

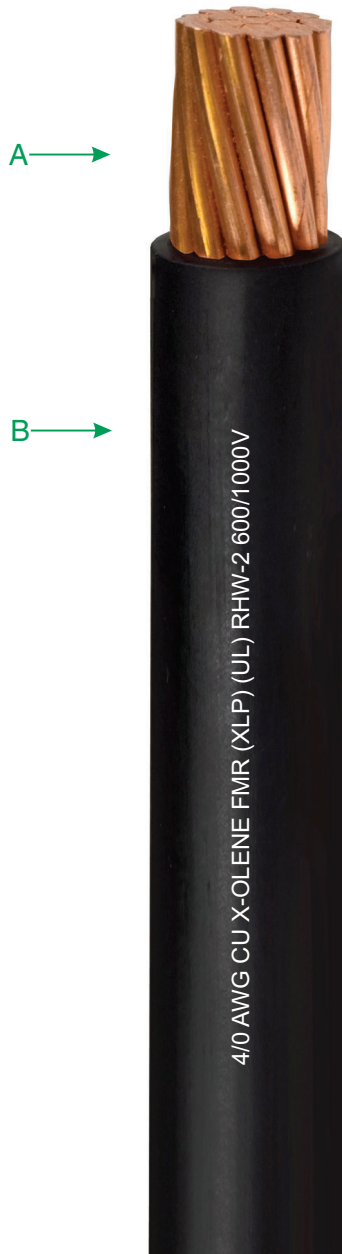


X-Olene® - FMR

Type RHH or RHW-2

600/1000V Power and Control

Copper Conductor/90°C Wet or Dry
Sunlight Resistant



A Solid or Stranded
Copper Conductor
B X-Olene FMR Insulation

Insulation

X-Olene-FMR is Okonite's trade name for its chemically cross-linked polyethylene insulating compound with outstanding electrical and physical properties. Its excellent chemical physical resistance permits X-Olene's use in areas exposed to alcohol, ketones and dilute acids and bases, without additional coverings.

Applications

X-Olene-FMR Type RHH or RHW-2 600/1000 Volt Power and Control Cables are recommended for general low voltage power and control applications. Where the National Electrical Code applies, Type RHH or RHW-2 may be used up to 90°C in dry or wet locations. These cables may be installed in wet or dry locations, indoors or outdoors, in raceways, underground ducts, directly buried in the earth, or lashed to a messenger for aerial installation.

Sizes 8 AWG & larger may be used for 600V underground distribution per ANSI/ICEA S-105-692.

Specifications

Conductor: Uncoated soft copper per ASTM B-3. Solid 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: Meets or exceeds all requirements of ICEA S-95-658, NEMA WC-70, and UL Standards 44 and 854. Listed by Underwriters Laboratories, Inc. as Type RHH or RHW-2.

Meets the requirements of ANSI/ICEA S-105-692.

Product Features

- Outstanding heat resistance.
- Rated 90°C wet or dry.
- Mechanically rugged.
- Stable electrical properties.
- Low moisture absorption.
- Highly resistant to weather and most chemicals.
- UL Listed.
- Meets ANSI/ICEA S-105-692.
- Oil resistant, PR I & PR II.
- Gasoline and oil resistant, GR I & GR II.
- Sunlight resistant.
- CSA RW90 listing on special request.
- Passes the IEEE 1202/FT4 Vertical Tray Flame Test (sizes 1/0 AWG and larger).
- VW-1.
- -40°C.

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Product Data

Section 3: Sheet 14



Catalog Number	Conductor size AWG kcmil	Number of Strands	Insulation Thickness - mils	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)
112-36-3001	14 1	45	1.14	0.16	4.06	22	27	15	15	24	
112-36-3011	14 7	45	1.14	0.17	4.32	24	29	15	15	24	
112-36-3021	12 1	45	1.14	0.18	4.57	31	36	20	20	30	
112-36-3031	12 7	45	1.14	0.19	4.57	33	38	20	20	30	
112-36-3041	10 1	45	1.14	0.20	5.08	45	50	30	30	42	
112-36-3051	10 7	45	1.14	0.21	5.33	47	52	30	30	42	
112-36-3061	8 1	60	1.52	0.26	6.60	72	77	55	30	55	
112-36-3071	8 7	60	1.52	0.26	6.60	73	78	53	30	55	
112-36-3091	6 7	60	1.52	0.30	7.62	107	118	75	65	75	
112-36-3111	4 7	60	1.52	0.34	8.64	159	170	95	85	97	
112-36-3131	2 7	60	1.52	0.40	10.16	241	264	130	115	130	
112-36-3101	1 19	80	2.03	0.47	11.94	314	357	150	130	156	
112-36-3151	1/0 19	80	2.03	0.51	12.95	388	427	170	150	179	
112-36-3161	2/0 19	80	2.03	0.55	13.97	476	515	195	175	204	
112-36-3171	3/0 19	80	2.03	0.60	15.24	585	628	225	200	242	
112-36-3181	4/0 19	80	2.03	0.65	16.51	730	769	260	230	278	
112-36-3191	250 37	95	2.41	0.73	18.54	879	907	290	255	317	
112-36-3201	300 37	95	2.41	0.78	19.81	1025	1074	320	285	351	
112-36-3211	350 37	95	2.41	0.82	20.83	1195	1254	350	310	384	
112-36-3221	500 37	95	2.41	0.87	23.62	1669	1747	430	380	477	
112-36-3231	750 61	110	2.79	1.07	28.70	2488	2674	535	475	598	
112-36-3241	1000 61	110	2.79	1.22	32.51	3277	3514	615	545	689	

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/Sol - Red, the catalog number would be 112-31-3063.			

(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. 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.

*Available with CSA RW90 rating on special request.

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