

# SOLAR PV CABLE ASSEMBLIES

FOR 1500 VDC SYSTEMS



**INCREASE EFFICIENCY AND CUT DOWN ON INSTALLATION TIME WITH PRE-ASSEMBLED, PLUG AND PLAY HIGH-QUALITY PV HARNESSSES THAT ARE SAFE AND RELIABLE**

## APPLICATIONS

- Utility-scale Solar Projects

## RELEVANT STANDARDS AND TEST REPORTS

- Tested acc. TUV PPP
- Solar Cable Cu EN 50618 & IEC 62930
- Solar Cable AL 2 PfG 2642

## KEY FEATURES

- In line over-molded fuses up to 80A
- Field-proven design to last the industry lifespan requirement
- Custom-made harnesses, whips and jumpers
- Designed for 1500 VDC system
- Available in different wire colors and cable size options
- Available options for multiple panel technologies (Thin-film or Bi-facial)
- TE design team provides support to ensure compatibility with project specific requirements (connector compatibility, code compliance, etc.)

TE Connectivity (TE) Solar PV Cable Assemblies are designed for PV solar applications up to 1500 V with multiple cable sizes (4 mm<sup>2</sup> - 35 mm<sup>2</sup>). Our solution offers a complete range of harnesses with different configurations, including in-line over-molded fuses up to 80A, branching, whips, and string jumpers.

To ensure a reliable and long-lasting PV solar cable assemblies, each cable assembly is tested before shipment and must pass a series of tests, including the submersion leakage (hi-pot) test, continuity test, resistance check, weight check, and visual inspection. An X-ray check is performed on every batch to ensure molded joints are centered and have the appropriate wall thickness around the conductors.

For traceability, each cable assembly is marked with a distinct serial number or barcode.

## FUSED HARNESSSES

String Configuration	Customized to project needs
Cable Size	4 mm <sup>2</sup> - 35 mm <sup>2</sup>
PV Connectors	PV4S, PV5, and most PV connector brands
Cable Color	Black, Red
Max Fuse Size	Up to 80A
Cable Rating	Designed for 1500 VDC System

### Add-ons

#### • Labeling

- Each individual jumper/ harness can be labeled according to site location (circuit, block, etc).

## CU/AL TRANSITION HARNESSSES



### KEY FEATURES

- Ideal for cost savings on end-of-row designs
- Customized design to accommodate site layouts reducing the overall project budget
- Prevent increased oxidation from different metal surface contacts
- Minimize copper usage by utilizing cost-efficient aluminum materials
- Protection against dust and water (IP68)

### COST-SAVING DESIGN FOR SEAMLESSLY CONNECTING COPPER STRING HARNESSSES TO ALUMINUM PV CABLE

Copper-to-aluminum (Cu-Al) transitions could be crucial components for cost savings in utility-scale solar Electrical Balance of System (EBOS) applications, offering an efficient combination of performance, cost savings, and reliability. Aluminum is commonly used for most system wiring due to its lightweight and cost-effective nature, while copper is employed in critical areas requiring higher electrical conductivity and durability. This dual-material approach optimizes the balance between cost, weight, and performance across the system.

### AVAILABLE OPTIONS

CU/AL Transition Cable	Copper mm <sup>2</sup>	Aluminum mm <sup>2</sup>
CU-AL Solar Junction Cable	4	6
	4	10
	6	10
	4	16
	6	16
	10	16
	16	16
	6	25
	10	25
	16	25
	6	35
	10	35
	16	35

Learn more: [TE.com/cts](https://www.te-connectivity.com/cts)

© 2026 TE Connectivity. All Rights Reserved. EPP-4555-DDS-03/26

TE, TE Connectivity, TE connectivity (logo), EVERY CONNECTION COUNTS are trademarks owned or licensed by TE Connectivity. Other logos, product and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions, specifications, and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications, and/or information. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

Connect with us:

[TE.com/solar-contact](https://www.te-connectivity.com/solar-contact)