Okoseal®-N Type THHN or THWN-2, VW-1

600V Power and Control

Copper Conductor/90°C Wet or Dry

A Bare Stranded Copper Conductor
B Insulation - Okoseal
C Covering - Nylon

Insulation

Okoseal is Okonite's trade name for one of its PVC (polyvinyl chloride) insulating compounds with good electrical, mechanical and flame resistant properties.

Covering

The nylon covering provides excellent mechanical strength and resistance to oil, gasoline and chemicals.

Applications

Okoseal-N Type THHN or THWN-2 600 Volt Power Cables are recommended for use in branch circuits or feeders, as machine tool wire or appliance wire. Type THHN or THWN is rated at 90°C in wet or dry locations in accordance with the National Electrical Code. These cables may be installed in wet or dry locations, indoors or outdoors, in raceways, underground ducts, or lashed to a messenger for aerial installation. Okoseal-N is not recommended for dc operation in wet locations.

Specifications

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

Insulation: Meets or exceeds UL Standard 83.

Covering: Meets or exceeds UL Standard 83.

Listed by Underwriters Laboratories, Inc. as Type THHN or THWN-2, VW-1.

Product Features

- Mechanically rugged.
- Gasoline and oil resistant II.
- Lightweight.
- Small diameter.
- Flexible, easy to handle, simple to terminate.
- Smooth, glossy surface facilitates pulling.
- Excellent oil, gasoline and weather resistance.
- Superior chemical resistance.
- Low cost.

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Catalog Number	Conductor Size AWG/kcmil	Number of Strands	Insulation Thickness - mils	Insulation Thickness - mm	Jacket Thickness - mils	Jacket Thickness - mm	Approx. O.D. - Inches	Approx. O.D. - mm	Approx. Net Weight lbs./1000'	Approx. Ship Weight lbs./1000'	75°C Wet (1)* NEC Ampacity	90°C Wet (1)* NEC Ampacity	ICEA Ampacity (2)
Okoseal-N Class B Stranding													
116-67-1071	14	7	15	0.38	4	0.10	0.11	2.79	17	22	15	15	24
116-67-1101	12	7	15	0.38	4	0.10	0.13	3.30	25	30	20	20	30
116-67-1131	10	7	20	0.51	4	0.10	0.17	4.30	40	45	30	30	42
116-67-1191	8	7	30	0.76	5	0.13	0.21	5.33	62	37	50	55	55
116-67-1221	6	7	30	0.76	5	0.13	0.25	6.35	94	99	65	75	75
116-67-1251	4	7	40	1.02	6	0.15	0.33	8.38	151	162	85	95	97
116-67-1311	2	7	40	1.02	6	0.15	0.37	9.40	231	254	115	130	130
116-67-1331	1	19	50	1.27	7	0.18	0.42	10.67	294	317	130	150	156
116-67-1351	1/0	19	50	1.27	7	0.18	0.46	11.68	365	404	150	170	179
116-67-1371	2/0	19	50	1.27	7	0.18	0.50	12.70	453	492	175	195	204
116-67-1391	3/0	19	50	1.27	7	0.18	0.55	13.97	564	603	200	225	242
116-67-1411	4/0	19	50	1.27	7	0.18	0.60	15.24	703	742	230	260	278

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
		Brown	8
Example: To order #14 - Red, the catalog number would be 116-67-1073.			

(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 Okonite's Engineering Data Book EHB.

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

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