



# PHOENIX CONTACT – In dialog with customers and partners worldwide

Phoenix Contact is one of the leading manufacturers of electrical connection and industrial automation technology. Founded over 80 years ago, the company now employs 10 200 people all over the world, more than 5 600 of whom are in Germany. A sales network with over 46 subsidiaries and more than 30 additional sales partners guarantees customer proximity directly on-site.

The product range comprises first class components, systems and services for a wide range of applications — the offer ranges right from modular terminal blocks to interface technology, PCB connection methods, solutions for surge protection through to hardware and software solutions for the automation of industrial systems.



#### Global player with customer proximity

Independence of the company is an integral part of the corporate policy.
Phoenix Contact therefore places great importance on in-house competence and expertise: The design and development departments continuously implement innovative ideas in products to develop special solutions to meet customer requirements. Numerous patents emphasize the fact that many products are Phoenix Contact's own developments.



## **TOOL** fox - The right tool for every case

Phoenix Contact offers the complete range of professional processing and measuring tools for all applications in electrical engineering. The tool for cutting, stripping, pressing, crimping, screwing and testing convinces with good handling and excellent quality. Automatic cutting, stripping and crimping devices are available for automation of steps. Only professional tools facilitate very good results.

Quality, precision, durability and effectiveness are the basis for our tools.

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- · Ergonomically designed handles
- Optimal transmission of lever action reduces manual forces by 25%
- · Use of high-quality materials with special hardened tool steels that ensure maximum durability

# TOOL fox – Tool expertise

The most significant feature of a professional tool: It's fun to work with!

Good haptics and ergonomics, durability and functionality guarantee high levels of efficiency and quality. The features are united in all the tools from Phoenix Contact.



Cutting

CUTFOX cutting tools are characterized by especially hardened blades for high durability, increased force due to optimum transmission of lever action and slip-free dual-component handles.

The WIREFOX stripping tools facilitate quick stripping by means of self-adjusting blades. This avoids any damage to the conductor. The ergonomic, light-weight and glass-fiber-reinforced pliers guarantee fatigue-free work.

The CRIMPFOX crimping pliers attain optimum crimping results for all connectors even for large conductor cross-sections, with minimum forces. Equipped with a pressure lock, the pliers provide uniform high quality and gas-tight crimping.

#### Cutting

#### The process chain starts with the trimming or cutting of conductor or line.

A correct processing of conductors and lines of different size, shape and insulation can be achieved permanently only with quality tools. Low manual exertion of force with maximum exploitation of force in the cutting area is guaranteed by an optimal transmission of lever action. If conductors and lines are to be cut in the upper cross-section range of up to 1400 mm<sup>2</sup>, the choice is limited to cable cutters with ratchet drive. The finely stepped down drives allow the manual force required to be kept to a minimum here too.

For both versions with direct and indirect power transmission, the specifically designed cutting edge geometries support smooth running and ensure a right-angled and burrfree cut. Accidental deformation of the conductor is thus counteracted. The cutting described above, also called shear cutting, is listed under the generic term "splitting" in DIN 8588. Two blades move towards each other and thus cut (shear) the material without burring.

Bite cutting means two successively moving, wedge-shaped blades cut the material. The wedge angle of the blades is deliberately

large and thus stable. In addition to the hardening of the entire tool, the cutting area is later on again hardened inductively to 62 HRC. Only this way it is possible to sever even extremely hard materials, e.g. piano wire and spring steel with a tensile strength of up to 2300 N/mm<sup>2</sup> without damaging the tool. Bite cutting is suitable to a limited extent for cutting through cables and lines.

When used accordingly, the CUTFOX cutting tools from Phoenix Contact have long-term stability and achieve permanently consistent results.



Shear cutting



Bite cutting

#### **Baring**

#### Baring is the next step in the manufacturing process of reliable crimping. A distinction is made between baring and stripping.

Baring is used both as a generic term and to mean removing the insulation of conductors up to 16 mm<sup>2</sup>. Stripping describes the baring process for large conductor cross-sections and multi-strand and multilayered lines and cables.

A suitable baring and stripping tool removes the insulation sections accurately and quickly. The terminal point or the connector determines the length of the insulation to be removed. This is set using adjustable limit stops and ensures consistent stripping lengths.

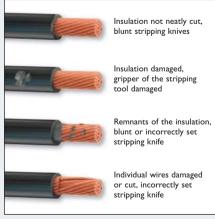
When removing the insulation, make sure that the individual inner wires or the braided shield are not damaged. The remaining insulation must not be damaged by the grip pressure, whereby pressure points and color changes on the insulation material as a result are permitted. Further faults that need to be prevented are stipulated in DIN IEC 60352.

For processing special insulation materials, suitable blade geometries depending on the application are deployed. V blades are used for both hard (e.g. Teflon/Radox®) and soft ductile rubber insulations (silicone). The V blades cut the insulation all the way round unlike the straight blade geometry, thus reducing the tear-off forces.

It is advisable to use automatic stripping pliers of the WIREFOX pliers series from Phoenix Contact to meet these requirements.



Correctly stripped cable in accordance with **DIN IEC 60352** 



Stripping fault in accordance with DIN IEC 60352

## **Crimping**

#### Crimping also means the joining of contact and conductor mechanically.

Besides crimping, two more terms are also prevalent in the German-speaking area. The type of deformation plays a decisive role. On the basis of contact types, we distinguish between:

- Squeezing, for insulated cable lugs
- Pressing, for ferrules, non-insulated cable lugs and others

If e.g. flat connectors are processed, it is referred to as crimping.

In order to generate a reliable connection between contact and conductor, some important points must be observed

- · Correct connection of the conductor
- Conductor and contact compatible
- Correct positioning of the conductor in the contact

- · Choice of suitable crimping tool
- Conductor and contact inserted in the appropriate die nest of the pliers

Professional crimping pliers are always equipped with a releasing pressure lock. It releases as soon as the required crimping pressure is applied. This eliminates the possibility of too little pressure. This guarantees the user a constant crimping result with maximum pull-out values.

If larger series of contacts are processed, automatic or semi automatic crimping machines are often implemented.

For subsequent assessment of crimping results, refer to the regulations DIN EN 60352-2 and 60999-1. In addition to a variety of electrical and mechanical tests, conductor pull-out tests are the decisive criterion.

All tools of the WIREFOX pliers series from Phoenix Contact have been adjusted and tested according to valid regulations. Gas-tight crimping with long-term stability is achieved using these tools. Carefully thought-out mechanics reduce manual forces by 25%.

#### Unique assignment 25% power saving A diagram of the connectors to be Innovative mechanics reduce the force processed ensures an easy optical by 25%. Even large cross-sections can be **Ergonomic handling** allocation. safely crimped using little force. The dual-component handle ensures an optimum hold by means of a soft component with rough texture on the upper handle. The hard component on the lower handle, means that it slides without friction through the hand. Manufactured precisely Precisely manufactured dies provide a uniform and high quality during contact processing. **Toolless one-hand** operation If required, the pressure lock Easy to insert can be easily accessed for The stable pliers head with release yet is integrated in the optimal apex angle allows easy handle to protect it. insertion of connectors of even Non-slip pressure pad larger cross-sections. A non-slip pressure pad for positioning on surfaces can assist the transmission of force.

## **Conductor pull-out test**

#### Conductor pull-out test according to DIN EN 60352-2

In practice, tractive forces can affect the crimping points during wiring or operation.

Therefore, crimped contacts must be wired correctly to offer a high degree of mechanical reliability. To test the tensile

load capacity, the crimping must withstand a given tractive force relating to the crosssection for over 60 seconds. The tractive force exerts stress on the conductor at the crimping point. Crimping must hold without damage.

> The results of the tests for contacts from Phoenix Contact lie above the required minimum values stipulated in the standard.

Conductor cross-section		Pull-out force
mm²	AWG	Ν
0.14		18
	24	28
•	•	•
:	:	
4.0	-	400
1.0		108
	16	135
•	•	•
:		:
	`	240
6.0		360
	8	370

Minimum bull-out values for ferrules can be taken from DIN EN 60999-1.



## Gas-tight

#### Gas tightness - test set-up based on DIN 50018

The key role of the metal parts of electrical connections becomes particularly apparent in aggressive environments. Corrosion-free contact areas are a prerequisite for low-resistance and thus powerful connections.

This testing method describes a corrosion test in condensation climates with an atmosphere that contains sulphur dioxide. Acidic compounds < Ph 7 form here and attack metal surfaces.

Two liters of distilled water and one liter of SO, gas are introduced to the test chamber. At a testing temperature of 40°C during the course of the test, sulphurous acid is formed. After eight hours of testing, the test objects dry for 16 hours with an open door. At the end of the test, a visual inspection of the test objects is conducted. The contact resistance of the contacts is recorded in accordance with

DIN EN 60512-2-1:2002 before and after the corrosion test and checked for changes caused by the effect of corrosion.

When used correctly, crimping tools and connectors from Phoenix Contact create a permanent, gas-tight connection at the contact points that cannot even be impaired by aggressive media.



The voltage drop must not exceed 3.2 mV before or after the test nor must it exceed 1.5 times the value measured at the start of the test.

# **CUTFOX/UNIFOX**

Cutting and universal tools

Phoenix Contact has the perfect CUTFOX cable cutter for every application. There are different designs for processing cables with a diameter up to 100 mm. All parts of the cable cutters that are under particular strain are tempered or especially hardened.

An extensive range of UNIFOX combination tools is available for universal use. The safety tools equipped with non-slip dual-component handles are VDE-tested and marked.





#### Maximum force transfer

With the ratchet machanism, the force required in the case of large conductor cross-sections up to 100 mm diameter is extremely low.



## Ergonomically designed

An innovative construction and non-slip handles with good grip ensure fatigue-free work.



#### **VDE** tested safety

An extensive range of VDE tested combination tools is available for universal use.

## **CUTFOX** cutting tools

#### Front cable cutter

Туре Cross-section

Туре Cross-section

The front cable cutter ensures optimal cutting results in the cross-section range of a 35 mm diameter (300 mm<sup>2</sup>) by special cutting tool geometries. Handles with ergonomic grip support fatigue-free work.



CUTFOX 12 1212128 up to 12 mm Ø (up to 35 mm²)



1212126

**CUTFOX 16 VDE** up to 16 mm  $\emptyset$  (up to 50 mm $^2$ )



**CUTFOX 18** 1212129 up to 18 mm  $\emptyset$  (up to 50 mm<sup>2</sup>)



Order no.

Order no.

Type Order no. Cross-section



**CUTFOX 25 VDE** up to 25 mm Ø (up to 70 mm $^2$ )



**CUTFOX 25** up to 25 mm  $\emptyset$  (up to 185 mm $^2$ )



**CUTFOX 35** 1212131 up to 35 mm  $\emptyset$  (up to 300 mm<sup>2</sup>)

#### Ring cable cutter

One and two-hand ring cable cutters with force-saving ratchet function, unlockable, cutting of copper and aluminum up to 100 mm diameter (1400 mm²) without crushing.



**CUTFOX 45** up to 45 mm Ø (up to 300 mm²)



CUTFOX 52 1212133 up to 52 mm  $\emptyset$  (up to 300 mm<sup>2</sup>)



**CUTFOX 62** 1212134 up to 62 mm  $\emptyset$  (up to 750 mm<sup>2</sup>)



Туре Order no. Cross-section



up to 100 mm Ø (up to 1400 mm²)



1212132

# **VDE** diagonal cutter

The protection-insulated diagonal cutters with their inductively hardened precision cuts ensure cutting results with long-term stability and thus a clean cut for both soft and hard wires (piano wire).



1212207





**CUTFOX-SP VDE** 

1212206

## **CUTFOX** cutting tools

#### **Special cutting tools**

The CUTFOX FBD cutting tool is suitable for removing individual bars of the FBD... plug-in bridges from the CLIPLINE complete modular terminal block range.

FB... screw bridges are cut without crushing with the CUTFOX FB.

Order no. Type **Cutting capacity** 



**CUTFOX-FBD** FBD... plug-in bridges 4 to ... 8 and Insertion bridges EB...



**CUTFOX FB** 1205985 FBI fixed bridges 10-6... FBI 10 - 12 mm<sup>2</sup>

#### **UNIFOX** universal tools

#### VDE combination pliers, pipe wrench

The protection-insulated combination pliers are available in straight and ergonomically angled forms with spring reset, interlocking gripping surfaces, integrated ring key M6 -M10 and blade.



1212202

1212204



Order no.

Order no.







**VDE** long nosed pliers

Туре

Type

The protection-insulated long nosed pliers

are available with straight pointed ends or angled at 45°. The gripping surfaces interlock and the integrated blades are hardened inductively.



UNIFOX-P VDE



UNIFOX-PC VDE

#### 1212205

#### VDE flat-nosed and round-nosed pliers

The VDE protection-insulated flat-nosed and round-nosed pliers are suitable for gripping, holding and bending. The gripping surfaces of the pliers are toothed.







UNIFOX-R VDE

1212364

Type

Order no.

## **CUTFOX** cutting tools

#### Wiring channel cutter

The PPS CD M wiring channel cutter cuts channels and covers up to a width of 125 mm and a wall thickness of 2.5 mm burr-free and non-cutting in seconds. A spring-mounted blade protection provides the necessary safety.



Туре	Order no.	PPS CD M	1207569	
Accessories				
Spare knife		PPS CD BLADE	1207572	
Spare counter support		PPS CD M COHO	1208995	
Workbench		PPS TABLE	1206285	
with plywood panel 700 x 1200 x 50 mm				

#### **Profile cutting tool**

with plywood panel 700  $\times$  1200  $\times$  50 mm

Туре

PPS BASIC I/M processes the common EN DIN rails. The PPS STANDARD and PPS CLASSIC can be equipped with two stamping bits for round holes or elongated holes. PPS CLASSIC is advantageous for hole formats that change frequently. By simply folding open the PPS... upper part, the stamping bits can be changed in no time at all.









		with inch/metric measuring rail	with metric measuring rail		with metric measuring rail	
Туре	Order no.		PPS CLASSIC I/M	1206256	PPS STANDARD I/M	1206230
			with inch/metric measuring rail		with inch/metric measuring rail	
Description		for standard DIN rails	each for standard DIN rails		each for standard DIN rails	
		NS15 / NS 35/7,5 / NS 35/15 / NLS-CU 3/10	NS15 / NS 32 / NS 35/7,5 / NS	35/15 /	NS15 / NS 32 / NS 35/7,5 / NS	35/15 /
			NLS-CU 3/10 and two bore ho	le dies	NLS-CU 3/10 and two bore hole	e dies
Accessories						
Stamping insert for elongated holes						
3.5 x 12 mm			PPS-ST (3,5x12)L	1203563	PPS-ST (3,5x12)L	1203563
4.5 x 12 mm			PPS-ST (4,5x12)L	1203534	PPS-ST (4,5x12)L	1203534
5.5 x 12 mm			PPS-ST (5,5x12)L	1202603	PPS-ST (5,5x12)L	1202603
6.35 x 15 mm			PPS-ST (6,35x15)L	1204876	PPS-ST (6,35x15)L	1204876
6.5 x 15 mm			PPS-ST (6,5x15)L	1202593	PPS-ST (6,5x15)L	1202593
Stamping bit for cross hole						
3.5 x 12 mm			PPS-ST (3,5x12)Q	1203550	PPS-ST (3,5x12)Q	1203550
4.5 x 12 mm			PPS-ST (4,5x12)Q	1203547	PPS-ST (4,5x12)Q	1203547
5.5 x 12 mm			PPS-ST (5,5x12)Q	1203411	PPS-ST (5,5x12)Q	1203411
6.5 x 15 mm			PPS-ST (6,5x15)Q	1203408	PPS-ST (6,5x15)Q	1203408
Stamping insert for bore holes						
3.8 mm Ø			PPS-ST (3,8)	1204892	PPS-ST (3,8)	1204892
4.3 mm Ø			PPS-ST (4,3)	1202616	PPS-ST (4,3)	1202616
5.3 mm Ø			PPS-ST (5,3)	1202629	PPS-ST (5,3)	1202629
6.4 mm Ø			PPS-ST (6,4)	1202632	PPS-ST (6,4)	1202632
7.0 mm Ø			PPS-ST (7,0)	1204889	PPS-ST (7,0)	1204889
8.4 mm Ø			PPS-ST (8,4)	1202726	PPS-ST (8,4)	1202726
Hydraulic cylinder						
for connection to an existing hydraulic system	n				PPS HYDRAULIC CYL	1208924
Operating pressure 160 – 220 bar					only for PPS standard	
Workbench						

PPS TABLE

# **WIREFOX**

# Stripping tools

The WIREFOX product range provides the perfect tool for every stripping task. The WIREFOX precision stripping tools from Phoenix Contact convince with their ergonomics and the special geometries of the hardened knives.

With maximum durability, you will always achieve consistent best results and are excellently prepared for the subsequent crimping procedure.





#### Precise and safe stripping

WIREFOX stripping pliers strip off all types of conductors and cables quickly, precisely and reliably. The relevant conductor crosssection is set automatically.



#### Creating conductor pick-off

WIREFOX-D-SHIELD stripping pliers allow cable cutouts and wire pick-offs to be created easily. These pliers are suitable for stripping shielded cables.



#### Multiple-stage stripping

CUTFOX-D CX stripping tools allow multiple-stage stripping of data and round cables in one step. The central fine setting for the stripping knife ensures that the cable is not damaged.

## **WIREFOX** stripping tools

#### Stripping pliers for conductors and lines

The WIREFOX stripping pliers are characterized by a mechanism that adjusts automatically to different kinds of insulation and conductor diameters. Particularly useful are the integrated wire cutter and the flexibly adjustable stop for the stripping

Туре	Order no.
Conductor / cable	[mm <sup>2</sup> ] / AWG
Stripping length up to	[mm]
Insulation type	
Wire cutter solid // stranded	[mm <sup>2</sup> ] / AWG

	-	-	
Accessories			
Spare knife			



WIREFOX 2.5	1212368
0.08 - 2.5 / 28 - 12	
15	
Standard	
2.5 / 14 // 6 / 10	

1212370

WIREFOX 2,5/WS
4

Order no.

[mm]

[mm²] / AWG



WIREFOX 4	1212156
0.01 - 4 / 28 - 12	
18	
Standard and special insulation. e.	g. PTFE
1.5 / 16 // 10 / 8	



WIREFOX 6SC	12121
0.1 - 6 / 28 - 10	
18	
Standard and short-circuit-proof	
1.5 / 16 // 10 / 8	



WIREFOX 10 0.2 - 10 / 24 - 8 18 Standard 1.5 / 16 // 10 / 8

1212152

WIREFOX 10/SB

1212314

Wire cutter solid // stranded	[mm <sup>2</sup> ] / AWG
Accessories	
Spare knife	

Type

Conductor / cable

Insulation type

Stripping length up to ...

WIREFOX 4/SB	1212151



	200
WIREFOX 16-1	1212157
6 - 16 / 8 - 5	
Any	
Standard	

Туре	Order no.
Conductor / cable	[mm²] / AWG
Stripping length up to	[mm]
Insulation type	
Wire cutter solid // stranded	[mm <sup>2</sup> ] / AWG

Insulation type	
Wire cutter solid // stranded	[mm²] / AWG
Accessories	
Spare knife	

WIREFOX 16	1212155
4 – 16 / 10 – 5	
18	
Standard	
1.5 / 16 // 10 / 8	

IREFOX 16/SB	121215

#### **VDE** stripping pliers

The VDE protection-insulated stripping pliers facilitate stripping of conductors up to 10 mm<sup>2</sup>. The adjusting screw with locking nut guarantees a consistent stripping quality for standard production.





DYE	
1000 V AC/ 1500 V DC	

WIREF	OX 10 VDE	1212366
0.2 - 10	/ 24 – 8	
20		
Standard		

## **WIREFOX** stripping tools

## Stripping pliers for cable cutouts and shield connections

The WIREFOX-D SHIELD is ideal for stripping wires for cable cutouts, wire pick-offs and shield connections.



Туре	Order no.
Conductor / cable diameter	[mm]
Max. insulation thickness	[mm]

WIREFOX-D SHIELD	1212172
8 – 9	

## Stripping pliers for AS-Interface flat-ribbon conductors

The WIREFOX ASI is ideal for quick and precise stripping of AS-Interface flat-ribbon conductors. The stripping length can be selected freely due to the shape of the pliers.



Туре	Order no.
Conductor / cable	
Stripping length	[mm]

( )	
WIREFOX ASI	1212154
AS-Interface flat-ribbon conductor	
Any	

## **WIREFOX** baring tools

#### Stripping tools for baring

The stripping tool WIREFOX-D 11 strips single and multicore signal, control and glass fiber wires with diameter up to 11 mm. The handling is extremely easy and guarantees precise stripping results.



Туре	Order no.	WIREFOX-D
Conductor / cable diameter	[mm]	2.5 – 11
Max. insulation thickness	[mm]	1.0

1212160

The universal stripping tool WIREFOX-D 13 offers a variety of functions:

- Stripping installation wires of 8-13 mm diameter, e.g. NYM 3 x 1.5 mm<sup>2</sup> up to NYM 5 x 2.5 mm<sup>2</sup>
- Single-wire stripping 0.2 4 mm<sup>2</sup>
- Integrated slitting knife

Conductor / cable diameter

Max. insulation thickness

• Extendable knife



WIREFOX-D 13	1212162
8 – 13	

Order no. Conductor / cable diameter [mm] Max. insulation thickness [mm]

In addition to standard cables, fiber optic cables can also be stripped using WIREFOX-D 16. The WIREFOX-D 40 stripping tool strips wires with a diameter of up to 40 mm. Round, longitudinal and





WIREFOX-D 16	1212173
4 – 16	
-	



WIREFOX-D 28 1212174 8 - 28



WIREFOX-D 40 4.5 - 404.5

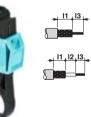
## Stripping tools for multi-stage stripping of co-axial cables

[mm]

[mm]

For extremely simple handling, the CUTFOX-D CX stripping tools facilitate multiple-stage stripping of data and round cables in one step. The central fine setting of the stripping knife means the cable is not damaged.





<b>Type</b> Or	rder no.			Spare knife accessories	
2-stage / strip-off dimension I1 = 6.0 mm		WIREFOX-D CX-1	1212163	WIREFOX-D CX-1/SB	1212303
2-stage / strip-off dimension I1 = 9.2 mm		WIREFOX-D CX-2	1212164	WIREFOX-D CX-2/SB	1212304
2-stage / strip-off dimension I1 = 12 mm		WIREFOX-D CX-3	1212165	WIREFOX-D CX-3/SB	1212305
2-stage / strip-off dimension I1 = 6.8 mm		WIREFOX-D CX-4	1212166	WIREFOX-D CX-4/SB	1212306
3-stage / strip-off dimension I1 = 5.5 mm and I2 = 5	5.5 mm	WIREFOX-D CX-5	1212167	WIREFOX-D CX-5/SB	1212307
3-stage / strip-off dimension I1 = 2.7 mm and I2 = 8	8.3 mm	WIREFOX-D CX-6	1212168	WIREFOX-D CX-6/SB	1212308
3-stage / strip-off dimension I1 = 6.0 mm and I2 = 6	6.0 mm	WIREFOX-D CX-7	1212169	WIREFOX-D CX-7/SB	1212309
3-stage / strip-off dimension I1 = 2.5 mm and I2 = 6	6.8 mm	WIREFOX-D CX-8	1212170	WIREFOX-D CX-8/SB	1212310
3-stage / strip-off dimension I1 = 3.5 mm and I2 = 7	7.5 mm	WIREFOX-D CX-9	1212171	WIREFOX-D CX-9/SB	1212311

# **CRIMPFOX**

# Crimping tools

The wide range of CRIMPFOX pliers represents a new generation of professional crimping pliers. A new power transmission principle reduces manual forces by 25% with maximum pressure. Optimum handle geometries support fatigue-free work. The integrated pressure lock guarantees gas-tight quality crimping with long-term stability.



#### **Professional crimping**

The comprehensive range of professional crimping pliers allows the processing of all contact types up to 120 mm<sup>2</sup>. An innovative construction and ergonomically designed handles reduce the required forces by up to 25%.



## **Quality crimping**

Precise die and an integrated pressure lock guarantee gas-tight quality crimping with long-term stability. The pressure lock releases automatically as soon as the required crimping pressure is attained.



## One for all

With replaceable dies, the universal crimping pliers from the CRIMPFOX series allow processing of different contacts up to 120 mm<sup>2</sup>. The dies can be replaced without an additional tool.

# Overview of connectors of crimping tools

	Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Pag
	CRIMPFOX 6	1212034	0.25 – 6	24 – 10 20 – 10	18
	CRIMPFOX 6S-F CRIMPFOX 6T	1212043 1212037	0.5 – 6 0.25 – 6	20 – 10	18 18
III	CRIMPFOX 61	1212037	0.25 – 6 0.25 – 6	20 – 10	18
W	CRIMPFOX 10S	1212038	0.14 – 10	20 – 10 25 – 7	18
	CRIMPFOX 6H	1212046	0.14 – 6	25 – 10	18
	CRIMPFOX 25R	1212039	10 – 25	8 – 4	18
	CRIMPFOX 50R	1212041	35 – 50	2 – 1	18
able lugs a	nd connectors				
	Crimping tool designation	Order no.	Conductor cross-section [mm <sup>2</sup> ]	Conductor cross-section [AWG]	Pag
	CRIMPFOX-RCI 1	1212055	0.14 – 1	26 – 18	19
	CRIMPFOX-RCI 2,5	1212053	0.75 – 2.5	20 – 14	19
	CRIMPFOX-RCI 6	1212057	0.75 – 6	20 – 10	19
	CRIMPFOX-RCI 6-1	1212059	0.75 – 6	20 – 10	19
on-insulate	ed cable lugs				
-	Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Pag
1	CRIMPFOX RC 2,5	1212063	0.75 – 2.5	20 – 14	19
100	CRIMPFOX RC 10	1212061	4 – 10	12 – 8	19
0	CRIMPFOX RC 25	1212065	4 – 10	12 – 8	19
	CRIMPFOX RCT 25-1 (tube lugs)	1212066	10 – 25	8 – 4	19
on-insulate	ed slip-on sleeves				
6.4	Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Pag
1	CRIMPFOX-SC 1,5	1212048	0.1 - 1.5	26 – 16	20
6.60	CRIMPFOX-SC 6L	1212052	0.5 – 6	22 – 10	20
	CRIMPFOX-SC 6	1212050	0.5 – 6	22 – 10	20
rned cont	acts				
0.00	Crimping tool designation	Order no.	Conductor cross-section [mm <sup>2</sup> ]	Conductor cross-section [AWG]	Pag
8	CRIMPFOX-TC 4	1212113	0.5 – 4	22 – 12	20
1	CRIMPFOX-TC 10	1212114	4 – 10	12 – 8	20
/					
oaxial con	nector / FO connector				
	Crimping tool designation	Order no.		ench size [mm]	Pag
1	CRIMPFOX-CX 4,52	1212094		25 / 4.52	20
1	CRIMPFOX-CX 6,48	1212095		41 / 6.48	20
7.40	CRIMPFOX-CX 9,14	1212096		23 / 9.14	20
78	CRIMPFOX-CX 10,54	1212097		10.54	20
-	CRIMPFOX-CX 10,90	1212098		10.90	20
	CRIMPFOX-FO 5,41	1212099	3.25 / 3.84 / 4	1.52 / 5.0 / 5.41	21
SUB cont					
11 0	Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Pag
	CRIMPFOX-DSUB 5	1212111	0.08 – 0.5	28 – 22	21
*					
imn-snan	in contacts				
rimp-snap-	-in contacts	O	Conductor areas assistant France	Conductor areas assistant FAVA/C3	D-
imp-snap	Crimping tool designation CRIMPFOX MT 2,5	Order no. 1204038	Conductor cross-section [mm $^2$ ] 0.5 – 2.5	Conductor cross-section [AWG]	Pag <b>21</b>



#### **Crimping pliers for ferrules**

The CRIMPFOX pliers are fitted with a pressure lock (unlockable). An innovative construction and ergonomically designed handles reduce the required manual forces. The self-adjusting CRIMPFOX 6T die automatically adapts to the connector size.





Order no. Type Conductor [mm<sup>2</sup>] / AWG

0.25 - 6 / 24 - 10

**CRIMPFOX 6T** 0.25 - 6 / 20 - 10 1212037

Spare die

CRIMPFOX 6/DIE

1212035 CRIMPFOX 6T/DIE 1212298

The self-adjusting die with front conductor entry of the crimping pliers automatically adapts to the connector size and is impressive due to a fast and reliable contact processing.





Order no. Type Conductor [mm²] / AWG

0.5 - 6 / 20 - 10

CRIMPFOX 6S-F/DIE

CRIMPFOX 6T-F 0.25 - 6 / 20 - 10

1212038

Accessories

Spare die

1212285

CRIMPFOX 6T-F/DIE

1212297

Great importance has been placed on energy-saving work with the compact crimping pliers. The way in which the handles and the die are arranged means that the ferrules can be fitted however the tool is held.





Туре Conductor

Order no. [mm²] / AWG

CRIMPFOX 6H 0.14 - 6 / 25 - 10 1212046

CRIMPFOX 10S 0.14 - 10 / 25 - 7

The crimping pliers help in processing ferrules up to 50 mm<sup>2</sup>. The ergonomically formed handles and the optimized mechanical transmission ensure optimum hold and reduce the force needed by 25%.





Order no. Conductor [mm<sup>2</sup>] / AWG

**CRIMPFOX 25R** 10 - 25 / 8 - 4

1212039 **CRIMPFOX 50R** 35 - 50 / 2 - 1

1212041

Accessories Spare die

CRIMPFOX 25R/DIE

1212040 CRIMPFOX 50R/DIE 1212042



Spare die

#### Crimping pliers for insulated cable lugs and connectors

A color marking on the die clearly allocates the cross-section of the CRIMPFOX RCI pliers. The precisely manufactured dies provide a uniformly high quality during the contact processing.







Туре	Order no.
Conductor	[mm <sup>2</sup> ] / AWG

1212055 CRIMPFOX-RCI 1 0.14 - 1 / 26 - 18

CRIMPFOX-RCI 2,5 0.75 - 2.5 / 20 - 14

1212054

CRIMPFOX-RCI 2,5/DIE

0.75 - 6 / 20 - 10

1212058

CRIMPFOX-RCI 6/DIE

The CRIMPFOX-RCI 6-1 is suitable for the asymmetrical crimping of insulated cable lugs and connectors.



	6 1
	CRIMPFOX-RCI 6-1
,	0.75 - 6 / 20 - 10

CRIMPFOX-RCI 1/DIE

1212059

1212056

[mm²] / AWG Conductor Accessories Spare die

CRIMPFOX-RCI 6-1/DIE

1212290



Accessories

Spare die

Spare die

Туре

### Crimping pliers for non-insulated cable lugs and tube lugs

Order no

The CRIMPFOX-RC is characterized by its compact and light design. The conductor entry is lateral. Three labeled die stations serve for precise processing of the relevant cross-sections.



CRIMPFOX-RC 2,5/DIE







Туре	Order no.
Conductor	[mm <sup>2</sup> ] / AWG

CRIMPFOX-RC 2,5 1212063 0.75 - 2.5 / 20 - 14

CRIMPFOX-RC 10 1212061 4 - 10 / 12 - 8

1212062

CRIMPFOX-RC 10/DIE

**CRIMPFOX-RC 25** 1212065 10 - 25 / 8 - 4

CRIMPFOX-RC 25/DIE

The CRIMPFOX-RCT 25-1 serves to process standard tube lugs.





1212064

7	نق
П	
м	

Туре	Order no.
Die station	[mm]

CRIMPFOX-RCT 25-1	
10 - 25 / 8 - 4	

1212066

1212300 CRIMPFOX-RCT 25/DIE

1212299



#### Crimping pliers for non-insulated slip-on sleeves

The CRIMPFOX-SC... serves to process non-insulated flat connectors and slipon sleeves up to 6 mm². The marked die stations ensure precise processing. The CRIMPFOX-SC 6L serves as an additional positioning aid.

Туре	Order no.
Conductor	[mm <sup>2</sup> ] / AWG
Accessories	
Spare die	



CRIMPFOX-SC 1,5

CRIMPFOX-SC 1,5/DIE

0.1 - 1.5 / 26 - 16



1212048

1212049

0.5 - 6 / 22 - 10

CRIMPFOX-SC 6/DIE





1212051



1212051

CRIMPFOX-SC 6L	1212052
0.5 - 6 / 22 - 10	

CRIMPFOX-SC 6/DIE



#### **Crimping pliers for turned contacts**

The CRIMPFOX-TC... are crimping pliers for processing turned contacts up to 10 mm<sup>2</sup>. The integrated locator serves in accurate positioning of the contacts with pin diameter of 1.6, 2.5 and 4 mm in the die.

Туре	Order no.
Conductor	[mm²] / AWG





Spare die		CRIMPFOX-TC 4/DIE	1212295	CRIMPFOX-TC 10/DIE	1212296
Accessories					
Conductor	[mm <sup>2</sup> ] / AWG	0.5 - 4 / 22 - 12		4 – 10 / 12 – 8	



#### Crimping pliers for coaxial connectors

The CRIMPFOX-CX... are crimping pliers for processing coaxial connectors. Equipped with a pressure lock, the pliers provide uniformly high quality crimping.

See page 15 for 2 and 3-stage stripping tools.









		/ 1		1		()	
Туре	Order no.	CRIMPFOX-CX 4,52	1212094	CRIMPFOX-CX 6,48	1212095	CRIMPFOX-CX 9,14	
Hexagonal wrench width							
Die stations 1 / 2 / 3	[mm]	1.69 / 3.25 / 4.52		1.69 / 5.41 / 6.48		1.73 / 8.23 / 9.14	
A							
Accessories							

Accessories							
Spare die		CRIMPFOX-CX 4,52/DIE	1212284	CRIMPFOX-CX 6,48/DIE	1212286	CRIMPFOX-CX 9,14/DIE	1212293
					• • • • • • • • • • • • • • • • • • •		
Туре	Order no.	CRIMPFOX-CX 10,54	1212097	CRIMPFOX-CX 10,90	1212098		
Hexagonal wrench size							

Туре	Order no.	CRIMPFOX-CX 10,54	1212097	CRIMPFOX-CX 10,90	1212098
Hexagonal wrench size					
Die stations 1 / 2	[mm]	2.54 / 10.54		2.54 / 10.90	
Accessories					
Spare die		CRIMPFOX-CX 10,54/DIE	1212291	CRIMPFOX-CX 10,90/DIE	1212292



#### **Crimping pliers for FO connectors**

The CRIMPFOX-FO serves to process FO connectors. The five marked die stations facilitate precise processing of different contact sizes.

Туре	Order no.
Hexagonal wrench size	
Die stations 1 – 5	[mm]
Accessories	
Snava dia	



CRIMPFOX-FO 5,41	1212099
3.25 / 3.84 / 4.52 / 5.0 / 5.41	

CRIMPFOX-FO 5,41/DIE 1212294



## Crimping pliers for D-SUB contacts

The CRIMPFOX-D SUB crimping pliers with integrated contact processes high density and standard contacts of 0.08 - 0.5 mm<sup>2</sup>.



Туре	Order no.	CRII
Conductor	[mm²] / AWG	0.08
Accessories		

CRIMPFOX-DSUB 5/DIE 1212287



Spare die

#### Crimping pliers for crimp snap-in contacts

following Phoenix Contact contacts from the COMBICON product range: 3190564 MSTBC-MT 0,5-1,0 3190551 MSTBC-MT 1,5-2,5 3190577 ICC-MT 0,5-1,0 3190580 ICC-MT 1,5-2,5 3190438 STG-MTN 0,5-1,0 3190506 STG-MTN 1,5-2,5

Туре	Order no.
Conductor	[mm²] / AWG
Accessories	
Spare die	

The CRIMPFOX MT 2,5 is designed for the



CRIMPFOX MT 2,5	120403
0.5 - 2.5 / 20 - 12	

CRIMPFOX MT 2,5 DIE	1208050

## Universal pliers for accommodating different crimp inserts

An excellent feature of the CRIMPFOX-M crimping pliers is the quick replacement of crimp inserts without the use of tools. The large number of inserts makes it a spacesaving universal tool for all applications.





уре	Order no.	CRIMPFOX-M	1212072	CRIMPFOX-M SET	121209
		Basic pliers without die		Contents: CRIMPFOX and die	s
				1212074, 1212079, 1212080,	1212081

Accessories					
Die, für ferrules					
0.25 - 10 mm <sup>2</sup>	CRIMPFOX-M 10/DIE	1212080	CRIMPFOX-M 10/DIE	1212080	(included in the set)
16 – 25 mm²	CRIMPFOX-M 25/DIE	1212081	CRIMPFOX-M 25/DIE	1212081	(included in the set)
35 - 50 mm <sup>2</sup>	CRIMPFOX-M 50/DIE	1212082	CRIMPFOX-M 50/DIE	1212082	
Die, for insulated cable lugs					
$0.5-1.5 \ mm^2 \ and \ 1.5-2.5 \ mm^2$	CRIMPFOX-M RCI 2,5/DIE	1212074	CRIMPFOX-M RCI 2,5/DIE	1212074	(included in the set)
$0.1 - 0.4 \text{ mm}^2$ and $4 - 6 \text{ mm}^2$	CRIMPFOX-M RCI 6/DIE	1212073	CRIMPFOX-M RCI 6/DIE	1212073	
Die, for non-insulated cable lugs					
0.75 - 2.5 mm <sup>2</sup>	CRIMPFOX-M RC 2,5/DIE	1212078	CRIMPFOX-M RC 2,5/DIE	1212078	
0.5 - 6 mm <sup>2</sup>	CRIMPFOX-M RC 6/DIE	1212079	CRIMPFOX-M RC 6/DIE	1212079	(included in the set)
4 – 10 mm²	CRIMPFOX-M RC 10/DIE	1212077	CRIMPFOX-M RC 10/DIE	1212077	
Die, for non-insulated slip-on sleeves					
0.1 – 1 mm <sup>2</sup>	CRIMPFOX-M SC 1/DIE	1212083	CRIMPFOX-M SC 1/DIE	1212083	
$0.5 - 2.5 \text{ mm}^2$	CRIMPFOX-M SC 2,5/DIE	1212084	CRIMPFOX-M SC 2,5/DIE	1212084	
0.5 – 6 mm <sup>2</sup>	CRIMPFOX-M SC 6/DIE	1212085	CRIMPFOX-M SC 6/DIE	1212085	
Die, for turned contacts					
$2.5-4.0\ \text{mm}^2/\ \text{cross-section}\ 0.14-4\ \text{mm}^2$	CRIMPFOX-M TC 4/DIE	1212075	CRIMPFOX-M TC 4/DIE	1212075	
$4.0 \text{ mm}^2/\text{ cross-section } 6-10 \text{ mm}^2$	CRIMPFOX-M TC 10/DIE	1212076	CRIMPFOX-M TC 10/DIE	1212076	
Die, for coaxial connectors					
RG 174, RG 179, BNC, TNC	CRIMPFOX-M CX 1/DIE	1212087	CRIMPFOX-M CX 1/DIE	1212087	
RG 58, RG 59, RG 62, RG 71, BNC, TNC	CRIMPFOX-M CX 2/DIE	1212088	CRIMPFOX-M CX 2/DIE	1212088	
CATV RG 6,59	CRIMPFOX-M CX 3/DIE	1212089	CRIMPFOX-M CX 3/DIE	1212089	
Die, for unshielded RJ45 connectors	CRIMPFOX-M RJ45/DIE	1212090	CRIMPFOX-M RJ45/DIE	1212090	
Die, for unshielded RJ11 connectors	CRIMPFOX-M RJ11/DIE	1212091	CRIMPFOX-M RJ11/DIE	1212091	
Die, for shrink butt connectors					
$0.1 - 0.4 \text{ mm}^2 \text{ and } 4 - 6 \text{ mm}^2$	CRIMPFOX-M HS-1/DIE	1212282	CRIMPFOX-M HS-1/DIE	1212282	

## Universal pliers for accommodating different crimp inserts

The wide variety of dies makes the CRIMPFOX-C ... universal crimping pliers up to 120 mm<sup>2</sup>. Easy fold back jaw holders allow quick replacement of dies. A mechanical drive system minimizes the force

95 mm<sup>2</sup>





		I		Λ		
Туре	Order no.	CRIMPFOX-C50	1212340	CRIMPFOX-C120	1212318	
Accessories: Die combinations for ferrules						
Upper part of die						
50 mm², 70 mm²				CRIMPFOX-C120 AI 70/M-DIE		
95 mm <sup>2</sup>				CRIMPFOX-C120 AI 95/M-DIE	1212336	
Lower part of die						
50 mm²				CRIMPFOX-C120 AI 50/F-DIE	1212337	
70 mm²				CRIMPFOX-C120 AI 70/F-DIE	1212338	
95 mm <sup>2</sup>				CRIMPFOX-C120 AI 95/F-DIE	1212339	
Accessories: Die combinations for non-insulated cable lugs	•					
Upper part of die						
6 – 35 mm²		CRIMPFOX-C50 RC 35/M-DIE	1212343			
6 - 70 mm²				CRIMPFOX-C120 RC 70/M-DIE	1212331	
Lower part of die						
25 mm <sup>2</sup>		CRIMPFOX-C50 RC 25/F-DIE	1212344			
35 mm <sup>2</sup>		CRIMPFOX-C50 RC 35/F-DIE	1212345			
10, 16, 25, 35 mm <sup>2</sup>				CRIMPFOX-C120 RC 35/F-DIE	1212332	
6, 50 mm <sup>2</sup>				CRIMPFOX-C120 RC 50/F-DIE	1212333	
10, 70 mm <sup>2</sup>				CRIMPFOX-C120 RC 70/F-DIE	1212334	
Accessories: Die pair for insulated cable lugs						
10 mm <sup>2</sup>		CRIMPFOX-C50 RCI 10/DIE	1212346	CRIMPFOX-C120 RCI 10/DIE	1212327	
16 mm <sup>2</sup>		CRIMPFOX-C50 RCI 16/DIE	1212347	CRIMPFOX-C120 RCI 16/DIE	1212328	
25 mm <sup>2</sup>		CRIMPFOX-C50 RCI 25/DIE	1212348	CRIMPFOX-C120 RCI 25/DIE	1212329	
35 mm <sup>2</sup>				CRIMPFOX-C120 RCI 35/DIE	1212330	
Accessories: Die pair for copper tube lugs	•					
35 mm <sup>2</sup>		CRIMPFOX-C50 RCT 35-1/DIE	1212341			
16, 35 mm <sup>2</sup>				CRIMPFOX-C120 RCT 35-1/DIE	1212320	
50 mm <sup>2</sup>		CRIMPFOX-C50 RCT 50-1/DIE	1212342			
25, 50 mm <sup>2</sup>				CRIMPFOX-C120 RCT 50-1/DIE	1212321	
10, 70 mm <sup>2</sup>				CRIMPFOX-C120 RCT 70-1/DIE	1212319	
95 mm²				CRIMPFOX-C120 RCT 95-1/DIE	1212322	
120 mm²				CRIMPFOX-C120 RCT 120-1/DIE	1212323	
Accessories: Pre-round die pair for sector cable						
25, 35 mm <sup>2</sup>		CRIMPFOX-C50 R25-35/DIE	1212349			
35, 50 mm <sup>2</sup>		CRIMPFOX-C50 R35-50/DIE	1212350			
50, 70 mm <sup>2</sup>		CRIMPFOX-C50 R50-70/DIE	1212351			
25, 50 mm <sup>2</sup>				CRIMPFOX-C120 R25-50/DIE	1212324	
35, 70 mm <sup>2</sup>				CRIMPFOX-C120 R35-70/DIE	1212325	

CRIMPFOX-C120 R95/DIE

1212326

## **CRIMPFOX – The right connectors for the CRIMPFOX series**

#### Ferrules with and without insulating collar

[mm<sup>2</sup>] / AWG

[mm²] / AWG

[mm<sup>2</sup>] / AWG

[mm<sup>2</sup>] / AWG

Ferrules from Phoenix Contact are available in different versions and color codes with and without plastic sleeves. All the versions are CSA-certified.

Description

Version

Color



0.25 - 35 / 24 - 2 according to DIN 46228-1

silver colored

0.25 - 120 / 24 - 5 according to DIN 46228-4/NF C 63-023

various color codes

For more technical data and drawings, see www.phoenixcontact.de/eshop

For more technical data and drawings, see www.phoenixcontact.de/eshop



Ferrules XL 1.5 – 16 / 16 – 6 large insulating collar diameter

various colors various colors



 $2 \times 0.5 - 2 \times 16 / 2 \times 20 - 2 \times 6$ large insulating collar diameter

#### Ring and fork-type cable lugs

The ring and fork-type cable lugs have a hard-soldered neck and attain maximum conductor pull-out forces in connection with the CRIMPFOX RC/...RCI pliers.



Ring cable lugs 1 - 240 / 18 - 500 silver colored



Ring cable lugs 1.5 - 10 / 16 - 8 various colors



Fork-type cable lugs 1.5 - 6 / 16 - 10 silver colored



Fork-type cable lugs 1.5 - 6 / 16 - 10 various colors

#### Slip-on sleeves, flat connectors

- EASY ENTRY easy and safe conductor entry
- · Hard-soldered crimping zone for maximum pull-out forces
- · Electrolytically tin-plated
- Halogen-free

Description

Version

Color

Description

Version

Color



Flat connectors 1.5 - 2.5 / 16 - 14 silver colored



Flat connectors 1.5 - 6 / 16 - 10 various colors

Slip-on sleeves 1 – 6 / 18 – 10 silver colored

For more technical data and drawings, see www.phoenixcontact.de/eshop



Slip-on sleeves 1.5 - 6 / 16 - 10 various colors

#### Flat pin and pin cable lugs

- EASY ENTRY easy and safe conductor entry
- · Hard-soldered crimping zone for maximum pull-out forces
- Electrolytically tin-plated
- · Halogen-free

Description

Version

Color



Flat pin cable lugs 1.5 - 6 / 16 - 10 various colors



Pin cable lugs 1.5 - 6 / 16 - 10 various colors

For more technical data and drawings, see www.phoenixcontact.de/eshop

## Tool and crimping sets



#### TOOL DATA SET

Order no. 1208856

#### Set for cutting, stripping and crimping

consisting of:

- Cable cutter for copper and aluminum with a diameter up to 12 mm, CUTFOX 12
- Stripping tool for stripping multicore signal, control and glass fiber wires of 2.5 11 mm diameter, WIREFOX-D11
- Basic pliers for accommodating dies for different contact types, CRIMPFOX-M
- Die for CRIMPFOX-M, for unshielded RJ45 connectors



#### **TOOL SET ALLROUND 2**

#### Set for cutting, stripping and crimping

consisting of:

- Cable cutter for copper and aluminum with a diameter up to 12 mm, CUTFOX 12
- Stripping tool for conductors and cables 0.02 10 mm<sup>2</sup>, WIREFOX 10
- Crimping pliers for ferrules for of 0.14-10 mm<sup>2</sup>, CRIMPFOX 10S



TOOL SET ALLROUND 3

#### Set for stripping, crimping and screwing

consisting of:

- Stripping tool for conductors and cables  $0.02-10~\text{mm}^2$ , WIREFOX 10
- Crimping pliers with integrated pressure lock for ferrules of  $0.5-6~\text{mm}^2$ , with self-aligned die, insertion from the front, CRIMPFOX 6S-F
- · Ferrules, 50 pcs. each:
- AI 0,5-8 WH
- AI 2,5-8 BU
- Ferrules, 100 pcs. each:
- AL 0.75-8 GY
- AI 1-8 RD
- AI 1,5-8 BK
- Screwdriver for slotted-head screws SZE 1-0 6X3 5



#### TOOL-KIT STANDARD

Order no. 1212422

#### Set for cutting, stripping, crimping and screwing

- Front cable cutter for copper and aluminum with a diameter up to 18 mm (up to 50 mm<sup>2</sup>) CUTFOX 18
- Stripping tool for stripping wires of 4.5 40 mm of diameter with insulating thickness up to 4.5 mm WIREFOX-D 40
- · Stripping pliers for stripping of conductors and cables of 0.02 - 10 mm<sup>2</sup> WIREFOX 10
- Crimping pliers for ferrules with self-aligned die, front conductor entry and unlockable pressure lock CRIMPFOX 6S-F
- Screwdriver SZF 1-0,6X3,5



#### CRIMPSET 6

Order no. 1202072

## Assortment box, metal

consisting of:

• Ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified

- AI 0.25-6 YE

- AI 0.34-6 TO
- AI 0,5-8 WH
- AI 0,75-8 GY
- AI 1-8 RD – AI 1,5-8 BK

300 pcs.:

– AI 2.5-8 BU

200 pcs.: - Al 4-10 GY

100 pcs.:

- Al 6-12 YE
- $\bullet\,$  Stripping tool for wires and conductors up to 6  $\text{mm}^2$ · Crimping pliers with integrated pressure lock for ferrules
- of  $0.5-6\ mm^2$ , insertion from the front



#### ALSORTI BOX RD Assortment box, red

Order no. 3202960

consisting of:

- Ferrules in accordance with DIN 46228-4, CSA-certified

  - AI 0.5-8 WH. AI 2.5-8 BU

100 pcs. each:

– AI 0,75-8 GY, AI 1-8 RD, AI 1,5-8 BK

For more assortment boxes see www.phoenixcontact.de/eshop

# **SCREWFOX**

Screwdriver and torque screwdriver

The screwdrivers from Phoenix Contact are adapted optimally to the terminal block screws. This and ergonomically designed handles facilitate the transmission of the required torques with adequate force. Finely adjustable torque and batterypowered screwdrivers round off the product range.



#### Maximum force transfer

Dual-component handles and handles with good grip ensure an optimum hold, thus making work fatigue-free.



#### Precise torque

The finely adjustable torque allows to customize various screw sizes optimally and ensures constant torque any time.



#### **Battery-powered screwdriver**

The extremely accurate battery-powered torque screwdriver, ASD 21 is the ideal one-hand tool for effectively connecting conductors to screw connections.

#### **SCREWFOX** screwdriver tools

## Screwdriver to actuate spring and quick connection terminal blocks

In addition to their standard applications, the screwdrivers of the SZF series are also suitable for actuating the modular terminal blocks of the ST... and QTC... series.





Туре	Order no.
Blade: $0.4 \times 2.5 \times 75$ mm, length: 156 mm	
Blade: $0.6 \times 3.5 \times 100$ mm, length: 181 mm	
Blade: $0.8 \times 4.0 \times 100$ mm, length: 198 mm	
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm	

SZF 0-0,4X2,5	1204504
SZF 1-0,6X3,5	1204517
SZF 2-0,8X4,0	1204520
SZF 3-1,0X5,5	1206612

ST-BW	1207608

#### Philips screwdriver, VDE Philips screwdriver

Screwdrivers from Phoenix Contact with their blades ensure a large bearing surface in the screw head. Only in this way can the required torque be achieved.





Туре	Order no.
Blade: $0.4 \times 2.0 \times 60$ mm, length: 157 mm	
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	
Blade: $1.0 \times 5.5 \times 150$ mm, length: 248 mm	
Blade: $0.4 \times 2.5 \times 75$ mm, length: 156 mm	
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm	
Blade: $0.4 \times 2.5 \times 75$ mm, length: 156 mm	
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm	
Blade: 0.4 x 2.5 x 75 mm, length: 156 mm	
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm	

SZS 0,4X2,0	1205202		
SZS 0,6X3,5	1205053		
		SZS 0,4X2,5	1205037
		SZS 0,5X3,0	1207404
		SZS 0,6X2,5	1205040
		SZS 1,0X4,0	1205066
		SZS 1,0X5,5	1209114
		SZS 1,0X6,5	1205079
		SZS 1,2X8,0	1205082

#### **VDE** screwdriver for test socket screws

The SZG ... screwdrivers are ideal for slipfree and safe drive of the test socket screws with 2.3 und 4 mm diameter.



Туре	Order no.
Blade: $0.6 \times 3.5 \times 100$ mm, length: 198 mm	
Blade: 0.9 x 6.5 x 175 mm, length: 287 mm	

SZG 0,6X3,5	1205121
SZG 0,9X6,5	1205134

#### VDE Phillips screwdrivers with Phillips and Pozidriv drive.

The VDE protection-insulated screwdrivers for Phillips screws are available in the Pozidriv / Supadriv and Phillips recess versions.





Туре	Order no.
Size: PZ0 x 80 mm, length: 161 mm	
Size: PZ1 x 80 mm, length: 161 mm	
Size: PZ2 x 100 mm, length: 205 mm	
Size: PH0 x 80 mm, length: 161 mm	
Size: PH1 x 80 mm, length: 161 mm	
Size: PH2 x 100 mm, length: 205 mm	

SZK PZ0	1206447
SZK PZ1	1206450
SZK PZ2	1206463

SZK PH0	1205147
SZK PH1	1205150
SZK PH2	1205163

## **SCREWFOX** screwdriver tools

#### **Screwdriver sets**





Туре	Order no.	SZ SORTI 1	1202085	SZ SORTI 2	1202098
Description		Screwdriver assortment		Screwdriver assortment	
		consisting of:		consisting of:	
		SZS 0,4X2,5	1205037	SZS 1,0X4,0	1205066
		SZS 0,6X2,5	1205040	SZS 1,0X6,5	1205079
		SZS 0,6X3,5	1205053	SZG 0,9X6,5	1205134
		\$7G 0 6Y3 5	1205121		

#### Socket wrench for hexagon head screws

Socket wrench for tightening hexagon head screws and nuts. Dual-component handles and handles with good grip ensure an optimum hold.



Туре	Order no.
Wrench size 5.5 mm	
Wrench size 8.0 mm	
Wrench size 13 mm	

SHN 5,5	1209855
SHN 8	1209868
SHN 13	1209923

## **VDE** socket wrench for hexagonal socket-head screws

With easy-to-handle and wide T-form of the fully insulated hexagonal socket-head Allen wrench, high tightening torques can be achieved.





Туре	Order no.
Wrench size 5 mm	
Wrench size 6 mm	
Wrench size 8 mm	

VDE-ISS 5	1203343
VDE-ISS 6	1201934
VDE-ISS 8	1201947

#### **Control cabinet key**

Universal control cabinet key with the following closures:

- 6 mm square
- 7 8 mm square
- 7 8 mm triangle
- 3 5 mm double



Order	no.
Oldei	110.

1203149
---------

Туре

#### **SCREWFOX** screwdriver tools

#### Torque screw driver with hexagonal fast connection

The extremely accurate torque screw drivers that can be set finely according to EN ISO 6789 are tailored to Phoenix Contact products with screw connection.

- TSD-M 1,2NM 0.3 - 1.2 Nm - TSD-M 3NM 1.2-3.0 Nm - TSD-M 6NM 3.0 - 6.0 Nm





туре	Order 110.	130-11 1,21411	1212227	13D-14 01414	1212220	
Туре	Order no.	TSD-M 3NM	1212225			
Accessories						
Tool bits for slotted-head screws						
Blade: 0.5 x 3.0 mm, length: 50 mm, tough b	out flexible	ASD BIT 0,5X3,0X50	1203961	ASD BIT 0,5X3,0X50	1203961	
Blade: 0.6 x 3.5 mm, length: 50 mm, tough b	out flexible	ASD BIT 0,6X3,5X50	1203974	ASD BIT 0,6X3,5X50	1203974	
Blade: 0.6 x 3.5 mm, length: 70 mm, tough b	out flexible	ASD BIT 0,6X3,5X70	1203987	ASD BIT 0,6X3,5X70	1203987	
Blade: 0.8 x 4.0 mm, length: 50 mm, tough b	out flexible	ASD BIT 0,8X4,0X50	1203990	ASD BIT 0,8X4,0X50	1203990	More tool bits
Blade: 1.0 x 5.5 mm, length: 50 mm, tough b	out flexible	ASD BIT 1,0X5,5X50	1204009	ASD BIT 1,0X5,5X50	1204009	see www.phoenixcontact.de/eshop

## **Battery-powered torque screwdriver**

The battery-powered screwdriver has the following characteristics:

- Right/Left rotation
- 2-gear transmission
- 21-level coupling with drilling levels of up to 600 rpm
- 6.5 mm hexagon fast connection drill chuck





				-		
Туре	Order no.	ASD 21	1208526	ASD 21 SET 120V	1208542	
				ASD 21 SET 230V	1208490	
Description		Adjustable from 0.3 – 4.4 Nm		consisting of:		
		Accuracy ± 5%		Battery-powered torque screw	driver	
		including power pack 1.2 Ah		incl. power pack		
				Charger 120 V or 230 V		
				Bits and user manual		
				Aluminum case		

Accessories					
Tool bits for slotted-head screws					
Blade: $0.5 \times 3.0$ mm, length: 50 mm, tough but flexible	ASD BIT 0,5X3,0X 50	1203961	ASD BIT 0,5X3,0X 50	1203961	
Blade: 0.6 x 3.5 mm, length: 50 mm, tough but flexible	ASD BIT 0,6X3,5X 50	1203974	ASD BIT 0,6X3,5X 50	1203974	
Blade: $0.6 \times 3.5$ mm, length: 70 mm, tough but flexible	ASD BIT 0,6X3,5X 70	1203987	ASD BIT 0,6X3,5X 70	1203987	
Blade: 0.8 x 4.0 mm, length: 50 mm, tough but flexible	ASD BIT 0,8X4,0X 50	1203990	ASD BIT 0,8X4,0X 50	1203990	More tool bits
Blade: 1.0 x 5.5 mm, length: 50 mm, tough but flexible	ASD BIT 1.0X5.5X 50	1204009	ASD BIT 1.0X5.5X 50	1204009	see www.phoenixcontact.de/eshop

## Hexagonal torque screwdriver with preset torque

The preset 4 mm hexagonal torque screwdrivers are suitable especially for tightening the pressure nuts and sensor / actuator cables of distributor boxes from the PLUSCON product range.





Туре	Order no.		
Blade: 0.4 x 2.5 x 75 mm, 0.2 Nm		TSD 02 SAC	1208487
Blade: 0.6 x 3.5 x 100 mm, 0.4 Nm		TSD 04 SAC	1208429
Blade: 0.8 x 4.0 x 100 mm, 2.0 Nm		TSD 20 SAC	1212020
Blade: 1.0 × 5.5 × 150 mm, 2.5 Nm		TSD 25 SAC	1212315

Accessories: Nuts for		
Cable, M8 plug connector	SAC BIT M8-D10	1208461
self assembled cable, M8 connector	SACC BIT M8-D12	1208474
Cable, M12 connector	SAC BIT M12-D15	1208432
Cable, M12 connector	SACC BIT M12-D20	1208445
Pressure nuts, wrench size 13 mm	SAC BIT QUICKON-W13	1212033
Pressure nuts, wrench size 24 mm	SAC BIT HOOD-W24	1212486

# **TESTFOX**

Measuring and testing devices

High-quality measuring tools are available with the TESTFOX multimeters, current pliers and voltage testers that are tested and approved as per the nationally and internationally applicable standards.

They allow measurement of all standard measurement types and serve as the ideal solution in all fields of application, electrical installation and the service.





#### Wide range of functions

The TESTFOX M-1 offers all standard measurement types and temperature measurements in a compact housing.



#### Versatile use

The TESTFOX CC-1 also allows measurement of low AC/DC currents above 10 mA and is ideal in the area of photovoltaics.



#### **Measuring without errors**

A load can be connected through two pushbuttons in order to rule out erroneous measurements due to reactive voltage.

## **TESTFOX** testing and measuring devices

The DUSPOL EXPERT voltage and continuity tester has the following features:

- Single-pos. test of the phase conductor (phase)
- Measuring point lighting
- Acoustic and optical continuity test
- · Load connection using a pushbutton
- Vibration alarm for safe voltage detection
- Surge voltage category CAT IV 500 V as per IEC/EN 61243-3





DUSPOL EXPERT	1209091	
12 750		
12 690		For further technical data, see
IP64		www.phoenixcontact.de/eshop

Order no. Туре [V DC] Voltage range [V AC] Voltage range Protection class

The current pliers can be used in the case of voltages of up to 600 V, category III. They combine the functions of a digital multimeter with those of current pliers in a compact and practical IP30 housing. All measuring ranges are overload-protected.



6 ... 400

6 ... 400

IP65



Туре	Order no.	TESTFOX CC	1212210	TESTFOX CC-1	1212211	
Display scope		2000 digits		4000 digits		
Display accuracy		1,0%		0,5%		
Voltage AC		0.1 mV - 600 V		0.1 mV - 600 V		
Voltage DC		0.1 mV - 600 V		0.1 mV - 600 V		
Current AC		0.1 A - 400 A		10 mA - 300 A		
Current DC		-		10 mA - 300 A		
Resistance		0,1 $\Omega$ – 20 M $\Omega$		0,1 $\Omega$ – 40 M $\Omega$		For further technical data, see
Continuity test		Acoustic (20 Ω)		Acoustic (50 Ω)		www.phoenixcontact.de/eshop

1209101

The digital multimeters with volt sensor function are impressive due to their technology and their quality. They are tested and approved as per the internationally applicable standards IEC/EN 61010. The devices can be used in the case of voltages of up to 600 V, category III or 1000 V, category II.





Туре	Order no.	TESTFOX M	1212208	TESTFOX M-1	1212209	
Display scope		2000 digits		2000 digits		
Display accuracy		0.5%		0.5%		
Volt sensor		yes		yes		
Voltage AC		0.1 mV – 750 V		0.1 mV - 750 V		
Voltage DC		0.1 mV - 1000 V		0.1 mV - 1000 V		
Current AC		-		1 mA – 10 A		
Current DC		_		1 A – 10 A		
Resistance		0.1 Ω – 20 Μ Ω		0.1 Ω – 20 M Ω		
Continuity test		Acoustic (25 Ω)		Acoustic (25 Ω)		
Frequency		-		1 Hz – 20 MHz		
Capacitance		_		1.00 pF – 2.00 mF		
Temperature		-		-20°C – 800°C		For further technical data, see
Diode test		Yes (1.5 mA)		Yes (1.5 mA)		www.phoenixcontact.de/eshop

Automatic cutting, stripping and crimping devices

For the automation of steps for flexible and quick processing of conductors and cables, Phoenix Contact offers a comprehensive range of innovative automatic tools. In this way, functionality, quality and quick retooling times ensure high flexibility for consistently high results.





Stripping automatically



Crimping automatically



Stripping and crimping automatically



The CUTFOX 10 automatic cutting device cuts conductors and lines up to 10 mm<sup>2</sup>. Solid and stranded conductors are cut to within a millimeter. The length and the number of sections are entered via the userfriendly display. The CUTFOX 10 adjusts automatically to the diameter when material is changed.



The automatic stripping device WF 1000 enables automatic stripping with the option of partial stripping of conductors of up to 6 mm<sup>2</sup> or lines up to 6 mm Ø. The stripping dimensions are individually set via dials and are displayed on the display.



The ZAP crimping pliers are pneumatic pliers for ferrules with a cross-section of 0.25 to 10 mm<sup>2</sup>. Crimping is triggered, depending on the version, via a foot valve or manual release. Two integrated receptacles ensure quick access to the ferrules.



The CF 500 is characterized by a high compression capacity in a compact design. A simple and quick replacement option of dies makes it suitable for processing a variety of contact types of up to 50 mm<sup>2</sup>.



The automatic stripping and crimping device CF 1000 processes loose (bulk) taped ferrules with insulating collars in accordance with DIN 46228-44. Using this machine, conductors can be stripped and fitted with ferrules in one operation.



The automatic stripping and crimping device CF 3000-2,5 processes taped ferrules with insulating collars in accordance with DIN 46228-44. Using this device, conductors in the cross-section range from 0.25 - 2.5 mm<sup>2</sup> can be stripped and fitted with ferrules in one operation. Modifying automatic devices to different cross-sections is possible within a minute.

**CUTFOX 10** 

#### **CUTFOX 10** automatic cutting device

The automatic cutting device CUTFOX 10 offers you the possiblity to cut various conductors. The desired length and number are entered via a user-friendly display and the automatic device is ready to start.

The front cover only needs to be opened to introduce the conductor ends. The drive and guide rolls are automatically set to the relevant defined diameter.

The application video can be downloaded from the e-shop menu on the Internet.





Туре	Order no.		
Automatic cutting device, 230 V, 50 Hz version		CUTFOX 10	1206829
for conductors and cables up to 8 mm Ø			
solid (up to 2.5 mm²) and stranded (up to 10 mm²)			
Automatic cutting device, 120 V, 60 Hz version		CUTFOX 10 120 V	1206832
for conductors and cables up to 8 mm Ø			
solid (up to 2.5 mm²) and stranded (up to 10 mm²)			
Cable roller for CUTFOX 10		CUTFOX 10 C-UN	1208393
Cable unwinders for accommodating cable rings and cable coils			

Cable unwinders for accommodating cable rings and cable coils		
Technical data		
Dimensions, width / length / height	[mm]	195 / 295 / 230
Weight	[kg]	11
Power consumption	[VA]	80
Fine strand	[mm²]	0.25 – 10
Single-strand	[mm²]	0.25 – 2.5
Max. throughput	[mm]	8
Cross-section range		Automatic
Maximum number of cuts	[Stck.]	99999
Length	[mm]	2 99999
Feed rate	[m/s]	0.5
Unit of measurement		mm/inch
Dialog language		German / English / French / Italian
Automatic cutting device accessories		
Spare drive wheels		<b>CF-10 WHEEL SET</b> 1207271
2 pcs., for CUTFOX 10		
Spare knife set		CF-10 CUTTER KNIFE SET 1207284

Spare drive wheels	CF-10 WHEEL SET	120/2/1
2 pcs., for CUTFOX 10		
Spare knife set	CF-10 CUTTER KNIFE SET	1207284
for CUTFOX 10		
Cable unwinder accessories		
Spare turntable for cable unwinders	CUTFOX 10 R-C	1208403
for the accommodation and spring-mounted unwinding of cable rings and cable coils		
Spare holding arms for turntables	CUTFOX 10 BAR	1208416
Turntable, 4 arms for turntable		

#### WF 1000 automatic stripping device

The compact automatic stripping device WF 1000 is suitable for automatic stripping with the option of partial stripping of conductors of thicknesses of 0.08 to 6 mm<sup>2</sup> or also multi-strand lines with a diameter up to 6 mm<sup>2</sup>. Even for special isolations such as PTFE and silicone, this automatic device is particularly suitable. The clamping force is automatically set to the required withdrawal force. Unsightly pressure points on sensitive materials are thus prevented. The large and clear display on the top side of the device simplifies the correct setting.

The application video can be downloaded from the e-shop menu on the Internet.



WF 1000			100
Туре	Order no.		
Automatic stripping device, 230 V version		WF 1000	1212149
Version for conductors and lines			
solid and stranded 0.08 – 6 mm² (max. Ø 6 mm)			
with integrated graphic display			
Automatic stripping device, 120 V version		WF 1000 120 V	1212258
Version for conductors and lines			
Solid and stranded 0.08 - 6 mm² (max. Ø 6 mm)			
with integrated graphic display			
Technical data			
Dimensions, width / length / height	[mm]	141 / 363 / 221	
Weight	[kg]	9.5	
Power consumption	[VA]	160	
Working cycle	[s]	0.3	
Compression		trapezoidal	
Fine strand	[mm²]	0.08 – 6	
Stripping length	[mm]	3 – 20	
Part of the stripping length	[mm]	2 – 20	
Max. throughput	[mm]	6	
Accessories			40.40070
Spare stripping knife		WF 1000/SB	1212279

#### **ZAP** pneumatic crimping pliers

The ZAP crimping pliers are pneumatic pliers for ferrules with a cross-section of 0.25 to 10 mm<sup>2</sup>. The ZAP 25 has a Duo-Press die, allowing both front and lateral cable insertion.

The ZAP 25 T and ZAP 100 T have been developed especially for preassembly of conductors. The crimping process is triggered by a foot valve. Two integrated receptacles ensure quick access to the ferrules.





ZAP...

ZAP ... T

#### **ZAP 25 / ZAP 100**



				•	
Туре	Order no.				
Pneumatic crimping pliers		ZAP 25	1203110	ZAP 100	1203259
For ferrules according to DIN 46228					
Technical data					
Conductor	[mm²] / AWG	0.25 - 2.5 / 24 - 14		4 – 10 / 12 – 8	
Pressure range	[bar]	4 – 6		4 – 6	
Air consumption per compression	[1]	0.2		0.2	
Compression		trapezoidal		trapezoidal	

#### **ZAP 25 T / ZAP 100 T**



Туре	Order no.				
Pneumatic crimping pliers		ZAP 25 T	1203123	<b>ZAP 100 T</b>	1203262
For ferrules according to DIN 46228					
Technical data					
Conductor	[mm <sup>2</sup> ] / AWG	0.25 - 2.5 / 24 - 14		4 - 10 / 12 - 8	
Pressure range	[bar]	4 – 6		4 – 6	
Air consumption per compression	[1]	0.2		0.2	
Compression		trapezoidal		trapezoidal	

## CF 500 automatic crimping device

The compact automatic crimping device CF 500 is impressive due to its high press capacity and the easy replaceability of its dies. The automatic device is an all-rounder due to its large number of dies.

- Ferrules of up to 50 mm<sup>2</sup>
- TWIN ferrules of up to 2 x 10 mm<sup>2</sup>
- Insulated cable lugs of up to 6 mm<sup>2</sup>
- Non-insulated cable lugs up to 6 mm<sup>2</sup>
- Tube lugs up to 10 mm<sup>2</sup>
- Slip-on sleeves and flat connectors of up to 6 mm<sup>2</sup>
- Turned contacts of up to 10 mm<sup>2</sup>

More dies are available on request or in the Phoenix Contact e-shop. The application video can be downloaded from the e-shop menu on the Internet.

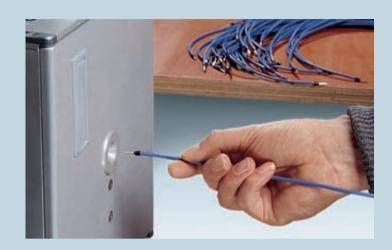


CF 500		1	
Туре	Order no.		
Automatic crimping device, 230 V design, with foot pedal		CF 500-230 V	1208348
Automatic crimping device, 120 V design, with foot pedal		CF 500-120 V	1208351
Technical data			
Dimensions, width / length / height	[mm]	140 / 220 / 320	
Weight	[kg]	10	
Power consumption	[VA]	160	
Crimping pressure / working cycle	[kN] / [s]	10 / 1	
Accessories			
CF 500 die for			
Ferrules (A and Al) 0.25 – 6 mm <sup>2</sup>		CF 500/DIE AI 6	1212238
Ferrules (A and Al) 10, 16 and 25 mm <sup>2</sup>		CF 500/DIE AI 25	1212239
Ferrules (A and Al) 35 and 50 mm <sup>2</sup>		CF 500/DIE AI 50	1212261
TWIN ferrules (A-TWIN) 2 x 4, 2 x 6 and 2 x 10 mm <sup>2</sup>		CF 500/DIE AI-TWIN 10	1212262
Insulated cable lugs (RCI and FCI) 0.14 – 1.5 mm <sup>2</sup>		CF 500/DIE RCI 1,5	1212263
Insulated cable lugs (RCI and FCI) 0.5 – 6 mm <sup>2</sup>		CF 500/DIE RCI 6	1212240
Cable lugs (RC and FC) 0.5 – 10 mm <sup>2</sup>		CF 500/DIE RC 10	1212244
Cable lugs (RC and FC) 16 mm <sup>2</sup>		CF 500/DIE RC 16	1212257
Slip-on sleeves and flat connectors (SCF and SCM) 0.1 – 1.5 mm <sup>2</sup>		CF 500/DIE SC 1,5	1212241
Slip-on sleeves and flat connectors (SCF and SCM) 0.5 – 6 mm <sup>2</sup>		CF 500/DIE SC 6	1212242
Turned contacts with pin diameters 2.5 and 4.0 mm (CK 2,5 and CK 4,0	0) 0.14 – 4 mm <sup>2</sup>	CF 500/DIE TC 4	1212237
Turned contacts (CK 4,0) 6 – 10 mm <sup>2</sup>		CF 500/DIE TC 10	1212260
CF 500 locator (positioning help) for			
Slip-on sleeves (SCF) W: 2.8 mm, L: 5 mm		CF 500/LOC SCF 2,8/1,5	1212249
Slip-on sleeves (SCF) W: 4.8 mm		CF 500/LOC SCF 4,8/2,5	1212248
Slip-on sleeves (SCF) W: 0.5 – 2.5 mm <sup>2</sup>		CF 500/LOC SCF 6,3/2,5	1212264
Slip-on sleeves (SCF) W: 6.3 mm		CF 500/LOC SCF 6,3/6	1212247
CF 500 protective cover for			
Ferrules up to 6 mm <sup>2</sup> (Al 6)		CF 500/COV AI 6	1212254
TWIN ferrules (AI-TWIN)		CF 500/COV AI-TWIN	1212266
Insulated cable lugs (RCI)		CF 500/COV RCI	1212255
Tube lugs 0.5 – 10 mm <sup>2</sup>		CF 500/COV RC 10	1212252
Tube lugs 0.34 – 2.5 mm <sup>2</sup>		CF 500/COV RCT 2,5	1212253
Slip-on sleeves and flat connectors SC1.5 and SC6		CF 500/COV SC	1212251
Without recess (for all dies without assignment)		CF 500/COV	1212250

#### CF 1000 crimping machine

The stripping and crimping machine CF 1000 processes loose ferrules with insulating collars as per DIN46228-4. This automatic device can process up to 1200 conductors per hour. In only one work step, the conductor is stripped and quality-crimped with a ferrule. Additional features include:

- Rugged structure
- Processing of loose ferrules (Al...)
- Fast cross-section change without additional setting measures
- Quantity counter
- Suitable for mass processing



CF 1000			
Туре	Order no.		
Stripping and crimping machines, 230 V version		CF 1000-1,5 230 V	1208199
Electro-pneumatic, for loose ferrules with insulating collar, 0.34 – 4 mm <sup>2</sup>			
Incl. modification sets 0.5 – 1.5 mm² (stripping length 8 mm)			
Stripping and crimping machines, 120 V version		CF 1000-1,5 120 V	1208209
Electro-pneumatic, for loose ferrules with insulating collar, 0.34 – 4 mm <sup>2</sup>			
Incl. modification sets 0.5 – 1.5 mm² (stripping length 8 mm)			
Technical data			
Dimensions, width / length / height	[mm]	240 / 490 / 390	
Weight	[kg]	29	
Air consumption per compression	[1]	1.2	
Working cycle	[s]	1.5	
Crimping pressure	[kN]	10	
Compression		trapezoidal	
Accessories			
Expansion set, complete for CF 1000,			
For loose ferrules with insulating collar			
0.25/0.34 mm², stripping length 6 mm		CF 1000-TOOLKIT 0,34/6	1208212
0.25/0.34 mm², stripping length 8 mm		CF 1000-TOOLKIT 0,34/8	1208225
2.5 mm², stripping length 8 mm		CF 1000-TOOLKIT 2,5/8	1208241
4 mm <sup>2</sup> , stripping length 10 mm		CF 1000-TOOLKIT 4,0/10	1208270
Spare knife, V-form, for CF 1000		CF-EM	1205215

#### CF 3000 stripping and crimping machine

The automatic stripping and crimping device CF 3000-2,5 processes taped ferrules with insulating collars according to DIN 46228-4. The device covers the cross-section range from  $0.25 - 2.5 \text{ mm}^2$ . In just one step, the ferrule is stripped and then immediately processed. The change-over of the automatic devices to different cross-section ranges is possible within a minute.

The application video can be downloaded from the e-shop menu on the Internet.



CF 3000			
Туре	Order no.		
Automatic stripping and crimping device, 230 V version		CF 3000-2,5	1205477
Taped ferrules 0.25 – 2.5 mm², stripping length 8 mm			
Incl. modification sets 0.5 – 2.5 mm <sup>2</sup>			
Automatic stripping and crimping device, 120 V version		CF 3000-2,5 120V	1205516
Taped ferrules 0.25 – 2.5 mm², stripping length 8 mm			
Incl. modification sets 0.5 – 2.5 mm² (stripping length 8 mm)			
Technical data			
Dimensions, width / length / height	[mm]	165 / 320 / 300	
Weight	[kg]	12	
Conductor	[mm²] / AWG	0.25 - 2.5 / 22 - 14	
Power consumption	[AV]	80	
Working cycle	[s]	1.2	
Compression		trapezoidal	
Accessories			4040074
Expansion set, complete for CF 3000		CF 3000-TOOLKIT 0,25	1212376
For insulated taped, 0.25/0.34 mm <sup>2</sup>			
Stripping length 8 mm			
Spare locator			
0.25/0.34 mm <sup>2</sup>		CF 3000 LOC 0,25	1212377
0.5 mm <sup>2</sup>		CF 3000 LOC 0,5	1205639
0.75 mm <sup>2</sup>		CF 3000 LOC 0,75	1205642
1.0 mm <sup>2</sup>		CF 3000 LOC 1,0	1205655
1.5 mm <sup>2</sup>		CF 3000 LOC 1,5	1205668
2.5 mm <sup>2</sup>		CF 3000 LOC 2,5	1205671
Spare knife			404000
0.25/0.34 mm <sup>2</sup> , adjustable		CF 3000 AB 0,25	1212380
0.5 mm <sup>2</sup>		CF 3000 AM 0,5	1205587
0.75 mm <sup>2</sup>		CF 3000 AM 0,75	1205590
1.0 mm <sup>2</sup>		CF 3000 AM 1,0	1205600
1.5 mm <sup>2</sup>		CF 3000 AM 1,5	1205613
2.5 mm <sup>2</sup>		CF 3000 AM 2,5	1205626

## www.phoenixcontact.de/catalog



Or contact us directly!

Industrial connection technology, marking systems and mounting material CLIPLINE Connection method for field devices and field cabling **PLUSCON** Device connection technology and electronic housing COMBICON Surge protection **TRABTECH** Signal converters, switching devices, power supply units **INTERFACE** Components and systems **AUTOMATION** 

PHOENIX CONTACT GmbH & Co. KG 32823 Blomberg, Germany

Phone: +49/5235/3-00 Fax: +49/5235/3-1 07 99 www.phoenixcontact.com

