



X-Olene[®] UV Type PV Photovoltaic Wire Rated 600V, 1000V or 2000V

Copper or Aluminum Conductor
Rated 90°C Conductor Temperature



A Copper or Aluminum
B X-Olene UV Insulation

Insulation

X-Olene UV is Okonite's trade name for its chemically cross-linked polyethylene insulating compound with outstanding electrical, mechanical and physical properties. Its excellent weather resistant properties make it the perfect insulation for use in photovoltaic applications.

Applications

X-Olene UV Type PV insulated wire can be used in all raceway, direct burial and cable wiring methods as permitted by the NEC specifically listed for use on PV arrays, and wiring as part of a listed system shall be permitted. X-Olene UV PV wire is rated 90°C Wet or Dry.

Specifications

Conductor: The conductor shall be of soft annealed uncoated copper or aluminum Class B stranding.

Copper conductors sizes 14-10 AWG shall be compressed per ASTM B-8 and sizes 8-1000 kcmil shall be compact per ASTM B-496. Aluminum conductors shall be alloy 8000 series compressed per ASTM B-800.

Insulation: Meets or exceeds electrical and physical requirements of UL 4703 and UL 44, as applicable.

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 Type PV, -40°C, Sun Res, and Direct Burial (CU ≥ 2 AWG and AL ≥ 6 AWG).
- Default insulation color is black. Alternate colors available upon request.

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Product Data Section 3: Sheet 16

Catalog Number	Conductor Size		Number of Strands	Insulation Thickness - mils		Insulation Thickness - mm		Approx. O.D. - Inches		Approx. O.D. - mm		Approx. Net Weight lbs./kft		Approx. Shipping Weight lbs./kft		90°C (1) NEC Ampacity*	75°C (1) NEC Ampacity*
600V COPPER																	
112-37-8002	14	7	60	0.15	0.20	0.50	25	30	15	15							
112-37-8003	12	7	60	0.15	0.22	0.55	34	39	20	20							
112-37-8004	10	7	60	0.15	0.24	0.61	48	53	30	30							
112-37-8006	8	7	75	0.19	0.29	0.74	74	85	55	50							
112-37-8008	6	7	75	0.19	0.33	0.84	107	118	75	65							
112-37-8010	4	7	75	0.19	0.37	0.95	159	170	95	85							
112-37-8012	2	7	75	0.19	0.43	1.09	240	263	130	115							
112-37-8013	1	19	95	0.24	0.50	1.28	310	333	145	130							
112-37-8015	1/0	19	95	0.24	0.54	1.37	383	422	170	150							
112-37-8018	2/0	19	95	0.24	0.58	1.47	471	510	195	175							
112-37-8020	3/0	19	95	0.24	0.63	1.59	583	622	225	200							
112-37-8022	4/0	19	95	0.24	0.68	1.73	723	762	260	230							
112-37-8024	250	37	110	0.28	0.76	1.92	861	894	290	255							
112-37-8026	300	37	110	0.28	0.81	2.05	1021	1060	320	285							
112-37-8030	350	37	110	0.28	0.85	2.15	1180	1239	350	310							
112-37-8034	500	37	110	0.28	0.97	2.45	1651	1729	430	380							
112-37-8038	750	61	125	0.32	1.16	2.95	2460	2646	535	475							
112-37-8045	1000	61	125	0.32	1.31	3.31	3244	3481	615	545							
1000/2000V COPPER																	
113-37-8002	14	7	75	0.19	0.23	0.58	30	35	25*	20*							
113-37-8003	12	7	75	0.19	0.25	0.63	39	44	30*	25*							
113-37-8004	10	7	75	0.19	0.27	0.69	54	59	40*	35*							
113-37-8006	8	7	85	0.22	0.31	0.80	78	89	55	50							
113-37-8008	6	7	85	0.22	0.35	0.89	112	123	75	65							
113-37-8010	4	7	85	0.22	0.39	1.00	165	188	95	85							
113-37-8012	2	7	85	0.22	0.45	1.14	247	270	130	115							
113-37-8013	1	19	105	0.27	0.52	1.33	317	340	145	130							
113-37-8015	1/0	19	105	0.27	0.56	1.42	391	430	170	150							
113-37-8018	2/0	19	105	0.27	0.60	1.52	479	518	195	175							
113-37-8020	3/0	19	105	0.27	0.65	1.64	592	631	225	200							
113-37-8022	4/0	19	105	0.27	0.70	1.78	733	772	260	230							
113-37-8024	250	37	120	0.30	0.78	1.97	872	905	290	255							
113-37-8026	300	37	120	0.30	0.83	2.10	1033	1072	320	285							
113-37-8030	350	37	120	0.30	0.87	2.20	1192	1251	350	310							
113-37-8034	500	37	120	0.30	0.99	2.50	1665	1743	430	380							
113-37-8038	750	61	135	0.34	1.18	3.00	2476	2662	535	475							
113-37-8045	1000	61	135	0.34	1.33	3.37	3262	3499	615	545							

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

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

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 column is provided for additional information. Select size in accordance with Article 690.8(B).

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600V ALUMINUM													
132-37-8003	12	7	60	0.15	0.22	0.55	25	30	25*	20*			
132-37-8004	10	7	60	0.15	0.24	0.61	26	31	35*	30*			
132-37-8006	8	7	75	0.19	0.31	0.77	41	52	45*	40*			
132-37-8008	6	7	75	0.19	0.33	0.85	54	65	55	50*			
132-37-8010	4	7	75	0.19	0.38	0.97	74	85	75	65*			
132-37-8012	2	7	75	0.19	0.44	1.11	104	127	100	90			
132-37-8013	1	19	95	0.24	0.52	1.31	139	162	115	100			
132-37-8015	1/0	19	95	0.24	0.56	1.88	165	189	135	120			
132-37-8018	2/0	19	95	0.24	0.60	1.52	198	222	150	135			
132-37-8020	3/0	19	95	0.24	0.65	1.65	237	276	175	155			
132-37-8022	4/0	19	95	0.24	0.70	1.79	288	327	205	180			
132-37-8024	250	37	110	0.28	0.79	2.01	348	377	230	205			
132-37-8026	300	37	110	0.28	0.84	2.14	404	437	260	230			
132-37-8030	350	37	110	0.28	0.89	2.27	460	497	280	250			
132-37-8034	500	37	110	0.28	1.02	2.59	623	686	350	310			
132-37-8038	750	61	125	0.32	1.23	3.13	914	1028	435	385			
132-37-8045	1000	61	125	0.32	1.38	3.51	1180	1332	500	445			
1000/2000V ALUMINUM													
133-37-8003	12	7	75	0.19	0.25	0.63	32	37	25*	20*			
133-37-8004	10	7	75	0.19	0.27	0.69	32	37	35*	30*			
133-37-8006	8	7	85	0.22	0.33	0.83	46	57	45*	40*			
133-37-8008	6	7	85	0.22	0.35	0.90	58	69	55	50			
133-37-8010	4	7	85	0.22	0.40	1.02	79	102	75	65			
133-37-8012	2	7	85	0.22	0.46	1.16	111	134	100	90			
133-37-8013	1	19	105	0.27	0.54	1.36	146	170	115	100			
133-37-8015	1/0	19	105	0.27	0.58	1.47	173	199	135	120			
133-37-8018	2/0	19	105	0.27	0.62	1.57	206	230	150	135			
133-37-8020	3/0	19	105	0.27	0.67	1.70	247	286	175	155			
133-37-8022	4/0	19	105	0.27	0.72	1.84	298	337	205	180			
133-37-8024	250	37	120	0.30	0.81	2.06	359	392	230	205			
133-37-8026	300	37	120	0.30	0.86	2.19	416	449	260	230			
133-37-8030	350	37	120	0.30	0.91	2.32	473	510	280	250			
133-37-8034	500	37	120	0.30	1.04	2.65	638	695	350	310			
133-37-8038	750	61	135	0.34	1.25	3.18	931	1045	435	385			
133-37-8045	1000	61	135	0.34	1.40	3.56	1199	1351	500	445			

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A/22080316