

SunGen® Photovoltaic Wire

XLPE

600 V, 1000 V, 2000 V, CSA Type RPV90, Single Conductor, Aluminum



Product Construction:

Conductor:

- 6 AWG thru 2 AWG Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801
- 1 AWG thru 350 kcmil compact stranded SIW aluminum alloy (8000 Series) per ASTM B800, ASTM B801 and ASTM B836
- 400 kcmil thru 1000 kcmil Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) SIZE (AWG OR KCMIL) (MM²) AL ACM SUNGEN® RPV90 XLPE (-40°C) (VOLTS) SR CSA LL 28117 YEAR DATE (TIME OF MFG) SEQUENTIAL FOOTAGE

Options:

- Available in black and full color skin coat

Applications:

- Single conductor 600 V, 1000 V and 2000 V photovoltaic wire rated 90°C wet or dry for interconnection wiring of grounded and ungrounded photovoltaic power systems described in CSA 22.2 No. 271
- Stable electrical properties over a broad temperature range

Features:

- Available in 600 V, 1000 V or 2000 V
- Rated 90°C wet or dry locations
- UV/sunlight-resistant, moisture-resistant and flame-retardant insulation
- Meets cold bend and cold impact tests at -40°C
- Excellent electrical, thermal and physical properties
- Resistant to crush, compression cuts and heat deformation

Compliances:

- Industry Compliances:**
 - CSA 22.2 No. 271 File #LL 28117
 - Canadian Electrical Code (CEC)
- Flame Test Compliances:**
 - CSA 22.2 No. 2556
- Other Compliances:**
 - OSHA Acceptable
 - RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels



COND. SIZE (AWG/kcmil)	NUMBER OF WIRES	NOMINAL CONDUCTOR DIAMETER		MIN. AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT	
		IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
6 AWG - 1000 kcmil CONDUCTORS - 600 V											
6*	7	0.169	4.29	0.045	1.14	0.259	6.58	25	37	37	55
4*	7	0.213	5.41	0.045	1.14	0.303	7.70	39	58	55	82
2*	7	0.268	6.81	0.045	1.14	0.358	9.09	62	92	82	122
1*	8	0.298	7.57	0.055	1.40	0.408	10.36	79	118	106	158
1/0*	10	0.337	8.56	0.055	1.40	0.447	11.35	99	147	130	193
2/0*	12	0.374	9.50	0.055	1.40	0.484	12.29	125	186	159	237
3/0*	16	0.421	10.69	0.055	1.40	0.531	13.49	158	235	197	293
4/0*	19	0.470	11.94	0.055	1.40	0.580	14.73	199	296	243	362
250*	23	0.514	13.06	0.065	1.65	0.644	16.36	235	350	290	432
350*	26	0.607	15.42	0.065	1.65	0.737	18.72	329	490	329	490
500*	37	0.736	18.69	0.065	1.65	0.866	22.00	471	701	541	805
750*	61	0.908	23.06	0.080	2.03	1.068	27.13	706	1051	813	1210
1000*	61	1.060	26.92	0.080	2.03	1.220	30.99	941	1400	1066	1586
6 AWG - 1000 kcmil CONDUCTORS - 1000 V											
6*	7	0.169	4.29	0.060	1.52	0.289	7.34	25	37	43	64
4*	7	0.213	5.41	0.060	1.52	0.333	8.46	39	58	61	91
2*	7	0.268	6.81	0.060	1.52	0.388	9.86	62	92	89	132
1*	8	0.298	7.57	0.080	2.03	0.458	11.63	79	118	120	179
1/0*	10	0.337	8.56	0.080	2.03	0.497	12.62	99	147	145	216
2/0*	12	0.374	9.50	0.080	2.03	0.534	13.56	125	186	176	262
3/0*	16	0.421	10.69	0.080	2.03	0.581	14.76	158	235	214	318
4/0*	19	0.470	11.94	0.080	2.03	0.630	16.00	199	296	262	390
250*	23	0.514	13.06	0.090	2.29	0.694	17.63	235	350	311	463
350*	26	0.607	15.42	0.090	2.29	0.787	19.99	329	490	418	622
500*	37	0.736	18.69	0.090	2.29	0.916	23.27	471	701	570	848
750*	61	0.908	23.06	0.090	2.29	1.088	27.64	706	1051	826	1229
1000*	61	1.060	26.92	0.090	2.29	1.240	31.50	941	1400	1081	1609
6 AWG - 1000 kcmil CONDUCTORS - 2000 V											
6*	7	0.169	4.29	0.070	1.78	0.309	7.85	25	37	46	68
4*	7	0.213	5.41	0.070	1.78	0.353	8.97	39	58	65	97
2*	7	0.268	6.81	0.070	1.78	0.408	10.36	62	92	94	140
1*	8	0.298	7.57	0.090	2.29	0.478	12.14	79	118	126	188
1/0*	10	0.337	8.56	0.090	2.29	0.517	13.13	99	147	152	226
2/0*	12	0.374	9.50	0.090	2.29	0.554	14.07	125	186	183	272
3/0*	16	0.421	10.69	0.090	2.29	0.601	15.27	158	235	222	330
4/0*	19	0.470	11.94	0.105	2.67	0.650	16.51	199	296	270	402
250*	23	0.514	13.06	0.105	2.67	0.724	18.39	235	350	324	482
350*	26	0.607	15.42	0.105	2.67	0.817	20.75	329	490	434	646
500*	37	0.736	18.69	0.105	2.67	0.946	24.03	471	701	587	874
750*	61	0.908	23.06	0.120	3.05	1.148	29.16	706	1051	869	1293
1000*	61	1.060	26.92	0.120	3.05	1.300	33.02	941	1400	1129	1680

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.



Renewable Energy Cable