

PV Cable Assembly Tools

We have tools from Multi-Contact and Tyco for crimping the pins on their connectors. There is a tool for each type of connector. We also have a high quality tool from Rennsteig that has a set of dies and positioners for MC Solarline 2; and for Tyco connectors, 10, 12 and 14 AWG wire.

MC4 Solarline 2 Crimping Tool

Crimping tool to assemble MC Solarline 2 locking connectors. Crimping tool is for 10 or 12 AWG stranded wire.



Description	Item code
MC Solarline 2 MC4 pin crimper for 10/12 AWG wire	094-00104

Tyco SolarLok Crimping Tool

Crimping tool to assemble SolarLok locking connectors. Crimping tool is for 10 or 12 AWG stranded wire.



Description	Item code
Tyco crimper for 10/12 AWG wire	094-00114

MC4 Solarline 2 Open-End Spanner Set

This set of 2 plastic wrenches is used to tighten the sealing nut in the connectors and to unlock the male and female connector. Sold in pack of 2 wrenches.



Description	Item code
MC Solarline 2 open-end spanner set	094-00112

Helios H4 Assembly Tools

The H4 wrench is used for assembling and disconnecting the connectors. The ring tool is for disconnecting the connectors only.



Description	Item code
Helios wrench/disconnect/assembly tool	094-00008
Helios H4 Ring Tool	094-00010

Rennsteig

Crimping Tool Sets and Accessories

There are 2 sets available: The MC3/MC4/Tyco set comes with 3 die-sets and 3 pin locators for crimping MC Solarline 1 (MC3) and Solarline 2 (MC4) pins and Tyco Solarlok pins on 14, 12, and 10 AWG stranded wire. The MC4/H4/H&S set comes with die-sets and pin locators for Solarline 2 (MC4) and Helios (H4), as well as a die-set for crimping H&S (Radox) pins on 14, 12, 10 AWG stranded wire. Comes with a molded plastic carrying case.

Individual die-sets and pin locators are also available.



Description	Item code
Rennsteig crimper set for MC3, MC4, Tyco	094-00123
Rennsteig crimper set for MC4, H4, H&S	094-00125
Rennsteig die only - MC4	094-00126
Rennsteig die only -Tyco	094-00127
Rennsteig die only- Helios H4	094-00130
Rennsteig die only – H&S (Radox)	094-00134
Rennsteig pin locator only - MC4	094-00132
Rennsteig pin locator only - Tyco	094-00133
Rennsteig pin locator only – Helios H4	094-00131
Rennsteig stripper for 14, 12, 10 AWG	094-00128
Rennsteig cutter for 14, 12, 10 AWG	094-00129

Hammer Crimp Tool

This simple, inexpensive crimping tool can be used to crimp connectors on 8 through 4/0 AWG wire. Spring-loaded pin locks in "up" position for loading connector and cable. When released, the pin holds the connector securely during crimping. Use with a hammer or vice.



Description	Item code
Hammer crimp tool	094-00013

Cable Crimper

Use crimper to crimp battery terminals, copper lugs and splices on wire from 8 gauge to 4/0. Adjustable crimp dies are clearly marked and easy to rotate into position. This 26-inch tool gives you plenty of leverage for quality crimping. Made in USA. UL Listed.



Cable Cutter

Cut cable up to 6/0 AWG with this 22-inch long handheld or bench-mount cutter with removable carbon steel blades. Use this tool for cutting large cable to make inverter cables and battery interconnects. Made in U.S.A.



Description	Item code
Cable cutter 22-inch bench mount	094-00003
Cable cutter with 22-inch handles	094-00004
Cable crimper with 26-inch handles	094-00011

Solmetric

SunEye 210 Site Analysis Tool

The Solmetric SunEye 210 is a hand held electronic device that allows users to assess total potential solar energy given the shading of a particular site. Identifying the shading pattern early in the process reduces the expense of system and home design and improves the efficiency of the final system or house.

The Solmetric SunEye 210 is an important tool for the professional solar installer, saving time and money and helping to design high performance systems. It's equally useful for PV, passive hot water, roof mount or ground mount systems. Optimize new systems for maximum production. Analyze existing installations to solve problems of under production. Identify specific shade-causing obstructions such as trees or structures and know instantly how much additional energy would be produced if the obstruction were removed.

The SunEye 210 comes with a fish-eye lens digital camera and sophisticated measurement software that simulates removal or addition of shading objects or structures, and measures roof tilt and azimuth. It works in the northern and southern hemispheres and provides easy measurements and instant feedback allowing you to make quick estimates and accurate system designs and stores data for later review. The SunEye interfaces to the USB port of your PC, and data is transferred from the device to the SunEye Desktop software. A Solar Access and Shading Report summarizes the data from each session. The SunEye also outputs various data files for use in simulation and design programs.

The GPS version permits automatic readings of latitude and longitude for sun path calculations and displays. Each Skyline reading can be automatically tagged with the latitude and longitude coordinates. Recommended for large sites where many skylines will be recorded, or when exact latitude/longitude coordinates are desired. Accuracy is +/-3 meters. When data is taken using the GPS option, all Skylines are geo-tagged, and the locations and data can be output to Google Earth.

It works on PCs with Windows Vista (all editions), Windows XP SP2 (Professional, Home, or Media Center), or Windows 2000 SP4. Currently, the SunEye software does not run natively on Mac OS. It is possible, however, to run the SunEye software on a Mac using a Windows emulator, such as Parallels Desktop for Mac.



Description	Item code
Solmetric SunEye 210 Tool w/ worldwide operation	094-00200
Solmetric SunEye 210 Tool w/ worldwide operation and GPS	094-00201



Solmetric

NEW! PVA-600 PV Analyzer

The Solmetric PV Analyzer is a complete electrical test solution for verifying photovoltaic array performance. For each string, the analyzer measures current and power as a function of voltage. Measured results are compared to the performance predicted by advanced built-in models.

- I-V and P-V graphs
- Wireless convenience
- Advanced predictive PV models built-in
- “Array-as-sensor” mode derives irradiance and cell temperature
- Wireless sensor kit for irradiance and temperature (optional)
- Inverter voltage range highlighted on I-V graphs
- Maximum input: 600V, 20A

Daystar

Digital Solar Meter

Daystar's DS-05A solar meter brings “point and read” simplicity to the measurement of solar irradiance. Just turn the meter on, point the sensor at the sun, and obtain a reading in watts/square meter.

Each meter is hand calibrated so you can rely on the accuracy.

Description	Item code
Daystar Solar Meter	094-00271

The PVA-600 comes standard with:

- I-V measurement unit with soft carrying case
- PVA software for Windows
- Wireless USB interface (for Windows laptop or UMPC)
- Connector saver jumper set (two 12-inch m-f MC-4 jumpers)
- MC-4 to MC-3 adaptor cable set
- Battery charger (AC adapter)

Optional Wireless PVA Sensor Kit includes:

- Irradiance sensor and wireless transmitter
- Thermocouples (5) and wireless transmitter
- Wireless USB Interface (connects to Windows PC)
- Rechargeable transmitter batteries and charger
- Hard plastic carrying case

Other optional accessories include:

- PV Analyzer Test Leads (MC-4 to alligator clips, 5 ft)
- I-V Data Analysis Tool for Microsoft Excel

Computer requirements:

- Windows 7 (all editions), Windows Vista (32 bit only), Windows XP SP3
- 700 MHz
- 500 MB RAM
- 100 MB hard drive space
- Minimum resolution: 1024 by 600
- 2 USB ports

Description	Item code
PV-600 Analyzer	094-00220
Wireless Sensor Kit	094-00221
PVA Test Leads	094-00222
I-V Data Analysis Tool	094-00223

