

CLIPLINE



UM EN CF 3000-2,5 (2888149)

EN User Manual

CF 3000-2,5

CF 3000-2,5 120 V

CLIPLINE

User Manual

Stripping and crimping automat for insulated ferrules in reel packaging CF 3000

2010-08-16

Designation: UM EN CF 3000-2,5

Revision: 01

Order No.: 2888149

This user manual is valid for:

Designation	Order No.
CF 3000-2,5	1205477
CF 3000-2,5 120 V	1205516

Please observe the following notes

In order to ensure the safe use of the product described, you have to read and understand this manual. The following notes provide information on how to use this manual.

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.

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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 messages that follow this symbol to avoid possible injury or death.



DANGER

This indicates a hazardous situation which, if not avoided, will result 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.

The following types of messages provide information about possible property damage and general information concerning proper operation and ease-of-use.



NOTE

This symbol and the accompanying text alerts the reader to a situation which may cause damage or malfunction to the device, either hardware or software, or surrounding property.



This symbol and the accompanying text provides additional information to the reader. It is also used as a reference to other sources of information (manuals, data sheets, literature) on the subject matter, product, etc.

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Published by

PHOENIX CONTACT GmbH & Co. KG
Flachmarktstraße 8
32825 Blomberg
Germany
Phone +49 (0) 52 35 – 3-00
Fax +49 (0) 52 35 – 3-4 12 00

PHOENIX CONTACT
P.O. Box 4100
Harrisburg, PA 17111-0100
USA
Phone +1-717-944-1300

Should you have any suggestions or recommendations for improvement of the contents and layout of our manuals, please send your comments to

tecdoc@phoenixcontact.com.

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1 Basic instructions

For simplification, only the item name CF 3000 is used in the following.

Basic condition for the proper safe handling and fault-free operation of the CF 3000 is the knowledge and observation of the safety instructions.

1.1 Intended purpose



WARNING: The CF 3000 is intended solely for stripping and crimping.

Only the PVC-insulated conductors may be inserted into the insertion funnel on the CF 3000 for processing; under no circumstance massive metal parts or like objects.

Arbitrary conversions that go beyond the retrofitting and modifications on the CF 3000 are prohibited for safety reasons.



ATTENTION: Observing all information and the adhering to the prescribed operational conditions belong to the intended purpose.



WARNING: The CF 3000 may only be used

- for the intended purpose and
- when in safe and fault-free condition.



WARNING: All persons that are involved with the startup, operation, and maintenance of the CF 3000 have to

- be appropriately qualified and
- adhere strictly to this user manual.

The CF 3000 serves to fully automatically strip flexible conductors of the classes 2, 5, and 6 according to DIN VDE 0295 and subsequent pressing insulated ferrules from reel packaging.

Ferrules are processed according to DIN 46228-4 in the cross-section range 0.5 mm² ... 2.5 mm² with 8 mm stripping length (order data, see page B-1).

Furthermore, an additional fit can be used to process ferrules in the cross-section range 0.25 mm² ... 0.34 mm² with 8 mm stripping length (order data, see page B-1).



ATTENTION: Use only ferrules and spare parts from Phoenix Contact (order data, see page B-1).

Permitted operators

Only authorized and instructed operators may work with the CF 3000.

The owner must

- make the user manual available to the operator and
- ensure that the operator has read and understood it.

1.2 Work sites

**ATTENTION: For operation and storage, avoid the following:**

- Humid or dusty places and
- Places that are subject to high warmth, direct sunlight, or low temperatures (operating range: 15 °C to 35 °C).

**ATTENTION:**

If there is a move from a cold room to a warm room, condensation can form.

- Before using the CF 3000, open the front door and allow condensation to evaporate.

**ATTENTION:**

- Do not spill liquids on the CF 3000.
- Do not let the CF 3000 be shaken or jolted heavily.

**ATTENTION:**

The CF 3000 may be used only when the hood is closed.

- Pull the mains plug before any work on the CF 3000, such as cross-section exchange or maintenance work.

1.3 For your safety



WARNING: The hood is installed for your safety. You should not modify the hood under any circumstances, remove it or bridge it by conversions.

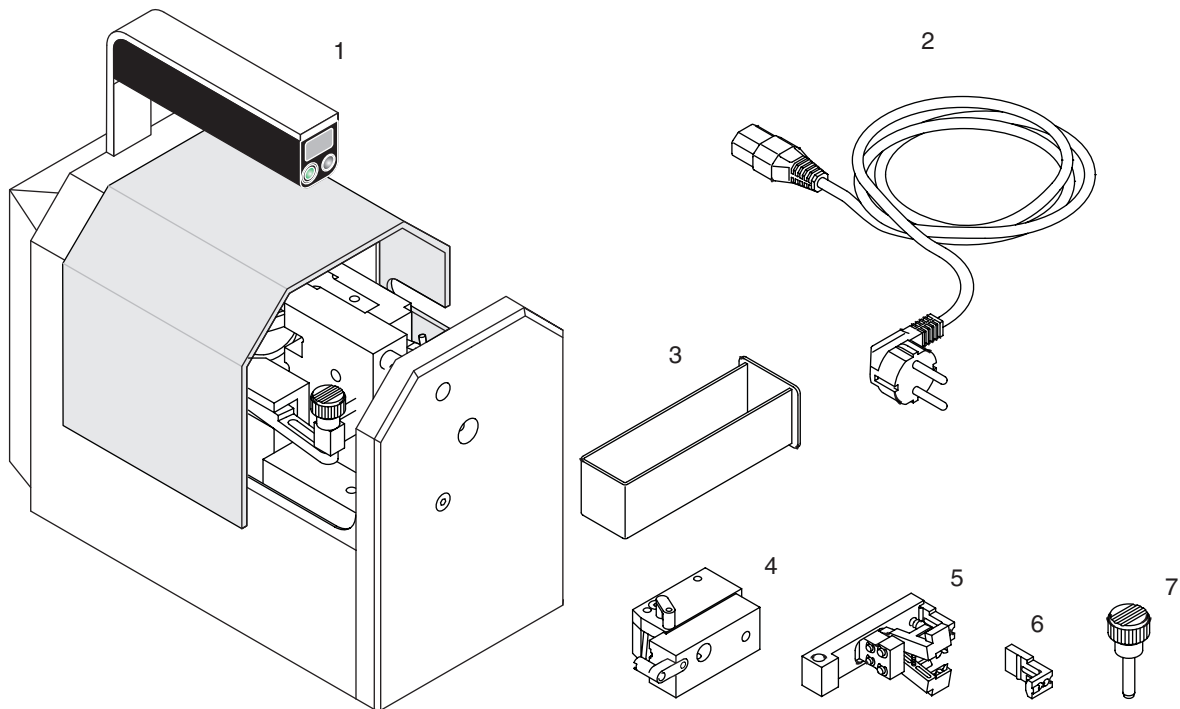
**WARNING:**

The CF 3000 may be used only when the hood is closed.

- Pull the mains plug before any work on the CF 3000, such as cross-section exchange or maintenance work.
- Make sure that there are no foreign objects inside the housing.

2 Description of the CF 3000

2.1 Scope of delivery



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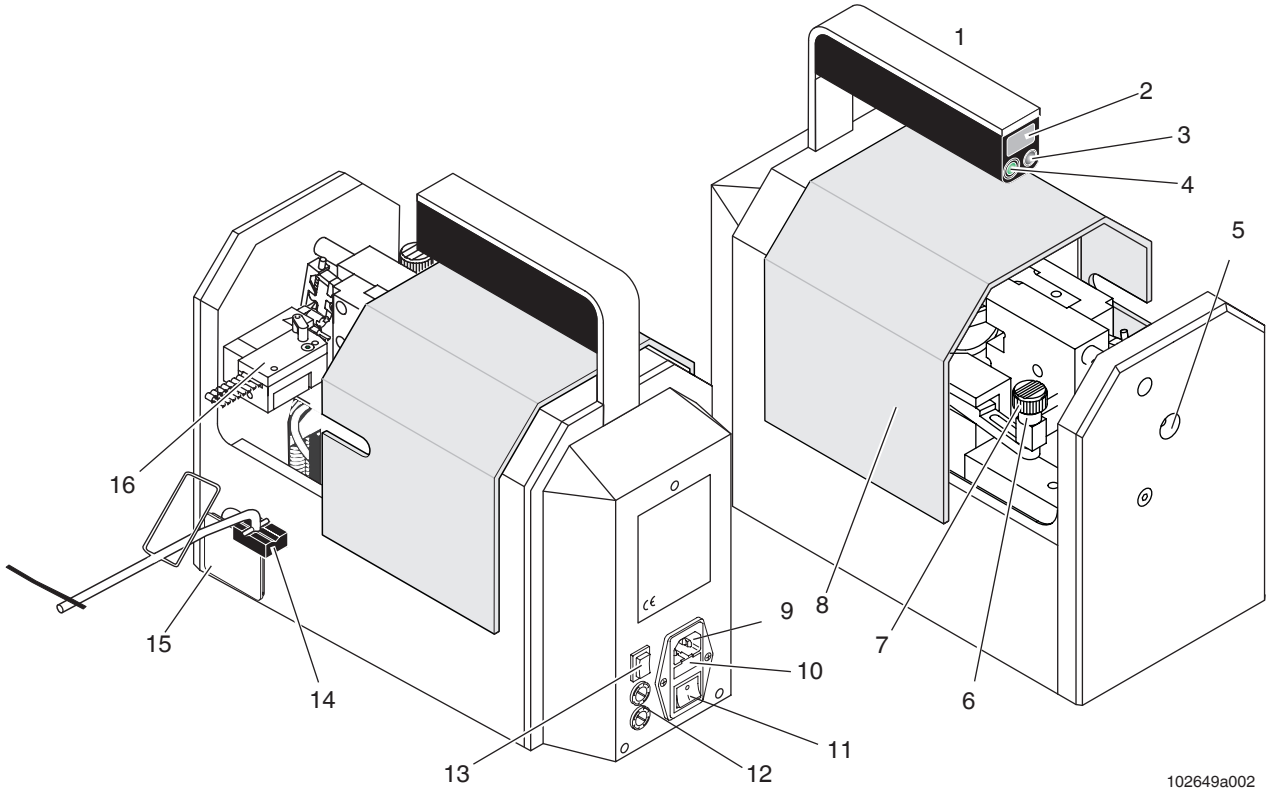
Illustration 2-1 Scope of delivery

- 1 Basic device CF 3000
- 2 Power cable (different types for CF 3000-2,5 and CF 3000-2,5 120 V)
- 3 Container for insulation residues
- 4 Ferrule guide for ferrules 0.5 mm² ... 2.5 mm² (5 pieces)
and per cross-section, one spare ferrule guide and a cable guide (not shown)
- 5 Operational inserts for 0.5 mm² ... 2.5 mm² (5 pieces)
- 6 Replacement locator for each operational insert (5 pieces)
- 7 Securing bolt \varnothing 6 mm

The ferrule guide and the operational inserts have the same color codes as the ferrule (according to DIN color code). They are supplied in a case. The case also includes a small brush (see page 4-4).

You can order a kit for 0.25 mm² and 0.34 mm² (order data, see page B-1).

2.2 Overview of the operating components



102649a002

Illustration 2-2 Operating components

<p>1 Handle</p> <p>2 Counter</p> <p>3 Reset button</p> <p>4 Power-on indicator</p> <p>5 Insertion funnel</p> <p>6 Operational insert</p> <p>7 Securing bolt</p> <p>8 Hood</p>	<p>The counter indicates the number of processing procedures.</p> <p>The counter can be reset to 0 with this button.</p> <p>Lights up when the power supply is switched on.</p> <p>To feed the conductor into the CF 3000.</p> <p>Positions the ferrule and strips the cable.</p> <p>Locks the operational insert.</p> <p>The hood is there for your safety. The CF 3000 functions only when the hood is closed completely.</p>	<p>9 Mains connection</p> <p>10 Mains fuses</p> <p>11 Mains switch</p> <p>12 Transformer fuse</p> <p>13 Reverse button</p> <p>14 Ferrule dispenser holder</p> <p>15 Container</p> <p>16 Ferrule guide</p>	<p>Device connection for the power cable</p> <p>Microfuses integrated in the mains connection.</p> <p>Switches the power supply of the CF 3000 on or off.</p> <p>Secondary device fuse with microfuse 4.0 A/T/250 V.</p> <p>Device moves into maintenance position (see page 5-1)</p> <p>Holder for the ferrule dispenser.</p> <p>The container collects the insulation residues. Empty the container regularly.</p> <p>The ferrule guide positions the ferrules. The corresponding guide needs to be installed for every cross-section.</p>
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3 Putting into operation

3.1 Selecting the installation site



ATTENTION: The installation site needs to be level and horizontal.



ATTENTION: During operation and storage, avoid the following:

- Humid or dusty places
- Places that are subject to high warmth, direct sunlight, or low temperatures (operating range: 15 °C ... 35 °C).



ATTENTION: If there is a move from a cold room to a warm room, condensation can form.

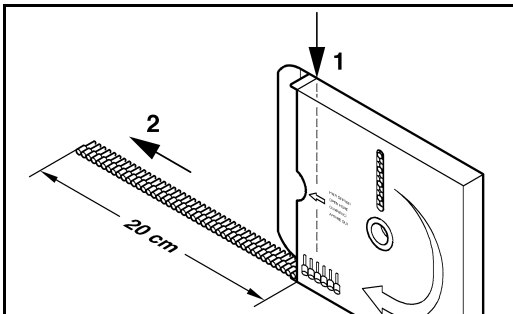
- Before using the CF 1000, open the hood and allow condensation to evaporate.



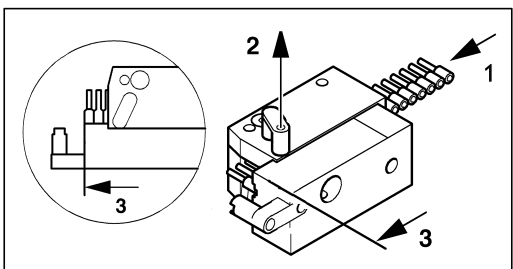
ATTENTION:

- Do not spill liquids on the CF 3000.
- Do not let the CF 3000 be shaken or jolted heavily.

3.2 Preparing the dispenser



- Open the package of the corresponding reel ferrules, tear off the strap at the edge (1) and pull out the reel about 20 cm (2).



Preparing the ferrule guide

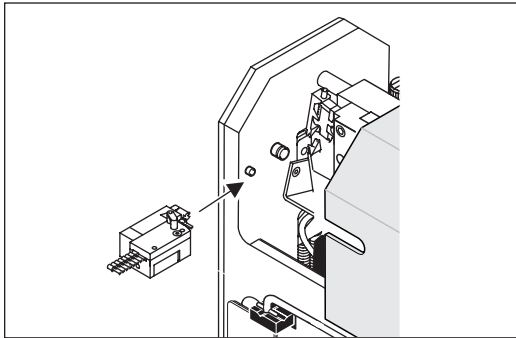


ATTENTION: Insert the ferrules precisely as directed, otherwise there may be faulty crimpings. Observe the color code of the ferrule guide.

- Select a ferrule guide with the corresponding cross-section.
- Insert the ferrules in the corresponding guide all the way sidewise (1).
- Then pull the pin upwards (2) and push the ferrules further to the marking (3).



ATTENTION: Make sure that the pin has latched in securely.



Mounting the ferrule guide



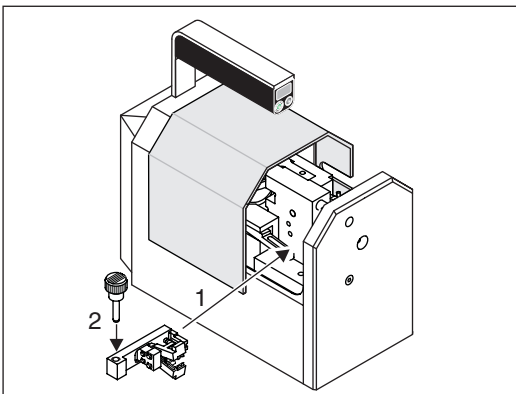
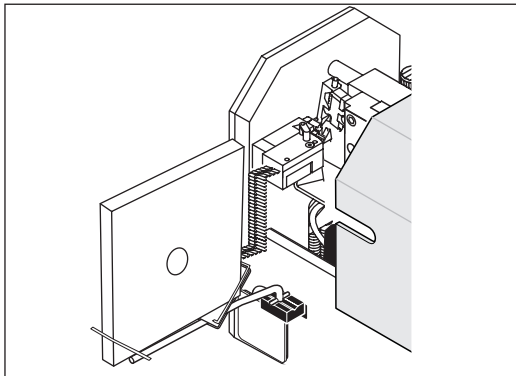
ATTENTION: The operational insert should not be mounted yet.

- Push back the hood.
- Insert the ferrule guide sidewise into the CF 3000 and plug onto the locating bolts in the front plate.
The ferrule guide has to be seated directly at the housing panel.



ATTENTION: Make sure that the pin has latched in securely.

- Place the dispenser of the ferrules into the holder.



Mounting the operational insert

- Select an operational insert with the corresponding cross-section.



ATTENTION: Note the color code of the operational insert.

- Push the operational insert sidewise into the intended guide (1).
- Insert the securing bolt all the way into the borehole of the operational insert (2).
- Tip over the holder of the dispenser so that it stands at a right angle to the CF 3000.



ATTENTION: Make sure that the ferrule reel can run unhindered.

- Close the hood.

Connecting the power supply



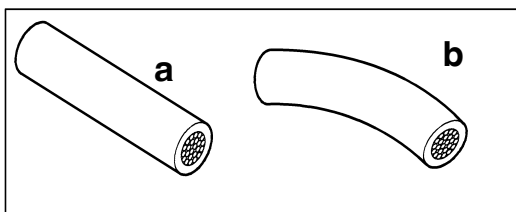
ATTENTION: The CF 3000 is available in two variants for 230 V and 120 V. Make sure the mains connection is correct (see type plate).

- Connect the power cable and switch on the CF 3000.

The CF 3000 is now ready for operation.

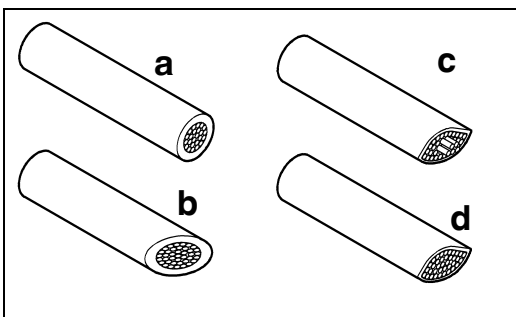
4 Operation

4.1 Stripping and crimping



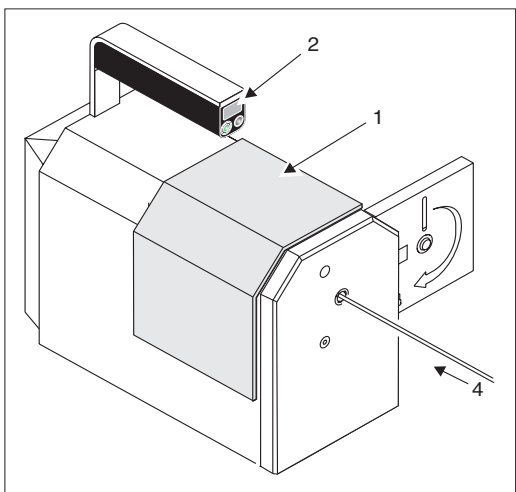
Align the conductor

- The conductor has to be aligned as straight as possible before the processing.
 - Bend is OK, maximum 2–3 mm at 6 mm length
 - Bend too great



Cutting the conductor

- Cut off the conductor clean and straight, for example with the cable cutter CUTFOX 35 (item no. 1206638) from Phoenix Contact.
 - Proper cut
 - Cut surface angled
 - Cut surface squeezed, single wires pulled out
 - Cut surface squeezed



Stripping and crimping

- Close the hood (1).
- If necessary, read the counter (2) and reset to 0.
- Switch on the CF 3000 with the mains switch.
- Push the conductor (4) straight all the way into the insertion funnel. The stripping and crimping process starts automatically.
- After the standstill of the CF 3000, pull the conductor straight out.



In case of a malfunction or otherwise improper stripping, see page 5-1.

Putting out of operation

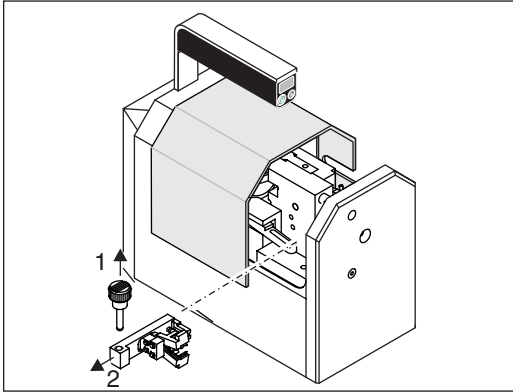
- If necessary, read the counter and reset to 0.
- Switch off the CF 3000 with the mains switch.

4.2 Converting to other cross-sections

The CF 3000 can be converted to the cross-sections 0.5 mm², 0.75 mm², 1.0 mm², 1.5 mm² and 2.5 mm².



Operational set, ferrule guide, and reel ferrules of a cross-section are marked by colors (color code according to DIN 46288-4).



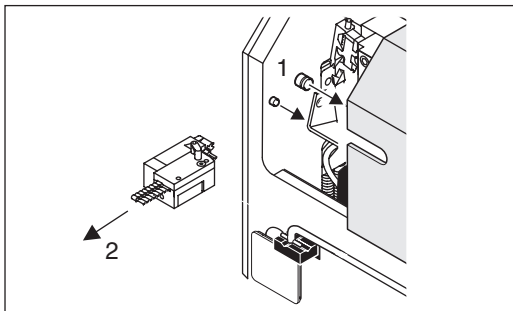
Preparing the conversion



WARNING: Risk of injury!

The hood needs to be opened. Pull the mains plug before opening the hood!

- If necessary, read the counter and reset to 0.
- Switch off the CF 3000 with the mains switch.
- Pull the mains plug.
- Push back the hood.
- Pull the securing bolt for the operational insert (1).
- Remove the operational insert (2).



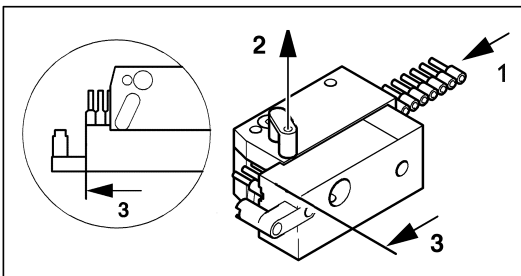
Replacing the ferrule guide

- Pull the pin upwards and pull out the ferrules.
- Remove the dispenser and roll up the remaining ferrules. Fold in the holder.
- Pull the ferrule guide backwards (towards the handle) (1) and remove sideways from the CF 3000 (2).

Preparing the ferrule guide



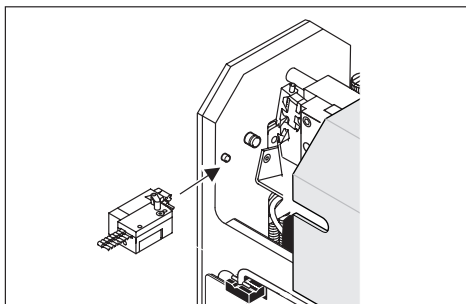
ATTENTION: Insert the ferrules precisely as directed, otherwise there may be faulty crimpings. Observe the color code of the ferrule guide.



- Select a ferrule guide with the corresponding cross-section.
- Insert the ferrules in the corresponding guide all the way sideways (1).
- Then pull the pin upwards (2) and push the ferrules further to the marking (3).



ATTENTION: Make sure that the pin has latched in securely.



Mounting the ferrule guide



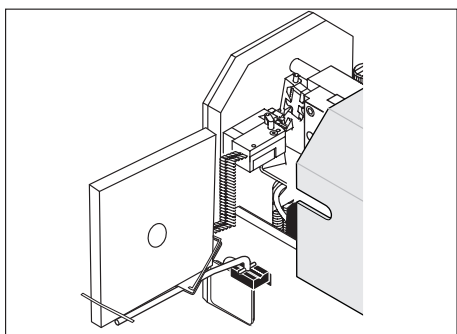
ATTENTION: The operational insert should not be mounted yet.

- Push back the hood.
- Insert the ferrule guide sidewise into the CF 3000 and plug onto the locating bolts in the front plate.
The ferrule guide has to be seated directly at the housing panel.



ATTENTION: Make sure that the pin has latched in securely.

- Place the dispenser of the ferrules on the holder so that the ferrules reel is fed from bottom to top in the ferrule guide.



Mounting the operational insert

Select an operational insert with the corresponding cross-section.



ATTENTION: Note the color code of the operational insert.

- Push the operational insert sidewise into the intended guide (1).
- Insert the securing bolt all the way into the borehole of the operational insert (2).
- Tip over the holder of the dispenser so that it stands at a right angle to the CF 3000.



ATTENTION: Make sure that the ferrule reel can run unhindered.

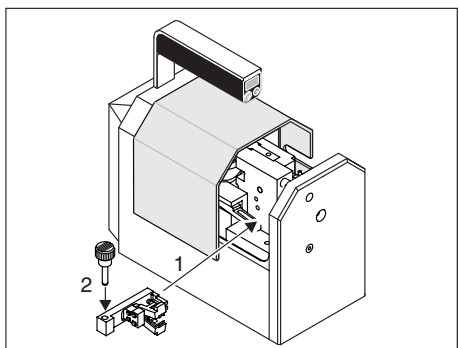
- Close the hood.

Connecting the power supply



ATTENTION: The CF 3000 is available in two variants for 230 V and 120 V. Make sure the mains connection is correct (see type plate).

- Connect the power cable and switch on the CF 3000.
The CF 3000 is now ready for operation.



4.3 Service

Clean the CF 3000 daily

- If necessary, read the counter and reset to 0.

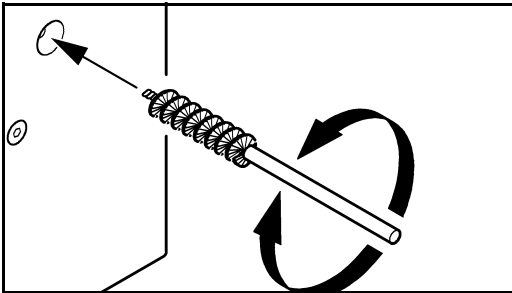
**WARNING: Risk of injury!**

Pull the mains plug and disconnect the compressed air before you open the front door.

- Switch off the CF 3000 with the mains switch.
- Pull the mains plug.
- Open the hood.
- Empty the container for insulation residues daily.
- Check if there are any insulation residue inside of the CF 3000 and remove them.
- Insert the container.
- Close the hood.

Cleaning the insertion funnel

- If the insertion funnel is soiled, it can be cleaned by a brush (included in the scope of delivery).



5 Rectifying malfunctions

5.1 Maintenance position

The maintenance position is used for removing replaceable parts in case of faulty crimping or jammed-in conductors.

The control drives automatically into maintenance position in case the crimping was not completed. It may happen that the CF 3000 carries out the crimping cycle through to the end position despite a faulty crimping. In this case, press the Reverse button to drive the CF 3000 into maintenance position.

5.2 Fault cases

Table 5-1 Fault cases

Fault/malfunction	Rectification	Fault case number	See
Conductor cannot be inserted	Press the Reverse button	Fault case 1	Page 5-1
Crimping process not ended	Remove conductor	Fault case 2	Page 5-2
Conductor jams in the CF 3000	Remove conductor	Fault case 2	Page 5-2
Conductor insulation is removed incompletely	<ul style="list-style-type: none"> – Check cross-section specifications – Check stripping knife 	Fault case 3	Page 5-2
Ferrule is not separated from the reel	Check the separating knife of the locator	Fault case 4	Page 5-3
CF 3000 does not function when the main switch is turned on	Check mains connection/fuses	Fault case 5	Page 5-3
CF 3000 works too slow	Check transformer fuse	Fault case 6	Page 5-4
Centering fork defective	Exchange centering forks	Fault case 7	Page 5-4

5.3 Fault case 1

The conductor cannot be inserted

The conductor can only be inserted in the start position (front) and not in the maintenance position (back).

- Press the Reverse button to get into the start position.

5.4 Fault case 2

The crimping process was not ended or the conductor is jammed in the CF 3000

- If the conductor jams in the CF 3000, press the Reverse button to get into maintenance position.
- If necessary, read the counter and reset to 0.



WARNING: Risk of injury!

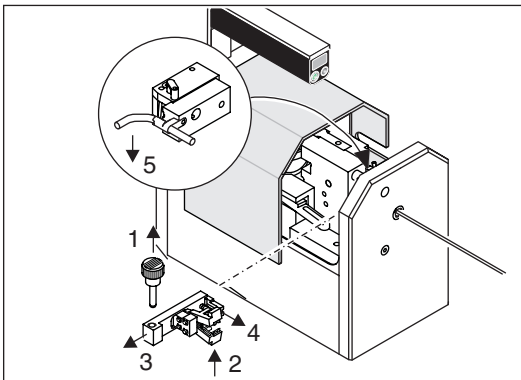
The hood needs to be opened. Pull the mains plug before opening the hood!

- Switch off the CF 3000 with the mains switch.
- Pull the mains plug.

Remove the operational insert and take out the conductor

- Push back the hood.
- Remove the securing bolt and pull the operational insert out to the side (3).
- Remove the ferrules (4).
- Bend the conductor to the side (5).
- Pull the pin upwards and pull out the ferrules.
- Close the hood.
- Plug in the mains plug. Switch on the CF 3000 with the mains switch.
- Press the Reverse button again. The CF 3000 move into the start position.
- Pull out the conductor.

Set up the CF 3000 after that (see page 3-1).



5.5 Fault case 3

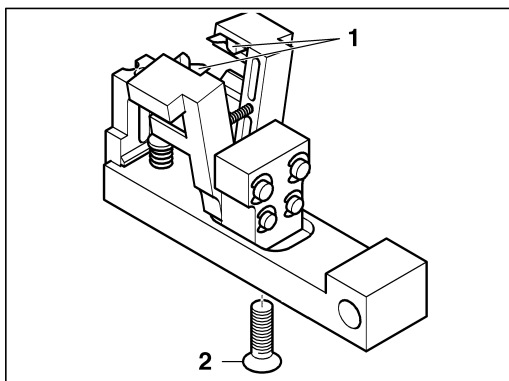
The conductor insulation is removed incompletely

Check cross-section specifications

- If the stripping of the conductor is not removed completely, check the cross-section specifications.
The conductor cross-section needs to match the cross-section specifications of operational insert and ferrule guide.
- Match the inserts to the selected conductor cross-section (see page 4-2).

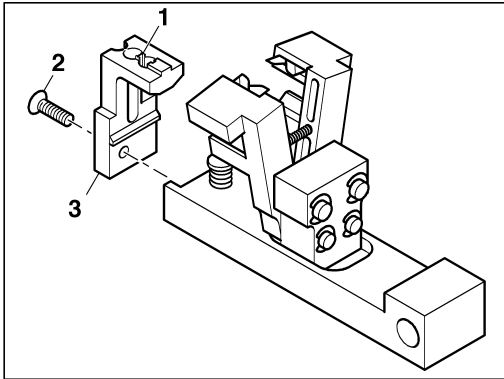
Replacing the stripping knife

- Check if the stripping knives (1) are damaged.
- If the stripping knives of the operational insert are worn or damaged, they need to be replaced (item no., see page B-1).
- Loosen the Allen head screw (2), replace the stripping knives and retighten the screw.



5.6 Fault case 4

The ferrule is not separated from the reel



Replacing the locator

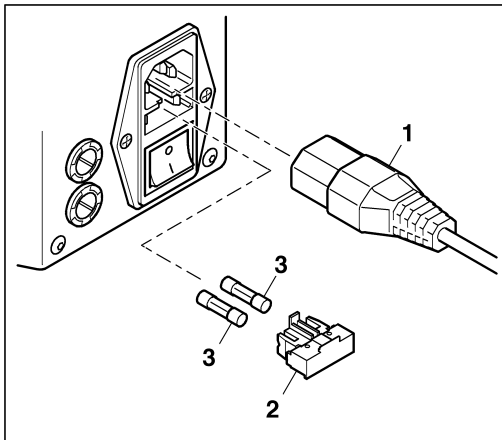
If the separating knife (1) is damaged or broken off, the ferrule that is crimped to the conductor will not be separated from the reel.

- Remove the operational insert (see page 4-2).
- Check the separating knife (1). If the separating knife (1) is defective, remove the locator (3).
- Loosen the Phillips screw (2).
- Remove the locator.
- Install a new locator for the corresponding cross-section (item number, see page B-1).
- Tighten the Phillips screw (2).

5.7 Fault case 5

The CF 3000 does not function when the main switch is turned on

- Make sure that the connections between the CF 3000 and the socket has been established without fault.



Checking the mains fuses



WARNING: Risk of injury!

The hood needs to be opened. Pull the mains plug before opening the hood!

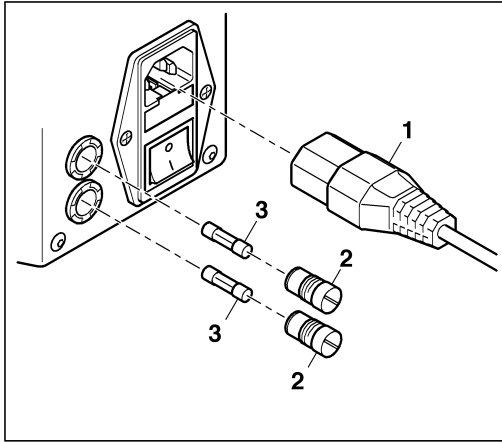
- Switch off the CF 3000 with the mains switch.
- Pull the mains plug (1).
- Pull out the fuse holder (2).
- Replace the defective mains fuses (3) with microfuses:
2 x 0.63 A/T/250 V (CF 3000-2,5) or otherwise
2 x 1.25 A/T/120 V (CF 3000-2,5 120 V),
(item no., see page B-1).
- Insert the fuse holder.



ATTENTION: The fuse holder has to snap in.

5.8 Fault case 6

The CF 3000 works too slow



Checking the transformer fuse



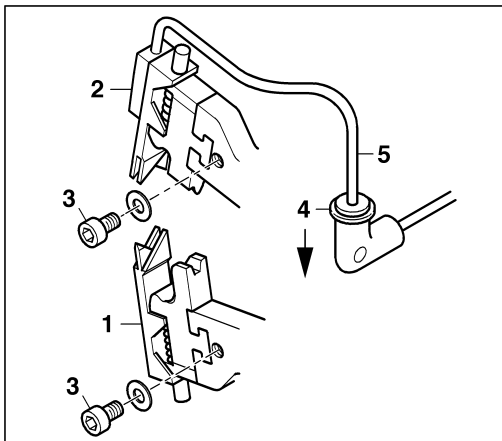
WARNING: Risk of injury!

The hood needs to be opened. Pull the mains plug before opening the hood!

- Switch off the CF 3000 with the mains switch.
- Pull the mains plug (1).
- Turn out the fuse holder (2) with a suitable screwdriver.
- Replace the defective fuses (3) with microfuses (4.0 A/T/250 V, item no., see page B-1).
- Turn the fuse holders back in.

5.9 Fault case 7

Top centering fork (crimp die) or bottom centering fork (crimp casting) are defective



Exchanging the centering forks



WARNING: Risk of injury!

The hood needs to be opened. Pull the mains plug before opening the hood!

- Switch off the CF 3000 with the mains switch.
- Pull the mains plug.
- Remove the operational insert and the ferrule guide (see page 4-2).
- To remove the bottom centering fork (1) and the top centering fork (2), loosen the respective Allen head screws (3).
- Take out the bottom centering fork. Press the top crimp casting a few millimeters down for that.
- Press down the hose clamp (4), pull out the hose (5) and remove the top centering fork.
- Replacing defective centering forks with new ones (item no., see page B-1).




ATTENTION: The plastic parts have to be clean and free of grease.

A Technical Annex

A 1 Technical data

Technical data	
Mains connection	
CF 300-2,5	230 V/50 Hz
CF 3000-2,5 120 V	120 V/60 Hz
Power consumption	80 VA
Cycle time	1.2 s
Work range	0.5 mm ² ... 2.5 mm ² with conversion kit (CF 3000-TOOLKIT 0,25) 0.25 mm ² and 0.34 mm ²
Ferrules	Reel packaging version acc. to DIN 46228-4
Conductor length minimum	49 mm
Stripping length	8 mm
Press form	Trapeze-shaped according to DIN VDE 0660-100
Dimension (W x H x D)	320 mm x 300 mm x 165 mm
Weight	12 kg
Operational temperature	15 °C ... 35 °C
Noise levels	70 dB (A)

A 2 Declaration of Conformity



10-04110.02.00

**EG-Konformitätserklärung
EC-Declaration of Conformity**

Hersteller / Manufacturer: **PHOENIX CONTACT GMBH & CO. KG**
 Anschrift / Address: **Flachsmarktstraße 8, D-32825 Blomberg, Germany**

Produktbezeichnung / Product description: **CF 3000-2,5**
(Artikelbezeichnung, / Article description, Artikel-Nr. / Article no.) **1205477**

Das vorstehend bezeichnete Produkt stimmt mit den wesentlichen Anforderungen der nachfolgenden Richtlinie(n) und deren Änderungsrichtlinien überein / The above mentioned product is in line with the essential requirements of the below directive(s) and their modification directive(s):

2004/108/EC	EMV-Richtlinie (Elektromagnetische Verträglichkeit) Electromagnetic Compatibility Directive (EMC)
2006/42/EC	Maschinenrichtlinie Machinery Directive
2006/95/EC	Niederspannungs-Richtlinie (NSR) Low Voltage Directive (LVD)

Für die Beurteilung der Übereinstimmung wurden folgende einschlägige Normen herangezogen:
 For evaluation of the conformity following relevant standards were consulted:

EN ISO 12100-1:2003	EN ISO 12100-2:2003	EN ISO 13857:2008
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:



Zertifikate 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: 02
(nur einzutragen, bei der Niederspannungsrichtlinie / only to be entered on the low voltage directive)

Diese Erklärung gilt auch für die im Anhang aufgelisteten Produkte. (wenn angereuzt)
 This declaration also applies for the products listed in the annex. (if marked with a cross)


Diese Erklärung bescheinigt die Übereinstimmung mit den wesentlichen Anforderungen der genannten Richtlinie(n). enthält jedoch keine Zusicherung von Eigenschaften. Die Sicherheits- und Einbauhinweise der mitgelieferten Produktdokumentation sind zu beachten.
 This declaration certifies the conformity with the essential requirements of the indicated directive(s), it does not, however, covenant any characteristics. The instructions for safety and installation of the enclosed product documentation have to be observed.

Blomberg, 2010-03-22

 Sandra Kocke Business Unit Industrial Connection Technology Head of Development Marketing System & Service Ansprechpartner / contact person	 Dirk Görtzer Business Unit Industrial Connection Technology Vizepräsident, Head of the Business Unit Züchtlungsleiter / authorized sprator
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FS A-7-0057 / -06-
10-04110.02.00.00

Formblätterkennung: 2009-11-10
Formblattsteller: Corporate Technology
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10-04110.02.00

**Anhang zur EG-Konformitätserklärung
Annex on EC Declaration of Conformity
vom / dated 22.03.2010**

Produktbezeichnung / Product description: **CF 3000-2,5**
(Artikelbezeichnung, / Article description, Artikel-Nr. / Article no.) **1205477**

Die Konformität 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.	Artikelbezeichnung / Article description
1205516	CF 3000-2,5 120V
1206078	CF 3000-2,5 AMP 230 VOLT
3202449	CF 3000-2,5 FUCHS 230 VOLT
3202850	CF 3000-2,5 BASIC

10-04110.02.00.00

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

CF 3000-2,5

CF 3000-2,5 120 V

The products are in conformity with significant standards of the following regulations and their change regulations.

2004/108/EC EMC guideline (Electromagnetic Compatibility)

2006/42/EC Machinery Directive

2006/95/EC Low voltage directive

The following pertinent standards were consulted for evaluating the conformity:

EN ISO 12100-1:2003 EN ISO 12100-2_2003 EN ISO 13857:2008

EN 349:1993 + A1 EN 60204-1:2006 EN 61000-6-3:2007

EN 61000-6-2:2005

B Order data

B 1 Stripping and crimping automat

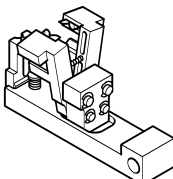
Description	Designation	Item no.	VPE
Stripping and crimping automat, 230 V version for insulated ferrules in reel packaging according to DIN 46228-4, for cross-section range 0.5 mm ² ... 2.5 mm ²	CF 3000	1205477	1
Stripping and crimping automat, 120 V version for insulated ferrules in reel packaging according to DIN 46228-4, for cross-section range 0.5 mm ² ... 2.5 mm ²	CF 3000-2,5 120 V	1205516	1
Kit for CF 3000, 0.25 mm ² and 0.34 mm ² , complete	CF 3000-TOOLKIT 0,25	1212376	1

B 2 Reel ferrules

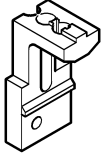
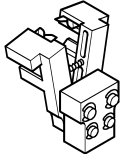
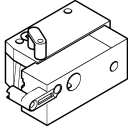




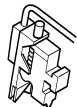




Description	Designation	Item no.	Pcs./reel
Reel ferrules with plastic ferrule, 0.25 mm ² , blue	Al 0,25-8 BU-B	3240250	1000
Reel ferrules with plastic ferrule, 0.25 mm ² , yellow	Al 0,25-8 YE-B	3240251	1000
Reel ferrules with plastic ferrule, 0.34 mm ² , turquoise	Al 0,34-8 TQ-B	3240249	1000
Reel ferrules with plastic ferrule, 0.5 mm ² , white	Al 0,5-8 WH-B ¹	3201369	1000
Reel ferrules with plastic ferrule, 0.5 mm ² , orange	Al 0,5-8 OG-B	3201563	1000
Reel ferrules with plastic ferrule, 0.75 mm ² , gray	Al 0,75-8 GY-B ¹	3201372	1000
Reel ferrules with plastic ferrule, 0.75 mm ² , blue	Al 0,75-8 BU-B	3201547	1000
Reel ferrules with plastic ferrule, 0.75 mm ² , white	Al 0,75-8 WH-B	3201576	1000
Reel ferrules with plastic ferrule, 1 mm ² , red	Al 1-8 RD-B ¹	3201385	1000
Reel ferrules with plastic ferrule, 1 mm ² , yellow	Al 1-8 YE-B	3201589	1000
Reel ferrules with plastic ferrule, 1.5 mm ² , black	Al 1,5-8 BK-B ¹	3201398	1000
Reel ferrules with plastic ferrule, 1.5 mm ² , red	Al 1,5-8 RD-B	3201592	1000
Reel ferrules with plastic ferrule, 2.5 mm ² , blue	Al 2,5-8 BU-B ¹	3201408	500
Reel ferrules with plastic ferrule, 2.5 mm ² , gray	Al 2,5-8 GY-B	3201550	500

¹ Color code according to DIN 46228-4

B 3 Spare parts

Part	Cross-section	Designation	Item no.	VPE
Operational insert 	0.25 mm ²	CF 3000 BBE-AME 0,25	1207514	1
	0.5 mm ²	CF 3000 BBE 0,5	1205752	1
	0.75 mm ²	CF 3000 BBE 0,75	1205765	1
	1.0 mm ²	CF 3000 BBE 1,0	1205778	1
	1.5 mm ²	CF 3000 BBE 1,5	1205781	1
	2.5 mm ²	CF 3000 BBE 2,5	1205794	1

CF 3000

Part		Cross-section	Designation	Item no.	VPE
Locator The locator is a component of the operational insert CF 3000 BBE...		0.25 mm ²	CF 3000 LOC 0,25	1212377	1
		0.5 mm ²	CF 3000 LOC 0,5	1205639	1
		2.5 mm ²	CF 3000 LOC 0,75	1205642	1
		1.0 mm ²	CF 3000 LOC 1,0	1205655	1
		1.5 mm ²	CF 3000 LOC 1,5	1205668	1
		2.5 mm ²	CF 3000 LOC 2,5	1205671	1
Stripping knife The stripping knife is a component of the operational insert CF 3000 BBE...		0.25 mm ²	CF 3000 AB 0,25	1212380	1
		0.5 mm ²	CF 3000 AM 0,5	1205587	1
		2.5 mm ²	CF 3000 AM 0,75	1205590	1
		1.0 mm ²	CF 3000 AM 1,0	1205600	1
		1.5 mm ²	CF 3000 AM 1,5	1205613	1
		2.5 mm ²	CF 3000 AM 2,5	1205626	1
Ferrule guide		0.25 mm ²	CF 3000 HZG 0,25	1212378	1
		0.5 mm ²	CF 3000 HZG 0,5	1205684	1
		2.5 mm ²	CF 3000 HZG 0,75	1205697	1
		1.0 mm ²	CF 3000 HZG 1,0	1205707	1
		1.5 mm ²	CF 3000 HZG 1,5	1205710	1
		2.5 mm ²	CF 3000 HZG 2,5	1205723	1
Cable guide The cable guide is a component of the ferrule guide CF 3000 HZG...		0.25 mm ²	CF 3000 CG 0,25	1212379	1
		0.5 mm ²	CF 3000 CG 0,5	1207721	1
		2.5 mm ²	CF 3000 CG 0,75	1207734	1
		1.0 mm ²	CF 3000 CG 1,0	1207747	1
		1.5 mm ²	CF 3000 CG 1,5	1207750	1
		2.5 mm ²	CF 3000 CG 2,5	1207763	1
Securing bolt		-	CF 3000 SBO	1205804	1
Centering fork up		0.5 mm ² ... 2.5 mm ²	CF 3000 CENTERING FORK UP	3202740	1
		0.25 mm ² ... 0.75 mm ²	CF 3000 CFT 0,25	1212391	1
Centering fork down		0.5 mm ² ... 2.5 mm ²	CF 3000 CENTERING FORK DOWN	3202753	1
		0.25 mm ² ... 0.75 mm ²	CF 3000 CFB 0,25	1212392	1
Crimp die		0.5 mm ² ... 2.5 mm ²	CF 3000 CRIMP DIE	3202782	1
		0.25 mm ² ... 0.75 mm ²	CF 3000 CDM 0,25	1212390	1
Crimp casting		0.5 mm ² ... 2.5 mm ²	CF 3000 CRIMP CASTING	3202779	1
		0.25 mm ² ... 0.75 mm ²	CF 3000 CDF 0,25	1212389	1
Mains fuse		Microfuses integrated in the mains connection 0.63 A/T/250 V, for the CF 3000-2,5	CF 3000 SI 0,63 A/T/250 V	1205736	2
Mains fuse		Microfuses integrated in the mains connection 1.25 A/T/120 V, for the CF 3000-2,5 120 V	CF 3000 SI 1,25 A/T/120 V	1208940	2
Transformer fuse		Transformer fuse, secondary with microfuse 4.0 A/T/250 V	CF 3000 SI 4,0 A/T/250 V	1205749	2