

PV Solar Wiring Solutions

- **ON TIME**
- **ACCURATE**
- **FLEXIBLE SERVICE**
- **CUSTOM SOLUTIONS**



PRIORITY
WIRE & CABLE, INC.
5830 UL

OUR GOAL:

Save You Time and Money in the Field!

Priority Wire & Cable helps contractors to be as efficient as possible in the field. That means reduced labor, reduced time to install, on-time commissioning. If your cable supplier is costing you money with late deliveries, inaccurate shipments, poor communication or defective product you need a new supplier. Priority will solve these problems and eliminate unexpected costs.

Top Quality Priority Wire & Cable products have been tested, approved and proven by the most demanding EPC's, Panel Manufacturers and OEM's in the solar industry. Our long-term relationships are proof of the job done right.



BEST
service



BEST
on-time
delivery
record



LARGEST
solar
cable
inventory

Aluminum PV Cable 1K/2KV 90°C Wet/105°C Dry

- Application:** PV Cables are suitable for use in solar power, Type UL 4703 PV, Type USE-2 and Type RHW-2 applications, which require superior resistance to flame and extreme temperatures. PV Cables are suitable for direct burial applications. PV Cables are to be used up to 90°C temperatures in wet locations and up to 105°C in dry locations.
- Construction:** A stranded soft drawn bare 8000 Series Aluminum conductor, per ASTM.
- Insulation:** Cross-linked polyethylene XLP insulation, which is gas/oil and sunlight resistant. Standard colors are black, white, red 8 awg - 1000 MCM and green in size 4awg-1/0. Other colors or stripes are available upon request.
- Standards:** UL listed as Photovoltaic Cable per Standard Subject 4703, 44 & 854
VW-1 flame test
UL 1581
CSA Listed RPV490 under CSA C22.2 No. 271
Sunlight Resistant
Direct Burial
RoHS compliant
- Value Solutions:** Parallels, triplex, circuit cuts, custom labeling
“Just in Time” shipping per installation schedule
24/7/365 service
Fast delivery from largest inventory in USA

600V & 1KV/2KV Copper PV Cable

- Application:** For use in interconnection wiring of grounded and ungrounded photovoltaic power systems.
- Construction:** Stranded copper conductors. Cross-linked polyethylene (XLPE) insulation.
- Standards:** UL listed PV wire under UL44, UL 1581 and UL4703 Photovoltaic Wires
-40°C to 90°C wet or dry
VW-1 rated per UL1581
Sunlight Resistant
Direct Burial

Aluminum Conductor 35KV MV90 – Concentric Neutral

- Application:** Aluminum Conductor 35KV cable is primary used for underground distribution, in direct burial or installed in conduit. 35KV cable is suitable for use in wet or dry locations. Cable is to be used at 35,000 volts or less and not to exceed 90°C temperature in normal use.
- Construction:** A solid or compressed concentric strand soft drawn 1350 series aluminum conductor per ASTM.
- Conductor** An extruded thermoset semiconducting shield, which is free stripping from the conductor and bonded to the insulation.
- Insulation:** Naturally high dielectric strength TR-XLPE insulation. There is also extruded thermoset semiconducting insulation shield. Optional EPR insulation is available upon request.
- Metallic Shield:** A concentric neutral shield consisting of solid bare copper wires helically applied and uniformly spaced over the insulation shield.
- Jacket:** A black jacket of linear low density polyethylene (LLDPE), which is sunlight, abrasion and heat resistant. The jacket has 3 red stripes, the NEC lightning bolt and sequential footage markings.
- Standards:** ASTM B-3, B-8, B230, B-231, B-609
ANSI/ICEA S-94-649
AIEC CS-8
RUS ACCEPTED
For 90°C continuous, 130°C emergency and 250°C short-circuit operation
UL MV90

Aluminum Single Conductor 15KV & 35KV MV-105 EPR/PVC Copper Tape Shield

- Application:** Shielded MV-105 cable is primarily used for power circuits in commercial, industrial, refinery and petro-chemical plants; utility power generation and substations. The cable can be installed in wet or dry applications in cable tray sizes 1/0 & larger, duct, open air and direct burial. The cable is approved for temperature up to 105°C.
- Construction:** Class B Compact concentric strand soft drawn annealed aluminum per ASTM.
- Conductor Shield:** Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation.
- Insulation:** Natural high dielectric strength EPR-based insulation, combined with other materials and agents that enhance the electrical and mechanical characteristics assuring extended cable life.
- Insulation Shield:** Extruded thermosetting semiconducting shield with controlled adhesion to the insulation providing the required balance between electrical integrity and ease of stripping.
- Metallic Shield:** Helically applied non-magnetic copper tape(s) over the insulation shield with a minimum overlap of 25%.
- Jacket:** Black sunlight resistant, non-migrating, polyvinyl chloride (PVC) jacket applied over the copper tape.
- Standards:** AEIC CS8
ICEA S-93-639
ICEA S-97-682
UL 1072
IEEE 383 Flame Test
IEEE 1202 Flame Test

Tray Cable UL Type TC / TC-ER – 600V THHN/THWN-2 Insulation – with Ground – PVC Jacket

- Application:** General purpose multi-conductor 600V power cables used for primary power/feeder circuits. For installation in cable trays in accordance with Article 336. Cable is approved for use in raceways, supported by messenger wire in open air, for direct burial applications, in Class I & II division 2 hazardous locations and for Class 1 circuits as permitted in Article 725.11(b). May be installed in both wet and dry locations or in areas exposed to chemicals and oils.
- Construction:** Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.
- Insulation:** Heat and moisture resistant Polyvinylchloride (PVC) per UL 62. Clear Polyamide (Nylon) jacket per UL 62. Insulation meets requirements of Type THHN/THWN-2 as specified by UL83. The insulation is flame retardant and is rated for use at 90°C wet or dry.
- Ground:** Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.
- Color Code:** ICEA Method M4 (black and numbered).
- Assembly:** Conductors and ground are cabled together with or without fillers as required to form a round, compact cable core and with a binder tape.
- Flame Test:** IEEE 383 70,000 BTU vertical tray flame test



Priority Solar Projects Across the US



Priority Capabilities:

- Cut to length
- Paralleling
- Triplexing
- CIC (Cable in Conduit)
- Armoring
- Striping
- Splice Kits (MV Cable)
- Termination Kits (MV Cable)
- Pulling Eyes
- Custom Labels
- Kitting
- Same Day Shipping
- 24 Hour Emergency Hotline

Premier Supplier of Wire & Cable

Aluminum Building Wire	Bare Copper
Portable Cord	Utility Aluminum
Extension Cords	MC Cable
Fire Alarm	Tray Cable
Belden® Equals	PV Cable
Ground Rods	Medium Voltage
THHN Colors	Coax, Cat 5e & 6
Range & Dryer	Thermostat Wire
Welding Cable	Flexible Conduit

