



# Harnessing the Renewable Power of the Sun

## Solar Photovoltaic Wire: Why Choose SunGen®?

### The SunGen® Difference

As a company committed to environmental stewardship and renewable energy, General Cable has specifically designed its UL 4703 SunGen® suite of photovoltaic (PV) products to effectively and efficiently connect solar panels and concentrated solar power technologies while being able to withstand the harsh operating environments of solar power applications.

- Resistant to UV/sunlight, ozone and water absorption
- Rated for direct burial
- Stable electrical properties over a broad temperature range (-40°C to 90°C)
- Excellent flexibility and performance in low-temperature environments
- Highly resistant to deformation, even in prolonged exposure at high temperatures
- Mechanically rugged construction resists cutting, tearing and abrasions
- CSA RPV90 and RPVU90 Listed
- TÜV certified, halogen-free, fire-retardant and low corrosive gas emission provide added degree of safety
- Single and multi-conductor cable constructions
- 18 AWG – 1000 kcmil stranded copper and 6 AWG – 1000 kcmil aluminum conductors

Per NEC Article 690, single conductor cable listed and labeled as photovoltaic (PV) wire and single conductor cable Type USE-2 shall be permitted in exposed outdoor locations in photovoltaic source circuits for photovoltaic module interconnections within the photovoltaic array. When it comes to the wire and cable for today's solar energy projects with PV module interconnections within the photovoltaic array, General Cable's SunGen® UL Listed 4703 PV wire carries a quad rating and offers far more superior sunlight resistance and low-temperature flexibility for maximum performance and reliability for long-term outdoor exposure to the sun.

**SunGen® — the obvious choice for solar photovoltaic applications. See for yourself. Key Performance Differences Between UL Type PV and UL Type USE-2 Wire**

PV Wire Applications/Compliances	SunGen® PV Wire - UL Type PV/RHH/RHW-2/USE-2	UL Type USE-2
Voltage: 600, 1000 and 2000 Volts		
Direct Buried: 600, 1000 and 2000 Volts		
Conduit/Duct/Raceway		
NEC Article 690 – PV Systems		
UL 4703 PV Wire		
UL 854 USE-2		
Flame Test Requirements: FT1 & VW-1		
Maximum Operating Temperature: 90°C Wet or Dry		
Cold Bend: -40°C		
Weatherometer Sunlight Resistance: 720 Hour		



DEFORMATION-RESISTANT



DIRECT BURIAL



FLEXIBLE



MOISTURE-RESISTANT



COLD IMPACT



OIL-RESISTANT



UV/SUNLIGHT-RESISTANT



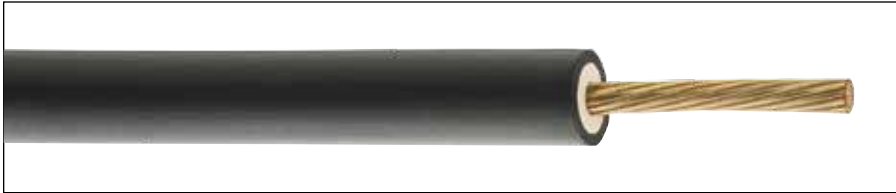
MECHANICALLY RUGGED





# SunGen® Dual-Layer EPR/XL-CPE, Photovoltaic Wire, 600 V, UL Type PV

## Single Conductor, Copper



### Product Construction:

#### Conductor:

- 14 AWG thru 2 AWG tinned coated compressed copper. Class C stranding per ASTM B33 and B8
- 1 AWG thru 1000 kcmil tinned coated compressed copper. Class B stranding per ASTM B33 and B8

#### Insulation:

- Lead-free Ethylene Propylene Rubber (EPR)

#### Jacket:

- Black, lead-free, flame-retardant, oil-, chemical- and sunlight-resistant Cross-linked Chlorinated Polyethylene (XL-CPE)

#### Print:

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® 600 V PV WIRE DIR BUR OR RHH OR RHW-2 OR USE-2 (SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

#### Options:

- Bare copper conductor
- Other stranding options are available upon request
- Now available in colors

#### Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 600 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

#### Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range

#### Features (cont'd.):

- Extra tough, mechanically rugged dual-layer construction
- Increased flexibility
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

#### Compliances:

##### Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494 or E54260
- UL 854 Type USE-2, UL File # E90499 or E86307
- RoHS Compliant

##### Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

##### Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

#### Packaging:

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

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
<b>14 AWG - 1000 kcmil CONDUCTORS</b>														
12211.711400	14	19/.0142	0.070	1.78	0.030	0.76	0.030	0.76	0.201	5.10	13	19	32	48
12211.711200	12	19/.0185	0.088	2.23	0.030	0.76	0.030	0.76	0.219	5.56	20	30	42	62
12211.711100	10	19/.0234	0.112	2.84	0.030	0.76	0.030	0.76	0.242	6.15	32	48	59	88
12211.710800*	8	19/.0295	0.143	3.63	0.045	1.14	0.030	0.76	0.310	7.87	50	74	89	132
12211.710600*	6	19/.0372	0.184	4.67	0.045	1.14	0.045	1.14	0.376	9.55	81	121	141	210
12211.710400*	4	19/.0469	0.234	5.94	0.045	1.14	0.045	1.14	0.420	10.67	129	192	202	301
12211.710200*	2	19/.0526	0.296	7.52	0.045	1.14	0.045	1.14	0.487	12.37	205	305	292	434
12211.710100*	1	19/.0664	0.323	8.20	0.055	1.40	0.060	1.52	0.539	13.69	258	384	408	607
12211.715100*	1/0	19/.0740	0.370	9.40	0.055	1.40	0.060	1.52	0.587	14.91	326	485	478	711
12211.715200*	2/0	19/.0837	0.410	10.41	0.055	1.40	0.060	1.52	0.632	16.05	411	611	590	878
12211.715300*	3/0	19/.0940	0.460	11.68	0.055	1.40	0.060	1.52	0.678	17.22	518	771	734	1092
12211.715400*	4/0	19/.1055	0.520	13.21	0.055	1.40	0.060	1.52	0.738	18.74	653	972	865	1287
12211.716250*	250	37/.0822	0.558	14.17	0.065	1.65	0.080	2.03	0.862	21.89	772	1149	995	1481
12211.716300*	300	37/.0900	0.611	15.52	0.065	1.65	0.080	2.03	0.915	23.24	926	1378	1167	1737
12211.716350*	350	37/.0972	0.661	16.79	0.065	1.65	0.080	2.03	0.965	24.51	1063	1582	1321	1966
12211.716400*	400	37/.1040	0.706	17.93	0.065	1.65	0.080	2.03	1.010	25.65	1235	1838	1508	2244
12211.716500*	500	37/.1159	0.789	20.04	0.065	1.65	0.080	2.03	1.093	27.76	1509	2246	1810	2694
12211.716600*	600	61/.0992	0.866	22.00	0.080	2.03	0.080	2.03	1.200	30.48	1883	2802	2237	3329
12211.716750*	750	61/.1109	0.968	24.59	0.080	2.03	0.080	2.03	1.302	33.07	2316	3447	2707	4028
12211.717000*	1000	61/.1280	1.117	28.37	0.080	2.03	0.080	2.03	1.451	36.86	3088	4595	3534	5259

Dimensions and weights are nominal; subject to industry tolerances.

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



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47400



# SunGen® Dual-Layer EPR/XL-CPE, Photovoltaic Wire, 2000 V, UL Type PV

## Single Conductor, Copper



### Product Construction:

#### Conductor:

- 14 AWG thru 2 AWG tinned coated compressed copper. Class C stranding per ASTM B33 and B8
- 1 AWG thru 1000 kcmil tinned coated compressed copper. Class B stranding per ASTM B33 and B8

#### Insulation:

- Lead-free Ethylene Propylene Rubber (EPR)

#### Jacket:

- Black, lead-free, flame-retardant, oil-, chemical- and sunlight-resistant Cross-linked Chlorinated Polyethylene (XL-CPE)

#### Print:

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE DIR BUR OR RHH OR RHW-2 OR 600 V USE-2 (SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 c(UL) RWU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

### Options:

- Bare copper conductor
- Other stranding options are available upon request
- Now available in colors

### Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

### Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Extra tough, mechanically rugged dual-layer construction

### Features (cont'd.):

- Increased flexibility
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

### Compliances:

#### Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494 or E54260
- UL 854 Type USE-2 for 600 V, UL File # E90499 or E86307
- RoHS Compliant

#### Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

#### Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

### Packaging:

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

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
<b>14 AWG - 1000 kcmil CONDUCTORS</b>														
12221.711400	14	19/.0142	0.070	1.78	0.045	1.14	0.030	0.76	0.232	5.89	13	19	36	54
12221.711200	12	19/.0185	0.088	2.23	0.045	1.14	0.030	0.76	0.250	6.35	20	30	46	68
12221.711100	10	19/.0234	0.112	2.84	0.045	1.14	0.030	0.76	0.273	6.93	32	48	64	95
12221.710800*	8	19/.0295	0.143	3.63	0.055	1.40	0.030	0.76	0.332	8.43	50	74	95	141
12221.710600*	6	19/.0372	0.184	4.67	0.055	1.40	0.045	1.14	0.398	10.11	81	121	148	220
12221.710400*	4	19/.0469	0.234	5.94	0.055	1.40	0.045	1.14	0.442	11.23	129	192	208	309
12221.710200*	2	19/.0526	0.296	7.52	0.055	1.40	0.045	1.14	0.507	12.88	205	305	306	455
12221.710100*	1	19/.0664	0.323	8.20	0.065	1.65	0.060	1.52	0.561	14.25	258	384	440	655
12221.715100*	1/0	19/.0740	0.370	9.40	0.065	1.65	0.060	1.52	0.607	15.42	326	485	505	751
12221.715200*	2/0	19/.0837	0.410	10.41	0.065	1.65	0.060	1.52	0.652	16.56	411	611	615	915
12221.715300*	3/0	19/.0940	0.460	11.68	0.065	1.65	0.060	1.52	0.700	17.78	518	771	747	1111
12221.715400*	4/0	19/.1055	0.520	13.21	0.065	1.65	0.060	1.52	0.760	19.30	653	972	891	1326
12221.716250*	250	37/.0822	0.558	14.17	0.075	1.91	0.080	2.03	0.882	22.40	772	1149	1012	1506
12221.716300*	300	37/.0900	0.611	15.52	0.075	1.91	0.080	2.03	0.935	23.75	926	1378	1184	1763
12221.716350*	350	37/.0972	0.661	16.79	0.075	1.91	0.080	2.03	0.985	25.02	1063	1582	1339	1993
12221.716400*	400	37/.1040	0.706	17.93	0.075	1.91	0.080	2.03	1.030	26.16	1235	1838	1527	2273
12221.716500*	500	37/.1159	0.789	20.04	0.075	1.91	0.080	2.03	1.113	28.27	1509	2246	1831	2725
12221.716600*	600	61/.0992	0.866	22.00	0.090	2.29	0.080	2.03	1.222	31.04	1883	2802	2262	3367
12221.716750*	750	61/.1109	0.968	24.59	0.090	2.29	0.080	2.03	1.324	33.63	2316	3447	2734	4069
12221.717000*	1000	61/.1280	1.117	28.37	0.090	2.29	0.080	2.03	1.473	37.41	3088	4595	3564	5303

Dimensions and weights are nominal; subject to industry tolerances.

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



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47400



# SunGen<sup>®</sup> XLPE, Photovoltaic Wire, 600 V, UL Type PV or 1000 V, CSA RPVU90 Single Conductor, Copper



### Product Construction:

#### Conductor:

- 18 AWG thru 2 AWG tinned coated compressed copper. Class C stranding per ASTM B33 and B8
- 1 AWG thru 1000 kcmil tinned coated compressed copper. Class B stranding per ASTM B33 and B8

#### Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), black

#### Print:

- 18 AWG and 16 AWG: GENERAL CABLE<sup>®</sup> (PLANT OF MFG) SUNGEN<sup>®</sup> 600 V PV WIRE DIR BUR 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK
- 14 AWG thru 1000 kcmil: GENERAL CABLE<sup>®</sup> (PLANT OF MFG) SUNGEN<sup>®</sup> 600 V PV WIRE DIR BUR OR 2000 V RHH OR RHW-2 OR 600 V USE-2 (SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 (CSA) RPVU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

#### Options:

- Bare copper conductor
- Other stranding options are available upon request
- Now available in colors

#### Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 600 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

#### Features:

- Rated 90°C wet and dry
- Rated for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Increased flexibility

#### Features (cont'd.):

- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

#### Compliances:

##### Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494
- UL 854 Type USE-2, UL File # E90499
- CSA C22.2 No. 271 RPVU90

##### Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

##### Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

#### Packaging:

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

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
<b>18 AWG - 1000 kcmil CONDUCTORS</b>												
12411.711800*	18	19/.0092	0.045	1.14	0.060	1.52	0.169	4.29	5	7	14	21
12411.711600*	16	19/.0117	0.056	1.42	0.060	1.52	0.180	4.57	8	12	18	27
12411.711400	14	19/.0142	0.070	1.78	0.060	1.52	0.194	4.93	13	19	27	40
12411.711200	12	19/.0185	0.088	2.23	0.060	1.52	0.214	5.43	20	30	36	54
12411.711100	10	19/.0234	0.112	2.84	0.060	1.52	0.238	6.04	32	48	51	76
12411.710800*	8	19/.0295	0.143	3.63	0.080	2.03	0.307	7.80	50	74	85	126
12411.710600*	6	19/.0372	0.184	4.67	0.080	2.03	0.348	8.84	81	121	123	183
12411.710400*	4	19/.0469	0.234	5.94	0.080	2.03	0.398	10.11	129	192	180	268
12411.710200*	2	19/.0526	0.296	7.52	0.080	2.03	0.460	11.68	205	305	267	397
12411.710100*	1	19/.0664	0.323	8.20	0.095	2.41	0.515	13.08	258	384	333	495
12411.715100*	1/0	19/.0740	0.370	9.40	0.095	2.41	0.563	14.30	326	485	410	610
12411.715200*	2/0	19/.0837	0.410	10.41	0.095	2.41	0.608	15.44	411	611	502	747
12411.715300*	3/0	19/.0940	0.460	11.68	0.095	2.41	0.658	16.71	518	771	620	922
12411.715400*	4/0	19/.1055	0.520	13.21	0.095	2.41	0.714	18.13	653	972	767	1141
12411.716250*	250	37/.0822	0.558	14.17	0.110	2.79	0.784	19.91	772	1149	923	1374
12411.716300*	300	37/.0900	0.611	15.52	0.110	2.79	0.837	21.26	926	1378	1090	1622
12411.716350*	350	37/.0972	0.661	16.79	0.110	2.79	0.887	22.53	1063	1582	1240	1845
12411.716400*	400	37/.1040	0.706	17.93	0.110	2.79	0.932	23.67	1235	1838	1423	2117
12411.716500*	500	37/.1159	0.789	20.04	0.110	2.79	1.015	25.78	1509	2246	1718	2557
12411.716600*	600	61/.0992	0.866	22.00	0.125	3.18	1.122	28.50	1883	2802	2136	3179
12411.716750*	750	61/.1109	0.968	24.59	0.125	3.18	1.224	31.09	2316	3447	2597	3865
12411.717000*	1000	61/.1280	1.117	28.37	0.125	3.18	1.373	34.87	3088	4595	3411	5076

Dimensions and weights are nominal; subject to industry tolerances.  
\* Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.



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47400



**SunGen®** XLPE, Photovoltaic Wire  
600 V, 1000 V, 2000 V, UL Type PV  
Single Conductor, Aluminum



**Features:**

- Rated 90°C wet and dry
- Rated for direct burial
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Compact stranding
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

**Product Construction:**

**Conductor:**

- 6 AWG thru 1000 kcmil compact aluminum (AA-8000 series)

**Insulation:**

- Flame-retardant Cross-linked Polyethylene (XLPE), black

**Print:**

- GENERAL CABLE (PLANT OF MFG) SUNGEN® AA-8000 AL XLPE (VOLTAGE) RHH RHW-2 (SIZE) 90°C SUN RES (-40°C) PV WIRE VW-1 DIR BUR (UL) YEAR DATE TIME SEQUENTIAL FOOTAGE MARK

**Options:**

- Available with WIDESTRIPE® phase identification for non-CT Rated only
- CT rating available for sizes 1/0 and larger

**Applications:**

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 600 V, 1000 V, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

**Compliances:**

**Industry Compliances:**

- UL 4703 Type PV
- National Electrical Code (NEC)
- UL 44 Type RHH or RHW-2

**Flame Test Compliances:**

- UL 2556 VW-1

**Packaging:**

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

COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MIN. AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM WEIGHT		NET WEIGHT	
		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
<b>6 AWG - 1000 kcmil CONDUCTORS 600 V UL TYPE PV</b>											
6	7/.0683	0.169	4.29	0.075	1.91	0.319	8.10	25	36	51	75
4	7/.0855	0.213	5.41	0.075	1.91	0.363	9.22	39	57	71	103
2	7/.1082	0.268	6.81	0.075	1.91	0.418	10.62	63	91	101	146
1	8/.1145	0.298	7.57	0.095	2.41	0.488	12.40	79	115	136	198
1/0	10/.1145	0.337	8.56	0.095	2.41	0.527	13.39	99	145	163	237
2/0	12/.1145	0.374	9.50	0.095	2.41	0.564	14.33	125	182	195	284
3/0	16/.1145	0.421	10.69	0.095	2.41	0.611	15.52	158	230	236	343
4/0	19/.1145	0.470	11.94	0.095	2.41	0.660	16.76	199	290	286	415
250	23/.1145	0.514	13.06	0.110	2.79	0.734	18.64	235	342	343	499
300	22/.1280	0.566	14.38	0.110	2.79	0.786	19.96	282	411	400	582
350	26/.1280	0.607	15.42	0.110	2.79	0.827	21.01	329	479	455	662
400	37/.1110	0.659	16.74	0.110	2.79	0.879	22.33	377	548	501	729
500	37/.1235	0.736	18.69	0.110	2.79	0.956	24.28	471	685	608	885
600	61/.1040	0.813	20.65	0.125	3.18	1.063	27.00	565	822	737	1072
750	61/.1165	0.908	23.06	0.125	3.18	1.158	29.41	706	1027	896	1304
1000	61/.1130	1.060	26.92	0.125	3.18	1.310	33.27	941	1370	1161	1690



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47400

**SunGen®** XLPE, Photovoltaic Wire  
600 V, 1000 V, 2000 V, UL Type PV  
Single Conductor, Aluminum



COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MIN. AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM WEIGHT		NET WEIGHT	
		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
<b>6 AWG - 1000 kcmil CONDUCTORS 1000 V/2000 V UL TYPE PV</b>											
6	7/.0683	0.169	4.29	0.085	2.16	0.339	8.61	25	36	56	81
4	7/.0855	0.213	5.41	0.085	2.16	0.383	9.73	39	57	76	111
2	7/.1082	0.268	6.81	0.085	2.16	0.438	11.13	63	91	107	155
1	8/.1145	0.298	7.57	0.105	2.67	0.508	12.90	79	115	143	208
1/0	10/.1145	0.337	8.56	0.105	2.67	0.547	13.89	99	145	171	248
2/0	12/.1145	0.374	9.50	0.105	2.67	0.584	14.83	125	182	203	295
3/0	16/.1145	0.421	10.69	0.105	2.67	0.631	16.03	158	230	245	356
4/0	19/.1145	0.470	11.94	0.105	2.67	0.680	17.27	199	290	295	429
250	23/.1145	0.514	13.06	0.120	3.05	0.754	19.15	235	342	353	514
300	22/.1280	0.566	14.38	0.120	3.05	0.806	20.47	282	411	411	598
350	26/.1280	0.607	15.42	0.120	3.05	0.847	21.51	329	479	467	679
400	37/.1110	0.659	16.74	0.120	3.05	0.899	22.83	377	548	514	747
500	37/.1235	0.736	18.69	0.120	3.05	0.976	24.79	471	685	622	905
600	61/.1040	0.813	20.65	0.135	3.43	1.083	27.51	565	822	752	1095
750	61/.1165	0.908	23.06	0.135	3.43	1.178	29.92	706	1027	913	1328
1000	61/.1130	1.060	26.92	0.135	3.43	1.330	33.78	941	1370	1180	1717



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**SunGen®** XLPE, Photovoltaic Wire  
600 V, 1000 V, 2000 V, CSA RPV90  
Single Conductor, Aluminum



**Features:**

- Rated 90°C wet and dry
- Stable electrical properties over a broad temperature range
- Compact stranding
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

**Compliances:**

**Industry Compliances:**

- CSA 22.2 No. 271 and No. 38 RPV90
- Canadian Electrical Code (CEC)

**Flame Test Compliances:**

- Burning particles flame test compliant

**Packaging:**

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

**Product Construction:**

**Conductor:**

- 6 AWG thru 1000 kcmil compact aluminum (AA-8000 series)

**Insulation:**

- Cross-linked Polyethylene (XLPE), black

**Print:**

- GENERAL CABLE (PLANT OF MFG) SUNGEN®  
AL ACM RPV90 XLPE (-40°C) (VOLTAGE) SR CSA  
LL28117 YEAR DATE TIME SIZE SEQUENTIAL  
METER MARK

**Options:**

- Available with WIDESTRIPE® phase identification

**Applications:**

- Single conductor, sunlight-resistant, photovoltaic wire rated 90°C wet or dry, 600 V, 1000 V, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in the Canadian Electrical Code (CEC)

COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MIN. AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM WEIGHT		NET WEIGHT	
		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

**6 AWG - 1000 kcmil CONDUCTORS 600 V CSA RPV90**

6	7/.0683	0.169	4.29	0.045	1.14	0.259	6.58	25	36	38	55
4	7/.0855	0.213	5.41	0.045	1.14	0.303	7.70	39	57	55	80
2	7/.1082	0.268	6.81	0.045	1.14	0.358	9.09	63	91	82	119
1	8/.1145	0.298	7.57	0.055	1.40	0.408	10.36	79	115	107	156
1/0	10/.1145	0.337	8.56	0.055	1.40	0.447	11.35	99	145	132	191
2/0	12/.1145	0.374	9.50	0.055	1.40	0.484	12.29	125	182	161	234
3/0	16/.1145	0.421	10.69	0.055	1.40	0.531	13.49	158	230	199	289
4/0	19/.1145	0.470	11.94	0.055	1.40	0.580	14.73	199	290	245	356
250	23/.1145	0.514	13.06	0.065	1.65	0.644	16.36	235	342	292	425
300	22/.1280	0.566	14.38	0.065	1.65	0.696	17.68	282	411	345	502
350	26/.1280	0.607	15.42	0.065	1.65	0.737	18.72	329	479	397	578
400	37/.1110	0.659	16.74	0.065	1.65	0.789	20.04	377	548	440	641
500	37/.1235	0.736	18.69	0.065	1.65	0.866	22.00	471	685	542	788
600	61/.1040	0.813	20.65	0.080	2.03	0.973	24.71	565	822	661	961
750	61/.1165	0.908	23.06	0.080	2.03	1.068	27.13	706	1027	813	1183
1000	61/.1130	1.060	26.92	0.080	2.03	1.220	30.99	941	1370	1066	1551



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**SunGen®** XLPE, Photovoltaic Wire  
600 V, 1000 V, 2000 V, CSA RPV90  
Single Conductor, Aluminum



COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MIN. AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM WEIGHT		NET WEIGHT	
		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

**6 AWG - 1000 kcmil CONDUCTORS 1000 V CSA RPV90**

6	7/.0683	0.169	4.29	0.060	1.52	0.289	7.34	25	36	43	62
4	7/.0855	0.213	5.41	0.060	1.52	0.333	8.46	39	57	61	89
2	7/.1082	0.268	6.81	0.060	1.52	0.388	9.86	63	91	89	129
1	8/.1145	0.298	7.57	0.080	2.03	0.458	11.63	79	115	121	176
1/0	10/.1145	0.337	8.56	0.080	2.03	0.497	12.62	99	145	147	213
2/0	12/.1145	0.374	9.50	0.080	2.03	0.534	13.56	125	182	177	258
3/0	16/.1145	0.421	10.69	0.080	2.03	0.581	14.76	158	230	216	314
4/0	19/.1145	0.470	11.94	0.080	2.03	0.630	16.00	199	290	264	384
250	23/.1145	0.514	13.06	0.090	2.29	0.694	17.63	235	342	313	456
300	22/.1280	0.566	14.38	0.090	2.29	0.746	18.95	282	411	368	536
350	26/.1280	0.607	15.42	0.090	2.29	0.787	19.99	329	479	421	613
400	37/.1110	0.659	16.74	0.090	2.29	0.839	21.31	377	548	466	678
500	37/.1235	0.736	18.69	0.090	2.29	0.916	23.27	471	685	570	829
600	61/.1040	0.813	20.65	0.090	2.29	0.993	25.22	565	822	673	980
750	61/.1165	0.908	23.06	0.090	2.29	1.088	27.64	706	1027	827	1203
1000	61/.1130	1.060	26.92	0.090	2.29	1.240	31.50	941	1370	1081	1574

**6 AWG - 1000 kcmil CONDUCTORS 2000 V CSA RPV90**

6	7/.0683	0.169	4.29	0.070	1.78	0.309	7.85	25	36	47	68
4	7/.0855	0.213	5.41	0.070	1.78	0.353	8.97	39	57	65	95
2	7/.1082	0.268	6.81	0.070	1.78	0.408	10.36	63	91	94	137
1	8/.1145	0.298	7.57	0.090	2.29	0.478	12.14	79	115	127	185
1/0	10/.1145	0.337	8.56	0.090	2.29	0.517	13.13	99	145	153	222
2/0	12/.1145	0.374	9.50	0.090	2.29	0.554	14.07	125	182	184	268
3/0	16/.1145	0.421	10.69	0.090	2.29	0.601	15.27	158	230	224	326
4/0	19/.1145	0.470	11.94	0.090	2.29	0.650	16.51	199	290	272	396
250	23/.1145	0.514	13.06	0.105	2.67	0.724	18.39	235	342	327	475
300	22/.1280	0.566	14.38	0.105	2.67	0.776	19.71	282	411	383	557
350	26/.1280	0.607	15.42	0.105	2.67	0.817	20.75	329	479	437	635
400	37/.1110	0.659	16.74	0.105	2.67	0.869	22.07	377	548	482	702
500	37/.1235	0.736	18.69	0.105	2.67	0.946	24.03	471	685	588	855
600	61/.1040	0.813	20.65	0.120	3.05	1.053	26.75	565	822	712	1036
750	61/.1165	0.908	23.06	0.120	3.05	1.148	29.16	706	1027	869	1265
1000	61/.1130	1.060	26.92	0.120	3.05	1.300	33.02	941	1370	1130	1644



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**SunGen®** XLPE, Photovoltaic Wire  
1000 V, CSA RPVU90  
Single Conductor, Aluminum



**Features:**

- Rated 90°C wet and dry
- Rated for direct burial
- Stable electrical properties over a broad temperature range
- Compact stranding
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

**Compliances:**

- Industry Compliances:**
- CSA 22.2 No. 271 and No. 38 RPVU90
  - Canadian Electrical Code (CEC)

- Flame Test Compliances:**
- Burning particles flame test compliant

**Packaging:**

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

**Product Construction:**

**Conductor:**

- 6 AWG thru 1000 kcmil compact aluminum (AA-8000 series)

**Insulation:**

- Cross-linked Polyethylene (XLPE), black

**Print:**

- GENERAL CABLE (PLANT OF MFG) SUNGEN®  
SIZE AL ACM RPVU90 XLPE (-40°C) (VOLTAGE)  
SR DIR BUR CSA LL28117 YEAR DATE TIME SIZE  
SEQUENTIAL METER MARK

**Options:**

- Available with WIDESTRIPE® phase identification

**Applications:**

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 1000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in the Canadian Electrical Code (CEC)

COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MIN. AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		ALUMINUM WEIGHT		NET WEIGHT	
		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
<b>6 AWG - 1000 kcmil CONDUCTORS 1000 V CSA RPVU90</b>											
6	7/.0683	0.169	4.29	0.080	2.03	0.329	8.36	25	36	51	74
4	7/.0855	0.213	5.41	0.080	2.03	0.373	9.47	39	57	70	102
2	7/.1082	0.268	6.81	0.080	2.03	0.428	10.87	63	91	99	144
1	8/.1145	0.298	7.57	0.095	2.41	0.488	12.40	79	115	130	189
1/0	10/.1145	0.337	8.56	0.095	2.41	0.527	13.39	99	145	156	227
2/0	12/.1145	0.374	9.50	0.095	2.41	0.564	14.33	125	182	188	273
3/0	16/.1145	0.421	10.69	0.095	2.41	0.611	15.52	158	230	228	331
4/0	19/.1145	0.470	11.94	0.095	2.41	0.660	16.76	199	290	276	402
250	23/.1145	0.514	13.06	0.110	2.79	0.734	18.64	235	342	331	482
300	22/.1280	0.566	14.38	0.110	2.79	0.786	19.96	282	411	388	564
350	26/.1280	0.607	15.42	0.110	2.79	0.827	21.01	329	479	442	643
400	37/.1110	0.659	16.74	0.110	2.79	0.879	22.33	377	548	488	710
500	37/.1235	0.736	18.69	0.110	2.79	0.956	24.28	471	685	594	864
600	61/.1040	0.813	20.65	0.125	3.18	1.063	27.00	565	822	719	1046
750	61/.1165	0.908	23.06	0.125	3.18	1.158	29.41	706	1027	876	1275
1000	61/.1130	1.060	26.92	0.125	3.18	1.310	33.27	941	1370	1138	1656



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47400



# SunGen<sup>®</sup> XLPE, Photovoltaic Wire, 2000 V, UL Type PV or 1000 V, CSA RPVU90 Single Conductor, Copper



## Product Construction:

### Conductor:

- 18 AWG thru 2 AWG tinned coated compressed copper. Class C stranding per ASTM B33 and B8
- 1 AWG thru 1000 kcmil tinned coated compressed copper. Class B stranding per ASTM B33 and B8

### Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), black

### Print:

- 18 AWG and 16 AWG: GENERAL CABLE<sup>®</sup> (PLANT OF MFG) SUNGEN<sup>®</sup> 2000 V PV WIRE DIR BUR 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK
- 14 AWG thru 1000 kcmil: GENERAL CABLE<sup>®</sup> (PLANT OF MFG) SUNGEN<sup>®</sup> 2000 V PV WIRE DIR BUR OR RHH OR RHW-2 OR 600 V USE-2

## Print (cont'd.):

(SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 (CSA) RPVU90 1000 V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

### Options:

- Bare copper conductor
- Other stranding options are available upon request
- Now available in colors

### Applications:

- Single conductor, sunlight-resistant, direct burial photovoltaic wire rated 90°C wet or dry, 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

### Features:

- Rated 90°C wet and dry
- Rated for direct burial

## Features (cont'd.):

- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Increased flexibility
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend and cold impact tests at -40°C

## Compliances:

### Industry Compliances:

- UL 4703 Type PV, UL File # E323451
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2, UL File # E90494
- UL 854 Type USE-2 for 600 V, UL File # E90499
- CSA C22.2 No. 271 RPVU90

### Flame Test Compliances:

- UL 1581 VW-1
- For sizes 1/0 and larger: IEEE 383, IEEE 1202/CSA FT4

### Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable

## Packaging:

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

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

### 18 AWG - 1000 kcmil CONDUCTORS

12421.711800*	18	19/.0092	0.045	1.14	0.075	1.90	0.199	5.05	5	7	16	24
12421.711600*	16	19/.0117	0.056	1.42	0.075	1.90	0.210	5.33	8	12	21	31
12421.711400	14	19/.0142	0.070	1.78	0.075	1.90	0.224	5.69	13	19	32	48
12421.711200	12	19/.0185	0.088	2.23	0.075	1.90	0.244	6.20	20	30	42	62
12421.711100	10	19/.0234	0.112	2.84	0.075	1.90	0.268	6.81	32	48	57	85
12421.710800*	8	19/.0295	0.143	3.63	0.085	2.16	0.326	8.28	50	74	87	129
12421.710600*	6	19/.0372	0.184	4.67	0.085	2.16	0.363	9.22	81	121	123	183
12421.710400*	4	19/.0469	0.234	5.94	0.085	2.16	0.406	10.31	129	192	181	269
12421.710200*	2	19/.0526	0.296	7.52	0.085	2.16	0.474	12.04	205	305	266	396
12421.710100*	1	19/.0664	0.323	8.20	0.105	2.67	0.538	13.66	258	384	350	521
12421.715100*	1/0	19/.0740	0.370	9.40	0.105	2.67	0.586	14.88	326	485	429	638
12421.715200*	2/0	19/.0837	0.410	10.41	0.105	2.67	0.631	16.03	411	611	527	784
12421.715300*	3/0	19/.0940	0.460	11.68	0.105	2.67	0.674	17.12	518	771	647	963
12421.715400*	4/0	19/.1055	0.520	13.21	0.105	2.67	0.737	18.72	653	972	796	1184
12421.716250*	250	37/.0822	0.558	14.17	0.120	3.05	0.804	20.42	772	1149	938	1396
12421.716300*	300	37/.0900	0.611	15.52	0.120	3.05	0.857	21.77	926	1378	1106	1646
12421.716350*	350	37/.0972	0.661	16.79	0.120	3.05	0.907	23.04	1063	1582	1257	1870
12421.716400*	400	37/.1040	0.706	17.93	0.120	3.05	0.952	24.18	1235	1838	1441	2144
12421.716500*	500	37/.1159	0.789	20.04	0.120	3.05	1.035	26.29	1509	2246	1737	2585
12421.716600*	600	61/.0992	0.866	22.00	0.135	3.43	1.142	29.01	1883	2802	2157	3211
12421.716750*	750	61/.1109	0.968	24.59	0.135	3.43	1.244	31.60	2316	3447	2620	3900
12421.717000*	1000	61/.1280	1.117	28.37	0.135	3.43	1.393	35.38	3088	4595	3437	5115

Dimensions and weights are nominal; subject to industry tolerances.

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



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# Notes:

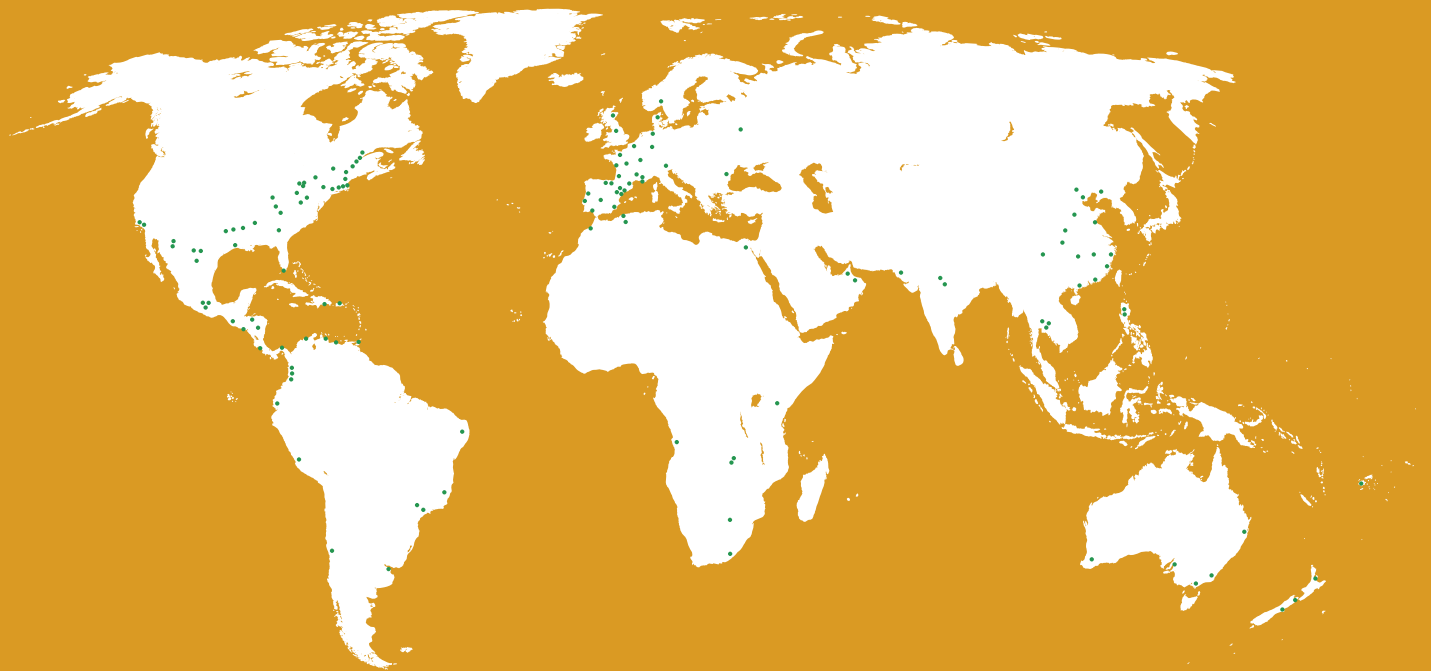


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## Global Reach



General Cable, a leading wire and cable innovator for over 170 years, serves customers through a global network of 57 manufacturing facilities in 26 countries and has worldwide sales representation and distribution. The Company is dedicated to the production of high-quality aluminum, copper and fiber optic wire and cable and systems solutions for the energy, construction, industrial, specialty and communications sectors. In addition to our strong brand recognition and strengths in technology and manufacturing, General Cable is also competitive in such areas as distribution and logistics, marketing, sales and customer service. This combination enables General Cable to better serve its customers as they expand into new geographic markets.



A commitment to achieving industry-leading standards and responding proactively to environmental global issues.

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