

User manual

**UM EN CF 500** 

**Electric crimper CF 500** 



# User manual Electric crimper CF 500

2012-04-10

Designation: UM EN CF 500

Revision: 03

Order No.: —

This user manual is valid for:

 Designation
 Order No.

 CF 500-230V
 1208348

 CF 500-120V
 1208351

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## Please observe the following notes

#### User group of this manual

The use of products described in this manual is oriented exclusively to qualified electricians or persons instructed by them, who are familiar with applicable standards and other regulations regarding electrical engineering and, in particular, the relevant safety concepts.

#### Explanation of symbols used and signal words



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety measures that follow this symbol to avoid possible injury or death.

There are three different categories of personal injury that are indicated with a signal word.

**DANGER** This indicates a hazardous situation which, if not avoided, will re-

sult in death or serious injury.

WARNING This indicates a hazardous situation which, if not avoided, could

result in death or serious injury.

CAUTION This indicates a hazardous situation which, if not avoided, could

result in minor or moderate injury.



This symbol together with the signal word **NOTE** and the accompanying text alert the reader to a situation which may cause damage or malfunction to the device, hardware/software, or surrounding property.



This symbol and the accompanying text provide the reader with additional information or refer to detailed sources of information.

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## 1 Basic information

For safe handling and trouble-free operation of the CF 500, you must be familiar with and observe the safety notes.

#### 1.1 Intended use



#### WARNING: The CF 500 is intended solely for crimping.

Only crimping dies with suitable cross sections may be used (see "Crimping dies and protective covers" on page A-1).

Under no circumstances should solid metal parts or other similar objects be inserted. This damages the crimping die.

Unauthorized conversions that exceed the scope of modification, and changes to the CF 500 are not permitted for safety reasons.



**NOTE:** Correct usage includes observing all notes and complying with the predefined operating conditions.



WARNING: The CF 500 may only be used

- as intended and
- in a safe, and fault-free condition.



**WARNING:** All persons responsible for startup, operation, and maintenance of the CF 500 must be appropriately qualified and adhere strictly to this user manual.

The CF 500 is used for crimping various types of crimp contacts:

- Ferrules
- TWIN ferrules
- Turned contacts
- Slip-on sleeves and flat plugs
- Insulated cable lugs
- Cable lugs
- Tube lugs

Other crimp contacts on request.

#### **Permitted operators**

Only authorized and instructed operators may work with the CF 500.

The operator is responsible for all other persons within the workspace.

The owner must make the user manual available to the operator and ensure that the operator has read and understood it.



**WARNING:** Only use original crimp dies and replacement parts from Phoenix Contact.

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## 1.2 Workplaces



NOTE: During operation and storage, avoid the following:

- Humid or dusty places and
- Locations exposed to high levels of heat, direct sunlight or low temperatures (operating range: 10°C to 40°C).



NOTE: Do not spill liquids on the CF 500.

Do not expose the CF 500 to strong vibrations or shocks.

## 1.3 For your safety



**WARNING:** The protective cover is fitted for the safety of the operator. Under no circumstances must it be modified, removed or bypassed by means of alterations.



**WARNING:** The CF 500 must only be operated with the protective cover attached.

Disconnect the mains plug prior to all work that requires removal of the protective cover (e.g., crimping die adjustment).

Switch off the electric crimper during breaks and when the device is not being used.

For reasons of safety, the CF 500 automatically switches off when the protective cover is removed.



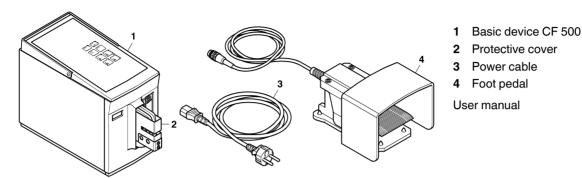
WARNING: Disconnect the mains plug before opening the housing.

1-2 PHOENIX CONTACT 102576\_en\_03

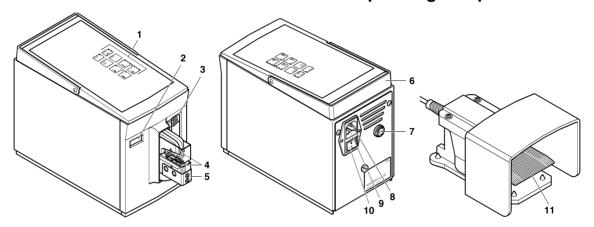
Protective cover

# **Description of the CF 500**

#### 2.1 Supplied as standard



#### 2.2 Overview of the operating components



Control panel Selection of operating functions and display of device states.

Counter The counter records each complete crimping process. The counter reading is saved for ap-

proximately one week when the device is switched off.

Adjusting slide The adjusting slide sets the area in which the crimping die is compressed with full force. If the

die meets with resistance outside this area, the crimping pliers are opened immediately.

(1 = minimum area, 5 = maximum area.)

Crimping die Positions the crimp contact and crimps this with the wire.

Protective cover The protective cover prevents injury in the crimping die danger zone. The CF 500 can only be

operated when the protective cover is fully attached.

6 Carrier handle The carrier handle is used for transporting the CF 500.

Foot pedal connection Device connection for the foot pedal. Mains connection Device connection for the power cable.

Micro fuses integrated into the mains connection (2x). Mains fuses

10 Mains switch The mains switch switches the power supply on (I pressed) or off (0 pressed). The "ready"

LED lights up when switched on.

The foot pedal initiates the crimping process. 11 Foot pedal

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## 2.3 Function of the operating components



"Ready" LED – indicates that the unit is ready for operation.



"Error" LED – indicates that crimping failed or that there is a malfunction.

Press the "enter" button, the LED goes out and you can continue to crimp.



"Reset" button – resets the counter reading to zero.



"Service" LED – indicates that the CF 500 requires servicing. We recommend servicing by Phoenix Contact after 500,000 crimping processes in order to ensure a consistent level of crimping quality.



"Operating mode 1" – switches the CF 500 to operating mode 1 (LED lights up). In operating mode 1, the crimping process takes place in one step.



"Enter" button - clears the "Error" LED.



"Operating mode 2" button – switches the CF 500 to operating mode 2 (LED lights up). In operating mode 2, the crimping process takes place in two steps. In the first step, only the contact is fixed in the die.



**Buttons for limiting the opening** – the opening of the crimping die can be adjusted by pressing the upper (open) or lower (close) button. The LEDs indicate the opening status:

- 4 LEDs light up: Maximum opening
- No LEDs light up: Minimum opening

Changes are only effective once the next crimping procedure has been carried out.

## 2.4 Scope of use of the CF 500

The CF 500 electric crimper is used for crimping crimp contacts.

By using different crimping dies, various types of crimp contacts with a wide range of cross sections can be processed.

The CF 500 can be operated in two different operating modes:

- **Operating mode 1**: The crimp contact is crimped when the foot pedal is pressed.
- Operating mode 2: The foot pedal is pressed twice. The first press secures the inserted contact in the die. The second time the foot pedal is pressed, the crimp contact is crimped.

The press capacity can be adjusted. This prevents damage to the tools and faulty crimping due to incorrectly inserted contacts.

The opening stroke of the crimping die can be changed by simply pressing a button.

For precise crimping, a moveable locator, which positions the contacts directly under the crimping stamp, can be fitted.

#### Available crimping dies

Available crimping dies are listed in the "Crimping dies and protective covers" ordering data on page A-1. A protective cover with a suitable insertion slot is assigned to each crimping die.

**2-2** PHOENIX CONTACT 102576\_en\_03

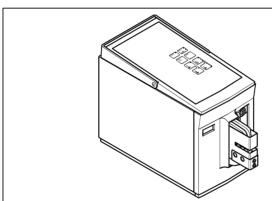
## 3 Starting up the CF 500

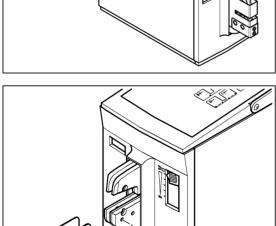
### 3.1 Overview

To start up the electric crimper, you must carry out the following steps:

- Set up the CF 500
- Remove the protective cover
- Fit the crimping die
- Attach the protective cover
- Connect and switch on the CF 500
- Center the crimping die
- Adjust the crimping die
- Prepare the unit for operation
- Set the optimum press capacity start
- Set the optimum opening stroke

## 3.2 How to proceed





### Setting up the CF 500



**NOTE:** The device must be set up on a level and horizontal surface.



# NOTE: During operation and storage, avoid the following:

- Humid or dusty places and
- Locations exposed to high levels of heat, direct sunlight or low temperatures (operating range: 10°C ... 40°C).

#### Removing the protective cover

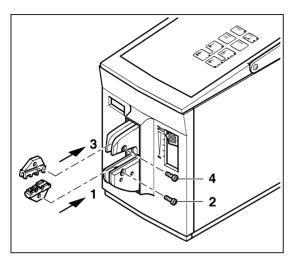


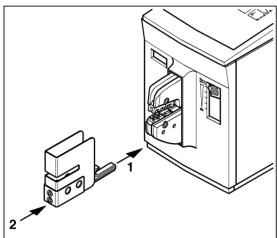
#### **WARNING: Risk of injury**

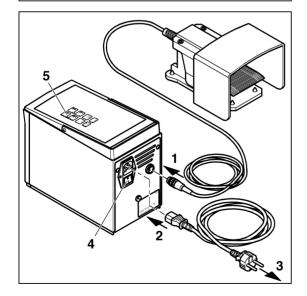
Disconnect the mains plug before removing the protective cover.

- Unscrew the screw (1).
- Remove the protective cover (2).

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#### Fitting the crimping die



#### NOTE: Observe the mounting position:

- Small cross section to the front
- Large cross section to the rear
- Insert the lower crimping die (1).
- Gently tighten the screw (2).
- Insert the upper crimping die (3).
- Gently tighten the screw (4).

### Attaching the protective cover

• Insert the security pin (1) into the lower crimping die and slide the protective cover (2) in until you feel it engage.



**WARNING:** The CF 500 must only be operated with the protective cover attached.



**NOTE:** If the protective cover is missing or incorrectly attached, then the CF 500 power supply disconnects.

### Connecting and switching on the CF 500

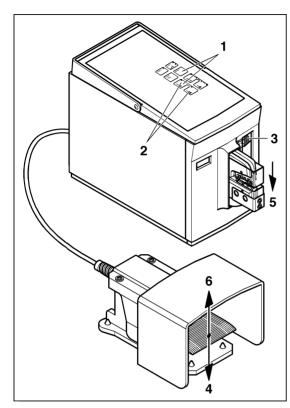
• Connect the foot pedal (1) to the foot pedal connection.

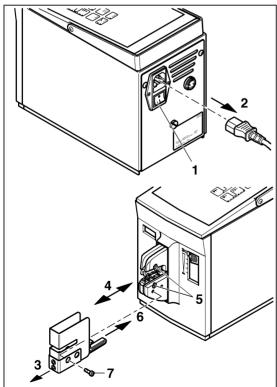


**NOTE:** The CF 500 is available in two versions for 230 V and 120 V. Make sure the mains connection is correct (see rating plate).

- Connect the mains plug (2) to the mains connection and the shock-proof plug (3) to the socket.
- Switch on the CF 500 with the mains switch (4) (press I). The "ready" LED lights up (5).

**3-2** PHOENIX CONTACT **102576\_en\_03** 





#### Centering the crimping die



**NOTE:** The crimping die bore holes have some play for the mounting screws. Therefore you need to center and adjust the crimping die.

- Press the "operating mode 1" and "enter" buttons simultaneously (1).
- The LEDs for the "operating mode 1 + 2" buttons flash
   (2).
- Push the adjusting slide (3) to position 1.



**NOTE:** Only release the foot pedal once the crimping die is closed. Otherwise it opens automatically, adjustment mode is terminated, and the "error" LED lights up.

- Press and hold down the foot pedal (4).
- The crimping die (5) closes slowly, until it meets with resistance and centers itself.
- Release the foot pedal (6).

#### Adjusting the crimping die

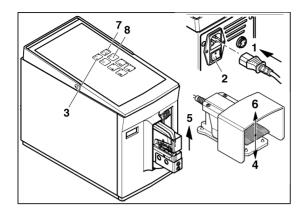


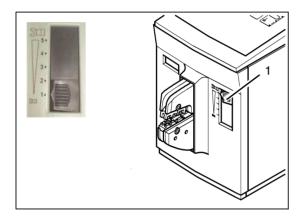
#### **WARNING: Risk of injury**

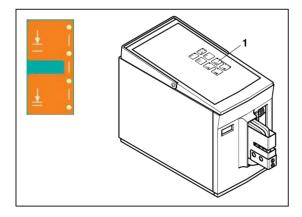
Disconnect the mains plug before removing the protective cover.

- Switch off the CF 500 with the mains switch (1) (press 0).
- Disconnect the mains plug (2).
- Unscrew the screw (7).
- Remove the protective cover (3).
- Check the centering of the crimping die, adjust if necessary (4).
- Tighten the screws (5).
- Attach the protective cover (6) and tighten the screw (7).

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#### Preparing the unit for operation

- Plug in the mains plug (1).
- Switch on the mains switch (2) (press I). The "ready" LED lights up (3).
- Press the foot pedal (4).
- The crimping die (5) opens automatically; release the foot pedal (6).
  - The "error" LED lights up (7).
- Press the "enter" button (8).
   The CF 500 is ready to operate.



**NOTE:** The device is set to operating mode 2. Check the operating mode before each use.

#### Setting the optimum press capacity start (1 ... 5)

- Push the adjusting slide (1) into position 1.
- Use the button to set "operating mode 1".
- Press the foot pedal.
  - One crimp process is performed without an inserted crimp contact. If the "error" LED lights up, check the position of the crimping die (see page 3-3).
- Insert the wire and the crimp contact.



NOTE: Ensure the cross section is correct.

- · Press the foot pedal.
- If the "error" LED lights up, move the adjusting slide up one position.
- Press the "enter" button.
- Repeat the process until the "error" LED no longer lights up.
- To compensate for any material tolerances, push the adjusting slide up one more position.

#### Setting the optimum opening stroke

- Press the upper button until all four LEDs light up.
   The maximum opening stroke is set.
- Carry out the crimping process.



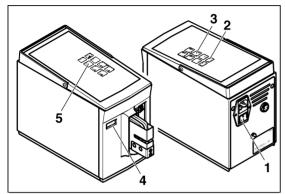
**NOTE:** Changes to settings only take effect after the next crimping process.

- If the opening stroke is too large, press the lower button so that only three LEDs light up.
- Carry out the crimping process.
- Repeat the process until the optimum opening stroke is set.

**3-4** PHOENIX CONTACT 102576\_en\_03

#### **Operation** 4

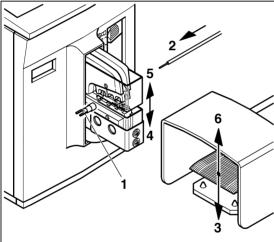
#### 4.1 **One-step crimping**

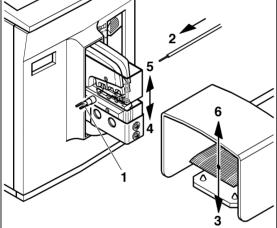


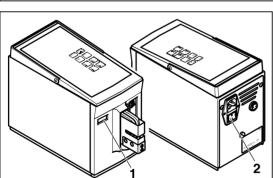


#### Setting operating mode 1

- Switch on the CF 500 with the mains switch (1) (press I).
  - The "ready" LED lights up (2).
- Press the "operating mode 1" button (3).
- If necessary, read the counter (4) and press the "reset" button to reset it to zero (5).







#### Crimping the crimp contact

- Center the crimp contact (1) on the lower crimping die.
- Insert the wire (2) into the crimp contact.



**NOTE:** Ensure the cross section is correct.

- Press the foot pedal (3) until the crimping die is completely closed (4).
- The crimping die (5) opens automatically; release the foot pedal (6).
- Remove the crimp contact with crimped wire (7).



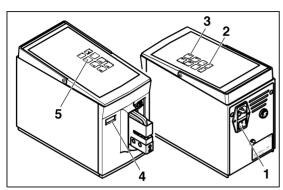
NOTE: If there was a fault with the crimping, the "error" LED lights up (see page 5-1).

#### **Shutting down**

- If necessary, read the counter (1).
- Switch off the CF 500 with the mains switch (2) (press 0).

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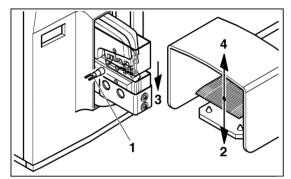
#### 4.2 **Two-step crimping**





#### Setting operating mode 2

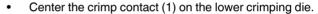
- Switch on the CF 500 with the mains switch (1) (press I).
  - The "ready" LED lights up (2).
- Press the "operating mode 2" button (3).
- If necessary, read the counter (4) and press the "reset" button to reset it to zero (5).



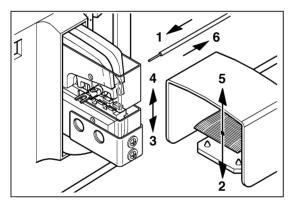
### Clamping the crimp contact



NOTE: Ensure the cross section is correct.



- Press the foot pedal (2) until the crimp contact is clamped (3).
- Release the foot pedal (4).



#### Crimping the crimp contact

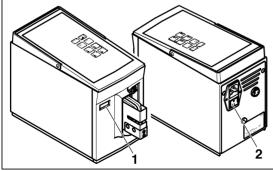
- Insert the wire (1) into the crimp contact.
- Press the foot pedal (2) until the crimping die is completely closed (3).
- The crimping die (4) opens automatically; release the foot pedal (5).
- Remove the crimp contact with crimped wire (6).



NOTE: If there was a fault with the crimping, the "error" LED lights up (see page 5-1).



- If necessary, read the counter (1).
- Switch off the CF 500 with the mains switch (2) (press 0).



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## 5 Troubleshooting

## 5.1 "Error" LED lights up



This malfunction can be caused by:

- Foot pedal released too soon
- Incorrect cross section selected
- Incorrectly set press capacity start (1 ... 5)
- Crimping die incorrectly adjusted



#### Foot pedal released too soon

If the foot pedal is released too soon, the crimping die immediately opens up as far as its initial position.

- Press the "enter" button.
   The "error" LED goes out.
- Repeat the crimping process.



#### Incorrect cross section selected

If a crimp contact that is too large or another unsuitable object is inserted, the crimping process is interrupted due to overload and the crimping die immediately opens as far as its initial position.

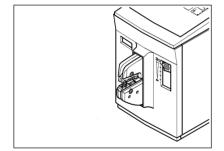
- Press the "enter" button.
   The "error" LED goes out.
- Repeat the crimping process with the correct cross section



#### Incorrectly set press capacity start (1 ... 5)

The inserted contact is too large for the selected area.

- Push the adjusting slide up one position.
- Press the "enter" button.
  - The "error" LED goes out.
- Repeat the crimping process until the press capacity is optimally set.





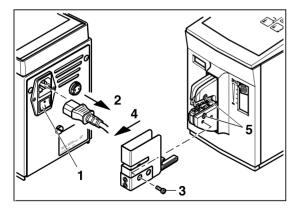
#### Crimping die incorrectly adjusted



#### WARNING: Risk of injury

Disconnect the mains plug before removing the protective cover.

- Switch off the CF 500 with the mains switch (1) (press 0).
- Disconnect the mains plug (2).
- Unscrew the screw (3).
- Remove the protective cover (4).
- Loosen the screws (5).
- Carry out the startup steps (see Section 3).



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5-2

### 5.2 CF 500 will not switch on

The CF 500 will not switch on. The "ready" LED does not light up. This malfunction can be caused by:

- No mains connection
- Mains fuse blown



#### No mains connection

- Check whether the mains plug is connected to the CF 500 mains connection and the shock-proof plug is connected to the mains socket.
- Make sure that the power supply at the mains socket is OK.

#### Mains fuse blown



#### **WARNING: Risk of injury**

Switch off the CF 500 via the mains switch and disconnect the mains plug.

- Switch off the CF 500 with the mains switch (1) (press 0).
- Disconnect the mains plug (2).
- Pull out the fuse holder (3).
- Check the mains fuses (4).
- Replace the blown mains fuse (for Order No. see ordering data on page A-1).
- Insert the fuse holder..



**NOTE:** The fuse holder must snap into place.

4 3

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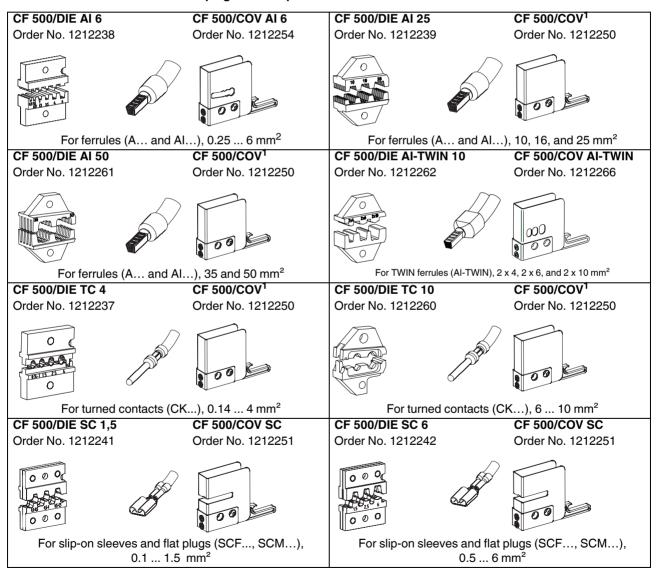
# A Appendix

## A 1 Ordering data

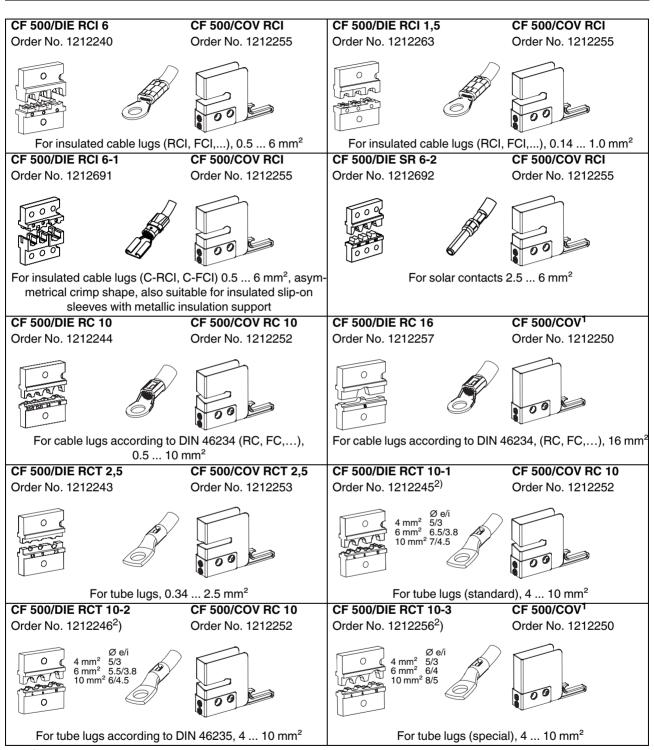
#### **Electric crimper**

Description	Туре	Order No.
Electric crimper 230 V	CF 500-230V	1208348
Electric crimper 120 V	CF 500-120V	1208351
Mains fuse for CF 500-230V	FUSE SB 1.25 A	1208801
Mains fuse for CF 500-120V	FUSE SB 2.5 A	1209062

#### Crimping dies and protective covers



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- 1) CF 500 Protective cover without recess
- 2) Ø e/i (external/internal diameter, in millimeters), in relation to the cross section of the cable lug

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### Locator for slip-on sleeves and flat plugs

For precise crimping, a moveable locator, which precisely positions the contacts under the crimping stamp, can be fitted.

Туре	Order No.	Crimp contacts	Die	Protective cover
CF 500/LOC SCF 6,3/6	1212247	Slip-on sleeves (SCF) up to 6.3 mm wide	CF 500/DIE SC 6	CF 500/COV SC
CF 500/LOC SCF 4,8/2,5	1212248	Slip-on sleeves (SCF) up to 4.8 mm wide	CF 500/DIE SC 1,5 CF 500/DIE SC 6	CF 500/COV SC
CF 500/LOC SCF 2,8/1,5	1212249	Slip-on sleeves (SCF) up to 2.8 mm wide and 5 mm long	CF 500/DIE SC 1,5 CF 500/DIE SC 6	CF 500/COV SC
CF 500/LOC SCM 6,3/2,5	1212264	Flat plug (SCM), 0.5 2.5 mm <sup>2</sup>	CF 500/DIE SC 1,5 CF 500/DIE SC 6	CF 500/COV SC
CF 500/LOC SCM 6,3/6	1212265	Flat plug (SCM), 1.5 6 mm <sup>2</sup>	CF 500/DIE SC 1,5 CF 500/DIE SC 6	CF 500/COV SC

## A 2 Technical data

Technical data	
Mains connection	
CF 500-230V	230 V/50 Hz
CF 500-120V	120 V/60 Hz
Power consumption	160 VA
Maximum press capacity	10 kN
Press time	<1s
Counter	6-digit LCD, can be reset
Dimensions (W x H x D)	140 mm x 220 mm x 320 mm
Weight of basic device	10 kg
Weight of foot pedal	1.2 kg

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## A 3 Declaration of conformity

Dentar	PHŒNIX
10-04110.01.00	10-04110.01.00
EG-Konformitätserklärung  EC-Declaration of Conformity  Hersteller / Manufacturer.  Anschrift / Address: PHOENIX CONTACT GMBH & CO. KG  Flachsmarkstraße 8, D-32825 Blomberg, Germany	Anhang zur EG-Konformitätserklärung Annex on EC Declaration of Conformity vom / dated 22.03.2010
Produktbezeichnung / Product description: CF 500-230V  (richtsbezeichnung, / Article description: 1208348  1208348  Das vorstehend bezeichnete Produkt stimmt mit den wesentlichen Anforderungen der nachfolgenden Richtlinie(n) und deren Anderungsrichtlinien Überein / The above mentitioned product is in line with the assential requirements of the below directive(s) and their modification directive(s):  2004/108/EC EMV-Richtlinie (Elektromagnetische Verträglichkeit)  2006/42/EC Maschinerichtlinien  Machinerichtlinie (Machinerichtlinie (Machinery Directive  2006/95/EC Niederspannungs-Richtlinie (NSR)  Low Vorlage Directive (L/V)	Produktbezeichnung / Product description:  [Andelbezeichnung / Andele description: Artikel-Nr. / Article no.]  Die Konformitalt mit den wesentlichen Anforderungen der Richtlinie(n) wird auch für folgende Produkte bescheinigt: The conformity with the essential requirements of the directive(s) is also certified by the declaration for following products.  Artikel-Nr. / Article no.  Artikel-Nr. / Article no.  1208351  CF 500-120V
Für die Beurteilung der Übereinstimmung wurden folgende einschlägige Normen herangezogen: For evaluation of the contormity following relevant standards were consulted: EN ISO 12100-122003 EN ISO 12100-222003 EN ISO 18857:2008 EN 349:1993 + A1 EN 60204-1:2006 EN 61000-6-2:2005 EN 61000-6-3:2007 Weitere Informationen (z. B. Dokumente, Prüfberichte, Einschränkungen, etc.) zur Konformitätsbewertung: Additional information (for example documents, test reports, restrictions etc.,) of the conformity assessment:  Zertlifikate einer benannten Stelle / Certificates by a notified body:	
Anschrift / Address: Referenz / Reference: Anschrift / Address:	
Referenz / Reference:  Die letzten beiden Ziffern des Jahres in dem die CE-Kennzeichnung angebracht wurde:  The last two figures of the year in which the CE marking was applied:  (ure einzuriagen, bie der Niederspannungsichteilie) only to be entered on the low voltage directive)  Diese Erklärung gift auch für die im Anhang aufgelisteten Produkte, wenn ergekreuzt  This declaration also applies for the products Isted in the amer, (if market with a cross)  Diese Erklärung bescheinigt die Überinlestimmung mit den wesentlichen Anforderungen der genannten fichtlinie(n), enthält jedoch keine Zusteheurg von Eigenschaften. Die Sicherheits um Einsbahnihweise den mitgelieferen Produktoklurmentation sind zu beachten.  This declaration certifies the conformity with the essential requirements of the indicated directive(s), it does not, however, coverant any characteristics. The Instructions for safety and installation of the enrobesed product documentation players be deserved.	
Blomberg, 2010-03-22  Sandra Klocke Business Unit Industrial Connection Technology Head of Devicionment Marking System & Service Ansprictparine / contact person  Ansprictparine / contact person  Ansprictparine / contact person	
FS A7-0037 / -08- Formblatterstellistum: Date of form establishment: 2009-11-10 Formblatterstellior Form establisher: Corporate Technology 10-0410.01.00.doc Blatt / Page 1 von / of 2	10-04110-01-00-accc Blatt / Page 2 von / of 2

PHOENIX CONTACT GmbH & Co. KG, Flachsmarktstraße 8, 32825 Blomberg, Germany

CF 500-230V

CF 500-120V

The above-mentioned products are in conformity with the most important requirements of the following directives and their amending directives.

2004/108/EC EMC Directive (electromagnetic compatibility)

2006/42/EC Machinery Directive

2006/95/EC Low-Voltage Directive (LVD)

The following pertinent standards were consulted for evaluating the conformity:

EN ISO 12100-1:2003 EN ISO 12100-2:2003 EN ISO 13857:2008 EN349:1993 + A1 EN 60204-1:2006 EN 61000-6-2:2005

EN 61000-6-3:2007

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OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

#### Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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