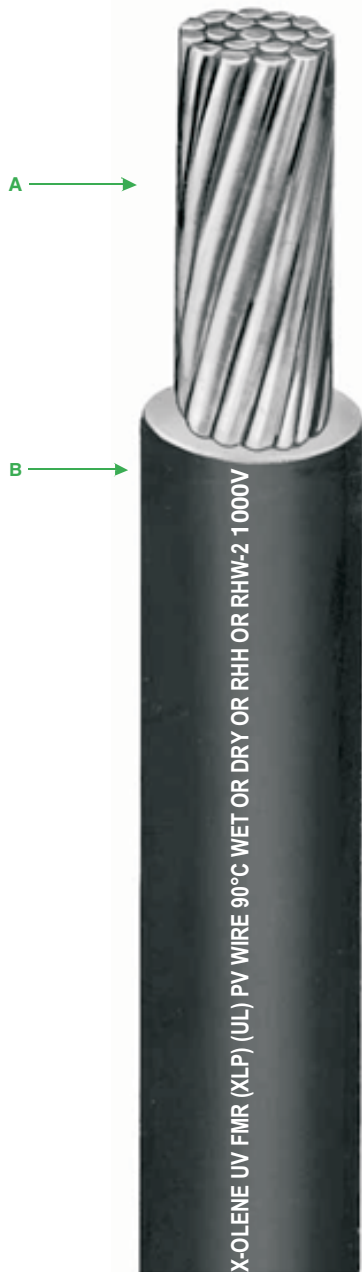




X-Olene UV FMR® Type PV or RHH or RHW-2 or USE-2 Photovoltaic Wire

Rated 600V, 1000V or 2000V

Copper or Aluminum Conductor
Rated 90°C Conductor Temperature



A Copper or Aluminum Conductor
B X-Olene UV FMR Insulation

Insulation

X-Olene UV FMR 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 FMR 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 FMR 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, DIR BUR, Gasoline Resistant, Oil Res I & II, VW-1, sizes 1/0 and larger are listed For CT Use 1202/FT4.
- UL Listed USE-2 (600V rating only).
- Available in colors.

X-Olene UV FMR® Type PV or RHH or RHW-2 or USE-2

Product Data Section 3: Sheet 11

Photovoltaic Wire

Rated 600V, 1000V or 2000V

Copper or Aluminum Conductor

Rated 90°C Conductor Temperature

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													
112-32-8002	14	7	60	0.15	0.20	0.50	29	34	25*	20*			
112-32-8003	12	7	60	0.15	0.22	0.55	39	44	30*	25*			
112-32-8004	10	7	60	0.15	0.24	0.61	54	59	40*	35*			
112-32-8006	8	7	75	0.19	0.29	0.74	82	93	55	50			
112-32-8008	6	7	75	0.19	0.33	0.84	117	128	75	65			
112-32-8010	4	7	75	0.19	0.37	0.95	171	182	95	85			
112-32-8012	2	7	75	0.19	0.43	1.09	254	277	130	115			
112-32-8013	1	19	95	0.24	0.50	1.28	330	353	145	130			
112-32-8015	1/0	19	95	0.24	0.54	1.37	405	444	170	150			
112-32-8018	2/0	19	95	0.24	0.58	1.47	494	533	195	175			
112-32-8020	3/0	19	95	0.24	0.63	1.59	609	648	225	200			
112-32-8022	4/0	19	95	0.24	0.68	1.73	752	791	260	230			
112-32-8024	250	37	110	0.28	0.76	1.92	897	936	290	255			
112-32-8026	300	37	110	0.28	0.81	2.05	1060	1115	320	285			
112-32-8030	350	37	110	0.28	0.85	2.15	1221	1276	350	310			
112-32-8034	500	37	110	0.28	0.97	2.45	1699	1763	430	380			
112-32-8038	750	61	125	0.32	1.16	2.95	2526	2626	535	475			
112-32-8045	1000	61	125	0.32	1.31	3.31	3318	3434	615	545			
1000/2000V COPPER													
113-32-8002	14	7	75	0.19	0.23	0.58	35	40	25*	20*			
113-32-8003	12	7	75	0.19	0.25	0.63	46	51	30*	25*			
113-32-8004	10	7	75	0.19	0.27	0.69	62	67	40*	35*			
113-32-8006	8	7	85	0.22	0.31	0.80	88	99	55	50			
113-32-8008	6	7	85	0.22	0.35	0.89	123	134	75	65			
113-32-8010	4	7	85	0.22	0.39	1.00	178	201	95	85			
113-32-8012	2	7	85	0.22	0.45	1.14	262	285	130	115			
113-32-8013	1	19	105	0.27	0.52	1.33	339	378	145	130			
113-32-8015	1/0	19	105	0.27	0.56	1.42	415	454	170	150			
113-32-8018	2/0	19	105	0.27	0.60	1.52	505	544	195	175			
113-32-8020	3/0	19	105	0.27	0.65	1.64	621	660	225	200			
113-32-8022	4/0	19	105	0.27	0.70	1.78	765	804	260	230			
113-32-8024	250	37	120	0.30	0.78	1.97	911	944	290	255			
113-32-8026	300	37	120	0.30	0.83	2.10	1075	1114	320	285			
113-32-8030	350	37	120	0.30	0.87	2.20	1237	1296	350	310			
113-32-8034	500	37	120	0.30	0.99	2.50	1718	1796	430	380			
113-32-8038	750	61	135	0.34	1.18	3.00	2547	2756	535	475			
113-32-8045	1000	61	135	0.34	1.33	3.37	3343	3580	615	545			

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

Ampacities

(1) Ampacities are based on Table 310.15(B)(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).

* Refer to Article 240.4(D) for conductor overcurrent protection.

X-Olene UV FMR® Type PV or RHH or RHW-2 or USE-2

Product Data Section 3: Sheet 11

Photovoltaic Wire

Rated 600V, 1000V or 2000V

Copper or Aluminum Conductor

Rated 90°C Conductor Temperature

Catalog Number	Conductor Size		Number of Strands	Insulation Thickness - mils		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 ALUMINUM													
132-32-8003	12	7	60	0.15	0.22	0.55	25	30	25*	20*			
132-32-8004	10	7	60	0.15	0.24	0.61	32	37	35*	30*			
132-32-8006	8	7	75	0.19	0.31	0.77	50	61	45*	40*			
132-32-8008	6	7	75	0.19	0.33	0.85	64	75	55	50*			
132-32-8010	4	7	75	0.19	0.38	0.97	86	97	75	65*			
132-32-8012	2	7	75	0.19	0.44	1.11	119	142	100	90			
132-32-8013	1	19	95	0.24	0.52	1.31	160	183	115	100			
132-32-8015	1/0	19	95	0.24	0.56	1.88	188	212	135	120			
132-32-8018	2/0	19	95	0.24	0.60	1.52	223	247	150	135			
132-32-8020	3/0	19	95	0.24	0.65	1.65	266	305	175	155			
132-32-8022	4/0	19	95	0.24	0.70	1.79	320	359	205	180			
132-32-8024	250	37	110	0.28	0.79	2.01	387	426	230	205			
132-32-8026	300	37	110	0.28	0.84	2.14	447	502	260	230			
132-32-8030	350	37	110	0.28	0.89	2.27	507	562	280	250			
132-32-8034	500	37	110	0.28	1.02	2.59	679	746	350	310			
132-32-8038	750	61	125	0.32	1.23	3.13	990	1080	435	385			
132-32-8045	1000	61	125	0.32	1.38	3.51	1267	1373	500	445			
1000/2000V ALUMINUM													
133-32-8003	12	7	75	0.19	0.25	0.63	32	37	25*	20*			
133-32-8004	10	7	75	0.19	0.27	0.69	39	44	35*	30*			
133-32-8006	8	7	85	0.22	0.33	0.83	56	67	45*	40*			
133-32-8008	6	7	85	0.22	0.35	0.90	70	81	55	50			
133-32-8010	4	7	85	0.22	0.40	1.02	93	116	75	65			
133-32-8012	2	7	85	0.22	0.46	1.16	127	150	100	90			
133-32-8013	1	19	105	0.27	0.54	1.36	169	193	115	100			
133-32-8015	1/0	19	105	0.27	0.58	1.47	199	223	135	120			
133-32-8018	2/0	19	105	0.27	0.62	1.57	235	259	150	135			
133-32-8020	3/0	19	105	0.27	0.67	1.70	278	317	175	155			
133-32-8022	4/0	19	105	0.27	0.72	1.84	333	372	205	180			
133-32-8024	250	37	120	0.30	0.81	2.06	402	432	230	205			
133-32-8026	300	37	120	0.30	0.86	2.19	463	498	260	230			
133-32-8030	350	37	120	0.30	0.91	2.32	524	572	280	250			
133-32-8034	500	37	120	0.30	1.04	2.65	698	746	350	310			
133-32-8038	750	61	135	0.34	1.25	3.18	1013	1098	435	385			
133-32-8045	1000	61	135	0.34	1.40	3.56	1293	1405	500	445			

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