

PV Solar Wiring Solutions

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



PRIORITY
WIRE & CABLE, INC.
518x8 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 and 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.



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service



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solar
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Aluminum PV Cable XLPE 2KV

- Application:** PV Cables are suitable for use in solar power, Type 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, and for conductor operation temperatures up to 90°C in wet or dry locations.
- Conductor:** Compact stranded 8000 Series Aluminum conductor per ASTM B800, B801, B836, B901.
- Insulation:** Cross-linked polyethylene (XLPE) insulation, gas/oil and sunlight resistant. Standard colors are black, red 8AWG - 1000KCM and green in size 4AWG - 1/0AWG. Other colors or stripes are available upon request.
- Standards:** UL listed Photovoltaic Wire, RHW-2, & USE-2 per UL 4703, 44 & 854
CSA listed RPVU90 per CSA C22.2 No. 271 (UL/CSA dual listed available upon request)
Sunlight Resistant, Direct Burial, VW-1 flame test
-40°C to 90°C wet or dry
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

Copper PV Cable XLPE 2KV

- Application:** For use in interconnection wiring of grounded and ungrounded photovoltaic power systems.
- Construction:** Stranded copper conductors per ASTM B3, B8, or B787. Cross-linked polyethylene (XLPE) insulation.
- Standards:** UL listed Photovoltaic Wire, RHW-2, & USE-2 per UL 4703, 44 & 854
-40°C to 90°C wet or dry
VW-1 flame test
Sunlight Resistant
Direct Burial
RoHS Compliant

Aluminum Conductor 15KV & 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 15,000 or 35,000 volts or less and not to exceed 90°C continuous, 130°C emergency and 250°C short-circuit operation temperatures in normal use.
- Conductor** A Solid or compressed concentric stranded 1350 series aluminum conductor per ASTM B230, B231, B609.
- Conductor Shield:** Extruded thermoset semiconducting shield, free stripping from the conductor and bonded to the insulation.
- Insulation:** Naturally high dielectric strength TR-XLPE insulation covered by an extruded thermoset semiconducting insulation shield. Optional EPR insulation is available upon request.
- Metallic Shield:** Concentric neutral shield consisting of solid bare copper wires helically applied and uniformly spaced over the insulation shield.
- Jacket:** Black jacket of linear low density polyethylene (LLDPE), which is sunlight, abrasion and heat resistant. The jacket has three red stripes, the NESC lightning bolt and sequential footage markings.
- Standards:** ASTM B3, B230, B231, B258, B609
ANSI/ICEA S-94-649
AEIC CS-8
UL 1072 MV-90 (MV-105 available upon request)
RUS ACCEPTED

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 locations, in cable trays (sizes 1/0AWG & larger), duct, open air and direct burial. The cable is to be used at 15,000 or 35,000 volts or less and not to exceed 105°C continuous, 140°C emergency and 250°C short-circuit operation temperatures in normal use.
- Conductor:** Class B stranded 1350 series aluminum per ASTM B230, B231, B400, B609.
- Conductor Shield:** Extruded thermosetting semiconducting shield, free stripping from the conductor and bonded to the insulation.
- Insulation:** 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 5mil copper tape over the insulation shield with a minimum overlap of 25%.
- Jacket:** Black sunlight and flame resistant polyvinyl chloride (PVC) jacket applied over the copper tape.
- Standards:** ASTM B230, B231, B400, B609
AEIC CS8
ICEA S-93-639
ICEA S-97-682
UL 1072
IEEE 383/UL 1685 Vertical Tray Flame Test
IEEE 1202 Vertical Tray Flame Test

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

- Application:** General purpose multi-conductor 600V power cables used for primary power/feeder circuits. For installation in cable trays in accordance with NEC 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 NEC Article 725.11(b). May be installed in both wet and dry locations or in areas exposed to chemicals and oils.
- Conductor:** Soft or annealed bare copper per ASTM B3, Class B stranding per ASTM B8.
- Insulation:** Heat and moisture resistant cross-linked polyethylene (XHHW-2) per UL 44 or Polyvinylchloride (PVC) and clear Polyamide (Nylon) jacket of Type THHN/THWN-2 per UL83. The insulation is flame retardant and is rated for use at 90°C wet or dry.
- Ground:** Soft or annealed bare copper per ASTM B3, Class B stranding per ASTM B8.
- Color Code:** ICEA Method M4 number code (black and numbered).
- Assembly:** Conductors and ground are cabled together with or without fillers as needed to form a round, compact cable core and covered with an overall PVC jacket.
- Flame Test:** IEEE 383/UL 1685, 70,000 BTU/HR vertical tray flame test
IEEE 1202 70,000 BTU/HR vertical tray flame test
- Standards:** ASTM B3, B8
NEMA WC70/ICEA S-95-658, NEMA WC57/ICEA S-73-532
UL 44, 83, 1277



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



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