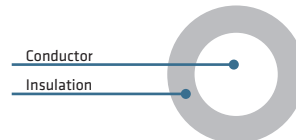




600 V P-Sun® Photovoltaic (PV) Wire

High Performance Low Voltage Wire for Solar Applications



Description

Single copper conductor with 600 V, cross-linked polyethylene (XLPE) insulation - RoHS compliant.

Ratings

- Photovoltaic - Type (PV) 600 V
- cUL Rated for RPVU90 600 V
- Type RHW-2 600 V
- -40°C
- FV-1 (Vertical Flame Rated)
- Sunlight Resistant
- For 90°C Wet or Dry
- RoHS
- Direct Bury

Specifications

- UL 4703 for PV wires
- UL 854 for USE
- UL 44 for Thermoset Insulated Wires
- cUL - CSA C22.2 No. 271 -- Photovoltaic Cable
- ASTM B3, ASTM B8, ASTM B33
- ASTM B801, ASTM B836

IDENTIFICATION: PRYSMIAN P-SUN® DRAKA PA (X) AWG (Y) AL XLPE 90C WET OR DRY (-40C) 600V SUN RES (UL) E326502 PV WIRE DIRECT BURIAL OR RHW-2 600V --- c(UL) RPVU90 DIR BUR XL (-40C) SR FT1 600V RoHS. "Sequential Footage Print"

Notes: [X] is the size of the cable in AWG or kcmil
[Y] is the size of the cable in mm²

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 (XLPE) insulation.

Options

- Compact Copper Conductor
- Compact Tinned-Copper Conductor
- 8000 Series Compact Aluminum Conductor
- CT available on 4/0 AWG and larger upon request: per UL 44
- Colored insulation available upon request
- Colored stripes available upon request

Installations

- | | |
|--|--|
|  Direct Buried |  Conduit in Air |
|  Isolated in Air |  Wet Locations |
|  Dry Locations |  Industrial |
|  Underground Duct | |

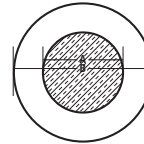


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High Performance Low Voltage Wire for Solar Applications



Circuit Conductor Size (AWG) (kcmil)	Average Insulation Thickness (mils)	Nominal Cable O.D. (in)	Nominal Cable weight (lbs/mft)	Maximum Pulling Tension (lb)		Minimum Bending Radius (in)		Ampacity in Air *	Ampacity in Earth **
				Conductor	Jacket	Training	Pulling	90°C	90°C
600V Copper									
14 AWG (2.08 mm ²)	60 (1.52)	0.205 (5.2)	25 (37)	32	32	1.0	1.5	35	25
12 AWG (3.31 mm ²)	60 (1.52)	0.220 (5.6)	34 (51)	52	52	1.0	1.5	40	30
10 AWG (5.26 mm ²)	60 (1.52)	0.250 (6.4)	49 (73)	83	83	1.0	1.5	55	40
8 AWG (8.37 mm ²)	75 (1.91)	0.310 (7.9)	77 (115)	132	132	1.3	2.0	80	55
6 AWG (13.3 mm ²)	75 (1.91)	0.345 (8.8)	112 (167)	209	209	1.4	2.1	105	75
4 AWG (21.2 mm ²)	75 (1.91)	0.395 (10.0)	166 (247)	333	333	1.6	2.4	140	95
2 AWG (33.6 mm ²)	75 (1.91)	0.455 (11.6)	251 (373)	530	530	1.9	2.9	190	130
4/0 AWG (107 mm ²)	95 (2.41)	0.730 (18.5)	753 (1120)	1692	1000	3.0	4.5	405	260
250 kcmil (127 mm ²)	110 (2.79)	0.810 (20.6)	895 (1332)	1990	1000	3.3	5.0	455	290
300 kcmil (152 mm ²)	110 (2.79)	0.865 (22.0)	1060 (1577)	2386	1000	3.5	5.3	500	320
350 kcmil (177 mm ²)	110 (2.79)	0.915 (23.2)	1227 (1826)	2785	1000	3.7	5.6	570	350
500 kcmil (253 mm ²)	110 (2.79)	1.045 (26.5)	1719 (2558)	3976	1000	5.3	8.0	700	430
600 kcmil (304 mm ²)	125 (3.18)	1.155 (29.3)	2073 (3085)	4773	1000	5.8	8.3	780	475
750 kcmil (380 mm ²)	125 (3.18)	1.260 (32.0)	2530 (3765)	5969	1000	6.3	9.5	855	535
600V Aluminum									
6 AWG (13.3 mm ²)	75 (1.91)	0.335 (8.5)	53 (79)	155	155	1.4	2.1	85	55
4 AWG (21.2 mm ²)	75 (1.91)	0.380 (9.7)	72 (107)	250	250	1.6	2.4	115	75
2 AWG (33.6 mm ²)	75 (1.91)	0.435 (11.1)	99 (147)	391	391	1.8	2.7	150	100
1 AWG (42.4 mm ²)	95 (2.41)	0.510 (13.0)	135 (201)	496	496	2.1	3.2	175	115
1/0 AWG (53.5 mm ²)	95 (2.41)	0.550 (14.0)	159 (237)	627	627	2.2	3.3	205	135
2/0 AWG (67.4 mm ²)	95 (2.41)	0.595 (15.1)	190 (283)	791	791	2.4	3.6	235	150
3/0 AWG (85.0 mm ²)	95 (2.41)	0.640 (16.3)	231 (344)	996	996	2.6	3.9	270	175
4/0 AWG (107 mm ²)	95 (2.41)	0.695 (17.7)	277 (412)	1256	1000	2.8	4.2	315	205
250 kcmil (127 mm ²)	110 (2.79)	0.770 (19.6)	337 (501)	1492	1000	3.1	4.7	355	230
300 kcmil (152 mm ²)	110 (2.79)	0.820 (20.8)	392 (583)	1790	1000	3.3	5.0	395	260
350 kcmil (177 mm ²)	110 (2.79)	0.875 (22.2)	443 (659)	2088	1000	3.5	5.3	445	280
400 kcmil (203 mm ²)	110 (2.79)	0.910 (23.1)	501 (745)	2387	1000	3.7	5.6	480	305
500 kcmil (253 mm ²)	110 (2.79)	1.000 (25.4)	603 (897)	2982	1000	5.0	7.5	545	350
600 kcmil (304 mm ²)	125 (3.18)	1.100 (27.9)	737 (1097)	3587	1000	5.5	8.3	615	385
750 kcmil (380 mm ²)	125 (3.18)	1.210 (30.7)	886 (1318)	6000	1000	6.1	9.2	700	435
800 kcmil (405 mm ²)	125 (3.18)	1.240 (31.5)	936 (1393)	6400	1000	6.2	9.3	725	445
1000 kcmil (507 mm ²)	125 (3.18)	1.370 (34.8)	1153 (1716)	8000	1000	6.9	10.4	845	500

PRODUCT NOTES:

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

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*2014 NEC Table 310.15(B)(17) SINGLE INSULATED CONDUCTORS IN FREE AIR, AMBIENT 30°C.

**2014 NEC Table 310.15(B)(16) NOT MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN RACEWAY, CABLE OR EARTH, AMBIENT 30°C.

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