product Data Section 3: Sheet 8

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Catalog Number	Conductor Size AWG/kcmil	Insulation Thickness - mils	Jacket Thickness - mils	Nominal Diameter over Jacket	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)
112-24-3071	14	45	15	0.20	29	34	15	15	24
112-24-3111	12	45	15	0.22	39	44	20	20	24
112-24-3151	10	45	15	0.24	54	59	30	30	30
112-24-3231	8	60	30	0.33	92	103	55	50	55
112-24-3271	6	60	30	0.36	127	138	75	65	75
112-24-3311	4	60	30	0.41	182	205	95	85	97
112-24-3371	2	60	30	0.46	267	290	130	115	130
112-24-3421	1/0	80	45	0.61	438	470	170	150	179
112-24-3441	2/0	80	45	0.65	532	564	195	175	204
112-24-3481	4/0	80	45	0.75	795	834	260	230	272
112-24-3538	250	95	65	0.87	982	1021	290	255	319
112-24-3541	350	95	65	0.96	1314	1369	350	310	384
112-24-3581	500	95	65	1.08	1804	1881	430	380	477
112-24-3641	750	110	65	1.27	2649	2749	535	475	598

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

To order a color other than black, change the last digit of the catalog number as follows:			
White	2	Orange	5
Red	3	Blue	6
Green	4	Yellow	7
Example: To order #14 - Red, the catalog number would be 112-24-3073			

Ampacities

(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 Section 310.15(C)(1).

(2) Based on three (3) conductors in a single enclosed or exposed conduit. Capacities 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.

For ampacities in cable tray, see NEC Section 392.80.

*Current limited to 15, 20 and 30 amps per Section 240.4(D)(3) of the NEC for #14, #12 and #10 AWG, respectively.