

# P-Sun<sup>®</sup> Photovoltaic (PV) Wire

High Performance Low Voltage Wire for Solar Applications



## Description

Single copper conductor with 2kV, cross-linked polyethylene (XLPE) insulation - RoHS compliant.

## Ratings

- Photovoltaic - Type (PV)
- cUL Rated for RPVU90
- Type RHW-2
- -40°C
- FV-1 (Vertical Flame Rated)
- Sunlight Resistant
- For 90°C Wet or Dry Operation

## Specifications

- UL 4703 for PV wires
- UL 854 for USE
- UL 44 for Thermoset Insulated Wires
- ULC - CSA C22.2 No. 271-11 -- Photovoltaic Cable
- ICEA S-73-532 (NEMA WC 57)
- ICEA S-95-658 (NEMA WC 70)

**IDENTIFICATION:** PRYSMIAN P-SUN<sup>®</sup> DRAKA PA (X) AWG (Y) XLPE 90C WET OR DRY (-40C) 2000V SUN RES (UL) E326502 PV WIRE DIRECT BURIAL OR RHW-2 2000V --- c(UL) RPVU90 XLPE (-40C) SR FT1 2000V RoHS

Notes: [X] is the size of the cable in AWG or kcmil [Y] is the size of the cable in mm<sup>2</sup>



**RoHS**  
COMPLIANT

## Design Parameters

**CONDUCTOR:** Class B & C compressed concentric strand soft drawn annealed copper or Class B & C compact concentric tinned-copper per ASTM or 8000 series compact aluminum.

**INSULATION:** High quality, heat and moisture resistant thermosetting cross-linked polyethylene insulation.

## Options

- Compact Copper Conductor
- Compact Tinned-Copper Conductor
- 8000 Series Compact Aluminum Conductor
- Colors available upon request
- CT available on 1/0 AWG and larger upon request

## Installations



Direct Buried



Conduit in Air



Isolated in Air



Wet Locations



Dry Locations



Industrial



Underground Duct

## Prysmian Group

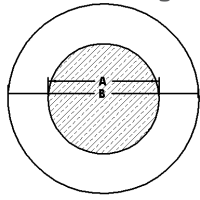
700 Industrial Drive | Lexington, SC 29072 | +1-800-845-8507

1 Tamaqua Blvd. | Schuylkill Haven, PA 17972 | +1-570-385-4381

22 Joseph E. Warner Blvd. | North Dighton, MA 02764 | +1-508-822-5444 | website: [na.prysmiangroup.com](http://na.prysmiangroup.com)

# P-Sun® Photovoltaic (PV) Wire

High Performance Low Voltage Wire for Solar Applications



Circuit Conductor Size (AWG) (kcmil)	Average Insulation Thickness (mils)	Nominal Cable O.D. (in)	Nominal Cable weight (lbs/100ft)	Minimum Pulling Tension (lb)		Minimum Bending Radius (in)	
				Conductor	Jacket	Training	Pulling
<b>2kV Copper</b>							
14 AWG	75	0.235	35	32	32	1.0	1.5
12 AWG	75	0.250	45	52	52	1.0	1.5
<sup>5</sup> 10 AWG	75	0.270	50	83	83	1.1	1.7
<sup>5</sup> 8 AWG	85	0.330	90	132	132	1.4	1.4
6 AWG	85	0.365	125	209	209	1.5	2.3
4 AWG	85	0.415	180	333	333	1.7	2.6
2 AWG	85	0.475	260	530	530	1.9	2.9
4/0 AWG	105	0.745	800	1692	1000	3.0	4.5
250 kcmil	120	.0825	950	1990	1000	3.3	5.0
300 kcmil	120	0.880	1130	2386	1000	3.6	5.4
350 kcmil	120	0.930	1270	2785	1000	3.8	5.7
500 kcmil	120	1.060	1780	3976	1000	5.3	8.0
600 kcmil	135	1.165	2115	4773	1000	5.9	8.9
750 kcmil	135	1.265	2600	5969	1000	6.4	9.6
<b>2kV Aluminum</b>							
6 AWG	85	0.355	70	155	155	1.5	2.3
4 AWG	85	0.400	95	250	250	1.7	2.6
2 AWG	85	0.470	125	391	391	1.9	2.9
1 AWG	105	0.530	170	496	496	2.2	3.3
<sup>5</sup> 1/0 AWG	105	0.570	195	627	627	2.3	3.5
<sup>5</sup> 2/0 AWG	105	0.610	230	791	791	2.5	3.8
<sup>5</sup> 3/0 AWG	105	0.655	275	996	996	2.7	4.1
<sup>5</sup> 4/0 AWG	105	0.710	325	1256	1000	2.9	4.4
<sup>5</sup> 250 kcmil	120	0.785	395	1492	1000	3.2	4.9
<sup>5</sup> 300 kcmil	120	0.835	455	1790	1000	3.4	5.1
<sup>5</sup> 350 kcmil	120	0.890	510	2088	1000	3.6	5.4
<sup>5</sup> 400 kcmil	120	0.925	570	2387	1000	3.7	5.6
<sup>5</sup> 500 kcmil	120	1.010	675	2982	1000	5.1	7.7
<sup>5</sup> 600 kcmil	135	1.110	825	3587	1000	5.6	8.4
750 kcmil	135	1.220	985	6000	1000	6.1	9.2
800 kcmil	135	1.250	1040	6400	1000	6.3	9.5
1000 kcmil	135	1.320	1250	8000	1000	6.6	9.9

**PRODUCT NOTES:**

<sup>5</sup> Items are Prysmian authorized stock.

The above dimensions are approximate and subject to normal manufacturing tolerances.

© PRYSMIAN - A Brand of The Prysmian Group. 2014 All Rights Reserved. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed correct at the time of issue. Prysmian Group reserves the right to amend any specifications without notice. These specifications are not contractually valid unless authorized by Prysmian Group. Issued March 2014.

**Prysmian Group**

700 Industrial Drive | Lexington, SC 29072 | +1-800-845-8507

1 Tamaqua Blvd. | Schuylkill Haven, PA 17972 | +1-570-385-4381

22 Joseph E. Warner Blvd. | North Dighton, MA 02764 | +1-508-822-5444 | website: [na.prysmiangroup.com](http://na.prysmiangroup.com)