TOOL fox

The right tool for every application

PHOENIX CONTACT
INSPIRING INNOVATIONS

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 9,900 people all over the world, more than 5,500 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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Quality at the tip of your fingers

- 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.

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.

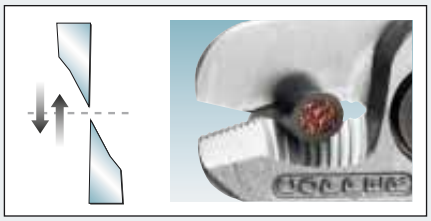
A correct processing of conductors and lines of different size, shape and insulation can be achieved permanently only with quality tools. Low manual exertion of force with maximum exploitation of force in the cutting area is guaranteed by an optimal transmission of lever action.

If conductors and lines are to be cut in the upper cross-section range of up to 1400 mm², 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.

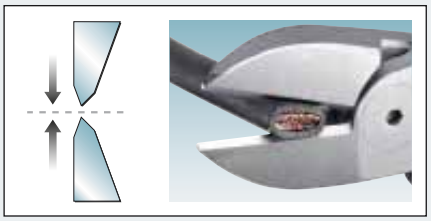
For both versions with direct and indirect power transmission, the specifically designed cutting edge geometries support smooth running and ensure a right-angled and burr-free cut. Accidental deformation of the conductor is thus counteracted. The cutting described above, also called shear cutting, is 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/mm² 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

Stripping

Stripping is the next step in the manufacturing process of reliable crimping. A distinction is made between stripping and dismantling.

Stripping is used both as a generic term and to mean removing the insulation of conductors up to 16 mm². Dismantling describes the stripping process for large conductor cross-sections and multi-strand and multilayered lines and cables.

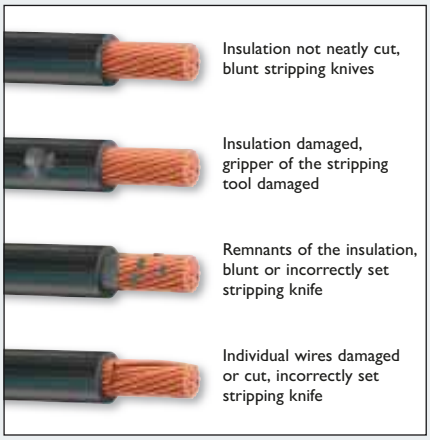
A suitable stripping and dismantling tool removes the insulation sections accurately and quickly. The terminal point or the connector determines the length of the insulation to be removed. This is set using adjustable limit stops and ensures consistent stripping lengths.

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.

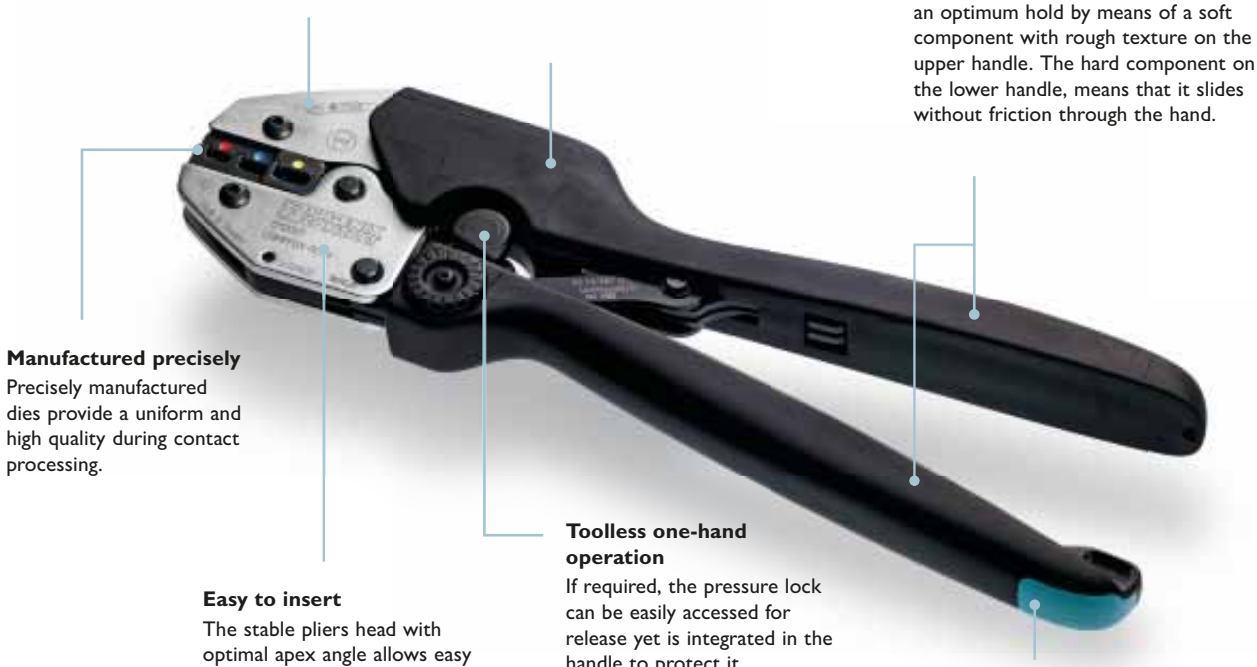
For subsequent assessment of crimping results, refer to the regulations DIN EN 60352-2 and 60999-1. In addition to a variety of electrical and mechanical tests, conductor pull-out tests are the decisive criterion.

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
A diagram of the connectors to be processed ensures an easy optical allocation.

25% power saving
Innovative mechanics reduce the force by 25%. Even large cross-sections can be safely crimped using little force.

Ergonomic handling
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.

Easy to insert
The stable pliers head with optimal apex angle allows easy insertion of connectors of even larger cross-sections.

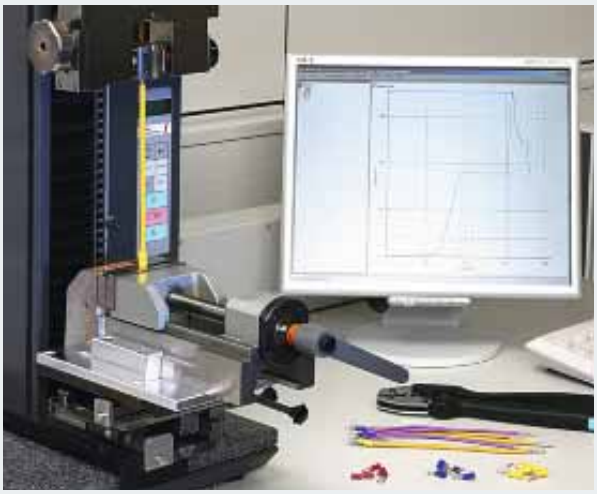
Toolless one-hand operation
If required, the pressure lock can be easily accessed for release yet is integrated in the handle to protect it.

Non-slip pressure pad
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 cross-section 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	N
0.14		18
	24	28
⋮	⋮	⋮
1.0		108
	16	135
⋮	⋮	⋮
6.0		360
	8	370

Minimum pull-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_2 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

The front cable cutter ensures optimal cutting results in the cross-section range of a 35 mm diameter (300 mm²) by special cutting tool geometries. Handles with ergonomic grip support fatigue-free work.

Type	Order no.	CUTFOX 12	1212128	CUTFOX 16 VDE	1212126	CUTFOX 18	1212129
Cross-section		up to 12 mm Ø (up to 35 mm²)		up to 16 mm Ø (up to 50 mm²)		up to 18 mm Ø (up to 50 mm²)	

Type	Order no.	CUTFOX 25 VDE	1212127	CUTFOX 25	1212130	CUTFOX 35	1212131
Cross-section		up to 25 mm Ø (up to 70 mm²)		up to 25 mm Ø (up to 185 mm²)		up to 35 mm Ø (up to 300 mm²)	

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.

Type	Order no.	CUTFOX 45	1212132	CUTFOX 52	1212133	CUTFOX 62	1212134
Cross-section		up to 45 mm Ø (up to 300 mm²)		up to 52 mm Ø (up to 300 mm²)		up to 62 mm Ø (up to 750 mm²)	

Type	Order no.	CUTFOX 100	1212135
Cross-section		up to 100 mm Ø (up to 1400 mm²)	

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).

Type	Order no.	CUTFOX-S VDE	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.

Type	Order no.	CUTFOX-FBS	1212124	CUTFOX FB	1205985	
Cutting capacity		FBD… plug-in bridges 4 to … 8 and Insertion bridges EB…		FBI fixed bridges 10-6… FBI 10 – 12 mm²		

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.

Type	Order no.	UNIFOX-C VDE	1212202	UNIFOX-CE VDE	1212203	UNIFOX-WP	1212365

VDE needle-nose pliers, flat and round-nose pliers

The protection-insulated needle-nose pliers are available with straight pointed ends or angled at 45°. The gripping surfaces interlock and the integrated blades are hardened inductively.

The gripping surfaces of the flat/round-nose pliers are toothed.

Type	Order no.	UNIFOX-P VDE	1212204	UNIFOX-PC VDE	1212205	UNIFOX-F VDE	1212363
Type	Order no.					UNIFOX-R VDE	1212364

Blind rivet pliers

UNIFOX-RVT M blind rivet pliers

The pliers have one compact ergonomic and angled pliers head with three inserts for rivet diameter.

2.4 – 3.2 mm, 4 mm and 4.8 – 5.0 mm

For further information on blind rivets, see www.phoenixcontact.net/catalog

Type	Order no.	UNIFOX-RVT M	1212476				

CUTFOX cutting tools

Cable duct cutter/scissors

The PPS CD M cable duct 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.

The scissors enable a cutting length of 75 mm and have a limit stop of 45°.

Type	Order no.					
		PPS CD M	1207569	**CUTFOX-CD**	1212474	
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

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.

Type	Order no.						
		PPS BASIC I/M	1207585	**PPS CLASSIC M**	1206243	**PPS STANDARD M**	1206175
		with inch/metric measuring rail		with metric measuring rail		with metric measuring rail	
Type	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 hole dies		NLS-CU 3/10 and two bore hole 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						**PPS HYDRAULIC CYL**	1208924
Operating pressure 160 – 220 bar						only for PPS standard	
Workbench							
with plywood panel 700 x 1200 x 50 mm		**PPS TABLE**	1206285	**PPS TABLE**	1206285	**PPS TABLE**	1206285

MICROFOX
Electronic pliers

MICROFOX – The pliers program for all activities in the electronics and electromechanics field. It is ideal for processing difficult-to-access areas such as PCB components.

Like all manual tools from Phoenix Contact, even the micro-pliers are equipped with specially shaped two-component handles. They ensure safe grip and fatigue-free operation. We recommend that you use the ESD versions with special handles in order to safeguard sensitive electronic components. They discharge the electrostatic loads in a controlled manner as per the prevalent standards and regulations.

Durable

The tools are made of special tool steel C 60, hardened and ground to precision. They thus attain high cutting efficiency and are extremely durable.

Sensitive

The integrated double sheet spring and the ergonomic, non-slip handle enables accurate and delicate processing of electronic components.

Protective

The handles of the MICROFOX… ESD electronic pliers are made of conductive plastic. Electrostatic energy is thus discharged slowly and in a controlled manner.

MICROFOX electronic pliers

Electronic pliers

The MICROFOX electronic pliers have a box joint for constant stability and an optimum force path. The surfaces are finely polished and oiled.

Type	Order no.	MICROFOX -SB	1212489
Description		Diagonal cutters	
		Round head with bevel	
Type	Order no.	MICROFOX-SP	1212488
Description		Needle-nose pliers	
		Pointed head with bevel	

Type	Order no.	MICROFOX E	1212494
Description		Front cutter	
		Without bevel	
Type	Order no.	MICROFOX-EO	1212495
Description		Flat-nose pliers	
		Angled, 20°, without bevel	

Type	Order no.	MICROFOX-P	1212491
Description		Needle-nose pliers	
		Gripping surface smooth	

Type	Order no.	MICROFOX-PC	1212492
Description		Needle-nose pliers	
		Gripping surface smooth, curved 45°	

Type	Order no.	MICROFOX-F	1212493
Description		Flat-nose pliers	
		Gripping surface smooth	

Type	Order no.	MICROFOX-R	1212490
Description		Round-nose pliers	
		Gripping surface smooth	

ESD electronic pliers

The ESD MICROFOX electronic pliers correspond to the common standards and regulations such as DIN EN 61340-5. The screwed precision joint enables optimum work results. The finely polished and phosphated surfaces ensure dazzle-free operation.

Type	Order no.	MICROFOX-S ESD	1212480
Description		Diagonal cutters	
		Round head, without bevel	

Type	Order no.	MICROFOX-E ESD	1212485
Description		Front cutter	
		Without bevel	

Type	Order no.	MICROFOX-P ESD	1212482
Description		Needle-nose pliers	

Type	Order no.	MICROFOX-PC ESD	1212483
Description		Needle-nose pliers	
		Gripping surface smooth, curved 45°	

Type	Order no.	MICROFOX-F ESD	1212484
Description		Flat-nose pliers	
		Gripping surface smooth	

Type	Order no.	MICROFOX-R ESD	1212481
Description		Round-nose pliers	
		Gripping surface smooth	

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 cross-section 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 length.

Type	Order no.	WIREFOX 2.5	1212368				
Conductor / cable	[mm²] / AWG	0.08 – 2.5 / 28 – 12					
Stripping length up to …	[mm]	15					
Insulation type		Standard					
Wire cutter solid // stranded	[mm²] / AWG	2.5 / 14 // 6 / 10					
Accessories							
Spare knife		WIREFOX 2,5/WS	1212370				

Type	Order no.	WIREFOX 4	1212156	WIREFOX 6SC	1212158	WIREFOX 10	1212150
Conductor / cable	[mm²] / AWG	0.1 – 4 / 28 – 12		1.5 – 6 / 16 – 10		0.02 – 10 / 34 – 8	
Stripping length up to …	[mm]	18		18		18	
Insulation type		Standard and special insulation. e. g. PTFE		Standard and short-circuit-proof		Standard	
Wire cutter solid // stranded	[mm²] / AWG	1.5 / 16 // 10 / 8		1.5 / 6 // 16 / 8		1.5 / 16 // 10 / 8	
Accessories							
Spare knife		WIREFOX 4/SB	1212151	WIREFOX 6SC/SB	1212314	WIREFOX 10/SB	1212152

Type	Order no.	WIREFOX 16	1212155	WIREFOX 16-1	1212157
Conductor / cable	[mm²] / AWG	4 – 16 / 12 – 5		6 – 16 / 10 – 5	
Stripping length up to …	[mm]	18		Any	
Insulation type		Standard		Standard	
Wire cutter solid // stranded	[mm²] / AWG	1.5 / 16 // 12 / 8		–	
Accessories					
Spare knife		WIREFOX 16/SB	1212153		

VDE stripping pliers

The VDE protection-insulated stripping pliers facilitate stripping of conductors up to 10 mm². The adjusting screw with locking nut guarantees a consistent stripping quality for standard production.

1000 V AC/
1500 V DC

Type	Order no.	WIREFOX 10 VDE	1212366
Conductor / cable	[mm²] / AWG	0.2 – 10 / 24 – 8	
Stripping length up to …	[mm]	20	
Insulation type		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.

Type	Order no.	WIREFOX-D SHIELD	1212172
Conductor / cable diameter	[mm]	8 – 9	
Max. insulation thickness	[mm]	1.2	

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.

Type	Order no.	WIREFOX ASI	1212154
Conductor / cable		AS-Interface flat-ribbon conductor	
Stripping length	[mm]	Any	

WIREFOX dismantling tools

Stripping tools for dismantling

The dismantling 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.
The WIREFOX-D SR 6 stripping tool is particularly well suited for solar cables.

Type	Order no.	WIREFOX-D 11	1212160	WIREFOX-D SR 6	1212507	
Conductor / cable diameter	[mm]	2.5 – 11				
Max. insulation thickness	[mm]	1.0				
Conductor	[mm²]			2.5 – 6		
Stripping length	[mm]			8.5		

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 mm² up to NYM 5 x 2.5 mm²
- Single-wire stripping 0.2 – 4 mm²
- Integrated slitting knife
- Extendable knife

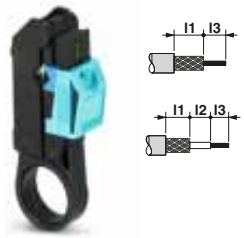
Type	Order no.	WIREFOX-D 13	1212162			
Conductor / cable diameter	[mm]	8 – 13				
Max. insulation thickness	[mm]	–				

In addition to standard cables, fiber optic cables can also be stripped using WIREFOX-D 16. The WIREFOX-D 40 stripping tool dismantles wires with a diameter of up to 40 mm. Round, longitudinal and spiral cuts can be made with the swivel action blade.

Type	Order no.	WIREFOX-D 16	1212173	WIREFOX-D 28	1212174	WIREFOX-D 40	1212161
Conductor / cable diameter	[mm]	4 – 16		8 – 28		4.5 – 40	
Max. insulation thickness	[mm]	–		–		4.5	

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

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.



Type	Order no.			Spare knife accessories	
2-stage / strip-off dimension l1 = 6.0 mm		WIREFOX-D CX-1	1212163	WIREFOX-D CX-1/SB	1212303
2-stage / strip-off dimension l1 = 9.2 mm		WIREFOX-D CX-2	1212164	WIREFOX-D CX-2/SB	1212304
2-stage / strip-off dimension l1 = 12 mm		WIREFOX-D CX-3	1212165	WIREFOX-D CX-3/SB	1212305
2-stage / strip-off dimension l1 = 6.8 mm		WIREFOX-D CX-4	1212166	WIREFOX-D CX-4/SB	1212306
3-stage / strip-off dimension l1 = 5.5 mm and l2 = 5.5 mm		WIREFOX-D CX-5	1212167	WIREFOX-D CX-5/SB	1212307
3-stage / strip-off dimension l1 = 2.7 mm and l2 = 8.3 mm		WIREFOX-D CX-6	1212168	WIREFOX-D CX-6/SB	1212308
3-stage / strip-off dimension l1 = 6.0 mm and l2 = 6.0 mm		WIREFOX-D CX-7	1212169	WIREFOX-D CX-7/SB	1212309
3-stage / strip-off dimension l1 = 2.5 mm and l2 = 6.8 mm		WIREFOX-D CX-8	1212170	WIREFOX-D CX-8/SB	1212310
3-stage / strip-off dimension l1 = 3.5 mm and l2 = 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 mm². 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 mm². The dies can be replaced without an additional tool.

Overview of connectors of crimping tools

Ferrules for insulated and non-insulated contacts

Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Page
CRIMPFOX 6	1212034	0.25 – 6	24 – 10	**18**
CRIMPFOX 6S-F	1212043	0.5 – 6	20 – 10	**18**
CRIMPFOX 6T	1212037	0.25 – 6	20 – 10	**18**
CRIMPFOX 6T-F	1212038	0.25 – 6	20 – 10	**18**
CRIMPFOX 10S	1212045	0.14 – 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**

Cable lugs and connectors

Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Page
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**

Non-insulated cable lugs

Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Page
CRIMPFOX RC 2,5	1212063	0.75 – 2.5	20 – 14	**19**
CRIMPFOX RC 10	1212061	4 – 10	12 – 8	**19**
CRIMPFOX RC 25	1212065	4 – 10	12 – 8	**19**
CRIMPFOX RCT 25-1 (tube lugs)	1212066	10 – 25	8 – 4	**19**

Non-insulated slip-on sleeves

Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Page
CRIMPFOX-SC 1,5	1212048	0.1 – 1.5	26 – 16	**20**
CRIMPFOX-SC 6L	1212052	0.5 – 6	22 – 10	**20**
CRIMPFOX-SC 6	1212050	0.5 – 6	22 – 10	**20**

Turned contacts

Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Page
CRIMPFOX-TC 4	1212113	0.5 – 4	22 – 12	**20**
CRIMPFOX-TC 10	1212114	4 – 10	12 – 8	**20**

Coaxial connector / FO connector

Crimping tool designation	Order no.	Hexagonal wrench size [mm]	Page
CRIMPFOX-CX 4,52	1212094	1.69 / 3.25 / 4.52	**20**
CRIMPFOX-CX 6,48	1212095	1.69 / 5.41 / 6.48	**20**
CRIMPFOX-CX 9,14	1212096	1.73 / 8.23 / 9.14	**20**
CRIMPFOX-CX 10,54	1212097	2.54 / 10.54	**20**
CRIMPFOX-CX 10,90	1212098	2.54 / 10.90	**20**
CRIMPFOX-FO 5,41	1212099	3.25 / 3.84 / 4.52 / 5.0 / 5.41	**21**

D-SUB contacts

Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Page
CRIMPFOX-DSUB 5	1212111	0.08 – 0.5	28 – 22	**21**

Crimp-snap-in contacts

Crimping tool designation	Order no.	Conductor cross-section [mm²]	Conductor cross-section [AWG]	Page
CRIMPFOX MT 2,5	1204038	0.5 – 2.5	20 – 12	**21**

CRIMPFOX crimping tools

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.

Type	Order no.	CRIMPFOX 6	1212034	CRIMPFOX 6T	1212037
Conductor	[mm²] / AWG	0.25 – 6 / 24 – 10		0.25 – 6 / 20 – 10	
Accessories					
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.

Type	Order no.	CRIMPFOX 6S-F	1212043	CRIMPFOX 6T-F	1212038
Conductor	[mm²] / AWG	0.5 – 6 / 20 – 10		0.25 – 6 / 20 – 10	
Accessories					
Spare die		CRIMPFOX 6S-F/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.

Type	Order no.	CRIMPFOX 6H	1212046	CRIMPFOX 10S	1212045
Conductor	[mm²] / AWG	0.14 – 6 / 25 – 10		0.14 – 10 / 25 – 7	

The crimping pliers help in processing ferrules up to 50 mm². The ergonomically formed handles and the optimized mechanical transmission ensure optimum hold and reduce the force needed by 25%.

Type	Order no.	CRIMPFOX 25R	1212039	CRIMPFOX 50R	1212041
Conductor	[mm²] / AWG	10 – 25 / 8 – 4		35 – 50 / 2 – 1	
Accessories					
Spare die		CRIMPFOX 25R/DIE	1212040	CRIMPFOX 50R/DIE	1212042

CRIMPFOX crimping tools

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.

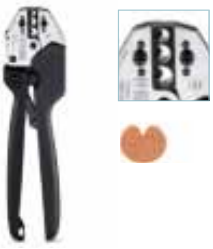
Type	Order no.	CRIMPFOX-RCI 1	1212055	CRIMPFOX-RCI 2,5	1212053	CRIMPFOX-RCI 6	1212057
Conductor	[mm²] / AWG	0.14 – 1 / 26 – 18		0.75 – 2.5 / 20 – 14		0.75 – 6 / 20 – 10	
Accessories							
Spare die		CRIMPFOX-RCI 1/DIE	1212056	CRIMPFOX-RCI 2,5/DIE	1212054	CRIMPFOX-RCI 6/DIE	1212058

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

Type	Order no.	CRIMPFOX-RCI 6-1	1212059
Conductor	[mm²] / AWG	0.75 – 6 / 20 – 10	
Accessories			
Spare die		CRIMPFOX-RCI 6-1/DIE	1212290

Crimping pliers for non-insulated cable lugs and tube lugs

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.



Type	Order no.	CRIMPFOX-RC 2,5	1212063	CRIMPFOX-RC 10	1212061	CRIMPFOX-RC 25	1212065
Conductor	[mm²] / AWG	0.75 – 2.5 / 20 – 14		4 – 10 / 12 – 8		10 – 25 / 8 – 4	
Accessories							
Spare die		CRIMPFOX-RC 2,5/DIE	1212064	CRIMPFOX-RC 10/DIE	1212062	CRIMPFOX-RC 25/DIE	1212299

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

Type	Order no.	CRIMPFOX-RCT 25-1	1212066
Die station	[mm]	10 – 25 / 8 – 4	
Accessories			
Spare die		CRIMPFOX-RCT 25/DIE	1212300

CRIMPFOX crimping tools

Crimping pliers for non-insulated slip-on sleeves

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

Type	Order no.	CRIMPFOX-SC 1,5	1212048	CRIMPFOX-SC 6	1212050	CRIMPFOX-SC 6L	1212052
Conductor	[mm²] / AWG	0.1 – 1.5 / 26 – 16		0.5 – 6 / 22 – 10		0.5 – 6 / 22 – 10	
Accessories							
Spare die		CRIMPFOX-SC 1,5/DIE	1212049	CRIMPFOX-SC 6/DIE	1212051	CRIMPFOX-SC 6/DIE	1212051

Crimping pliers for turned contacts

The CRIMPFOX-TC … are crimping pliers for processing turned contacts up to 10 mm². The integrated locator serves in accurate positioning of the contacts with pin diameter of 1.6, 2.5 and 4 mm in the die.

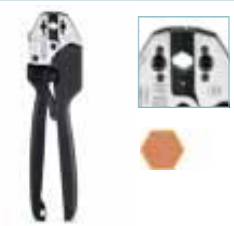
Type	Order no.	CRIMPFOX-TC 4	1212113	CRIMPFOX-TC 10	1212114		
Conductor	[mm²] / AWG	0.5 – 4 / 22 – 12		4 – 10 / 12 – 8			
Accessories							
Spare die		CRIMPFOX-TC 4/DIE	1212295	CRIMPFOX-TC 10/DIE	1212296		

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.

Type	Order no.	CRIMPFOX-CX 4,52	1212094	CRIMPFOX-CX 6,48	1212095	CRIMPFOX-CX 9,14	1212096
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	
Accessories							
Spare die		CRIMPFOX-CX 4,52/DIE	1212284	CRIMPFOX-CX 6,48/DIE	1212286	CRIMPFOX-CX 9,14/DIE	1212293



Type	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		

CRIMPFOX crimping tools

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.

Type	Order no.	CRIMPFOX-FO 5,41	1212099
Hexagonal wrench size			
Die stations 1 – 5	[mm]	3.25 / 3.84 / 4.52 / 5.0 / 5.41	
Accessories			
Spare die		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 mm².

Type	Order no.	CRIMPFOX-DSUB 5	1212111
Conductor	[mm²] / AWG	0.08 – 0.5 / 28 – 22	
Accessories			
Spare die		CRIMPFOX-DSUB 5/DIE	1212287

Crimping pliers for crimp snap-in contacts

The CRIMPFOX MT 2,5 is designed for the 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

Type	Order no.	CRIMPFOX MT 2,5	1204038
Conductor	[mm²] / AWG	0.5 – 2.5 / 20 – 12	
Accessories			
Spare die		CRIMPFOX MT 2,5 DIE	1208050

Crimping pliers for solar connectors

The CRIMPFOX-SR 6… helps in processing solar connectors MC3 and MC4 from Multi-Contact and the SOLARLOK connectors from Tyco. Integrated locators ensure easy processing with optimum crimping results.

Type	Order no.	CRIMPFOX-SR 6-1	1212467	CRIMPFOX-SR 6-2	1212468	CRIMPFOX-SR 6-3	1212469
Conductor	[mm²]	2.5 – 6		2.5 – 6		2.5 – 6	
for solar connector		MC3		MC4		SOLARLOK	

CRIMPFOX crimping tools

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 space-saving universal tool for all applications.

Type	Order no.	CRIMPFOX-M	1212072	CRIMPFOX-M SET	1212093	
		Basic pliers without die		Contents: CRIMPFOX and dies 1212074, 1212079, 1212080, 1212081		
Accessories						
Die, for ferrules						
0.25 – 10 mm²		**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 mm²		**CRIMPFOX-M 50/DIE**	1212082	**CRIMPFOX-M 50/DIE**	1212082	
Die, for insulated cable lugs						
0.5 – 1.5 mm² and 1.5 – 2.5 mm²		**CRIMPFOX-M RCI 2,5/DIE**	1212074	**CRIMPFOX-M RCI 2,5/DIE**	1212074	(included in the set)
0.1 – 0.4 mm² and 4 – 6 mm²		**CRIMPFOX-M RCI 6/DIE**	1212073	**CRIMPFOX-M RCI 6/DIE**	1212073	
Die, for non-insulated cable lugs						
0.75 – 2.5 mm²		**CRIMPFOX-M RC 2,5/DIE**	1212078	**CRIMPFOX-M RC 2,5/DIE**	1212078	
0.5 – 6 mm²		**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 mm²		**CRIMPFOX-M SC 1/DIE**	1212083	**CRIMPFOX-M SC 1/DIE**	1212083	
0.5 – 2.5 mm²		**CRIMPFOX-M SC 2,5/DIE**	1212084	**CRIMPFOX-M SC 2,5/DIE**	1212084	
0.5 – 6 mm²		**CRIMPFOX-M SC 6/DIE**	1212085	**CRIMPFOX-M SC 6/DIE**	1212085	
Die, for turned contacts						
2.5 – 4.0 mm² / cross-section 0.14 – 4 mm²		**CRIMPFOX-M TC 4/DIE**	1212075	**CRIMPFOX-M TC 4/DIE**	1212075	
4.0 mm² / cross-section 6 – 10 mm²		**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 mm² and 4 – 6 mm²		**CRIMPFOX-M HS-1/DIE**	1212282	**CRIMPFOX-M HS-1/DIE**	1212282	
Die, for solar connector						
MC3, Multi-Contact, 2.5 – 6 mm²		**CRIMPFOX M SR 6-1/DIE**	1212471	**CRIMPFOX M SR 6-1/DIE**	1212471	
MC4, Multi-Contact, 2.5 – 6 mm²		**CRIMPFOX M SR 6-2/DIE**	1212472	**CRIMPFOX M SR 6-2/DIE**	1212472	
SOLARLOK, Tyco, 2.5 – 6 mm²		**CRIMPFOX M SR 6-3/DIE**	1212473	**CRIMPFOX M SR 6-3/DIE**	1212473	

CRIMPFOX crimping tools

Universal pliers for accommodating different crimp inserts

The wide variety of dies makes the CRIMPFOX-C … universal crimping pliers up to 120 mm². Easy fold back jaw holders allow quick replacement of dies. A mechanical drive system minimizes the force needed.

Type	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	1212335
95 mm²				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 mm²				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 mm²		CRIMPFOX-C50 RC 25/F-DIE	1212344		
35 mm²		CRIMPFOX-C50 RC 35/F-DIE	1212345		
10, 16, 25, 35 mm²				CRIMPFOX-C120 RC 35/F-DIE	1212332
6, 50 mm²				CRIMPFOX-C120 RC 50/F-DIE	1212333
10, 70 mm²				CRIMPFOX-C120 RC 70/F-DIE	1212334
Accessories: Die pair for insulated cable lugs					
10 mm²		CRIMPFOX-C50 RCI 10/DIE	1212346	CRIMPFOX-C120 RCI 10/DIE	1212327
16 mm²		CRIMPFOX-C50 RCI 16/DIE	1212347	CRIMPFOX-C120 RCI 16/DIE	1212328
25 mm²		CRIMPFOX-C50 RCI 25/DIE	1212348	CRIMPFOX-C120 RCI 25/DIE	1212329
35 mm²				CRIMPFOX-C120 RCI 35/DIE	1212330
Accessories: Die pair for copper tube lugs					
35 mm²		CRIMPFOX-C50 RCT 35-1/DIE	1212341		
16, 35 mm²				CRIMPFOX-C120 RCT 35-1/DIE	1212320
50 mm²		CRIMPFOX-C50 RCT 50-1/DIE	1212342		
25, 50 mm²				CRIMPFOX-C120 RCT 50-1/DIE	1212321
10, 70 mm²				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 mm²		CRIMPFOX-C50 R25-35/DIE	1212349		
35, 50 mm²		CRIMPFOX-C50 R35-50/DIE	1212350		
50, 70 mm²		CRIMPFOX-C50 R50-70/DIE	1212351		
25, 50 mm²				CRIMPFOX-C120 R25-50/DIE	1212324
35, 70 mm²				CRIMPFOX-C120 R35-70/DIE	1212325
95 mm²				CRIMPFOX-C120 R95/DIE	1212326

CRIMPFOX – The right connectors for the CRIMPFOX series

Ferrules with and without insulating collar

Ferrules from Phoenix Contact are available in different versions and color codes with and without plastic sleeves.

All the versions are CSA-certified.

Description		Ferrules	Ferrules	Ferrules XL	TWIN ferrules
Version	[mm²] / AWG	0.25 – 35 / 24 – 2	0.25 – 120 / 24 – 5	1.5 – 16 / 16 – 6	2 x 0.5 – 2 x 16 / 2 x 20 – 2 x 6
		according to DIN 46228-1	according to DIN 46228-4/NF C 63-023	large insulating collar diameter	large insulating collar diameter
Color		silver colored	various color codes	various colors	various colors
		For more technical data and drawings, see www.phoenixcontact.net/catalog			

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.

Description		Ring cable lugs	Ring cable lugs	Fork-type cable lugs	Fork-type cable lugs
Version	[mm²] / AWG	1 – 240 / 18 – 500	1.5 – 10 / 16 – 8	1.5 – 6 / 16 – 10	1.5 – 6 / 16 – 10
Color		silver colored	various colors	silver colored	various colors
		For more technical data and drawings, see www.phoenixcontact.net/catalog			

Slip-on sleeves and distributors, flat connectors

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

Description		Flat connectors	Flat connectors	Slip-on sleeves/insulated	Slip-on sleeves/distributors
Version	[mm²] / AWG	1.5 – 2.5 / 16 – 14	1.5 – 6 / 16 – 10	1 – 6 / 18 – 10	1.5 – 6 / 16 – 10
Color		silver colored	various colors	various colors	various colors
		For more technical data and drawings, see www.phoenixcontact.net/catalog			

Flat pin and pin cable lugs, butt connectors

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

Description		Flat pin cable lugs	Flat pin cable lugs	Pin cable lugs	Butt connectors
Version	[mm²] / AWG	0.5 – 6 / 20 – 10	1.5 – 6 / 16 – 10	1.5 – 6 / 16 – 10	0.5 – 6 / 20 – 10
Color		various colors	various colors	various colors	various colors
		For more technical data and drawings, see www.phoenixcontact.net/catalog			

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 Order No 1208843

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 mm², WIREFOX 10
- Crimping pliers for ferrules for of 0.14 – 10 mm², CRIMPFOX 10S

TOOL SET ALLROUND 3 Order No 1208953

Set for stripping, crimping and screwing

consisting of:

- Stripping tool for conductors and cables 0.02 – 10 mm², WIREFOX 10
- Crimping pliers with integrated pressure lock for ferrules of 0.5 – 6 mm², 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:
  – AI 0,75-8 GY
  – AI 1-8 RD
  – AI 1,5-8 BK
- Screwdriver for slotted-head screws, SZF 1-0,6X3,5

TOOL-KIT STANDARD Order no. 1212422

Set for cutting, stripping, crimping and screwing

consisting of:

- Front cable cutter for copper and aluminum with a diameter up to 18 mm (up to 50 mm²) 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 mm² 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

  500 pcs. each:
  – AI 0,25-6 YE
  – AI 0,34-6 TQ
  – 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.:
  – AI 4-10 GY

  100 pcs.:
  – AI 6-12 YE
- Stripping tool for wires and conductors up to 6 mm²
- Crimping pliers with integrated pressure lock for ferrules of 0.5 – 6 mm², insertion from the front

AI SORTI BOX RD Order no. 3202960

Assortment box, red

consisting of:

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

  50 pcs. each:
  – 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.net/catalog

Tool sets

Universal tool sets for easy on-site use, with cutting, isolating and test tools from the TOOL fox range. The pouches are made of rugged and sturdy material.

Type	Order no.		
Tool wrap, equipped with one of the following tools:		**TOOL-WRAP**	1212505
		CUTFOX 16 VDE	Cable cutter for copper and aluminum conductors, VDE-tested
		CUTFOX-S VDE	Diagonal cutter for copper and aluminum conductors, VDE-tested
		PROFIPOL	Voltage tester, for DC and AC voltages of 6 V to 400 V, IP65
		SZK PH0	Screwdriver, suitable for Phillips recess screws, size: 0
		SZK PH1	Screwdriver, suitable for Phillips recess screws, size: 1
		SZK PH2	Screwdriver, suitable for Phillips recess screws, size: 2
		SZS 0,4X2,5	Screwdriver, flat, blade: 0.4 x 2.5 x 80 mm, length: 161 mm
		SZS 0,5X3,0	Screwdriver, flat, blade: 0.5 x 3.0 x 100 mm, length: 181 mm
		SZS 1,0X4,0	Screwdriver, flat, blade: 1.0 x 4.0 x 100 mm, length: 198 mm
		SZS 1,0X6,5	Screwdriver, flat, blade: 1.0 x 6.5 x 150 mm, length: 248 mm
		UNIFOX-C VDE	Combination pliers, VDE design
		UNIFOX-P VDE	Needle-nose pliers, VDE design
		TOOL-WRAP EMPTY	Tool wrap
Tool wrap, empty		**TOOL-WRAP EMPTY**	1212501

Type	Order no.		
Tool bag, with laptop and document compartment, equipped with one of the following tools:		**TOOL-BAG**	1212504
		AI SORTI BOX RD	Assortment box, with ferrules per 50 pieces: AI 0,5-8 WH, AI 2,5-8 BU, per 100 pieces: AI 0,75-8 GY, AI 1-8 RD, AI 1,5-8 BK
		CRIMPFOX-M SET	Crimping pliers set
		CUTFOX 25 VDE	Cable cutter for copper and aluminum conductors, VDE-tested
		CUTFOX-S VDE	Diagonal cutter for copper and aluminum conductors, VDE-tested
		DUSPOL EXPERT	Voltage tester, for DC and AC voltages of 12 V to 690 V, /750 V DC, IP64
		SZK PH0	Screwdriver, suitable for Phillips recess screws, size: 0
		SZK PH1	Screwdriver, suitable for Phillips recess screws, size: 1
		SZK PH2	Screwdriver, suitable for Phillips recess screws, size: 2
		SZS 0,4X2,5	Screwdriver, flat, blade: 0.4 x 2.5 x 80 mm, length: 161 mm
		SZS 0,5X3,0	Screwdriver, flat, blade: 0.5 x 3.0 x 100 mm, length: 181 mm
		SZS 1,0X4,0	Screwdriver, flat, blade: 1.0 x 4.0 x 100 mm, length: 198 mm
		SZS 1,0X6,5	Screwdriver, flat, blade: 1.0 x 6.5 x 150 mm, length: 248 mm
		UNIFOX-C VDE	Combination pliers, VDE design
		UNIFOX-P VDE	Needle-nose pliers, VDE design
		UNIFOX-WP	Water pump pliers
		USS 4	Control cabinet key, made of metal, for all common control cabinets
		WIREFOX 10	Stripping tool, for lines and conductors from 4 – 16 mm², stripping length of up to 18 mm
		WIREFOX-D 40	Stripping tool, for stripping lines of 4.5 - 40 mm, insulation strength up to 4.5 mm
		TOOL-BAG EMPTY	Tool bag, with document and laptop compartment
		Cutter knife	Gray
		Tape measure 3 m	
Tool bag, empty		**TOOL-BAG EMPTY**	1212500

Tool sets

Type	Order no.		
Tool carrier, equipped with one of the following tools:		**TOOL-CARRIER**	1212503
		CRIMPFOX-M	Basic pliers, for accommodating dies for a wide range of contact types
		CRIMPFOX-M 10/DIE	Die, for Crimpfox-M, for ferrules 0.25 - 10 mm², serial storage box
		CUTFOX 18	Cable cutter for copper and aluminum conductors
		CUTFOX-S VDE	Diagonal cutter for copper and aluminum conductors, VDE-tested
		PROFIPOL	Voltage tester, for DC and AC voltages of 6 V to 400 V, IP65
		SZK PH0	Screwdriver, suitable for Phillips recess screws, size: 0
		SZK PH1	Screwdriver, suitable for Phillips recess screws, size: 1
		SZK PH2	Screwdriver, suitable for Phillips recess screws, size: 2
		SZS 0,4X2,5	Screwdriver, flat, blade: 0.4 x 2.5 x 80 mm, length: 161 mm
		SZS 0,5X3,0	Screwdriver, flat, blade: 0.5 x 3.0 x 100 mm, length: 181 mm
		SZS 1,0X4,0	Screwdriver, flat, blade: 1.0 x 4.0 x 100 mm, length: 198 mm
		SZS 1,0X6,5	Screwdriver, flat, blade: 1.0 x 6.5 x 150 mm, length: 248 mm
		UNIFOX-CE VDE	Combination pliers, angled, VDE design
		UNIFOX-P VDE	Needle-nose pliers, VDE design
		UNIFOX-WP	Water pump pliers
		USS 4	Control cabinet key, made of metal, for all common control cabinets
		WIREFOX 10 VDE	Stripping pliers, for stripping conductors of up to 10 mm²
		WIREFOX-D 13	Stripping tool, for stripping lines of 8 - 13 mm
		WIREFOX-D 28	Stripping tool, for stripping lines of 8 - 28 mm
		TOOL-CARRIER EMPTY	Tool carrier
		Cutter knife	Gray
		Tape measure 3 m	
Tool carrier, empty		**TOOL-CARRIER EMPTY**	1212499

Type	Order no.		
Tool belt pouch, equipped with one of the following tools:		**TOOL-BELTPOUCH**	1212506
		CUTFOX 18	Cable cutter for copper and aluminum conductors
		CUTFOX-S VDE	Diagonal cutter for copper and aluminum conductors, VDE-tested
		PROFIPOL	Voltage tester, for DC and AC voltages of 6 V to 400 V, IP65
		SZK PH1	Screwdriver, suitable for Phillips recess screws, size: 1
		SZK PH2	Screwdriver, suitable for Phillips recess screws, size: 2
		SZS 0,5X3,0	Screwdriver, flat, blade: 0.5 x 3.0 x 100 mm, length: 181 mm
		SZS 1,0X4,0	Screwdriver, flat, blade: 1.0 x 4.0 x 100 mm, length: 198 mm
		SZS 1,0X5,5	Screwdriver, flat, blade: 1.0 x 5.5 x 125 mm, length: 223 mm
		UNIFOX-CE VDE	Combination pliers, angled, VDE design
		USS 4	Control cabinet key, made of metal, for all common control cabinets
		WIREFOX-D 13	Stripping tool, for stripping lines of 8 - 13 mm
		TOOL-BELTPOUCH EMPTY	Tool belt pouch
		Tape measure 3 m	
Tool belt pouch, empty		**TOOL-BELTPOUCH EMPTY**	1212502

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 battery-powered 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.

Type	Order no.		Order no.
Blade: 0.4 x 2.5 x 75 mm, length: 156 mm	**SZF 0-0,4X2,5**	1204504		
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	**SZF 1-0,6X3,5**	1204517	**ST-BW**	1207608
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm	**SZF 2-0,8X4,0**	1204520		
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm	**SZF 3-1,0X5,5**	1206612		

Flat-bladed screwdriver, VDE flat-bladed 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.

Type	Order no.		Order no.
Blade: 0.4 x 2.0 x 60 mm, length: 157 mm	**SZS 0,4X2,0**	1205202		
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	**SZS 0,6X3,5**	1205053		
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm			**SZS 0,4X2,5**	1205037
Blade: 0.4 x 2.5 x 75 mm, length: 156 mm			**SZS 0,5X3,0**	1207404
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm			**SZS 0,6X2,5**	1205040
Blade: 0.4 x 2.5 x 75 mm, length: 156 mm			**SZS 1,0X4,0**	1205066
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm			**SZS 1,0X5,5**	1209114
Blade: 0.4 x 2.5 x 75 mm, length: 156 mm			**SZS 1,0X6,5**	1205079
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm			**SZS 1,2X8,0**	1205082

VDE screwdriver for test socket screws

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

Type	Order no.		Order no.
Blade: 0.6 x 3.5 x 100 mm, length: 198 mm	**SZG 0,6X3,5**	1205121		
Blade: 0.9 x 6.5 x 175 mm, length: 287 mm	**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.

Type	Order no.		Order no.
Size: PZ0 x 80 mm, length: 161 mm	**SZK PZ0**	1206447		
Size: PZ1 x 80 mm, length: 161 mm	**SZK PZ1**	1206450		
Size: PZ2 x 100 mm, length: 205 mm	**SZK PZ2**	1206463		
Size: PH0 x 80 mm, length: 161 mm			**SZK PH0**	1205147
Size: PH1 x 80 mm, length: 161 mm			**SZK PH1**	1205150
Size: PH2 x 100 mm, length: 205 mm			**SZK PH2**	1205163

SCREWFOX screwdriver tools

Screwdriver sets

Type	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
		SZG 0,6X3,5	1205121		

Hexagonal socket wrench and BIT set 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.

Type	Order no.			ASD BIT SETHN	1209952
Wrench size 5.5 mm		SHN 5,5	1209855	Battery-operated screwdriver bit set	
Wrench size 8.0 mm		SHN 8	1209868	consisting of:	
Wrench size 13 mm		SHN 13	1209923	1 attachment set each in 5.5 mm, 8 mm, 13 mm	
				adapter to ¼“	

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.

Type	Order no.		
Wrench size 5 mm		VDE-ISS 5	1203343
Wrench size 6 mm		VDE-ISS 6	1201934
Wrench size 8 mm		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

Type	Order no.	USS 4	1203149

SCREWFOX screwdriver tools

Torque screw driver with hexagonal fast connection

The extremely accurate torque screw drivers that can be set finely acoording 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

Type	Order no.					
Type	Order no.	**TSD-M 1,2NM**	1212224	**TSD-M 6NM**	1212226	
Type	Order no.	**TSD-M 3NM**	1212225			
Accessories						
Tool bits for slotted-head screws						
Blade: 0.5 x 3.0 mm, length: 50 mm, tough but flexible		**ASD BIT 0,5X3,0X50**	1203961	**ASD BIT 0,5X3,0X50**	1203961	
Blade: 0.6 x 3.5 mm, length: 50 mm, tough but flexible		**ASD BIT 0,6X3,5X50**	1203974	**ASD BIT 0,6X3,5X50**	1203974	
Blade: 0.6 x 3.5 mm, length: 70 mm, tough but flexible		**ASD BIT 0,6X3,5X70**	1203987	**ASD BIT 0,6X3,5X70**	1203987	
Blade: 0.8 x 4.0 mm, length: 50 mm, tough but 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 but flexible		**ASD BIT 1,0X5,5X50**	1204009	**ASD BIT 1,0X5,5X50**	1204009	see www.phoenixcontact.net/catalog

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

Type	Order no.					
Type	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 screwdriver		
		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 x 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 x 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.net/catalog

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.

Type	Order no.			Accessories: Nuts for		
Blade: 0.4 x 2.5 x 75 mm, 0.2 Nm		**TSD 02 SAC**	1208487	Cable, M8 plug connector	SAC BIT M8-D10	1208461
				self assembled cable, M8 connector	SACC BIT M8-D12	1208474
Blade: 0.6 x 3.5 x 100 mm, 0.4 Nm		**TSD 04 SAC**	1208429	Cable, M12 connector	SAC BIT M12-D15	1208432
				Cable, M12 connector	SACC BIT M12-D20	1208445
Blade: 0.8 x 4.0 x 100 mm, 2.0 Nm		**TSD 20 SAC**	1212020	Pressure nuts, wrench size 13 mm	SAC BIT QUICKON-W13	1212033
Blade: 1.0 x 5.5 x 150 mm, 2.5 Nm		**TSD 25 SAC**	1212315	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

Type	Order no.	PROFIPOL	1209101	DUSPOL EXPERT	1209091	
Voltage range	[V DC]	6 … 400		12 … 750		
Voltage range	[V AC]	6 … 400		12 … 690		For further technical data, see
Protection class		IP65		IP64		www.phoenixcontact.net/catalog

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.

Type	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 V – 600 V		0.1 mV – 600 V		
Voltage DC		0.1 V – 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 Ω – 20 M Ω		0,1 Ω – 40 M Ω		For further technical data, see
Continuity test		Acoustic (20 Ω)		Acoustic (50 Ω)		www.phoenixcontact.net/catalog

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.

Type	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 M 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.net/catalog

Automatic devices

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

Automatic devices

The CUTFOX 10 automatic cutting device cuts conductors and lines up to 10 mm². Solid and stranded conductors are cut to within a millimeter. The length and the number of sections are entered via the user-friendly 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 mm² 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 mm². 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 mm².

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 mm² can be stripped and fitted with ferrules in one operation. Modifying automatic devices to different cross-sections is possible within a minute.

Automatic devices

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.

An application video can be downloaded from the Internet.

CUTFOX 10

Type	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			

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	**CF-10 WHEEL SET**	1207271
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		

Automatic devices

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 mm² or also multi-strand lines with a diameter up to 6 mm². 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.

An application video can be downloaded from the Internet.

WF 1000

Type	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		
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 mm². 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

Type	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	[l]	0.2		0.2	
Compression		trapezoidal		trapezoidal	

ZAP 25 T / ZAP 100 T

Type	Order no.				
Pneumatic crimping pliers		**ZAP 25 T**	1203123	**ZAP 100 T**	1203262
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	[l]	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 mm²
- TWIN ferrules of up to 2 x 10 mm²
- Insulated cable lugs of up to 6 mm²
- Non-insulated cable lugs up to 6 mm²
- Tube lugs up to 10 mm²
- Slip-on sleeves and flat connectors of up to 6 mm²
- Turned contacts of up to 10 mm²

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

CF 500

Type		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 AI …) 0.25 – 6 mm²	**CF 500/DIE AI 6**	1212238
Ferrules (A … and AI …) 10, 16 and 25 mm²	**CF 500/DIE AI 25**	1212239
Ferrules (A … and AI …) 35 and 50 mm²	**CF 500/DIE AI 50**	1212261
TWIN ferrules (A-TWIN…) 2 x 4, 2 x 6 and 2 x 10 mm²	**CF 500/DIE AI-TWIN 10**	1212262
Insulated cable lugs (RCI... and FCI...) 0.14 – 1.5 mm²	**CF 500/DIE RCI 1,5**	1212263
Insulated cable lugs (RCI... and FCI...) 0.5 – 6 mm²	**CF 500/DIE RCI 6**	1212240
Cable lugs (RC … and FC …) 0.5 – 10 mm²	**CF 500/DIE RC 10**	1212244
Cable lugs (RC … and FC …) 16 mm²	**CF 500/DIE RC 16**	1212257
Slip-on sleeves and flat connectors (SCF … and SCM …) 0.1 – 1.5 mm²	**CF 500/DIE SC 1,5**	1212241
Slip-on sleeves and flat connectors (SCF … and SCM …) 0.5 – 6 mm²	**CF 500/DIE SC 6**	1212242
Turned contacts with pin diameters 2.5 and 4.0 mm (CK 2,5 … and CK 4,0) 0.14 – 4 mm²	**CF 500/DIE TC 4**	1212237
Turned contacts (CK 4,0) 6 – 10 mm²	**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 mm²	**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 mm² (AI 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 mm²	**CF 500/COV RC 10**	1212252
Tube lugs 0.34 – 2.5 mm²	**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 (AI...)
- Fast cross-section change without additional setting measures
- Quantity counter
- Suitable for mass processing

CF 1000

Type	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 mm²			
Incl. conversion kits 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 mm²			
Incl. conversion kits 0.5 – 1.5 mm² (stripping length 8 mm)			
Stripping and crimping machines, 230 V version		**CF 1000-10**	1212456
Electro-pneumatic, for loose ferrules with insulating collar, 4 mm², 6 mm² and 10 mm²			
Without conversion kit			
Stripping and crimping machines, 120 V version		**CF 1000-10, 120 V**	1212457
Electro-pneumatic, for loose ferrules with insulating collar, 4 mm², 6 mm² and 10 mm²			
Without conversion kit			

Technical data		
Dimensions, width / length / height	[mm]	240 / 490 / 390
Weight	[kg]	29
Air consumption per compression	[l]	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 mm², stripping length 10 mm	**CF 1000-TOOLKIT 4,0/10**	1208270
4 mm², stripping length 10 – 12 mm	**CF 1000-10-TOOLKIT 4/10-12**	1212458
6 mm², stripping length 12 mm	**CF 1000-10-TOOLKIT 6/12**	1212459
10 mm², stripping length 12 mm	**CF 1000-10-TOOLKIT 10/12**	1212460
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 mm². 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.

An application video can be downloaded from the Internet.

CF 3000

Type	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. conversion kits 0.5 – 2.5 mm²			
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. conversion kits 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	[VA]	80
Working cycle	[s]	1.2
Compression		trapezoidal

Accessories		
Expansion set, complete for CF 3000	**CF 3000-TOOLKIT 0,25**	1212376
For insulated taped, 0.25/0.34 mm²		
Stripping length 8 mm		
Spare locator		
0.25/0.34 mm²	**CF 3000 LOC 0,25**	1212377
0.5 mm²	**CF 3000 LOC 0,5**	1205639
0.75 mm²	**CF 3000 LOC 0,75**	1205642
1.0 mm²	**CF 3000 LOC 1,0**	1205655
1.5 mm²	**CF 3000 LOC 1,5**	1205668
2.5 mm²	**CF 3000 LOC 2,5**	1205671
Spare knife		
0.25/0.34 mm², adjustable	**CF 3000 AB 0,25**	1212380
0.5 mm²	**CF 3000 AM 0,5**	1205587
0.75 mm²	**CF 3000 AM 0,75**	1205590
1.0 mm²	**CF 3000 AM 1,0**	1205600
1.5 mm²	**CF 3000 AM 1,5**	1205613
2.5 mm²	**CF 3000 AM 2,5**	1205626

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