



## Photovoltaic Balance of System Products

The TE Connectivity SOLARKLOK product portfolio delivers a flexible solution for the interconnection of crystalline and thin-film modules used in rack mounted, shingle, tile or BIPV applications. Our growing presence in the PV industry is backed by our ability to provide innovative, extensive, and high-quality products that are designed to meet your individual needs.



A



**A Male and Female Connectors**

Designed with a simple wire crimp, these latching connectors accommodate a wide range of wire sizes for a low applied cost. Polarity keyed housing helps to prevent mismating. UL approved.

Cable Outer Diameter 4.5mm to 6.0mm

Wire Size	Female Cable Coupler		Male Cable Coupler	Package Quantity
	Plus Keyed	Minus Keyed	Neutral	
12AWG	4-1394462-8	4-1394462-9	7-1394461-2	100
10AWG	6-1394462-3	6-1394462-4	7-1394461-5	100

[te.com/products/SolarConnectors](http://te.com/products/SolarConnectors)  
\*Contact TE for additional wire sizes/options

B



Cable Outer Diameter 5.5mm to 8.0mm

Wire Size	Female Cable Coupler		Male Cable Coupler	Package Quantity
	Plus Keyed	Minus Keyed	Neutral	
12AWG	1394462-3	1394462-4	6-1394461-2	100
10AWG	5-1394462-5	5-1394462-6	6-1394461-4	100

[te.com/products/SolarConnectors](http://te.com/products/SolarConnectors)  
\*Contact TE for additional wire sizes/options

**Dust Covers for Female and Male Coupler**

Part Number	Description
1987423-1	Applied to female housing with strap
1987424-1	Applied to female housing without strap
1394739-1	Applied to male housing with strap
1987419-1	Applied to male housing without strap

C



**B Hand Crimping Tool**

The SOLARLOK hand crimping tool contains precision dies and ratcheting handles to help ensure repeatable crimp performance.

Part numbers : 1-1579004-1 (14-16 AWG and 1.5-2.5 mm<sup>2</sup>)  
1-1579004-2 (10-12 AWG and 4.0-6.0 mm<sup>2</sup>)

**C Locking Collar Connector Accessory**

The SOLARLOK locking collar is required by NEC 2008, Article 690.33(c). A small flathead screwdriver is used to remove the collar from the mated connectors to achieve the required tooled extraction.

Part number : 2106207-1

[te.com/products/SolarConnectors](http://te.com/products/SolarConnectors)

D



**D USE-2 Solar AWG Cable**

This cable is approved for outdoor use. The wire jacket provides a robust layer of protection and is UV resistant. High strand count provides improved cable flexibility. UL approved.

Wire Size	Color	Outer Diameter (inches)	Part Number	Quantity
12AWG	Black	0.19	1986165-2	500
	Black	0.19	1986165-3	1600
10AWG	Black	0.21	1986164-2	500
	Black	0.21	1986164-3	1000

[te.com/products/SolarCable](http://te.com/products/SolarCable)  
\*Contact TE for additional wire sizes/options

**E Ground Clip and F Ground Bolt Solutions**

The 10-12 AWG grounding clip connector provides four points of contact to the ground wire for high reliability. With a preassembled product that includes a #10-32 thread cutting screw, the grounding clip is easy to install with readily available simple tools. The 6-12 AWG ground bolt contains multiple wiping features to score the ground wire for a reliable connection. Both products are UL listed.

Wire Size	Grounding Solution	Description	Part Number
6-12 AWG	Ground Bolt	#8-32 UNC, Standard	2058729-1
		#10-32 UNF, Long Tail	2106831-1
10-12 AWG	Ground Clip	#10-32 Thread Cutting Screw	1954381-1
		#8-32 w/ Nut	1954381-2

[te.com/products/GroundingClip](http://te.com/products/GroundingClip)



**G 5-String Combiner Box**

The SOLARLOK combiner box assembly is used to combine up to five strings in a preterminated connectorized weather-resistant enclosure to meet National Electric Code (NEC) requirements for series fusing of photovoltaic (PV) modules (solar panels). The combiner box assembly consists of a box, cover (with hinges), transparent dead front lid (under the cover), and 10 pre-terminated SOLARLOK connectors each with a removable dust cover. This plug and play design helps to minimize errors and labor time during the installation process. The box features 4 knockouts (for output wiring), lock tab, mounting slots and pre-wired SOLARLOK grounding bolt. This product is UL Listed.

**Part Number - 1954283-1**

[te.com/products/combinerboxes](http://te.com/products/combinerboxes)



**Transition Box**

The SOLARLOK transition box is used to convert outdoor wire to more cost effective building wire for use in protective conduit. The transition box assembly consists of a pre-terminated connectorized weather-resistant enclosure to meet National Electric Code (NEC) requirements, a cover (with hinges), a transparent dead front lid (under the cover), and 10 pre-terminated SOLARLOK connectors, each with a removable dust cover. This plug and play design helps to minimize errors and labor time during the installation process. The box features 4 knockouts (for output wiring), a lock tab, mounting slots and a pre-wired SOLARLOK grounding bolt. This product is UL Listed.

**Part Number - 2106916-1**

[te.com/products/combinerboxes](http://te.com/products/combinerboxes)



**H Solar Identification Labels**

NEC demands proper marking and labeling of solar systems. TE labels are designed to withstand harsh outdoor environments. The solar labels adhere to the requirements of the IEC 61215/IEC 61646.

Quantity/Roll	TE Ordering Description	SAP Part Number	Label Description
5 rolls of 100	SOL-SD-104076-4-0.1	CN4616-000	Solar Disconnect
	SOL-DCD-104100-4-0.1	CN4619-000	DC Disconnect
	SOL-DPS-104019-4-0.1	CN4618-000	Warning - Dual Power Sources
	SOL-ESH-104019-4-0.1	CN4617-000	Warning - Electric Shock
500	SOL-SD-104076-4-0.5	CL3803-000	Solar Disconnect
	SOL-DCD-104100-4-0.5	CL3806-000	DC Disconnect
	SOL-DPS-104019-4-0.5	CL3804-000	Warning - Dual Power Sources
	SOL-ESH-104019-4-0.5	CL3805-000	Warning - Electric Shock

[te.com/products/solarlabels](http://te.com/products/solarlabels)



## FOR MORE INFORMATION

[te.com/industry/solar](http://te.com/industry/solar)

### TE Technical Support Center

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Part numbers in this brochure are RoHS Compliant\*, unless marked otherwise.

\*as defined [www.te.com/leadfree](http://www.te.com/leadfree)

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