

# PV Wire / Photovoltaic Cable (UL 4703 Standard, 600V-2000V)

Farwalk's PV Wires are the rugged DC backbone of North American and international solar infrastructure. Strictly manufactured to UL 4703 standards, these cables are engineered to endure 25+ years of direct sunlight and extreme environmental stress. With a dual-wall thermoset XLPO construction, they deliver safe, reliable power for utility-scale solar farms and commercial rooftops.



## Applications

The primary choice for DC interconnections in solar photovoltaic systems, specifically linking PV modules (panels) to combiner boxes and inverters. UL 4703 PV Wire is required for any system following the National Electrical Code (NEC), offering the thermal and mechanical resilience necessary for exposed outdoor routing and direct burial applications.

## Description

Manufactured in accordance with UL 4703 and ASTM standards. The core features fine-stranded tinned annealed copper, providing ultimate resistance to salt-spray and terminal oxidation. It is insulated with two layers of Cross-linked Polyolefin (XLPO), a thermoset material that will not melt under high-heat solar spikes. Rated for up to 2000V DC.

## Specifications

- **Voltage Rating: 600V, 1000V, 2000V (UL)**
- **Conductor: Tinned Annealed Copper (Class B/C)**
- **Insulation/Jacket: Dual-layer Thermoset XLPO**
- **Standard Compliance: UL 4703, NEC Article 690**
- **Temp. Rating: 90°C Wet/Dry, -40°C Cold Bend**
- **Flame Test: VW-1 / UL 1581**

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## Complete Technical Tables

### UL 4703 PV Wire (Tinned Copper)

Size (AWG)	Cond. Type	Insulation Thick. (mils/mm)	Approx. Overall Dia. (mils/mm)	Approx. Weight (lb/kft)	Allowable Ampacity @ 90° C (Amps)
<b>UL 4703 PV Wire - 600V / 2000V Rated</b>					
14 AWG	Tinned Copper	60 / 1.52	193 / 4.90	28	25
12 AWG	Tinned Copper	60 / 1.52	212 / 5.38	38	30
10 AWG	Tinned Copper	60 / 1.52	236 / 5.99	51	40
8 AWG	Tinned Copper	75 / 1.91	296 / 7.52	85	55
6 AWG	Tinned Copper	75 / 1.91	334 / 8.48	125	75
4 AWG	Tinned Copper	75 / 1.91	382 / 9.70	185	95