PowerLink Solar Cables

Amphenol’s single conductor PowerLink Solar Cables are designed to be highly efficient, reliable, cost effective solutions for applications in harsh environments with extreme temperatures and rated for direct burial. PV, USE-2, and Thermoset cables are constructed with XLPE (cross-linked polyethylene) insulation and a tough abrasion-resistant jacket that resists sunlight, ozone, and UV radiation. Our PowerLink cables are proven solutions for any solar farm requiring reliable design and superior material construction.

- Conductors: Bare copper, tinned copper, or aluminum
- Certified UL 4703, TUV and dual rated
- UV/Ozone resistant
- Direct burial rated
- Flexibility at low temperatures
- Thermoset-insulated conductor
- Long-term insulation resistant to moisture
- Electrical Characteristics
  - Voltage rating: 600V, 1000V-2000V
  - Temp rating (wet or dry): -40°C to +90°C
  - Flammability: VW-1, FT1 (UL1581, UL44)
**PowerLink Single Jacket PV Cable**

The PowerLink Single Jacket PV Cable is designed for interconnection wiring of grounded or ungrounded photovoltaic power systems as described in section 690.31 (A) and other applicable parts of the National Electric Code, NEC, NFPA70, and RoHS compliant. Our superior single jacket design allows the outside of the cable to be smaller than a standard dual jacket PV cable. By using only one jacket the cable is narrower making the termination of a connector much easier.

**Product Features and Benefits:**
- Conductors: Bare copper, tinned copper, aluminum
- Sizes: 18AWG - 6AWG
- Stranding: 7 or 19
- Insulation: XLPE (ASTM D2863)
- Colors: Black, white, red, blue, green, yellow, orange
- Sunlight resistant
- Direct burial rated
- **Electrical Characteristics**
  - **Voltage rating:** 600V 2000V
  - **Temp rating (wet or dry):** 90°C 90°C
  - **Spark test:** 1500V 5kV
  - **Cold bend:** -40°C -40°C
  - **Flammability:** VW-1 VW-1
- UL4703 rated, file #E327886

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**PowerLink Dual Jacket PV Cable**

The PowerLink Dual Jacket PV Cable is designed for interconnection wiring of grounded or ungrounded photovoltaic power systems as described in section 690.31 (A) and other applicable parts of the National Electric Code, NEC, NFPA70, RoHS compliant.

**Product Features and Benefits:**
- Conductors: Bare copper, tinned copper, aluminum
- Sizes: 18AWG - 6AWG
- Stranding: 7 or 19
- Insulation: XLPE (ASTM D2863) white or black
- Jacket: PVC (ASTM D2863) black
- Sunlight resistant
- Direct burial rated
- **Electrical Characteristics**
  - **Voltage rating:** 600V 2000V
  - **Temp rating (wet or dry):** 90°C 90°C
  - **Spark test:** 1500V 5kV
  - **Cold bend:** -40°C -40°C
  - **Flammability:** VW-1 VW-1
- UL4703 type PV wire, file #E3227886

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**PowerLink USE-2 and Thermoset Cable**

The PowerLink USE-2 and Thermoset Cable is a single jacket cable used for lighting and power applications and may be installed in raceway, duct, direct burial, and aerial installations. The cable meets National Electric Code and other general purpose wiring applications. Satisfies USE-2, RHH, RHW-2, XHHI, XHHWI, XHHW-2, RHW, RHW-2, RHH, R90, RW75, RW90, RWU75, RWU90. (UL), (cUL), (cULus).

**Product Features and Benefits:**
- Conductors: Bare copper, tinned copper, aluminum
- Sizes: 14AWG - 6AWG
- Stranding: 7 or 19
- Insulation: XLPE (ASTM D2863)
- Sunlight resistant
- Direct burial rated
- **Electrical Characteristics**
  - **Voltage rating:** 600V 1000V
  - **Temp rating (wet or dry):** 90°C 90°C
  - **Spark test:** 1500V 5kV
  - **Cold bend:** -40°C -40°C
  - **Flammability:** VW-1 FT-1

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**PowerLink Dual Rated Cable**

The PowerLink Dual Rated Halogen free photovoltaic cables are used as interconnecting wiring for photovoltaic power systems. This one cable is UL/ TUV rated. UL1581, IEC60332-1, IEC61034, IEC60754, EN-ISO4892, IEC60811-2-1, UL Sub 1703, UL4703 Type PV, 2PTG1169/08.2007, IEC61215, RoHS 2002/95/EC.

**Product Features and Benefits:**
- Conductors: Tinned copper
- Stranding: Per TUV requirements
- Insulation: XLPE
- Jacket: XLPE
- Direct burial rated
- Sunlight resistant
- **Electrical Characteristics**
  - **Voltage rating:** 1000V (TUV) / 1000V (UL)
  - **Temp rating (wet or dry):** 90°C
  - **Spark test:** 6,000 VAC 10,000 VAC
  - **Flammability:** VW-1, (UL1581, UL44)

**Part	Number	 AWG	 Voltage/Certification**

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<tr>
<th>Part Number</th>
<th>AWG</th>
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<td>1000V TUV/1000V UL</td>
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<td>HCPBH4D1</td>
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<td>HCPBH6D1</td>
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<td>1000V TUV/1000V UL</td>
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<td>8AWG</td>
<td>1000V TUV/1000V UL</td>
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Call your local rep for additional PowerLink dual rated cable part numbers

2000V also available
### How to order

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<td>16AWG (PV &amp; PV2 Only)</td>
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<td>cUL</td>
<td>854/44</td>
<td>XLP</td>
<td>60/80</td>
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Note: Product lines PV and PV2 are available in 18 to 6AWG, all other product lines are available in 14 to 6 AWG.
Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.
Amphenol’s Solar Market Solutions

Amphenol Industrial Global Operations is a leader in the design and manufacturing of products and solutions for all segments of the solar electric system industry. At AIGO, we understand the need for efficient (low loss) power transfer systems that are highly reliable and competitive, cost effective solutions. We provide panel manufacturers, installers, and OEM’s with wire, connectivity, and grounding products for both thin film and crystalline silicon technologies. All AIGO products meet the National Electric Code specifications.

- Our Single Conductor PV, USE-2, and Thermoset cables are designed for any solar application
- PowerLink cables are manufactured to handle all kinds of harsh environments
- XLPE (cross linked polyethylene) insulation provides a tough abrasion-resistant jacket that resists sunlight, ozone, and UV radiation