



# Harnessing the Renewable Power of the Sun

With a broad range of solar generation, transmission and distribution cables that link solar power sources to the grid and beyond, General Cable is your renewable energy cable partner. For more than three decades, General Cable has developed the most reliable and technologically advanced cable solutions through experience, innovation and an extensive R&D program, allowing us to respond to the world's changing energy needs. We offer the power and stability of a longstanding global company with local support to service solar energy partners throughout the world.

## From the Sun to the Outlet

From the back of the solar panel to the inverter where DC electricity is converted into clean AC power, from the inverter to the transformer where electricity is transferred to the substation, and from the substation to the power grid, General Cable provides a broad range of renewable energy products for the solar market. Besides developing next-generation solar products, General Cable has the offering to comprise a complete cable solution for solar power applications. From low-voltage DC and AC connections and medium-voltage distribution to high-voltage overhead and underground transmission lines, General Cable's range of products is engineered to withstand the demands of *entire* solar power generation, transmission and distribution systems — from the sun to the outlet.

## The SunGen® Difference

As a company committed to environmental stewardship and renewable energy, General Cable has specifically designed its SunGen suite of 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
- Stable electrical properties over a broad temperature range (-40°C to 120°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
- TÜV certified, halogen-free, fire-retardant and low corrosive gas emission provide added degree of safety
- Single and multi-conductor cable constructions



FLEXIBLE



MOISTURE-RESISTANT



DEFORMATION-RESISTANT



OIL-RESISTANT



UV/SUNLIGHT-RESISTANT



MECHANICALLY RUGGED



LOW SMOKE EMISSIONS



Phone: 888-593-3355  
www.generalcable.com



# SunGen® Dual-Layer EPR/XL-CPE

## Photovoltaic Wire, 600 V, UL Type

### PV/USE-2/RHH or RHW-2, 90°C



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

- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- Limited Smoke Rating per UL
- 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

#### 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) colored for contrast with black jacket

##### 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 OR USE-2 OR RHH OR RHW-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
- Colors available on request

#### Applications:

- Single conductor, sunlight-resistant, 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
- 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

#### 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

#### 14 AWG - 1000 kcmil CONDUCTORS

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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Form No. INS-0114-0511  
39991



# SunGen® Dual-Layer EPR/XL-CPE Photovoltaic Wire, 600 V, UL Type PV/USE-2/RHH or RHW-2, 90°C



## Product Construction:

### Conductor:

- 8 AWG thru 1000 kcmil compact aluminum ACM (8000 series)

### Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) colored for contrast with black jacket

### 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 OR USE-2 OR RHH OR RHW-2 (SIZE) AL ACM 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

### Options:

- Other stranding options are available upon request
- Colors available on request

## Applications:

- Single conductor, sunlight-resistant, 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
- 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
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- Limited Smoke Rating per UL
- 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		ALUMINUM WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

### 8 AWG - 1000 kcmil CONDUCTORS

12211.710800A*	8	7/.0486	0.134	3.40	0.030	0.76	0.030	0.76	0.258	6.55	16	23	40	59
12211.710600A*	6	7/.0612	0.169	4.29	0.045	1.14	0.045	1.14	0.357	9.07	25	37	74	110
12211.710400A*	4	7/.0772	0.213	5.41	0.045	1.14	0.045	1.14	0.401	10.19	39	58	97	144
12211.710200A*	2	7/.0974	0.268	6.81	0.045	1.14	0.045	1.14	0.456	11.58	63	93	131	194
12211.710100A*	1	19/.0664	0.299	7.59	0.055	1.40	0.060	1.52	0.539	13.69	79	117	179	267
12211.715100A*	1/0	19/.0745	0.336	8.53	0.055	1.40	0.060	1.52	0.576	14.63	99	148	209	311
12211.715200A*	2/0	19/.0837	0.376	9.55	0.055	1.40	0.060	1.52	0.616	15.65	125	186	244	364
12211.715300A*	3/0	19/.0940	0.423	10.74	0.055	1.40	0.060	1.52	0.663	16.84	158	235	289	430
12211.715400A*	4/0	19/.1055	0.475	12.07	0.055	1.40	0.060	1.52	0.715	18.16	199	296	343	510
12211.716250A*	250	37/.0822	0.520	13.21	0.065	1.65	0.080	2.03	0.824	20.93	262	390	468	697
12211.716300A*	300	37/.0900	0.570	14.48	0.065	1.65	0.080	2.03	0.874	22.20	282	420	504	749
12211.716350A*	350	37/.0972	0.616	15.65	0.065	1.65	0.080	2.03	0.920	23.37	329	490	565	841
12211.716400A*	400	37/.1040	0.659	16.74	0.065	1.65	0.080	2.03	0.963	24.46	376	560	625	931
12211.716500A*	500	37/.1159	0.736	18.69	0.065	1.65	0.080	2.03	1.040	26.42	471	701	745	1108
12211.716600A*	600	61/.0992	0.813	20.65	0.080	2.03	0.080	2.03	1.147	29.13	565	841	894	1331
12211.716750A*	750	61/.1109	0.908	23.06	0.080	2.03	0.080	2.03	1.242	31.55	706	1051	1068	1589
12211.717000A*	1000	61/.1280	1.060	26.92	0.080	2.03	0.080	2.03	1.394	35.41	914	1360	1328	1977

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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39991



# SunGen® Dual-Layer EPR/XL-CPE, Photovoltaic Wire

2000 V, UL Type PV/RHH or RHW-2 or  
600 V USE-2, 90°C



## 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) colored for contrast with black jacket

### 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 OR RHH OR RHW-2 OR 600 V 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
- Colors available on request

### Applications:

- Single conductor, sunlight-resistant, 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
- 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.):

- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- Limited Smoke Rating per UL
- 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

### 14 AWG - 1000 kcmil CONDUCTORS

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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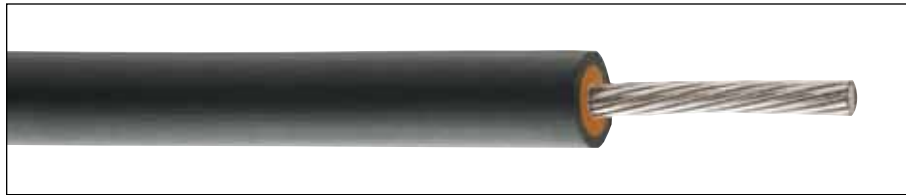


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# SunGen® Dual-Layer EPR/XL-CPE, Photovoltaic Wire

2000 V, UL Type PV/RHH or RHW-2 or  
600 V USE-2, 90°C



## Product Construction:

### Conductor:

- 8 AWG thru 1000 kcmil compact aluminum ACM (8000 series)

### Insulation:

- Lead-free Ethylene Propylene Rubber (EPR) colored for contrast with black jacket

### 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 OR RHH OR RHW-2 OR 600 V USE-2 (SIZE) AL ACM 90°C WET OR DRY SUN RES (UL) -40°C VW-1 MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

### Options:

- Other stranding options are available upon request
- Colors available on request

## Applications:

- Single conductor, sunlight-resistant, 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
- 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
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- Limited Smoke Rating per UL
- 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		ALUMINUM WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

### 8 AWG - 1000 kcmil CONDUCTORS

12221.710800A*	8	7/.0486	0.134	3.40	0.055	1.40	0.030	0.76	0.308	7.82	16	23	53	79
12221.710600A*	6	7/.0612	0.169	4.29	0.055	1.40	0.045	1.14	0.377	9.58	25	37	81	121
12221.710400A*	4	7/.0772	0.213	5.41	0.055	1.40	0.045	1.14	0.421	10.69	39	58	105	156
12221.710200A*	2	7/.0974	0.268	6.81	0.055	1.40	0.045	1.14	0.476	12.09	63	93	139	207
12221.710100A*	1	19/.0664	0.299	7.59	0.065	1.65	0.060	1.52	0.559	14.20	79	117	190	282
12221.715100A*	1/0	19/.0745	0.336	8.53	0.065	1.65	0.060	1.52	0.596	15.14	99	148	220	328
12221.715200A*	2/0	19/.0837	0.376	9.55	0.065	1.65	0.060	1.52	0.636	16.15	125	186	256	381
12221.715300A*	3/0	19/.0940	0.423	10.74	0.065	1.65	0.060	1.52	0.683	17.35	158	235	302	449
12221.715400A*	4/0	19/.1055	0.475	12.07	0.065	1.65	0.060	1.52	0.735	18.67	199	296	356	530
12221.716250A*	250	37/.0822	0.520	13.21	0.075	1.91	0.080	2.03	0.844	21.44	262	390	484	720
12221.716300A*	300	37/.0900	0.570	14.48	0.075	1.91	0.080	2.03	0.894	22.71	282	420	520	774
12221.716350A*	350	37/.0972	0.616	15.65	0.075	1.91	0.080	2.03	0.940	23.88	329	490	582	867
12221.716400A*	400	37/.1040	0.659	16.74	0.075	1.91	0.080	2.03	0.983	24.97	376	560	644	958
12221.716500A*	500	37/.1159	0.736	18.69	0.075	1.91	0.080	2.03	1.060	26.92	471	701	764	1137
12221.716600A*	600	61/.0992	0.813	20.65	0.090	2.29	0.080	2.03	1.169	29.69	565	841	918	1366
12221.716750A*	750	61/.1109	0.908	23.06	0.090	2.29	0.080	2.03	1.264	32.11	706	1051	1094	1628
12221.717000A*	1000	61/.1280	1.060	26.92	0.090	2.29	0.080	2.03	1.416	35.97	914	1360	1357	2019

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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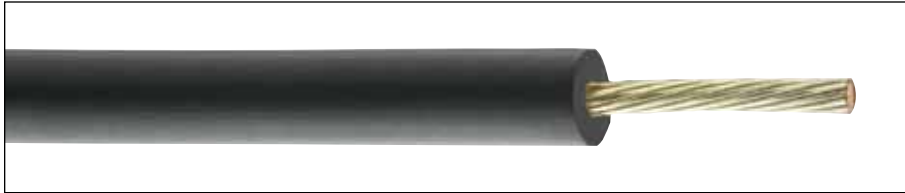


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39991



# SunGen® XLPE, Photovoltaic Wire

600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or c(UL) RWU90, 1 kV, 90°C



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

### Options:

- Bare copper conductor
- Other stranding options are available upon request
- Colors available on request

### Applications:

- Single conductor, sunlight-resistant, 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
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Excellent resistance to crush and compression cuts

## Features (cont'd.):

- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- c(UL) RWU90 1 kV, UL File # E90494

### 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	0.075	1.90	0.305	7.75	50	74	80	119
12411.710600*	6	19/.0372	0.184	4.67	0.075	1.90	0.342	8.69	81	121	115	171
12411.710400*	4	19/.0469	0.234	5.94	0.075	1.90	0.385	9.78	129	192	170	253
12411.710200*	2	19/.0526	0.296	7.52	0.075	1.90	0.453	11.50	205	305	253	376
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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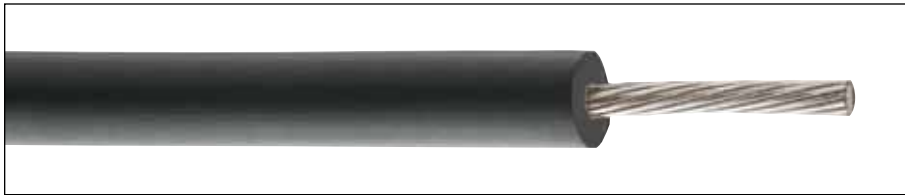


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39991



# SunGen® XLPE, Photovoltaic Wire

600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or c(UL) RWU90, 1 kV, 90°C



### Product Construction:

#### Conductor:

- 8 AWG thru 1000 kcmil compact aluminum ACM (8000 series)

#### Insulation:

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

#### Print:

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

#### Options:

- Other stranding options are available upon request
- Colors available on request

### Applications:

- Single conductor, sunlight-resistant, 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
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- c(UL) RWU90 1 kV, UL File # E90494

#### 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		ALUMINUM WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

### 8 AWG - 1000 kcmil CONDUCTORS

12411.710800A*	8	7/.0486	0.134	3.40	0.080	2.03	0.298	7.57	16	23	49	73
12411.710600A*	6	7/.0612	0.169	4.29	0.080	2.03	0.333	8.46	25	37	64	95
12411.710400A*	4	7/.0772	0.213	5.41	0.080	2.03	0.377	9.58	39	58	85	127
12411.710200A*	2	7/.0974	0.268	6.81	0.080	2.03	0.432	10.97	63	93	117	174
12411.710100A*	1	19/.0664	0.299	7.59	0.095	2.41	0.495	12.57	79	117	153	227
12411.715100A*	1/0	19/.0745	0.336	8.53	0.095	2.41	0.532	13.51	99	148	180	268
12411.715200A*	2/0	19/.0837	0.376	9.55	0.095	2.41	0.572	14.53	125	186	214	318
12411.715300A*	3/0	19/.0940	0.423	10.74	0.095	2.41	0.619	15.72	158	235	256	380
12411.715400A*	4/0	19/.1055	0.475	12.07	0.095	2.41	0.671	17.04	199	296	307	456
12411.716250A*	250	37/.0822	0.520	13.21	0.110	2.79	0.746	18.95	262	390	399	594
12411.716300A*	300	37/.0900	0.570	14.48	0.110	2.79	0.796	20.22	282	420	430	640
12411.716350A*	350	37/.0972	0.616	15.65	0.110	2.79	0.842	21.39	329	490	487	725
12411.716400A*	400	37/.1040	0.659	16.74	0.110	2.79	0.885	22.48	376	560	544	810
12411.716500A*	500	37/.1159	0.736	18.69	0.110	2.79	0.962	24.43	471	701	656	977
12411.716600A*	600	61/.0992	0.813	20.65	0.125	3.18	1.069	27.15	565	841	798	1187
12411.716750A*	750	61/.1109	0.908	23.06	0.125	3.18	1.164	29.57	706	1051	963	1433
12411.717000A*	1000	61/.1280	1.060	26.92	0.125	3.18	1.316	33.43	914	1360	1210	1801

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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39991



# SunGen® IC XLPE, Photovoltaic Wire

600 V, UL Type PV/USE-2 or 2000 V RHH or RHW-2 or c(UL) RWU90, 1 kV, 90°C



## Product Construction:

### Conductor:

- 18 AWG thru 1000 kcmil bare compressed copper. Class B per ASTM B8

### Insulation:

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

### Print

- 18 AWG and 16 AWG: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 600 V PV WIRE 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® (PLANT OF MFG) SUNGEN® 600 V PV WIRE OR USE-2 OR 2000 V RHH OR RHW-2 (SIZE) 90°C WET OR DRY SUN RES (UL) -40°C VW-1 c(UL) RWU90 1000 V DIR BUR MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

### Options:

- Tinned copper conductor
- Other stranding options are available upon request
- Colors available on request

### Applications:

- Single conductor, sunlight-resistant, 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
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range

## Features (cont'd.):

- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- c(UL) RWU90 1 kV, UL File # E90494

### 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

12431.711800*	18	7/.0152	0.045	1.14	0.060	1.52	0.169	4.29	5	7	14	21
12431.711600*	16	7/.0192	0.056	1.42	0.060	1.52	0.180	4.57	8	12	18	27
12431.711400*	14	7/.0240	0.070	1.78	0.060	1.52	0.194	4.93	13	19	27	40
12431.711200	12	7/.0305	0.088	2.23	0.060	1.52	0.214	5.43	20	30	36	54
12431.711100	10	7/.0385	0.112	2.84	0.060	1.52	0.238	6.04	32	48	51	76
12431.710800	8	7/.0486	0.143	3.63	0.080	2.02	0.313	7.95	50	74	88	131
12431.710600*	6	7/.0612	0.184	4.67	0.080	2.02	0.356	9.04	81	121	126	186
12431.710400*	4	7/.0772	0.234	5.94	0.080	2.02	0.405	10.29	129	192	183	272
12431.710200*	2	7/.0974	0.296	7.52	0.080	2.02	0.466	11.84	205	305	269	401
12431.710100*	1	19/.0664	0.323	8.20	0.095	2.41	0.515	13.08	258	384	333	495
12431.715100*	1/0	19/.0740	0.370	9.40	0.095	2.41	0.563	14.30	326	485	410	610
12431.715200*	2/0	19/.0837	0.410	10.41	0.095	2.41	0.608	15.44	411	611	502	747
12431.715300*	3/0	19/.0940	0.460	11.68	0.095	2.41	0.658	16.71	518	771	620	922
12431.715400*	4/0	19/.1055	0.520	13.21	0.095	2.41	0.714	18.13	653	972	767	1141
12431.716250*	250	37/.0822	0.558	14.17	0.110	2.79	0.784	19.91	772	1149	923	1374
12431.716300*	300	37/.0900	0.611	15.52	0.110	2.79	0.837	21.26	926	1378	1090	1622
12431.716350*	350	37/.0972	0.661	16.79	0.110	2.79	0.887	22.53	1063	1582	1240	1845
12431.716400*	400	37/.1040	0.706	17.93	0.110	2.79	0.932	23.67	1235	1838	1423	2117
12431.716500*	500	37/.1159	0.789	20.04	0.110	2.79	1.015	25.78	1509	2246	1718	2557
12431.716600*	600	61/.0992	0.866	22.00	0.125	3.18	1.122	28.50	1883	2802	2136	3179
12431.716750*	750	61/.1109	0.968	24.59	0.125	3.18	1.224	31.09	2316	3447	2597	3865
12431.717000*	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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# SunGen® XLPE, Photovoltaic Wire

2000 V, UL Type PV/RHH or RHW-2 or  
600 V USE-2 or c(UL) RWU90, 1 kV, 90°C



## 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® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE (SIZE) 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® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE 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 DIR BUR MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

### Options:

- Bare copper conductor
- Other stranding options are available upon request
- Colors available on request

### Applications:

- Single conductor, sunlight-resistant, 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
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Excellent resistance to crush and compression cuts

## Features (cont'd.):

- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- c(UL) RWU90 1 kV, UL File # E90494

### 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>												
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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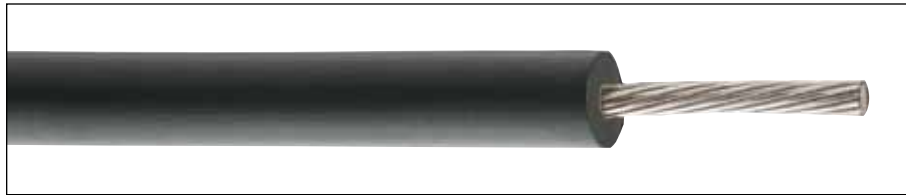


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Form No. INS-0121-0511  
39991



# SunGen® XLPE, Photovoltaic Wire

2000 V, UL Type PV/RHH or RHW-2 or  
600 V USE-2 or c(UL) RWU90, 1 kV, 90°C



## Product Construction:

### Conductor:

- 8 AWG thru 1000 kcmil compact aluminum ACM (8000 series)

### Insulation:

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

### Print

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

### Options:

- Other stranding options are available upon request
- Colors available on request

## Applications:

- Single conductor, sunlight-resistant, 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
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- c(UL) RWU90 1 kV, UL File # E90494

### 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		ALUMINUM WEIGHT		NET WEIGHT	
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

### 8 AWG - 1000 kcmil CONDUCTORS

12421.710800A*	8	7/.0486	0.134	3.40	0.085	2.16	0.310	7.87	16	23	52	78
12421.710600A*	6	7/.0612	0.169	4.29	0.085	2.16	0.345	8.76	25	37	67	100
12421.710400A*	4	7/.0772	0.213	5.41	0.085	2.16	0.389	9.88	39	58	90	133
12421.710200A*	2	7/.0974	0.268	6.81	0.085	2.16	0.444	11.28	63	93	122	182
12421.710100A*	1	19/.0664	0.299	7.59	0.105	2.67	0.515	13.08	79	117	162	241
12421.715100A*	1/0	19/.0745	0.336	8.53	0.105	2.67	0.552	14.02	99	148	191	284
12421.715200A*	2/0	19/.0837	0.376	9.55	0.105	2.67	0.592	15.04	125	186	225	334
12421.715300A*	3/0	19/.0940	0.423	10.74	0.105	2.67	0.639	16.23	158	235	267	398
12421.715400A*	4/0	19/.1055	0.475	12.07	0.105	2.67	0.691	17.55	199	296	319	475
12421.716250A*	250	37/.0822	0.520	13.21	0.120	3.05	0.766	19.46	262	390	413	615
12421.716300A*	300	37/.0900	0.570	14.48	0.120	3.05	0.816	20.73	282	420	445	663
12421.716350A*	350	37/.0972	0.616	15.65	0.120	3.05	0.862	21.89	329	490	503	749
12421.716400A*	400	37/.1040	0.659	16.74	0.120	3.05	0.905	22.99	376	560	561	835
12421.716500A*	500	37/.1159	0.736	18.69	0.120	3.05	0.982	24.94	471	701	675	1004
12421.716600A*	600	61/.0992	0.813	20.65	0.135	3.43	1.089	27.66	565	841	818	1217
12421.716750A*	750	61/.1109	0.908	23.06	0.135	3.43	1.184	30.07	706	1051	985	1466
12421.717000A*	1000	61/.1280	1.060	26.92	0.135	3.43	1.336	33.93	914	1360	1235	1838

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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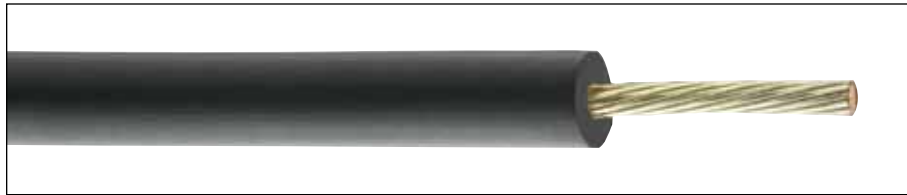


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Form No. INS-0122-0511  
39991



# SunGen® IC XLPE, Photovoltaic Wire

2000 V, UL Type PV/RHH or RHW-2 or 600 V USE-2 or c(UL) RWU90, 1 kV, 90°C



## Product Construction:

### Conductor:

- 18 AWG thru 1000 kcmil bare compressed copper. Class B per ASTM B8

### Insulation:

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

### Print:

- 18 AWG and 16 AWG: GENERAL CABLE® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE (SIZE) 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® (PLANT OF MFG) SUNGEN® 2000 V PV WIRE 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 DIR BUR MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

### Options:

- Tinned copper conductor
- Other stranding options are available upon request
- Colors available on request

### Applications:

- Single conductor, sunlight-resistant, 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
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Excellent resistance to crush and compression cuts

## Features (cont'd.):

- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test 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
- c(UL) RWU90 1 kV, UL File # E90494

### 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

12441.711800*	18	7/.0152	0.045	1.14	0.075	1.90	0.199	5.05	5	7	16	24
12441.711600*	16	7/.0192	0.056	1.42	0.075	1.90	0.210	5.33	8	12	21	31
12441.711400*	14	7/.0240	0.070	1.78	0.075	1.90	0.224	5.69	13	19	32	48
12441.711200	12	7/.0305	0.088	2.23	0.075	1.90	0.244	6.20	20	30	42	62
12441.711100	10	7/.0385	0.112	2.84	0.075	1.90	0.268	6.81	32	48	57	85
12441.710800	8	7/.0486	0.143	3.63	0.085	2.16	0.326	8.28	50	74	87	129
12441.710600*	6	7/.0612	0.184	4.67	0.085	2.16	0.363	9.22	81	121	123	183
12441.710400*	4	7/.0772	0.234	5.94	0.085	2.16	0.406	10.31	129	192	181	269
12441.710200*	2	7/.0974	0.296	7.52	0.085	2.16	0.474	12.04	205	305	266	396
12441.710100*	1	19/.0664	0.323	8.20	0.105	2.67	0.538	13.66	258	384	350	521
12441.715100*	1/0	19/.0740	0.370	9.40	0.105	2.67	0.586	14.88	326	485	429	638
12441.715200*	2/0	19/.0837	0.410	10.41	0.105	2.67	0.631	16.03	411	611	527	784
12441.715300*	3/0	19/.0940	0.460	11.68	0.105	2.67	0.674	17.12	518	771	647	963
12441.715400*	4/0	19/.1055	0.520	13.21	0.105	2.67	0.737	18.72	653	972	796	1184
12441.716250*	250	37/.0822	0.558	14.17	0.120	3.05	0.804	20.42	772	1149	938	1396
12441.716300*	300	37/.0900	0.611	15.52	0.120	3.05	0.857	21.77	926	1378	1106	1646
12441.716350*	350	37/.0972	0.661	16.79	0.120	3.05	0.907	23.04	1063	1582	1257	1870
12441.716400*	400	37/.1040	0.706	17.93	0.120	3.05	0.952	24.18	1235	1838	1441	2144
12441.716500*	500	37/.1159	0.789	20.04	0.120	3.05	1.035	26.29	1509	2246	1737	2585
12441.716600*	600	61/.0992	0.866	22.00	0.135	3.43	1.142	29.01	1883	2802	2157	3211
12441.716750*	750	61/.1109	0.968	24.59	0.135	3.43	1.244	31.60	2316	3447	2620	3900
12441.717000*	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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39991



# SunGen® MI

## XLPE/PVC, AC Micro-Inverter Cable

### 600 V, UL Type TC-ER<sup>1</sup>



#### Product Construction:

##### Conductor:

- 14 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class C stranding per ASTM B8

##### Insulation:

- Flame-retardant Cross-Linked Polyethylene (XLPE)
- Color Code: See chart below

##### Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

##### Print

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® MI XX/C XXAWG FR-XLP/PVC (UL) TYPE TC-ER<sup>1</sup> XHHW-2 CDRS DIR BUR SUN RES 90°C WET OR DRY 600 V DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

##### Options:

- Overall shielded multi conductors
- Other constructions available upon request

#### Applications:

- In free air, raceways and direct burial
- In wet or dry locations
- Approved for direct burial, Class I, Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

#### Features:

- Rated at 90°C wet or dry
- Fillers as required to provide a round cable design
- Ripcord applied under jacket to facilitate stripping
- Excellent physical and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Abrasion- and chemical-resistant
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

#### Compliances:

##### Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532
- ICEA S-95-658/NEMA WC 70

##### Flame Test Compliances:

- UL 1581 VW-1
- UL 1277
- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)
- 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

#### COLOR CODE CHART

NO. OF CONDUCTORS	COLOR SEQUENCE
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Orange, Green

Green insulated conductor indicates use for ground wire only per NEC

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		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 MULTI CONDUCTORS</b>															
395410*	2	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.365	9.27	25	37	73	109
395420	3	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.390	9.91	40	59	93	138
395430*	4	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.425	10.80	53	79	116	173
395440*	5	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.465	11.81	66	99	140	208
<b>12 AWG MULTI CONDUCTORS</b>															
395450	2	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.410	10.41	41	61	96	143
395460	3	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.435	11.05	65	96	125	186
395470*	4	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.475	12.07	86	128	157	234
395480*	5	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.515	13.08	108	160	191	284
<b>10 AWG MULTI CONDUCTORS</b>															
395490*	2	10	19/.0234	0.112	2.84	0.030	0.76	0.045	1.14	0.455	11.56	67	100	130	193
395500*	3	10	19/.0234	0.112	2.84	0.030	0.76	0.045	1.14	0.485	12.32	101	150	173	257
395510*	4	10	19/.0234	0.112	2.84	0.030	0.76	0.060	1.52	0.560	14.22	135	200	236	351
395520*	5	10	19/.0234	0.112	2.84	0.030	0.76	0.060	1.52	0.615	15.62	167	249	287	427

Dimensions and weights are nominal; subject to industry tolerances.

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

<sup>1</sup> Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



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# SunGen® MI-LS

## XLPO/LSZH, AC Micro-Inverter Cable

### 600 V, UL Type TC-LS-ER<sup>1</sup>



#### Product Construction:

##### Conductor:

- 14 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class C stranding per ASTM B8

##### Insulation:

- Lead-free, flame-retardant, low-smoke Cross-Linked Polyolefin (XLPO)
- Color Code: See chart below

##### Jacket:

- Lead-free, flame-retardant, sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

##### Print

- GENERAL CABLE® (PLANT OF MFG) SUNGEN® MI-LS XX/C XXAWG XLPO/LSZH (UL) TYPE TC-LS-ER<sup>1</sup> XHHW-2 CDRS 90°C WET OR DRY 600 V DIR BUR SUN RES ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

##### Options:

- Overall shielded multi conductor
- Other constructions available upon request

#### Applications:

- In free air, raceways, aerial or direct burial
- In wet or dry locations
- Permitted for use in Class 1, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with the NEC for 3 or more conductors

#### Features:

- Rated at 90°C wet or dry
- Fillers as required to provide a round cable design
- Ripcord applied under jacket to facilitate stripping
- Excellent physical and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Abrasion- and chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire

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

- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

#### Compliances:

##### Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-LS-ER, UL File # E57179
- UL 1581
- ROHS Compliant

##### Flame Test Compliances:

- UL 1581
- UL 1277
- UL 1685
- IEEE 1202

##### 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

#### COLOR CODE CHART

NO. OF CONDUCTORS	COLOR SEQUENCE
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Orange, Green

Green insulated conductor indicates use for ground wire only per NEC

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL COND. O.D.		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		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 MULTI CONDUCTORS</b>															
395530*	2	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.370	9.40	25	37	71	106
395540	3	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.390	9.91	40	59	92	137
395550*	4	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.425	10.80	53	79	115	171
395560*	5	14	19/.0142	0.070	1.77	0.030	0.76	0.045	1.14	0.465	11.81	66	99	139	207
<b>12 AWG MULTI CONDUCTORS</b>															
395570	2	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.410	10.41	41	61	94	140
395580	3	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.435	11.05	65	96	124	185
395590*	4	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.475	12.07	86	128	157	234
395600*	5	12	19/.0185	0.088	2.23	0.030	0.76	0.045	1.14	0.515	13.08	108	160	191	284
<b>10 AWG MULTI CONDUCTORS</b>															
395610*	2	10	19/.0234	0.112	2.84	0.030	0.76	0.045	1.14	0.455	11.56	67	100	128	190
395620*	3	10	19/.0234	0.112	2.84	0.030	0.76	0.045	1.14	0.485	12.32	101	150	172	256
395630*	4	10	19/.0234	0.112	2.84	0.030	0.76	0.060	1.52	0.560	14.22	135	200	234	348
395640*	5	10	19/.0234	0.112	2.84	0.030	0.76	0.060	1.52	0.615	15.62	167	249	284	423

Dimensions and weights are nominal; subject to industry tolerances.

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

<sup>1</sup> Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.



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