



AWG
AMERICAN WIRE GROUP
A POWERFUL SOLUTION

SunGuard™

Single Conductor XLPE Aluminum Photovoltaic Wire UL Type PV/RHH/RHW-2/USE-2 600 V / 2000 V

CONDUCTOR:

- 8 AWG to 1000 kcmil compact aluminum (8000 series)

INSULATION:

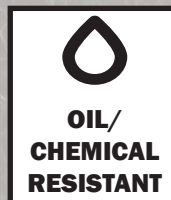
- Flame-retardant cross-linked polyethylene (XLPE)
- Available in black or red. Other colors available upon request.

FEATURES:

- Rated 90 °C
- Suitable for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeding UL 44 requirements
- 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

STANDARDS:

- ASTM B800 – Standard Specification for 8000 Series Aluminum Alloy Wire for Electrical Purposes - Annealed and Intermediate Tempers
- ASTM B801 – Standard Specification for Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy for Subsequent Covering or Insulation
- ASTM B836 – Standard Specification for Compact Round Stranded Aluminum Conductors Using Single Input Wire Construction
- UL 4703 Type PV rated 600 V or 2 kV
- UL 44 Type RHH or RHW-2 rated 2 kV
- UL 854 Type USE-2 rated 600 V
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70





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**SUNGUARD XLPE ALUMINUM 90 °C
 PHOTOVOLTAIC WIRE
 600 V UL Type PV/USE-2 or
 2 KV UL Type RHH/RHW-2**

**SUNGUARD XLPE ALUMINUM 90 °C
 PHOTOVOLTAIC WIRE
 2 kV UL Type PV/RHH/RHW-2 or
 600 V UL Type USE-2**

Item #	Conductor Size (AWG or kcmil)
A8-01PVX0700	8
A6-01PVX0700	6
A4-01PVX0700	4
A2-01PVX0700	2
A1-01PVX1900	1
A1/0-01PVX1900	1/0
A2/0-01PVX1900	2/0
A3/0-01PVX1900	3/0
A4/0-01PVX1900	4/0
A250-01PVX3700	250
A300-01PVX3700	300
A350-01PVX3700	350
A400-01PVX3700	400
A500-01PVX3700	500
A600-01PVX6100	600
A750-01PVX6100	750
A1000-01PVX6100	1000

Item #	Conductor Size (AWG or kcmil)
A8-01PV2X0700	8
A6-01PV2X0700	6
A4-01PV2X0700	4
A2-01PV2X0700	2
A1-01PV2X1900	1
A1/0-01PV2X1900	1/0
A2/0-01PV2X1900	2/0
A3/0-01PV2X1900	3/0
A4/0-01PV2X1900	4/0
A250-01PV2X3700	250
A300-01PV2X3700	300
A350-01PV2X3700	350
A400-01PV2X3700	400
A500-01PV2X3700	500
A600-01PV2X6100	600
A750-01PV2X6100	750
A1000-01PV2X6100	1000



Over
87 MILLION FEET
of photovoltaic wire delivered to
our customers!



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Single Conductor XLPE Copper Photovoltaic Wire UL Type PV/RHH/RHW-2/USE-2 600 V / 2000 V

CONDUCTOR:

- 18 AWG to 1000 kcmil compressed stranded bare or tinned copper

INSULATION:

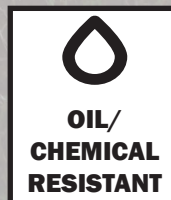
- Flame-retardant cross-linked polyethylene (XLPE)
- Available in black or red. Other colors available upon request.

FEATURES:

- Rated 90 °C
- Suitable for direct burial
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeding UL 44 requirements
- 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

STANDARDS:

- ASTM B3 – Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 – Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- ASTM B33 – Standard Specification for Tin-Coated Soft or Annealed Copper Wire for Electrical Purposes
- UL 4703 Type PV rated 600 V or 2 kV
- UL 44 Type RHH or RHW-2 rated 2 kV
- UL 854 Type USE-2 rated 600 V
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70





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**SUNGUARD XLPE COPPER 90 °C
 PHOTOVOLTAIC WIRE
 600 V UL Type PV/USE-2 or
 2 KV UL Type RHH/RHW-2**

Item #	Conductor Size (AWG or kcmil)
18-01PVX0700	18
16-01PVX0700	16
14-01PVX0700	14
12-01PVX0700	12
10-01PVX0700	10
8-01PVX0700	8
6-01PVX0700	6
4-01PVX0700	4
2-01PVX0700	2
3-01PVX0700	3
1-01PVX1900	1
1/0-01PVX1900	1/0
2/0-01PVX1900	2/0
3/0-01PVX1900	3/0
4/0-01PVX1900	4/0
250-01PVX3700	250
300-01PVX3700	300
350-01PVX3700	350
400-01PVX3700	400
500-01PVX3700	500
600-01PVX6100	600
750-01PVX6100	750
1000-01PVX6100	1000

**SUNGUARD XLPE COPPER 90 °C
 PHOTOVOLTAIC WIRE
 2 KV UL Type PV/RHH/RHW-2 or
 600 V UL Type USE-2**

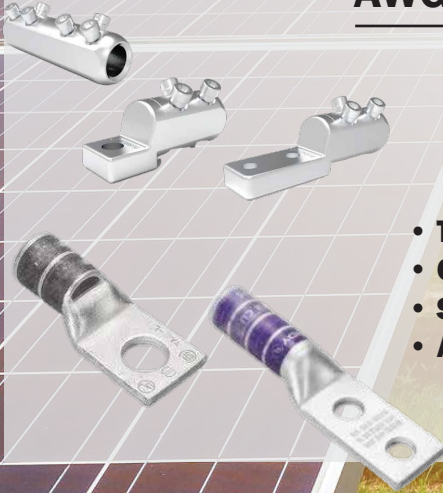
Item #	Conductor Size (AWG or kcmil)
18-01PV2X0700	18
16-01PV2X0700	16
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12-01PV2X0700	12
10-01PV2X0700	10
8-01PV2X0700	8
6-01PV2X0700	6
4-01PV2X0700	4
2-01PV2X0700	3
3-01PV2X0700	2
1-01PV2X1900	1
1/0-01PV2X1900	1/0
2/0-01PV2X1900	2/0
3/0-01PV2X1900	3/0
4/0-01PV2X1900	4/0
250-01PV2X3700	250
300-01PV2X3700	300
350-01PV2X3700	350
400-01PV2X3700	400
500-01PV2X3700	500
600-01PV2X6100	600
750-01PV2X6100	750
1000-01PV2X6100	1000





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AWG is an Authorized Distributor of:



- Terminations
- Cable Lugs
- Splices
- Arresters



- Grounding Solutions
- Cable Ties
- Wire Management
- Cold Shrink

... and more!

