



LAPP GROUP

EPIC[®] CIRCON Crimp tool
11148000

Instruction manual
for EPIC[®] CIRCON LS1/M23



Important details for the right use of the EPIC[®] CIRCON Crimp tool

Using the instruction sheet:

Keep the instruction sheet constantly with the EPIC[®] CIRCON Crimp tool. Each person entrusted with the job of operating the EPIC[®] CIRCON Crimp tool must be familiar with the operating manual and strictly observe the instructions therein. The U.I. LAPP GmbH declines to accept any liability for damages that are incurred due to the fact that the instructions on the tool or in the operating manual have been disregarded. Observe existing national rules for accident prevention.

Basic safety instructions:

The EPIC[®] CIRCON Crimp tool has been constructed according to state-of-the-art technology and the acknowledged technical safety regulations and is only to be used for the purpose which is mentioned in this instruction sheet.

Note:

Crimp tools are intended for occasional use and comparative little quantity. Different emergencies of overstress can be the consequence of an enduring use of the tool.

Responsibilities:

The EPIC[®] CIRCON Crimp tool may only be operated by trained and authorized personnel. The user must clearly define and observe the responsibilities of the personnel for operating, maintenance and service. Should the user make any changes to the hand tool without consulting the manufacturer or the supplier, the latter will not be liable for any damage that may result.

Setting up and operating the EPIC[®] CIRCON Crimp tool:

The EPIC[®] CIRCON Crimp tool may only be set up and operated in perfect technical condition, observing all the safety regulation and considering any possible danger. The manufacturer and the suppliers will not be liable for any damages which may result due to the hand tool being used for other purposes than that for which it was intended.

This instruction manual describes the use and handling of the EPIC[®] CIRCON Crimp tool 11148000 as well as required maintenance work. The factory settings of the EPIC[®] CIRCON Crimp tool may not be changed. For information which is not included in this instruction manual, for technical support, repairs as well as questions for settings, please contact:

U.I. Lapp GmbH

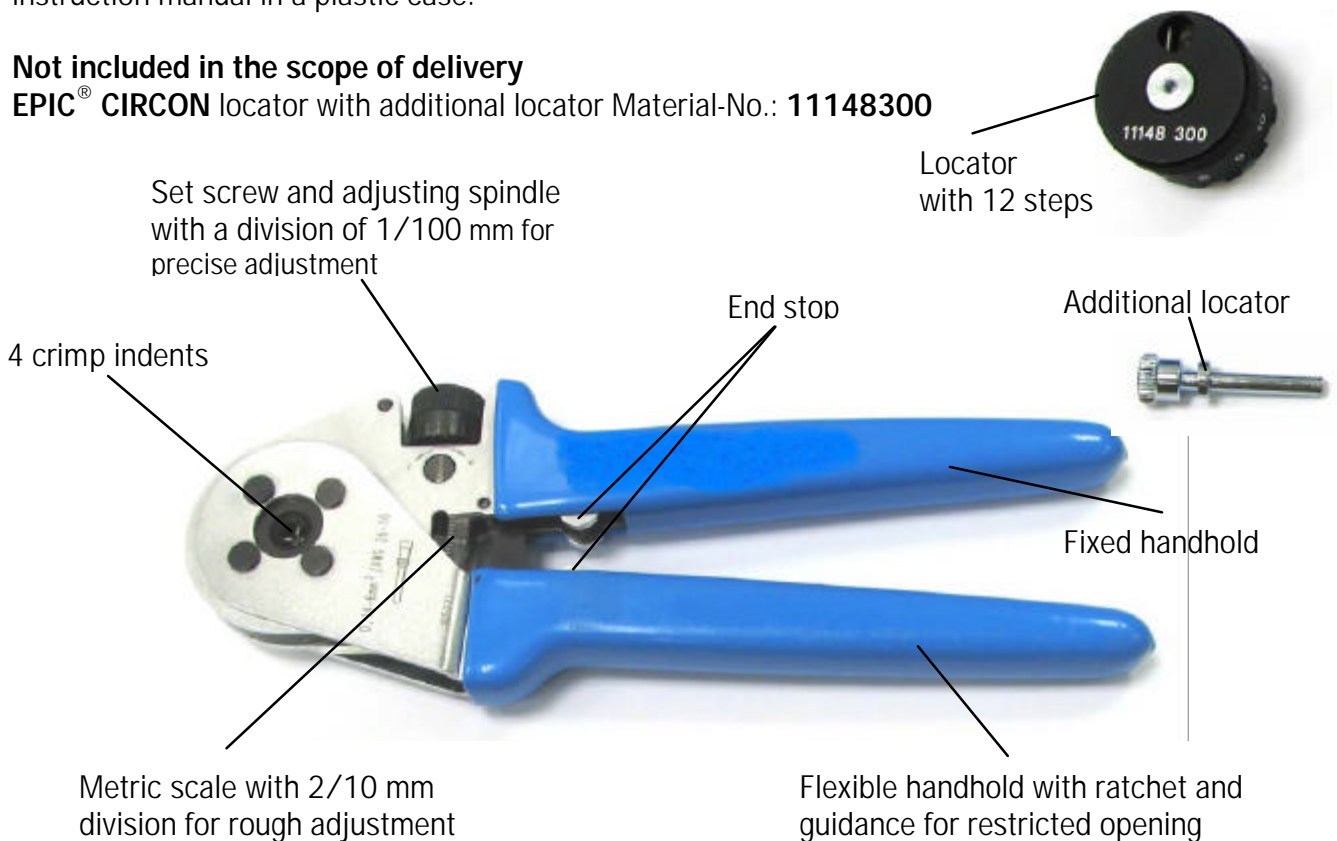
Schulze-Delitzsch Str. 25
D-70565 Stuttgart
Tel.: +49-711/78 38 - 01
Fax: +49-711/78 38 - 26 40
www.lappgroup.com

Scope of delivery

The **EPIC® CIRCON** Crimp tool is delivered with a plug gauge Ø2, a hex wrench (2.5) and the instruction manual in a plastic case.

Not included in the scope of delivery

EPIC® CIRCON locator with additional locator Material-No.: **11148300**



Description

The **EPIC® CIRCON** Crimp tool consists of: one flexible handhold with a ratchet and guidance for restricted opening, as well as a fixed handhold with a metric scale (division of 2/10 mm), adjusting equipment with a hand wheel (division of 1/100 mm) and the 4 crimp mandrels.

The **EPIC® CIRCON** locator consists of:

a freely rotating locator with a snap-in-function for positioning (division into 12 steps) the contacts and an additional locator for crimping the female pins of 2 mm.

Maintenance and inspection

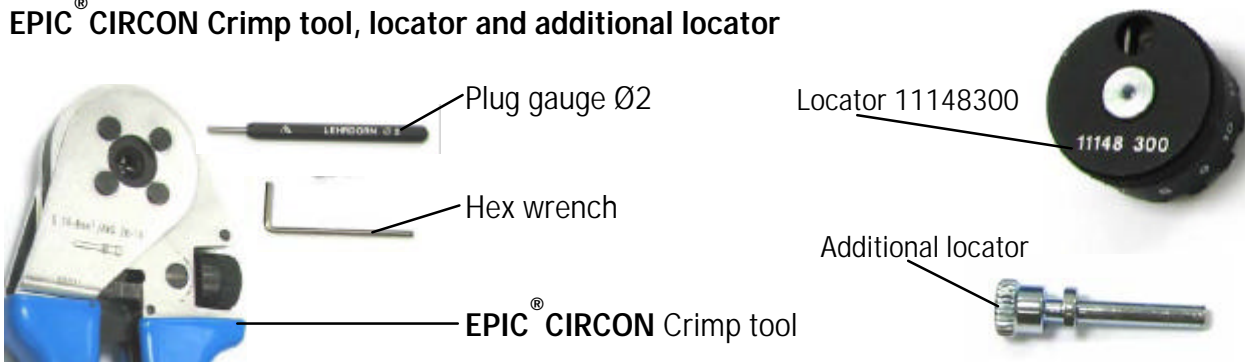
After usage of the **EPIC SOLAR** Crimp tool the following steps have to be carried out: Remove dust, moisture and other contaminants from the **EPIC SOLAR** Crimp tool with a clean and soft brush, or a clean and soft lint-free cloth. Do not use hard or abrasive objects that could damage the tool.

All pins, pivot points, and bearing surfaces should be protected with a thin coat of any good sewing machine oil. Do not oil excessively. Take care that every bolts are secured with locking rings.

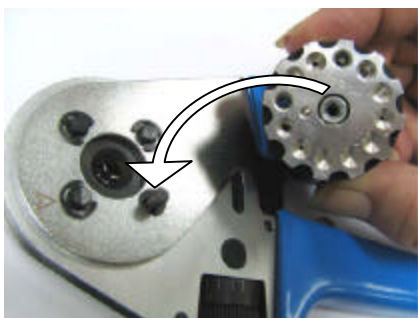


For protection against an electric shock, all connections have to be disconnected from power supply when assembling the connector by yourself.

EPIC® CIRCON Crimp tool, locator and additional locator



Installation of the locator



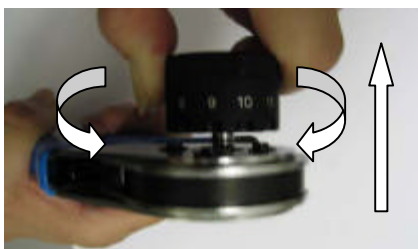
Put the locator on and spin until it snaps in.

Tighten it up a little by using the enclosed hex-wrench.



Setting up and crimping:

Take the locator position and the crimp mass out of table 7 according to the contact which is going to be crimped.



Setting up the locator:

Pull the locator to the top, spin it to the required position and let it snap in.



Setting up the crimp mass:

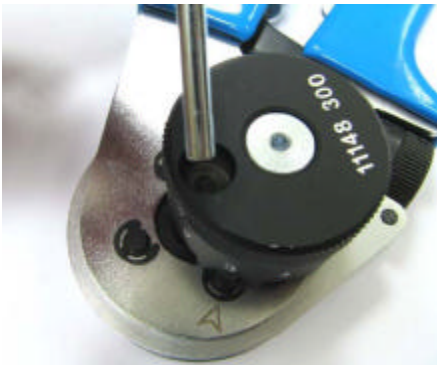
the crimp mass has to be set up by spinning the set screw when the EPIC® CIRCON Crimp tool is fully opened.

Process of crimping:

Bring the contact in the EPIC® CIRCON Crimp tool. By closing the tool to the first notch level the inserted contact will get adjusted and is safe from dropping out.

Bring the cable in the contact and close the EPIC® CIRCON Crimp tool. Press the handholds of the EPIC® CIRCON Crimp tool together until the end stop is reached otherwise the tool will not open up. When the end stop is reached the tool will open automatically and the process of crimping is done correctly.

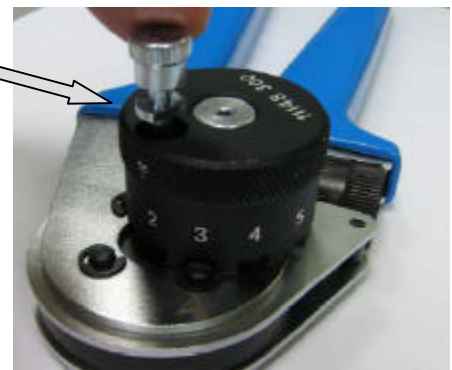
Installation of the additional locator (use only in locator position 3)



Place in the additional locator, straighten it and fix it by spinning.

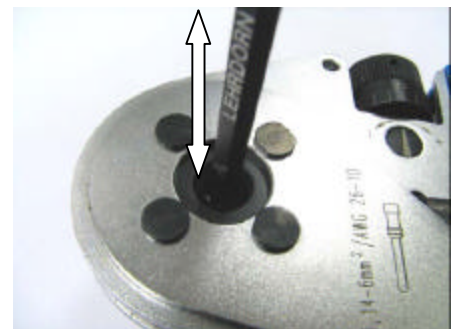
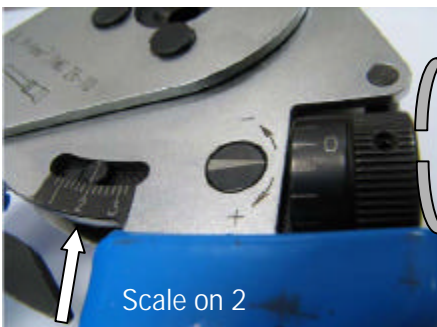


Orientation of the additional locator



Control of the crimp mass:

The **EPIC® CIRCON** Crimp tool is preset, though a control of the crimp mass should be carried out from time to time. This is to be done with the enclosed plug gauge as follows:



The **EPIC® CIRCON** Crimp tool is fully opened. Spin the hand wheel until the scale shows **2** and the hand wheel shows **0**. Then close the **EPIC® CIRCON** Crimp tool down to the end stop. In this set up the plug gauge Ø2 must be moveable with no scope between the crimp mandrels.

If this is not the case, the dimension deviation (+/-) can be detected with the precise adjusting of the hand wheel. Is the **EPIC® CIRCON** Crimp tool out of the required tolerance, you should contact the manufacturer / supplier.

| Contact | included in EPIC® CIRCON connector | |
|----------------------|------------------------------------|------------------------------------|
| | Mat.-No.: | Name |
| 74033000 1mm male | 19520027 | EPIC KIT LS1 A1+D6 K 3+PE+4 (5) |
| | 44420058 | EPIC LS1 A3 5+PE K (5) |
| | 76004000 | EPIC LS1 A1 3+PE+4 K (5) |
| | 76154000 | EPIC LS1 G5 3+PE+4 K (5) |
| | 76154100 | EPIC LS1 G4 3+PE+4 K (5) |
| 74033100 2mm male | 19520026 | EPIC KIT LS1 A1+D6 5+PE (5) |
| | 19520027 | EPIC KIT LS1 A1+D6 K 3+PE+4 (5) |
| | 44420056 | EPIC LS1 A3 3+PE+4 K (5) |
| | 44420058 | EPIC LS1 A3 5+PE K (5) |
| | 76003000 | EPIC LS1 A1 5+PE K (5) |
| | 76004000 | EPIC LS1 A1 3+PE+4 K (5) |
| | 76153000 | EPIC LS1 G5 5+PE K (5) |
| | 76153100 | EPIC LS1 G4 5+PE K (5) |
| | 76154000 | EPIC LS1 G5 3+PE+4 K (5) |
| 76154100 | EPIC LS1 G4 3+PE+4 K (5) | |
| 74034000 1mm male | 44420093 | EPIC LS1 F6 3+PE+4 K 14-17 (5) |
| | 73000008 | EPIC LS1 F6 3+PE+4 K 8,5-11 (5) |
| | 73000009 | EPIC LS1 F6 3+PE+4 K 10,5-15,5 (5) |
| | 73000016 | EPIC LS1 F7 3+PE+4 K 8,5-11 (5) |
| | 73000017 | EPIC LS1 F7 3+PE+4 K 10,5-15,5 (5) |
| | 76134000 | EPIC LS1 F6 3+PE+4 K 7,5-15,5 (5) |
| | 76144000 | EPIC LS1 F7 3+PE+4 K 7,5-15,5 (5) |
| 44420103 2mm male | 44420093 | EPIC LS1 F6 3+PE+4 K 14-17 (5) |
| | 44420095 | EPIC LS1 F6 5+PE K 14-17 (5) |

Please take the length which is to be stripped from the instruction manual of the **EPIC® CIRCON** connectors.

| Contact | included in EPIC® CIRCON connector | |
|-------------------------|------------------------------------|-------------------------------------|
| | Mat.-No.: | Name |
| 74034600 2mm female | 19520026 | EPIC KIT LS1 A1+D6 5+PE (5) |
| | 19520027 | EPIC KIT LS1 A1+D6 K 3+PE+4 (5) |
| | 19520028 | EPIC KIT LS1 F6+D6 5+PE (5) |
| | 19520029 | EPIC KIT LS1 F6+D6 3+PE+4 (5) |
| | 73000000 | EPIC LS1 D6 3+PE+4 K 8,5-11 (5) |
| | 73000001 | EPIC LS1 D6 3+PE+4 K 10,5-15,5 (5) |
| | 73000004 | EPIC LS1 D6 5+PE K 8,5-11 (5) |
| | 73000005 | EPIC LS1 D6 5+PE K 10,5-15,5 (5) |
| | 73000024 | EPIC LS1 D6 3+PE+4 K 8,5-11 S (5) |
| | 73000026 | EPIC LS1 D6 3+PE+4 K 8,5-11 S (20) |
| | 73000028 | EPIC LS1 D6 5+PE K 8,5-11 S (5) |
| | 73000029 | EPIC LS1 D6 5+PE K 10,5-15,5 S (5) |
| | 76083000 | EPIC LS1 A6 5+PE K (5) |
| | 76084000 | EPIC LS1 A6 3+PE+4 K (5) |
| | 76123000 | EPIC LS1 D6 5+PE K 7,5-15,5 (5) |
| | 76123100 | EPIC LS1 D6 5+PE K 7,5-15,5 S (5) |
| | 76124000 | EPIC LS1 D6 3+PE+4 K 7,5-15,5 (5) |
| | 76124100 | EPIC LS1 D6 3+PE+4 K 7,5-15,5 S (5) |
| | 74200600 1 mm female | 19520027 |
| 19520029 | | EPIC KIT LS1 F6+D6 3+PE+4 (5) |
| 44420089 | | EPIC LS1 D6 3+PE+4 K 14-17 (5) |
| 73000000 | | EPIC LS1 D6 3+PE+4 K 8,5-11 (5) |
| 73000001 | | EPIC LS1 D6 3+PE+4 K 10,5-15,5 (5) |
| 73000024 | | EPIC LS1 D6 3+PE+4 K 8,5-11 S (5) |
| 73000026 | | EPIC LS1 D6 3+PE+4 8,5-11 S (20) |
| 76084000 | | EPIC LS1 A6 3+PE+4 K (5) |
| 76124000 | | EPIC LS1 D6 3+PE+4 K 7,5-15,5 (5) |
| 76124100 | | EPIC LS1 D6 3+PE+4 K 7,5-15,5 S (5) |
| 44420105 2 mm female | 44420089 | EPIC LS1 D6 3+PE+4 K 14-17 (5) |
| | 44420091 | EPIC LS1 D6 5+PE K 14-17 (5) |

| Contact | | Settings | | | |
|---|----------------------|-----------------|-----|------------|---------|
| Type | Mat-No.: | mm ² | AWG | Hand wheel | Locator |
| LS 1 1 mm male | 74033000 74033001 | 0.14 | 26 | 0.80 | 1 |
| | | 0.34 | 24 | 0.90 | |
| | | 0.50 | 22 | 1.15 | |
| | | 0.75 | 20 | 1.15 | |
| | | 1.00 | 18 | 1.20 | |
| LS1 2 mm male | 74033100 74033101 | 0.50 | 22 | 1.25 | 2 |
| | | 0.75 | 20 | 1.25 | |
| | | 1.00 | 18 | 1.30 | |
| | | 1.50 | 16 | 1.50 | |
| | | 2.50 | 14 | 1.60 | |
| | 44420103 | 4.00 | 12 | 1.55 | |
| LS1 2 mm female 0.5 - 2.5 mm ² wire spring | 74034600 74034601 | 0.50 | 22 | 1.15 | 4 |
| | | 0.75 | 20 | 1.20 | |
| | | 1.00 | 18 | 1.30 | |
| | | 1.50 | 16 | 1.50 | |
| | | 2.50 | 14 | 1.65 | |
| | 44420105 | 4.00 | 12 | 1.55 | |
| LS1 1 mm male | 74034000 74034001 | 0.14 | 26 | 0.80 | 5 |
| | | 0.34 | 24 | 0.90 | |
| | | 0.50 | 22 | 1.15 | |
| | | 0.75 | 20 | 1.15 | |
| | | 1.00 | 18 | 1.20 | |
| LS1 2 mm male | 74034100 74034101 | 0.50 | 22 | 1.25 | 6 |
| | | 0.75 | 20 | 1.30 | |
| | | 1.00 | 18 | 1.30 | |
| | | 1.50 | 16 | 1.50 | |
| | | 2.50 | 14 | 1.65 | |
| LS1 / M 23 1 mm female slot | 74200600 74200601 | 0.14 | 26 | 0.80 | 3 * |
| | | 0.34 | 24 | 0.90 | |
| | | 0.50 | 22 | 1.10 | |
| | | 0.75 | 20 | 1.15 | |
| | | 1.00 | 18 | 1.20 | |
| LS1 / M23 1 mm female wire spring | 74034500 74034501 | 0.14 | 26 | 0.80 | 3 * |
| | | 0.34 | 24 | 0.90 | |
| | | 0.50 | 22 | 1.10 | |
| | | 0.75 | 20 | 1.15 | |
| | | 1.00 | 18 | 1.15 | |
| M 23 2 mm female slot | 72401600 72401601 | 1.00 | 18 | 1.45 | 8 |
| | | 1.50 | 16 | 1.50 | |
| | | 2.50 | 14 | 1.65 | |
| M 23 2 mm male | 72401000 72401001 | 1.00 | 18 | 1.45 | 7 |
| | | 1.50 | 16 | 1.50 | |
| | | 2.50 | 14 | 1.65 | |
| M 23 1 mm male | 72400000 72400001 | 0.14 | 26 | 0.80 | 9 |
| | | 0.34 | 24 | 0.90 | |
| | | 0.50 | 22 | 1.15 | |
| | | 0.75 | 20 | 1.15 | |
| | | 1.00 | 18 | 1.20 | |

* Use additional locator (look at page 5)



LAPP GROUP

U.I. Lapp GmbH

D-70565 Stuttgart/Germany

www.lappgroup.com

A company of the Lapp Group