

# RENNSTEIG

*The Right Tool.*



**Tools** *for solar professionals*

*When it's a RENNSTEIG,*

*YOU can feel it.*

## Content

<b>Amphenol H4 (machined contacts)</b>	<b>5   7   9   11   13   15   17</b>
<b>Amphenol H4 (stamped&amp;formed)</b>	<b>5   7   9   13   15</b>
<b>BizLink/SunBolt</b>	<b>5   7   11   15</b>
<b>Hosiden (HSC2009,HSC210,HSC2013,HSC2014)</b>	<b>5   7   11   15</b>
<b>Huber+Suhner (Radox®-Twist Lock)</b>	<b>5   7   11   15</b>
<b>Kostal</b>	<b>5   7   11   15</b>
<b>Lapp EPIC® Solar</b>	<b>5   7   11   15</b>
<b>Lumberg</b>	<b>5   7   11   15</b>
<b>Multi-Contact MC3</b>	<b>5   7   11   15   17   24</b>
<b>Multi-Contact MC4</b>	<b>7   9   11   13   15   17   22</b>
<b>SMK</b>	<b>5   7   11   15</b>
<b>TongLing TL4</b>	<b>5   7   11   15</b>
<b>Tyco (Solarlok® PV4)</b>	<b>5   7   11   15</b>
<b>Tyco (Solarlok®)</b>	<b>5   7   11   13   15   17</b>
<b>Wieland (gesis® solar)</b>	<b>5   7   9   11   13   15   17</b>
<b>Yukita</b>	<b>5   7   11   15</b>

## Crimp System Tools

When you buy this tool you will receive a complete tool with an installed Die Set and Locator. So you are ready to crimp right away.

The Rennsteig Solar Crimp System is unique in the industry. We offer the option (different Crimp Die Sets) to crimp all common terminals/contacts on the solar market today. Because of interchangeable die sets, you won't need to buy more than one crimp tool. You can just get an additional die set to fit your existing crimp tool. In addition to our standard Crimp System Tool frame the Die Sets will also fit into the following available products.



### Hand Tool

### Electromechanical Driven Tool

### Manual Press

### Pneumatic Crimping Machine



## Single Components

You already own a RENNSTEIG Crimp System Tool? Here you will find additional Die Sets and Locators which fit into your (existing) tool.



## Complete Preassembled Cases

You need to work with different kind of connectors? With these cases you do not need to carry several single tools. In this category you will find heavy duty carrying cases in different configurations.



## Cable Cutters and Stripping Tools

Here you will find special designed cable cutters and wire stripper.



## Assembly Tools

In this section you will find other helpful tools to do your job faster, better and easier.





# Crimp System Tool

This crimp tool is recommended for crimping solar contacts. The excellent handling, easy exchange of the crimping die sets and the option of adding a positioning aid are features in favor of these crimping pliers.

- > High-precision ratchet mechanism for complete crimps
- > 1.2 metric tons pressure at crimping face, with minimal hand effort
- > **Interchangeable high-precision Crimping Die Sets**
- > Parallel jaws for even crimps
- > Interchangeable Locators for precise positioning of terminals
- > Well balanced, approx. 1.5 lbs.
- > Compact build, 8" long
- > Made in Germany - made by Rennsteig



Double-plated ratchet gear extends tool life



Easy grip even when fully open



Parallel crimping

**Locator**  
(for the correct positioning of the specific contact)

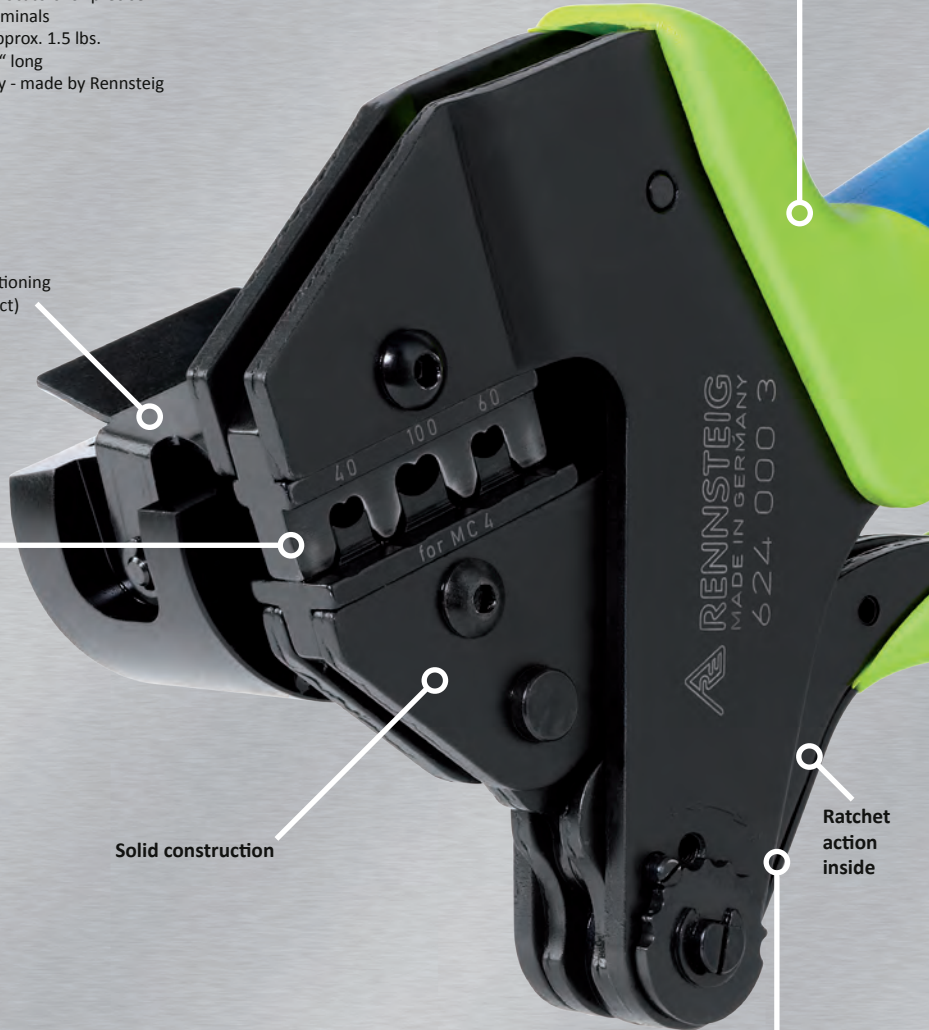
**Interchangeable Crimp Dies**

**Solid construction**

**Two component ergonomic handles**

**Ratchet action inside**

**Emergency Release**  
(if jam occurs)



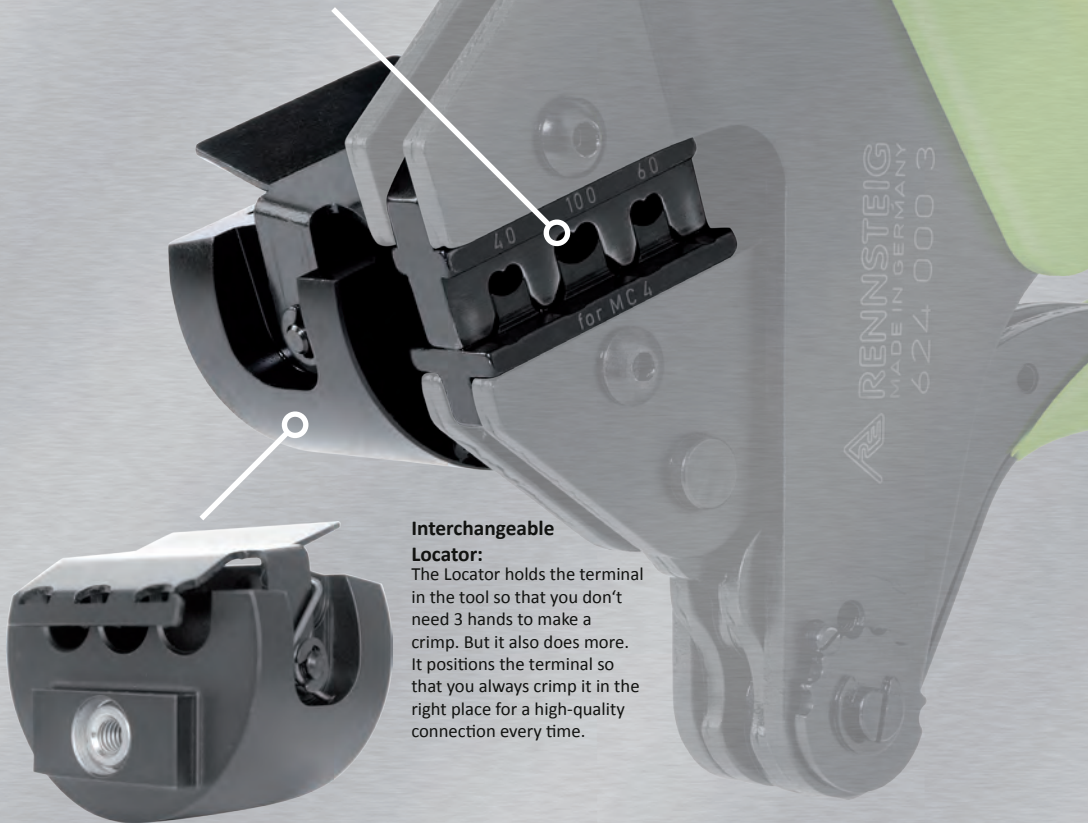
Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal*
Multi-Contact <b>MC3</b>	14/12/10	624 194 3	Tool w/ Die Set	
		624 194 3 1	Tool w/ Die Set + Locator	
	12/10/8	624 348 3	Tool w/ Die Set	
		624 348 3 1	Tool w/ Die Set + Locator	
Multi-Contact <b>MC4</b>	14/12/10	624 570 3	Tool w/ Die Set	
		624 570 3 1	Tool w/ Die Set + Locator	
	12/10/8	624 1193 3	Tool w/ Die Set	
		624 1193 3 1	Tool w/ Die Set + Locator	
	12/10 (stamped&formed) and 8 (machined/solid)	624 1301 3	Tool w/ Die Set	
		624 1301 3 1	Tool w/ Die Set + Locator	
Amphenol <b>H4</b> (machined contacts)	14/12/10/8	624 1194 3	Tool w/ Die Set	
		624 1194 3 1	Tool w/ Die Set + Locator	
Amphenol <b>H4</b> (stamped&formed)	14/12/10	624 1175 3	Tool w/ Die Set	
		624 1175 3 1	Tool w/ Die Set + Locator	
Wieland (gesis® solar)	12/10/8	624 073-1 3	Tool w/ Die Set	
		624 073-1 3 16	Tool w/ Die Set + Locator	
Huber+Suhner (Radlox®-Twist Lock)	12/10	624 205 3	Tool w/ Die Set	
Tyco (Solarlok®)	16/14/12/10	624 817 3	Tool w/ Die Set	
		624 817 3 1	Tool w/ Die Set + Locator	
Tyco (Solarlok® PV4)	12/10	624 969 3	Tool w/ Die Set	
		624 969 3 1	Tool w/ Die Set + Locator	
Hosiden (HSC2009,HSC210,HSC2013,HSC2014)	14/12/10	625 51190 3 1	Tool w/ Die Set + Locator	
SMK	14/12/10	624 1188 3	Tool w/ Die Set	
		624 1188 3 1	Tool w/ Die Set + Locator	
Yukita (YS-25)	16/14/12/10	624 369 3	Tool w/ Die Set	
		624 369 3 1	Tool w/ Die Set + Locator	
Yukita (540820-2MA, 540821-2MA, 540920-2MA, 540921-2MA)	2/2.5/3.5/4/6 mm2 (similar to 14/13/12/10 AWG)	624 1173 3	Tool w/ Die Set	
		624 1173 3 1	Tool w/ Die Set + Locator	
TongLing <b>TL4</b>	12/10	624 1186 3	Tool w/ Die Set	
		624 1186 3 1	Tool w/ Die Set + Locator	
Lumberg ( <b>LC3</b> )	14/12/10	624 231 3 1	Tool w/ Die Set + Locator	
Lumberg ( <b>LC4</b> )	14/12/10	624 232 3 1	Tool w/ Die Set + Locator	
BizLink/SunBolt	6/8	624 1170 3	Tool w/ Die Set	
		624 1170 3 1	Tool w/ Die Set + Locator	
	10	624 1171 3	Tool w/ Die Set	
		624 1171 3 1	Tool w/ Die Set + Locator	
	12	624 1300 3	Tool w/ Die Set	
		624 1300 3 1	Tool w/ Die Set + Locator	
Kostal KSK4	14/12/10	624 1331 3	Tool w/ Die Set	
		624 1331 3 1	Tool w/ Die Set + Locator	
LAPP EPIC® Solar 4	14/12/10	624 570-L 3	Tool w/ Die Set	
		624 570-L 3 1	Tool w/ Die Set + Locator	

\* Terminal images are for illustrative purposes only and may differ from the actual product.

# Single components: All of our Crimping Die Sets & Locators will fit into our Crimp System Tools



**Interchangeable Crimping Die Sets:**  
Each type and size of terminal needs its own crimp. Just squeezing isn't enough - you have to get exactly the right dimension crimp, if you want a good connection that provides good conductivity year after year under all conditions.



**Interchangeable Locator:**  
The Locator holds the terminal in the tool so that you don't need 3 hands to make a crimp. But it also does more. It positions the terminal so that you always crimp it in the right place for a high-quality connection every time.

Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal*
Multi-Contact <b>MC3</b>	14/12/10	624 194 3 0	Die Set only	
		624 194 0 01	Locator only	
	12/10/8	624 348 3 0	Die Set only	
		624 348 0 01	Locator only	
Multi-Contact <b>MC4</b>	14/12/10	624 570 3 0	Die Set only	
		624 570 0 01	Locator only	
	12/10/8	624 1193 3 0	Die Set only	
		624 1193 0 01	Locator only	
	12/10 (stamped&formed) and 8 (machined/solid)	624 1301 3 0	Die Set only	
		624 1301 0 01	Locator only	
Amphenol <b>H4</b> (machined contacts)	14/12/10/8	624 1194 3 0	Die Set only	
		624 1194 0 01	Locator only	
Amphenol <b>H4</b> (stamped&formed)	14/12/10	624 1175 3 0	Die Set only	
		624 1175 0 01	Locator only	
Wieland (gesis® solar)	12/10/8	624 073-1 3 0	Die Set only	
		624 071 0 016	Locator only	
Huber+Suhner (Radlox®-Twist Lock)	12/10	624 205 3 0	Die Set only	
Tyco (Solarlok®)	16/14/12/10	624 817 3 0	Die Set only	
		624 817 0 01	Locator only	
Tyco (Solarlok® PV4)	12/10	624 969 3 0	Die Set only	
		624 969 0 01	Locator only	
SMK	14/12/10	624 1188 3 0	Die Set only	
		624 1188 0 01	Locator only	
Yukita (YS-25)	16/14/12/10	624 369 3 0	Die Set only	
		624 369 0 01	Locator only	
Yukita (540820-2MA, 540821-2MA, 540920-2MA, 540921-2MA)	2/2.5/3.5/4/6 mm2 (similar to 14/13/12/10 AWG)	624 1173 3 0	Die Set only	
		624 1173 0 01	Locator only	
TongLing <b>TL4</b>	12/10	624 1186 3 0	Die Set only	
		624 1186 0 01	Locator only	
Lumberg ( <b>LC3</b> )	14/12/10	624 231 3 0	Die Set only	
Lumberg ( <b>LC4</b> )	14/12/10	624 232 3 0	Die Set only	
BizLink/SunBolt	6/8	624 1170 3 0	Die Set only	
		624 1170 0 01	Locator only	
	10	624 1171 3 0	Die Set only	
		624 1171 0 01	Locator only	
	12	624 1300 3 0	Die Set only	
		624 1300 0 01	Locator only	
Kostal KSK4	14/12/10	624 1331 3 0	Die Set only	
		624 1331 0 01	Locator only	
LAPP EPIC® Solar 4	14/12/10	624 570-L 3 0	Die Set only	
		624 570-L 0 01	Locator only	

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# CSC Multifunction Tool

No more carrying around 3 different tools, when all you really want to do is make a connection. "CSC" stands for Cut - Strip - Crimp, and that's what this tool does. Unique in the industry!

- > For cutting, stripping and crimping of solar contacts with just one tool
- > Includes Die Set
- > Applicable for other wire sizes and connector types
- > Burnished finish, solid construction, easy to handle
- > Made in Germany - made by Rennsteig



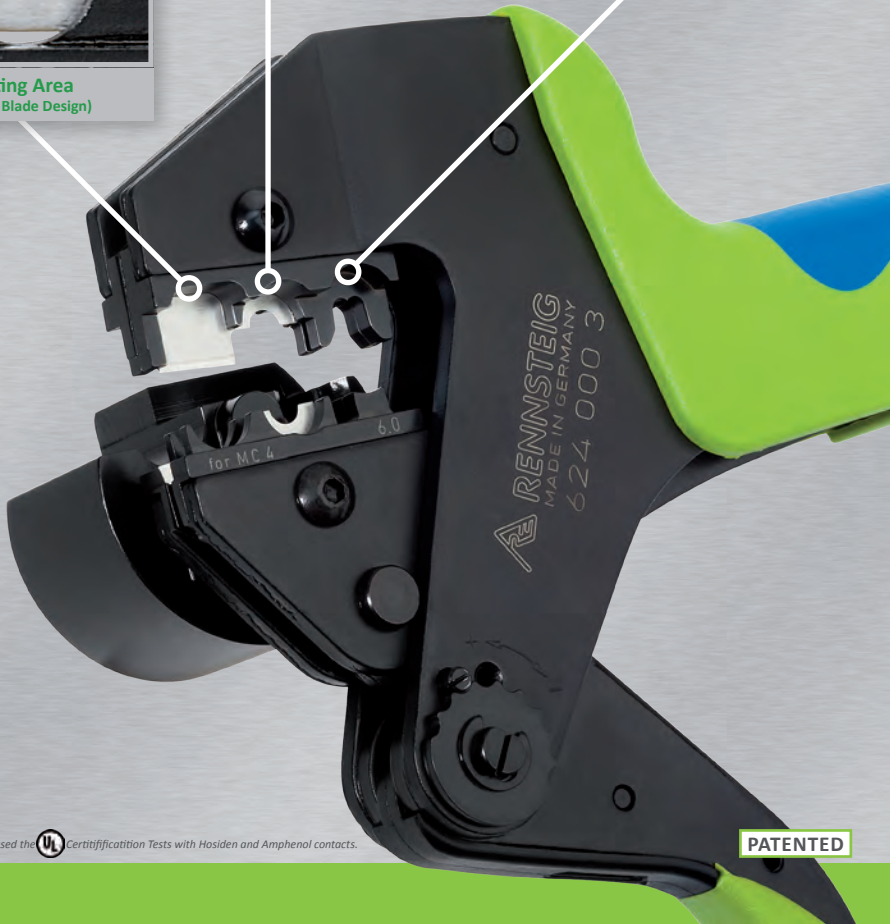
**Stripping Area**  
(Round Blades, no wire damage)




**Crimping Area**  
(Specially designed)

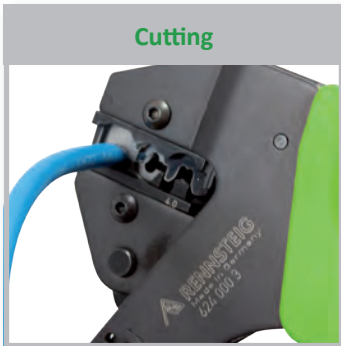


**Cutting Area**  
(Special Blade Design)





Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal*
Multi-Contact <b>MC4</b>	12 (similar to 4 mm <sup>2</sup> )	624 004 3	Tool with Die Set	
		624 004 3 1	Tool with Die Set+Locator	
		624 004 3 0	Die Set only	
		624 004 0 01	Locator only	
	10 (similar to 6 mm <sup>2</sup> )	624 006 3	Tool with Die Set	
		624 006 3 1	Tool with Die Set+Locator	
		624 006 3 0	Die Set only	
		624 006 0 01	Locator only	
Amphenol <b>H4</b> (machined contacts)	12 (similar to 4 mm <sup>2</sup> )	624 1184 3	Tool with Die Set	
		624 1184 3 1	Tool with Die Set+Locator	
		624 1184 3 0	Die Set only	
		624 1184 0 01	Locator only	
	10 (similar to 6 mm <sup>2</sup> )	624 1185 3	Tool with Die Set	
		624 1185 3 1	Tool with Die Set+Locator	
		624 1185 3 0	Die Set only	
		624 1185 0 01	Locator only	
Wieland (gesis® solar)	12 (similar to 4 mm <sup>2</sup> )	624 1197 3	Tool with Die Set	
		624 1197 3 1	Tool with Die Set+Locator	
		624 1197 3 0	Die Set only	
		624 1197 0 01	Locator only	
	10 (similar to 6 mm <sup>2</sup> )	624 1196 3	Tool with Die Set	
		624 1196 3 1	Tool with Die Set+Locator	
		624 1196 3 0	Die Set only	
		624 1196 0 01	Locator only	
LAPP <b>EPIC®</b> Solar 4	12 (similar to 4 mm <sup>2</sup> )	624 004-L 3	Tool with Die Set	
		624 004-L 3 1	Tool with Die Set+Locator	
		624 004-L 3 0	Die Set only	
		624 004-L 0 01	Locator only	
	10 (similar to 6 mm <sup>2</sup> )	624 006-L 3	Tool with Die Set	
		624 006-L 3 1	Tool with Die Set+Locator	
		624 006-L 3 0	Die Set only	
		624 006-L 0 01	Locator only	



At Rennteig, we stay on top of the market. When new connectors come out and gain ground, you can be sure we'll make die sets for them. What does this mean? It means you don't have to invest in a whole new crimp tool. You can just get an additional die set to fit your existing crimp tool, and you're ready to install the latest gear.

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# eForce® Battery Powered Crimping Tool

Part#

6370 0300 1 RT

6370 0300 1-2 RT

Content:

- > 1x eForce® Battery Powered Crimping Tool
- > 1x Battery Charger (CLI 12)
- > **One** Li-Ion Batteries (Milwaukee M12) included
- > Space for Die Sets\* and Locators provided

- > 1x eForce® Battery Powered Crimping Tool
- > 1x Battery Charger (CLI 12)
- > **Two** Li-Ion Batteries (Milwaukee M12) included
- > Space for Die Sets\* and Locators provided

- 1 Takes all existing interchangeable crimp Die Sets and Locators (more than 1000) from Rensteig's Crimp System Tool (P/N 624 000 3)
- 2 Ergonomically designed handle with soft grip, provides comfort and increases control
- 3 Removable battery (12v Li-Ion) eliminates downtime due to recharging
- 4 Drop protection ring
- 5 Reset button, Emergency release
- 6 Convenient to use and has a level, steady base for bench top production
- 7 Compact work area



Tool comes in portable plastic case with storage space.



Ergonomic working height when used for bench top production.



Powerful electromechanical drive mechanism. No accident-sensitive hydraulic components.



Start Button with integrated multifunction LED-Display for indication of:

- Function standby
- Remaining battery capacity
- Overloading

Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal*	
Multi-Contact <b>MC3</b>	14/12/10	624 194 3 0	Die Set only		
		624 194 0 01	Locator only		
	12/10/8	624 348 3 0	Die Set only		
		624 348 0 01	Locator only		
Multi-Contact <b>MC4</b>	14/12/10	624 570 3 0	Die Set only		
		624 570 0 01	Locator only		
	12/10/8	624 1193 3 0	Die Set only		
		624 1193 0 01	Locator only		
	12/10 (stamped&formed) and 8 (machined/solid)	624 1301 3 0	Die Set only		
		624 1301 0 01	Locator only		
Amphenol <b>H4</b> (machined contacts)	14/12/10/8	624 1194 3 0	Die Set only		
		624 1194 0 01	Locator only		
Amphenol <b>H4</b> (stamped&formed)	14/12/10	624 1175 3 0	Die Set only		
		624 1175 0 01	Locator only		
Wieland (gesis® solar)	12/10/8	624 073-1 3 0	Die Set only		
		624 071 0 016	Locator only		
Huber+Suhner (Radlox®-Twist Lock)	12/10	624 205 3 0	Die Set only		
Tyco (Solarlok®)	16/14/12/10	624 817 3 0	Die Set only		
		624 817 0 01	Locator only		
Tyco (Solarlok® PV4)	12/10	624 969 3 0	Die Set only		
		624 969 0 01	Locator only		
SMK	14/12/10	624 1188 3 0	Die Set only		
		624 1188 0 01	Locator only		
Yukita (YS-25)	16/14/12/10	624 369 3 0	Die Set only		
		624 369 0 01	Locator only		
Yukita (540820-2MA, 540821-2MA, 540920-2MA, 540921-2MA)	2/2.5/3.5/4/6 mm2 (similar to 14/13/12/10 AWG)	624 1173 3 0	Die Set only		
		624 1173 0 01	Locator only		
TongLing <b>TL4</b>	12/10	624 1186 3 0	Die Set only		
		624 1186 0 01	Locator only		
Lumberg ( <b>LC3</b> )	14/12/10	624 231 3 0	Die Set only		
Lumberg ( <b>LC4</b> )	14/12/10	624 232 3 0	Die Set only		
BizLink/SunBolt	6/8	624 1170 3 0	Die Set only		
		624 1170 0 01	Locator only		
	10	624 1171 3 0	Die Set only		
		624 1171 0 01	Locator only		
	12	624 1300 3 0	Die Set only		
		624 1300 0 01	Locator only		
Kostal KSK4	14/12/10	624 1331 3 0	Die Set only		
		624 1331 0 01	Locator only		
LAPP EPIC® Solar 4	14/12/10	624 570-L 3 0	Die Set only		
		624 570-L 0 01	Locator only		






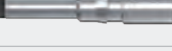

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# Solar Crimp Sets (preassembled)


This professional set has everything you need to make solar wire connections. All components are high-quality Rennsteig tools designed Made in Germany and specially for the solar industry.





Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal*
Amphenol <b>H4</b> (machined contacts) Multi-Contact <b>MC4</b> (Solarline 2) <b>Tyco</b> (Solarlok*)	H4 - 14/12/10/8 MC4 - 14/12/10 Tyco - 16/14/12/10	624 105-40	Crimp Tool H4-Die Set, H4-Locator MC4-Die Set, MC4-Locator Tyco-Die Set, Tyco-Locator Spare Parts	  
Multi-Contact <b>MC4</b> (Solarline 2) Amphenol <b>H4</b> (machined contacts) <b>Wieland</b> (gesis® solar)	MC4 - 14/12/10 H4 - 14/12/10/8 Wieland - 12/10/8	624 105-18	Crimp Tool MC4-Die Set, MC4-Locator H4-Die Set, H4-Locator Wieland-Die Set, Wieland-Locator, Spare Parts	  
Multi-Contact <b>MC4</b> (Solarline 2) <b>Tyco</b> (Solarlok*) <b>Wieland</b> (gesis® solar)	MC4 - 14/12/10 Tyco - 16/14/12/10 Wieland - 12/10/8	624 105-21	Crimp Tool MC4-Die Set, MC4-Locator Tyco-Die Set, Tyco-Locator Wieland-Die Set, Wieland-Locator, Spare Parts	  
Multi-Contact <b>MC4</b> Amphenol <b>H4</b> (machined contacts)	MC4 - 12/10 (stamped&formed) MC4 - 8 (solid/machined) H4 - 14/12/10/8	624 105-51	Crimp Tool MC4-Die Set, MC4-Locator H4-Die Set, H4-Locator, Spare Parts	  

You already own our tools? Complete it with a case.

	Part#	Description
	624 105-25	Space for: - 1x Crimp System Tool - 5x Die Sets - 5x Locators - additional storage space  (includes spare parts)

# Custom Solar Crimp Set “ONE FOR ALL”

Our “Custom Solar Crimp Set”, gives YOU the option to create your own set. With a top-quality Rennsteig Solar System Crimp Tool, Crimp Dies and Locators of your choice - up to 5 different combinations are possible. YOU decide which ones you need. We offer tools for all common manufacturers like Multi-Contact, Tyco, Amphenol, Wieland and many others.

***YOU decide which ones you need!***

## Step by Step














1. Choose your application, you can add a maximum of 5 different Die Sets in the case
2. You can also add a maximum of 5 different Locators in the case
3. If you have added a MC4 Die Set or Locator, you can also add a maximum of 2 Assembly Keys for MC4 couplers.
4. Place an order by using Part# R624 105-12 and the Part#'s shown in the tables after having finished step 1-3.






















### Basic Item

Empty Tool Frame in portable plastic case

Part# 624 105-12

Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal'
Multi-Contact <b>MC3</b>	14/12/10	624 194 3 0	Die Set only	
	12/10/8	624 348 3 0	Die Set only	
Multi-Contact <b>MC4</b>	14/12/10	624 570 3 0	Die Set only	 
	12/10/8	624 1193 3 0	Die Set only	
	12/10/8	624 1301 3 0	Die Set only	
Amphenol <b>H4</b> (machined contacts)	14/12/10/8	624 1194 3 0	Die Set only	
Amphenol <b>H4</b> (stamped&formed)	14/12/10	624 1175 3 0	Die Set only	
<b>Wieland</b> (gesis® solar)	12/10/8	624 073-1 3 0	Die Set only	
<b>Huber+Suhner</b> (Radox®-Twist Lock)	12/10	624 205 3 0	Die Set only	
<b>Tyco</b> (Solarlok®)	16/14/12/10	624 817 3 0	Die Set only	
<b>Tyco</b> (Solarlok® PV4)	12/10	624 969 3 0	Die Set only	
<b>SMK</b>	14/12/10	624 1188 3 0	Die Set only	
<b>Yukita</b> (YS-25)	16/14/12/10	624 369 3 0	Die Set only	
<b>Yukita</b> (540820-2MA, 540821-2MA, 540920-2MA, 540921-2MA)	2/2.5/3.5/4/6 mm2 (similar to 14/13/12/10 AWG)	624 1173 3 0	Die Set only	
TongLing <b>TL4</b>	12/10	624 1186 3 0	Die Set only	
Lumberg ( <b>LC3</b> )	14/12/10	624 231 3 0	Die Set only	
Lumberg ( <b>LC4</b> )	14/12/10	624 232 3 0	Die Set only	
<b>BizLink/SunBolt</b>	6/8	624 1170 3 0	Die Set only	
	10	624 1171 3 0	Die Set only	
	12	624 1300 3 0	Die Set only	
<b>Kostal</b> KSK4	14/12/10	624 1331 3 0	Die Set only	
LAPP <b>EPIC®</b> Solar 4	14/12/10	624 570-L 3 0	Die Set only	

Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal'
Multi-Contact <b>MC3</b>	14/12/10	624 194 0 01	Locator only	
	12/10/8	624 348 0 01	Locator only	
Multi-Contact <b>MC4</b>	14/12/10	624 570 0 01	Locator only	 
	12/10/8	624 1193 0 01	Locator only	
	12/10/8	624 1301 0 01	Locator only	
Amphenol <b>H4</b> (machined contacts)	14/12/10/8	624 1194 0 01	Locator only	
Amphenol <b>H4</b> (stamped&formed)	14/12/10	624 1175 0 01	Locator only	
<b>Wieland</b> (gesis® solar)	12/10/8	624 071 0 016	Locator only	
<b>Tyco</b> (Solarlok®)	16/14/12/10	624 817 0 01	Locator only	
<b>Tyco</b> (Solarlok® PV4)	12/10	624 969 0 01	Locator only	
<b>SMK</b>	14/12/10	624 1188 0 01	Locator only	
<b>Yukita</b> (YS-25)	16/14/12/10	624 369 0 01	Locator only	
<b>Yukita</b> (540820-2MA, 540821-2MA, 540920-2MA, 540921-2MA)	2/2.5/3.5/4/6 mm2 (similar to 14/13/12/10 AWG)	624 1173 0 01	Locator only	
TongLing <b>TL4</b>	12/10	624 1186 0 01	Locator only	
Lumberg ( <b>LC3</b> )	14/12/10	624 231 0 01	Locator only	
Lumberg ( <b>LC4</b> )	14/12/10	624 232 0 01	Locator only	
<b>BizLink/SunBolt</b>	6/8	624 1170 0 01	Locator only	
	10	624 1171 0 01	Locator only	
	12	624 1300 0 01	Locator only	
<b>Kostal</b> KSK4	14/12/10	624 1331 0 01	Locator only	
LAPP <b>EPIC®</b> Solar 4	14/12/10	624 570-L 0 01	Locator only	



# Professional Solar Wiring/Crimping Kits (preassembled)

Save money...by fabricating your own PV wires. This professional kit has everything you need for making solar wire connections, from cutting - stripping - crimping. All components are top-quality Rennsteig tools designed and made in Germany specially for the solar industry.

Every Kit includes:

- > Crimping Die Sets
- > Locators (for correct positioning of the terminal)
- > Insulation stripper
- > Cable cutter
- > Different spare parts
- > Made in Germany - made by Rennsteig



Free space for  
MC4 Assembly  
Keys

Additional  
Crimp Die Sets  
(interchangeable)

Protective case  
3 ¼" Height,  
13 ½" Length,  
10 ½" Width










Crimp System  
Tool

Additional  
Crimp Die Sets  
(interchangeable)




Insulation Stripper

Cable Cutter



Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal*
Amphenol <b>H4</b> (machined contacts) Multi-Contact <b>MC4</b> (Solarline 2) <b>Tyco</b> (Solarlok*)	H4 - 14/12/10/8 MC4 - 14/12/10 Tyco - 16/14/12/10	624 105-32	Crimp Tool H4-Die Set, H4-Locator MC4-Die Set, MC4-Locator Tyco-Die Set, Tyco-Locator, Insulation Stripper, Cable Cutter RG, Spare Parts	  
Multi-Contact <b>MC4</b> (Solarline 2) Amphenol <b>H4</b> (machined contacts) <b>Wieland</b> (gesis® solar)	MC4 - 14/12/10 H4 - 14/12/10/8 Wieland - 12/10/8	624 105-17	Crimp Tool MC4-Die Set, MC4-Locator H4-Die Set, H4-Locator Wieland-Die Set, Wieland-Locator, Insulation Stripper, Cable Cutter RG, Spare Parts	  
Multi-Contact <b>MC4</b> Amphenol <b>H4</b> (machined contacts)	MC4 - 12/10 (stamped&formed) MC4 - 8 (solid/machined) H4 - 14/12/10/8	624 105-52	Crimp Tool MC4-Die Set, MC4-Locator H4-Die Set, H4-Locator, Insulation Stripper, Cable Cutter RG, Spare Parts	  

## Professional Solar Wiring/Crimping Kit <sup>Plus</sup> (preassembled)

Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal*
Multi-Contact <b>MC3</b> (Solarline 1) Multi-Contact <b>MC4</b> (Solarline 2) <b>Tyco</b> (Solarlok*)	MC3 - 14/12/10 MC4 - 14/12/10 Tyco - 16/14/12/10	624 105-23	Crimp Tool MC3-Die Set, MC3-Locator MC4-Die Set, MC4-Locator Tyco-Die Set, Tyco-Locator Assembly Tool for mounting of MC3 Couplers, Insulation Stripper, Cable Cutter RG	  



Save money...by fabricating your own PV wires. This professional kit has everything you need for making solar wire connections, from cutting - stripping - crimping. All components are top-quality Rennsteig tools designed and made in Germany specially for the solar industry.

Every Kit includes:

- > Crimping Die Sets
- > Locators (for correct positioning of the terminal)
- > Insulation stripper
- > Assembly Tool for MC3 coupler
- > Cable cutter
- > Different spare parts
- > Made in Germany - made by Rennsteig

You already own our tools? Complete it with a case.	Part#	Description
Empty Kit case for Rennsteig Crimp System Tool	624 105-26	Space for: 1x Crimp System Tool, 1x Insulation Stripper, 1x Cable Cutter, 2x Die Sets, 2x Locators
Empty Kit <sup>Plus</sup> case for Rennsteig Crimp System Tool	624 105-28	Space for: 1x Crimp System Tool, 1x Insulation Stripper, 1x Cable Cutter, 1x Assembly Tool, 2x Die Sets, 2x Locators, Additional storage space

\* Terminal images are for illustrative purposes only and may differ from the actual product.

# Solar wire insulation stripper

Unlike other strippers, that only cut insulation partially and tear the rest, this Rennsteig stripper cuts the insulation around the entire circumference of the wire, and then pulls it gently off the end. There is never any damage to the leads.

Replaceable stripping blades let you configure the stripper to your needs. When the blades wear out, you can replace them without buying a new stripper - for significant savings.

- > For two-stage stripping action
- > Specialized tool with length stop, for precise stripping and dismantling of single and multi-strand cables
- > No pinching or deformation of cable ends
- > Interchangeable blades for different wire gauges
- > Custom blade design upon request
- > Burnished finish, ergonomically designed two-component handles
- > Solid construction, easy to handle
- > Made in Germany - made by Rennsteig



Precise cutting of the insulation to a complete extent.



Positive stripping thanks to precise shape of the blades.



Automatic stripping of the insulation.

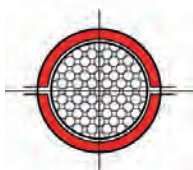


## Adjustable length stop with scale

## 4-piece interchangeable blade set, Precision mechanism of hardened spring steel, tough and long lasting



Application	Maximum Wire Cross Section	Part#	Blade
Tool for metric solar cable	1.5/2.5/4/6 mm <sup>2</sup> (similar to AWG 16/14/12/10)	708 226 3	
Tool for AWG solar cable	AWG 16/14/12/10	708 226-1 6 RT	
Tool for metric solar cable	4/6/10 mm <sup>2</sup> (similar to AWG 12/10/8)	708 269 3	
Tool for metric solar cable	4 mm <sup>2</sup> (similar to AWG 12)	708 269-1 3	
Tool for metric solar cable	6 mm <sup>2</sup> (similar to AWG 10)	708 269-2 3	
Tool for metric solar cable	10 mm <sup>2</sup> (similar to AWG 8)	708 269-3 3	



Two pairs of blades (1) cut the insulation to complete extent. Then the blade pairs move apart, and thus the insulation is removed form-fit (2). The pliers opens automatically after the stripping procedure.

The shaped blades cuts the insulation completely. (The red area will be cut, no damaging of the cable strands)

Already now more than 250 different stripping blades available!  
Custom blade design upon request.

\* Terminal images are for illustrative purposes only and may differ from the actual product.



## Cable Cutter

This specially-designed Rennsteig Cable Cutter gives you clean, straight, burr-free cuts, with no wire end deformation. Wires stay round, so they fit better and more securely into terminals. The ergonomic form factor makes your job easier, too.

- > Perfect for cutting almost all cables (\*Not for steel wire or hard-drawn copper cables)
- > Plastic coated handles
- > Easy, clean, one hand cuts
- > Sharp, hardened, precision-ground blades
- > No crushing or deformation of cables
- > Material: special tool steel, forged
- > Made in Germany - made by Rennsteig



Ergonomic grips

Spring loaded  
(opening spring inside the tool)

Precision ground blades

Safety lock



Tool name	Maximum Wire Cross Section	Part#	Finish	Picture
Cable Cutter	50 mm <sup>2</sup> (similar to AWG 1/0)	700 015 3	Burnished, plastic coated	
Cable Cutter RG	50 mm <sup>2</sup> (similar to AWG 1/0)	700 015 36	Burnished, reinforced plastic grips	
Cable Cutter OS	50 mm <sup>2</sup> (similar to AWG 1/0)	700 016 3	Burnished, spring loaded, plastic coated	
Cable Cutter RGO	50 mm <sup>2</sup> (similar to AWG 1/0)	700 016 36	Burnished, spring loaded, reinforced plastic grips	
Cable Cutter D20	70 mm <sup>2</sup> (similar to AWG 2/0)	700 020 3	Burnished, plastic coated	
Cable Cutter D20RG	70 mm <sup>2</sup> (similar to AWG 2/0)	700 020 36	Burnished, reinforced plastic grips	
Cable Shears D27	150 mm <sup>2</sup> (similar to AWG 5/0)	700 027 2	Burnished, bright ground blades	
Cable Shears D38	280 mm <sup>2</sup> (similar to MCM 550)	700 038 3	Burnished head, bright ground blades	

## Assembly Key for MC4 couplers

This absolutely ergonomic PVC open end spanner is for tightening and loosening of the cable gland. You can use this key also for breaking connections (open the locking) after they have already been locked together.

To tighten the cable gland, we recommend using two assembly keys.

The Key comes in green.



Assembly Key for MC4 couplers

Part# 690 001

## Automatic Center Punch with Hand Guard

The automatic center punch is a selfstriking tool - used for fast and precise markings. It is mainly used in such fields as precision mechanics, steel engineering and by tool makers and for similar applications. The striking force can be adjusted continuously.

- > Machine steel
- > Precision design
- > Activated by downward pressure (you don't need a hammer)
- > Replaceable hardened pin
- > Single handed operation
- > Nickel plated finish
- > Rugged self striking mechanism
- > Impact force adjustable
- > Hand guard prevents insurance
- > Made in Germany - made by Rennsteig



Center Punch Size I - 20 - 50 N Striking Force

Part# 430 229 RT

## Dual-Edged Screw Extractor (Easy-Outs)

PATENTED

This Dual-Edged Screw Extractor represents a new generation of its kind and is used to remove ruined screws or bolts out of threads. This technology can be used on right-hand and left-hand threads.

- > For unscrewing ruined screws and bolts without damaging threads
- > Unique design allows both left and right-handed turning
- > Extractor is driven into the bore hole for a safe and secure hold
- > Integrated center punch pin for precision work
- > Non-slip and dual-edged engagement with the screw or bolt to be removed
- > Material: chrome vanadium steel, for longer tool life
- > Surface: burnished, cutting edges polished
- > Made in Germany - made by Rennsteig



Content	Screw Size Inch		Screw Size	
	Min	Max	Min	Max
Size I	3/16	1/4	M5	M6
Size II	5/16	3/8	M8	M10
Size III	7/16	1/2	M10	M12



Screw Extractor set in plastic case (Size I/II/III)

Part# 471 903 3 RT

# XXL Snap- (Retaining) Ring Tool (Circlip Tool for internal and external circlips)

- > Usable with any snap rings for a diameter of 400 - 1000 mm (15-40 inch)
- > Securely opens, closes and holds rings due to a self-locking precision spindle action
- > For fitting and removing circlips in one operation
- > Holds rings securely due to short, direct-contact sockets
- > High-strength, hardened and tempered tips
- > Opening width up to 10" (with scale on request)
- > Can be operated with Allen wrench (Hexagonal key), ratchet wrench or cordless screwdriver
- > Interchangeable paired tips to cover different diameter ranges (custom designs are also available)
- > Areas of application are wherever very high forces and torques are transmitted with large shafts and bearings



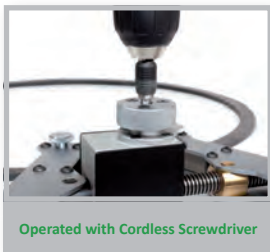
Tool in Case



Replaceable Tips






Operated with Allen wrench



Operated with Cordless Screwdriver



Tool name	Part#	Content	Picture
Set in plastic case	783 000 61	Retaining ring tool, paired tips with diameter of 6 and 9 mm, Allen key (6 mm), Bit for Screwdriver (6 1/4")	
Set of replacement tips 1	783 006 3 0	Set of replacement tips, diameter 6 mm for Retaining Rings up to 690 mm	
Set of replacement tips 2	783 009 3 0	Set of replacement tips, diameter 9 mm for Retaining Rings up to 700 mm (DIN)	



# Assembly Tool for mounting of MC3 couplers

The MC3 Assembly Tool is a high quality device that is used for inserting the crimped solar PV cable into the rubber housing in order to build a fully insulated MC3 connection.

- > Suitable for assembling MC3 connectors from 14/12/10/8 AWG (similar to 2.5/4/6/10 mm<sup>2</sup>)
- > Can be used for both male and female connections
- > Ergonomic and effortless
- > Up to 3 spindles can be stored in grip
- > Made in Germany - made by Rennteig

Suitable for on-site use, on roofs, etc.



Terminal Manufacturer	Wire Gauge	Part#	Description	Terminal*
Multi-Contact MC3	14/12/10/8	725 000	Complete Tool w/ all spindles for mounting of MC3 couplers	

## Private Label

To enhance our customers marketing position, we offer a private labeling service which provides you the following options:

- > Your logo on the tool
- > Ergonomic 2- component handles can be varied in color
- > Customized labeling



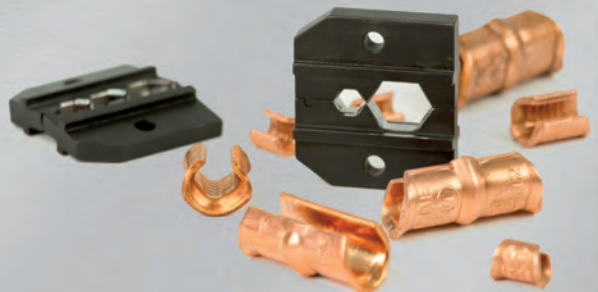
## Custom Design

In addition to our standard product line, we offer custom design tooling. We have the knowledge, skill and capacity to meet any customer specifications, and we specialize in meeting customer requirements.

## COMING SOON

**Rennsteig will offer a Crimp Tool Solution for the crimping of C-TAPS.**

<b>RED</b>	<b>BLUE</b>	<b>GRAY</b>
12-16 54705 TWCTR10T16	8-12 54710 TWCTR8T12 YC8L12	6-12 54715 TWCTR6T12 YC6L12
<b>BROWN</b>	<b>GREEN</b>	
4-12 54720 TWCTR4T12 YC4L12	3-12 54725 TWCTR3T12 YC3L12	



# Rennsteig Tools, Inc. - Precision Tools Made in Germany



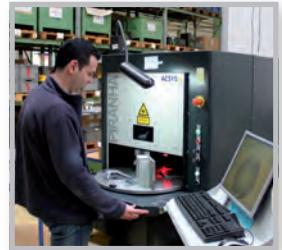
A leading US and German producer of high quality hand tools, Rennsteig Werkzeuge designs and manufactures state of the art crimping, cutting, and stripping tools. The company follows a long tradition of specialty hand tool development and manufacturing which enables it to craft exceptionally dynamic hand tools. In January 2006, Rennsteig Werkzeuge established Rennsteig Tools Inc. with a sales office in Hudson, Ohio to better serve the North American market (including Canada and Mexico). From this location, the company provides precision tools that conform to USCAR 21 and other North American specifications. Rennsteig Tools Inc. supplies distributors, dealers, OEMs, secondary suppliers and individuals across various industries.

In **November 2009**, Rennsteig emphasized its commitment to US market with the opening of a new warehouse in Somerdale NJ. In **August 2010**, Rennsteig moved from Hudson, OH to a new Sales Office in Rutherford, NJ.


In **October 2013**, Rennsteig opened a new technical office in Texas. Rennsteig offers the right tools to help you do a professional job by making electrical connections neat, durable, and fast.



## State-of-the-art production - The core of our company!





A close-up photograph of a hand with the index finger pointing towards the text. The hand is positioned diagonally across the middle of the page, with the finger pointing towards the upper right. The background is a light blue gradient with a subtle pattern of small white dots.

**Rennsteig can help you streamline your solar installs, by giving you the tools you need to do a fast, professional job. These precision cutting, stripping and crimping tools are specifically engineered for the wires and terminals specific to the solar industry. Our top-quality tools are designed for durability and efficiency, and give you consistently excellent results. RENNSTEIG TOOLS MEET THE REQUIREMENTS OF EVERY PROFESSIONAL USER.**



# REDUCE INSTALLATION COSTS...



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# ...BY FABRICATING YOUR OWN PV WIRES

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rti 03/2015

*We are the manufacturer. WE KNOW HOW!*