

KNIPEX Quality – Made in Germany



# New Products 2018

Including retrospect 2017



## New Products 2018

### KNIPEX TwistCut | p. 12

Corrugated Pipe Cutter



### KNIPEX Twistor16 | p. 6

Flexible due to 360° rotating crimp head



### Pliers Wrench | p. 4

The classic, reinvented



### KNIPEX CoBolt® S | p. 8

Now in a 160 mm model



**Wire Rope Cutter | p. 10****Compact and powerful****KNIPEX ErgoStrip® L | p. 13****For left-handers**

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## Pliers Wrench

Pliers and a wrench in a single tool

86

- Increased gripping capacity due to two additional setting positions: flexible gripping of all widths across flats up to 52 mm
- 15% less weight with the same stability
- Practical adjustment scale: a laser-cut scale allows the wrench opening to be set before gripping
- Replaces a whole set of spanners – metric and imperial
- Even easier to use due to considerably reduced weight, fluted pliers handle and slim jaw profile with undercut
- Work directly on chrome: zero backlash jaw pressure prevents damage to edges of sensitive components
- Reliable catching of the hinge bolt: no unintentional shifting
- Lever transmission greater than 10 : 1 for strong gripping power
- Chrome vanadium electric steel, forged, oil hardened



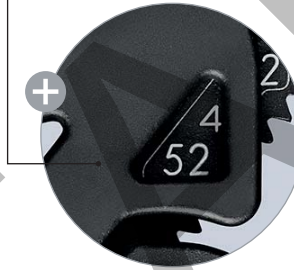
86 05 250



86 06 250



86 01 250



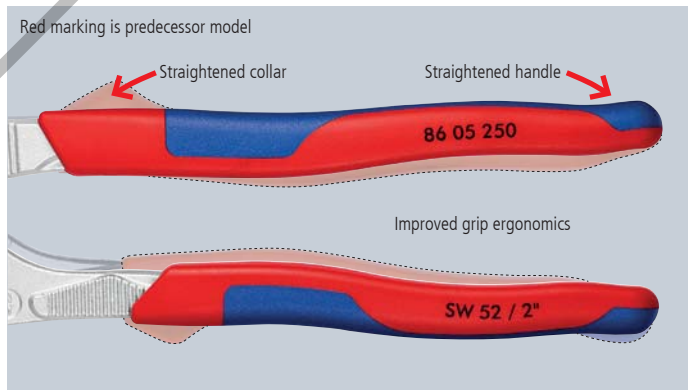
Gripping capacity extended to 52 mm



Opening width lasered onto the pliers head (metric on the front and imperial on the back)



Work without damaging sensitive surfaces, also on electrical equipment when using the VDE model



Ergonomic and "pocket friendly" thanks to multi-component grip

Article No.	EAN 4003773-	mm	Pliers	Head	Handles	Adjustment positions	Inch	mm	g
86 01 250	N 082385	250	black atramentized	polished	with non-slip plastic coating	19	2	52	457
86 01 250 SB	N 082637	250	black atramentized	polished	with non-slip plastic coating	19	2	52	457
86 02 250	N 082392	250	black atramentized	polished	with multi-component grips	19	2	52	468
86 02 250 SB	N 082644	250	black atramentized	polished	with multi-component grips	19	2	52	468
86 03 250	✓ 033837	250	chrome plated	polished	plastic coated	19	2	52	462
86 03 250 SB	✓ 022091	250	chrome plated	polished	plastic coated	19	2	52	462
86 05 250	✓ 047841	250	chrome plated	polished	with multi-component grips	19	2	52	485
86 05 250 SB	✓ 052029	250	chrome plated	polished	with multi-component grips	19	2	52	485
86 06 250	N 082408	250	chrome plated	polished	insulated with multi-component grips, VDE-tested	19	2	52	515
86 06 250 SB	N 082651	250	chrome plated	polished	insulated with multi-component grips, VDE-tested	19	2	52	515



## Pliers Wrench

Greater gripping capacity – less weight –  
greater convenience and comfort

The classic, reinvented

Product video



## KNIPEX Twistor16

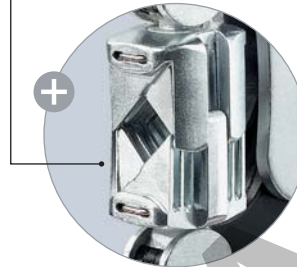
Self-adjusting crimping pliers for end sleeves (ferrules) with rotating crimp head

97

- ▶ Crimp head can be freely rotated 360°, with 8 locking positions
- ▶ Square crimp profile, high capacity range of 0.14 to 16 mm<sup>2</sup>
- ▶ End sleeves (ferrules) can be crimped from almost any working position
  - > Crimping pliers adjust automatically to different cross-sections
  - > Crimp opening accessible from both sides, extra-long end sleeves can be fed in
  - > Crimping of twin end sleeves (ferrules) up to 2 x 6 mm<sup>2</sup> possible
  - > Repetitive, high crimping quality due to integral lock (self-releasing mechanism)
  - > Light and handy tool, manual force reinforced by toggle lever mechanism
  - > Chrome vanadium electric steel in special quality, oil-hardened



97 53 18



Crimp head can be rotated 360°

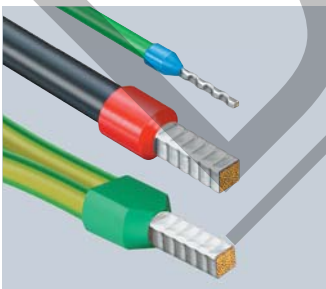
Product video



Crimp head can be rotated 360° for optimal accessibility, even in confined spaces



Twin end sleeves (ferrules) up to 2 x 6 mm<sup>2</sup> can be crimped without adjustment



Crimp end sleeves (ferrules) fully automatically within the capacity range of 0.14 to 16 mm<sup>2</sup>



Uniquely flexible: connectors can be inserted in the rotatable crimp head from almost any position



Article No.	EAN 4003773-	↔ mm	Capacity mm <sup>2</sup>	AWG	Number of crimping positions	⚖ g
97 53 18	082729	200	0.14 - 16	26 - 5	1	478
97 53 18 SB	082736	200	0.14 - 16	26 - 5	1	478



## KNIPEX Twistor16

Powerful – compact – high capacity range

Flexible due to 360°  
rotatable crimp head

## KNIPEX CoBolt® S Compact Bolt Cutter

71

► Extremely high cutting performance in a convenient length of 160 mm

► Small, slim head for excellent accessibility

- > Compact and powerful: cuts bolts, nails, rivets etc. up to a diameter of 4.4 mm
- > Heavy duty, induction hardened cutting edge for thin, hard wire, screws and springs. Cutting edge hardness approx. 64 HRC
- > Less physical effort due to efficient lever action mechanism
- > No slipping of the material to be cut due to lasered cutting edge
- > With gripping surface below the joint for gripping and pulling wires with a diameter from as Ø 1.0 mm
- > Chrome vanadium heavy-duty steel, forged, multi stage oil-hardened



Lasered cutting edge prevents the material to be cut from slipping

### Our CoBolt® family:



NEW

71 01 160

High cutting force with a length of just 160 mm – ideal for small hands



71 01 200

200 mm long, the classic among the compact bolt cutters



71 01 250

Also for two-hand operation: the 250 mm long KNIPEX CoBolt® XL cuts piano wire up to Ø 4.2 mm







Powerful through to the tips



Slim head for ideal accessibility



Compact, light and always to hand

Article No.	EAN 4003773-	↔ mm		Pliers	Handles	Cutting capacities				g
						Ø mm	Ø mm	Ø mm	Ø mm	
71 01 160 	082668	160		black atramentized	plastic coated	5.3	4.4	3.2	3.0	195
71 01 200	033165	200		black atramentized	plastic coated	6.0	5.2	4.0	3.6	335
71 01 250	079637	250		black atramentized	plastic coated		5.6	4.0	3.8	465



## KNIPEX CoBolt® S

Compact and powerful

Now in a handy length of 160 mm

Product video



## Wire Rope Cutter

For high-strength wire ropes up to Ø 4 mm  
and cable up to Ø 6 mm

95

- Compact size, low weight, high performance level
- High transmission joint design makes cutting 20 % easier
- Especially precise cutter guide thanks to box joint fitted with additional stabilisation plate

- > For cutting high-strength wire ropes up to Ø 4 mm and cable up to Ø 6 mm
- > At just 160 mm long, considerably more powerful than many larger wire rope cutters
- > Convenient work thanks to opening spring
- > Secured by locking device during transport
- > Ball bearing steel for a long service life
- > Cutting edges additionally induction hardened



User-friendly and reliable thanks to locking device and opening spring



95 62 160

New: strong wire rope cutters, 160 mm length

Product video



Compact at 160 mm but nevertheless more powerful than many larger wire rope cutters



For cutting high-strength wire ropes (1960 N/mm<sup>2</sup>) with a diameter of up to 4 mm



Double-bearing joint

Article No.	EAN	↔ mm	Head	Handles	Ø mm	Ø mm	g
95 62 160	082354	160	polished	with multi-component grips	6.0	4.0	172
95 62 160 SB	082712	160	polished	with multi-component grips	6.0	4.0	172

## Wire Rope Cutter

Particularly powerful cutting with small size

For cutting high-strength wire ropes up to Ø 4 mm and cable up to Ø 6 mm



## KNIPEX TwistCut

Corrugated Pipe Cutter

90

(PAT. PEND.)

- For the reliable and fast cutting of plastic corrugated pipes with the universal capacity range of diameters from 13 to 32 mm

- No damage to the internal cables or pipes

- > Simple insertion, reliable and easy cutting without waste
- > Precise cut without damage thanks to unique arrangement of the cutters with side guide
- > Good accessibility thanks to slim design
- > Made of glass fibre reinforced multi-component plastic with soft gripping zone

### 90 22 02 SB

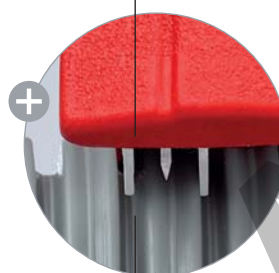
- > With wire stripping blades for diameters of 0.2/0.3/0.8/1.5/2.5/4.0 mm
- > Location ridges (patent pending) on the 1.5 and 2.5 mm<sup>2</sup> wire stripping blades for the fast insertion of cable
- > Internal length scale for consistent stripping of cable, legible for both right and left handed users

Product video



### 90 22 01 SB

Without stripping function



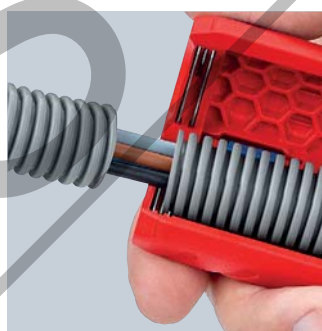
Internal blades with lateral guide to protect against injuries

### 90 22 02 SB

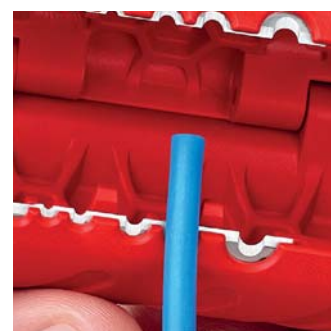
With stripping function



Easy to use: press KNIPEX TwistCut together, turn with slight pressure, done



Clean cutting edge with no damage to internal cables as the cut is always at the top of the corrugation



90 22 02 SB: Practical locator simplifies the insertion of single conductors for stripping



Also for protective pipes on aluminium composite pipes in plumbing, up to a diameter of 32 mm



Convenient handling due to fastener with locking device and opening by means of internal spring



90 22 02 SB: Injection moulded length scale for consistent stripping to a uniform length, legible for left and right handed users

Article No.	EAN 4003773-	↔ mm	Corrugated pipe cutting performance Ø mm	Stripping capacities mm <sup>2</sup>	⚖ g
90 22 01 SB	082286	100	13 - 32		47
90 22 02 SB	082293	100	13 - 32	0.2 - 4.0	47

## KNIPEX ErgoStrip® L Universal Stripping Tool

New: ErgoStrip® L for left-handers

16  
95

- For the fast and precise dismantling and stripping of all common round and damp-proof installation cables (e.g. NYM cable 3 x 1.5 mm<sup>2</sup> up to 5 x 2.5 mm<sup>2</sup>), data cable (e.g. twisted pair) and coax cable
- Innovative, ergonomic pistol grip design for easy cutting, stripping and longitudinal cut of the sheath
- Conically slimmed down tool ends for better access in confined areas
- Stripping device for cross-sections 0.2/0.3/0.8/1.5/2.5/4 mm<sup>2</sup>
- Simplified insertion of single conductors for wire stripping using locating ridges
- Easy insertion of coax and data cable thanks to opening aid
- Multi-component design with a soft plastic zone for comfortable use and a secure grip
- Housing made from stable glass fibre reinforced plastic



16 95 01 SB  
version for right-handers

(PAT. PEND.)



NEW

16 95 02 SB  
version for left-handers

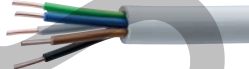
Product video



Ø 4.8 – 7.5 mm



Ø 8 – 13 mm



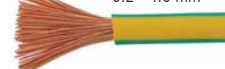
CAT 5–7 UTP/STP



0.2 – 4.0 mm<sup>2</sup>



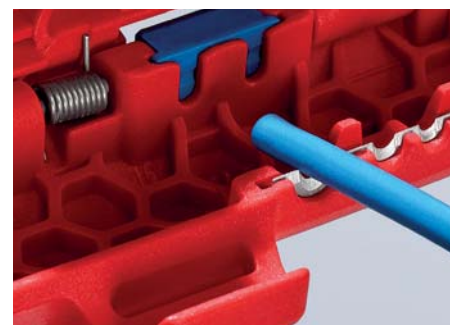
0.2 – 4.0 mm<sup>2</sup>



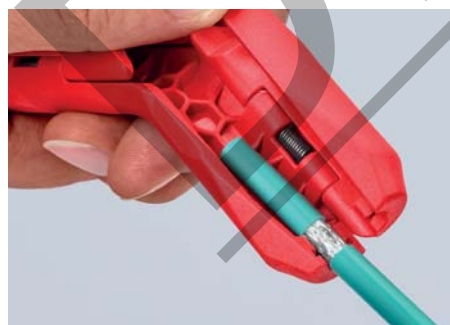
Stripping of a NYM cable



With concealed cutter in overhanging thumb rest on the side for convenient lengthwise cut



Practical locator simplifies the insertion of single conductors for stripping



Stripping of a data cable



Stripping of a coax cable




Stripping of a coax cable

Article No.	EAN	↔ mm		Stripping capacities				Δ g
				round cable Ø mm	conductors and strands mm <sup>2</sup>	data cable	coax cable Ø mm	
16 95 02 SB	082910	135	MM	8 - 13	0.2 - 4	CAT 5 - 7, Twisted pair (UTP/STP)	4.8 - 7.5	40
16 95 01 SB	079927	135	MM	8 - 13	0.2 - 4	CAT 5 - 7, Twisted pair (UTP/STP)	4.8 - 7.5	40

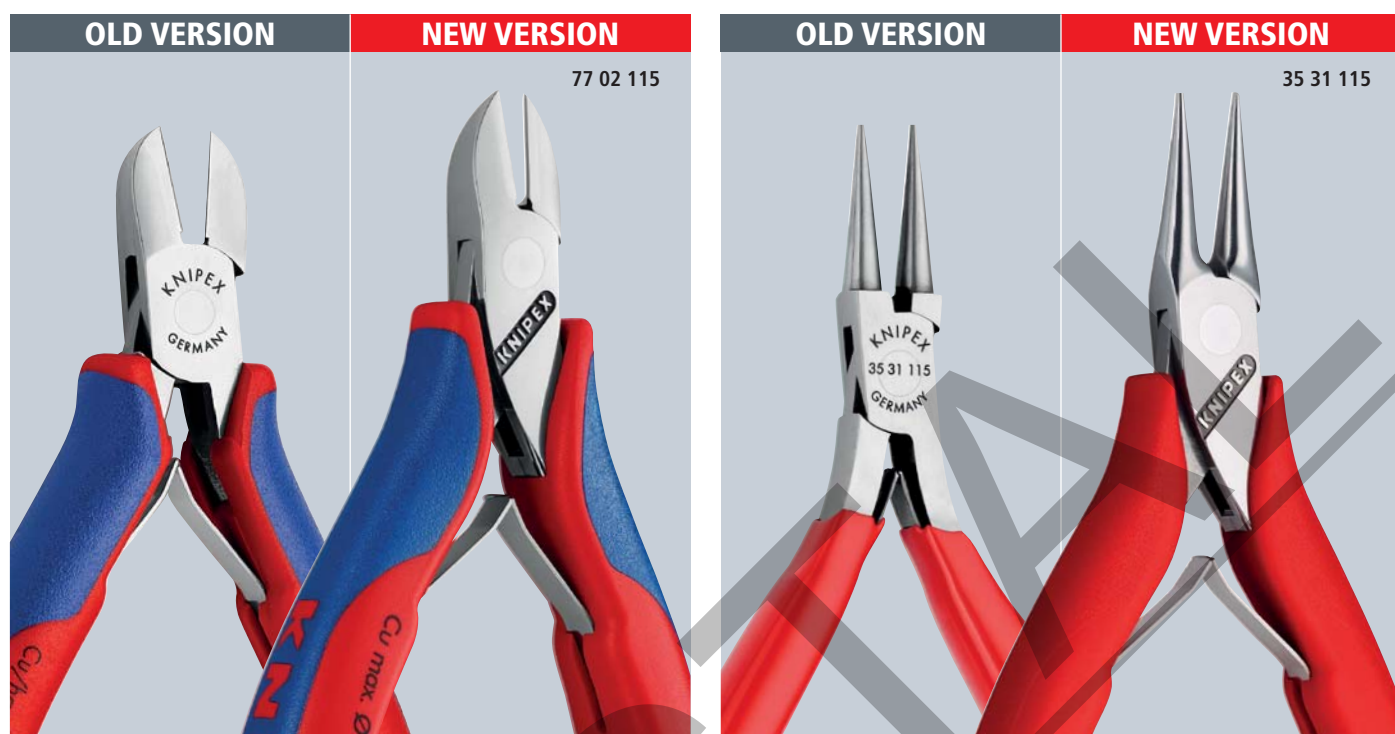
## New design, easier to use: KNIPEX Electronics Pliers

KNIPEX presents the re-engineered electronics diagonal cutters, end cutting nippers and gripping pliers with box joint design. Whether in terms of durability, transmission of force or dexterity, the new models are more compact and more powerful in many areas:

- ▶ Improved durability due to material change to ball bearing steel
- ▶ Greater joint stability: the large double guided box joint design allows for a long, zero backlash use
- ▶ Greater "dexterity": the geometry adjustments of the pliers ensure a uniform bending behavior and increase the sensitivity when working.

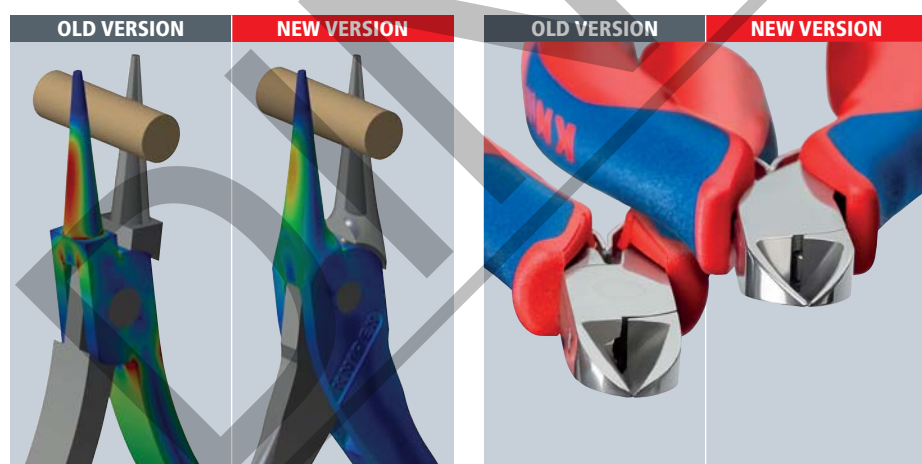


Comfortable to use with  
replaceable, friction-free  
opening spring



- ▶ Less physical effort due to improved transmission
- ▶ Laser-hardened cutting edges for long-lasting excellent cutting performance

- ▶ Dip-coated model (left) is replaced by the new, non-slip single component grip (right)
- ▶ New head shape for improved accessibility; due to the rounded edges on the head of the pliers, there is no inadvertent damage to surrounding components



- > The bionic design increases the service life thanks to the optimised distribution of stress

- > The fluted moulding behind the cutting edge reduces the required cutting force when cutting thicker materials



- > Controlled, sensitive guiding of the pliers thanks to the raised, slim multi-component and single component grips

## Automatic Stripping Pliers

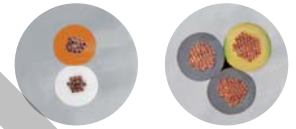
For multicore cable Ø 4.4 to Ø 7.5 mm  
with irregular sheathing cross-section

12

- ▶ For control and sensor cables / actuator cables, also for stripping flexible 3-core feed cables and extension cable
- ▶ Automatic adjustment to cable diameters between 4.4 and 7.5 mm
- ▶ No damage to the inner conductor or shield braid
  - > For oil-resistant, halogen-free control and sensor / actuator cables with multicore cable design, shielded and unshielded
  - > Suitable for highly flexible TPE-U-pipes, PUR and PVC cable sheathing, rubber leads such as H05 etc.
  - > Long stripping lengths possible
  - > Body: plastic, fibreglass-reinforced
  - > Exchangeable blade: special tool steel, oil-hardened



12 74 180





Sectional view of an extension lead



Required stripping length easy to read off



Complex cutter design for precise and damage-free stripping of round cables

Article No.	EAN	↔ mm	Stripping capacities Ø mm	⚖ g
12 74 180 SB 	082323	175	4.4 - 7.5	120
12 79 31 	082682	1 pair of spare blades for 12 74 180 SB		

**Range boxes of end sleeves (ferrules)**

Brand sleeves from German production

97

► **Practical dispenser box, stackable and reclosable**

- Handy and transparent dispenser box
- Rotatable lid with opening to take out individual end sleeves (ferrules)
- Format: Ø 90 mm, height 44 mm

**97 99 905 / 97 99 906 / 97 99 907**

equipped with insulated end sleeves (ferrules) to DIN colour code

**97 99 908 / 97 99 909**

equipped with insulated twin end sleeves (ferrules) to DIN colour code

**97 99 910 / 97 99 911**

equipped with uninsulated end sleeves (ferrules)



Article No.	EAN 4003773-		g
<b>97 99 905</b> N	082446	With 30 pieces each insulated 0.25 / 0.34 / 0.5 / 1 mm <sup>2</sup> end sleeves (ferrules)	70
<b>97 99 906</b> N	082453	With 50 pieces each insulated 0.5 and 2.5 mm <sup>2</sup> and 100 pieces each 0.75 / 1 / 1.5 mm <sup>2</sup> end sleeves (ferrules)	95
<b>97 99 907</b> N	082460	With 50 pieces insulated 4.0 mm <sup>2</sup> , 20 pieces each 6.0 and 10.0 mm <sup>2</sup> , 10 pieces 16 mm <sup>2</sup> end sleeves (ferrules)	90
<b>97 99 908</b> N	082477	With 50 pieces each twin end sleeves (ferrules) 2 x 0.75 / 1 / 1.5 / 2.5 mm <sup>2</sup>	95
<b>97 99 909</b> N	082484	With 20 pieces twin end sleeves (ferrules) 2 x 4 mm <sup>2</sup> , 10 pieces each 2 x 6 and 2 x 10 mm <sup>2</sup> , 5 pieces 2 x 16 mm <sup>2</sup>	85
<b>97 99 910</b> N	082491	With 500 pieces each 0.5 and 0.75 mm <sup>2</sup> , 400 pieces 1.0 mm <sup>2</sup> , 300 pieces 1.5 mm <sup>2</sup> , 200 pieces 2.5 mm <sup>2</sup> non-insulated end sleeves (ferrules)	145
<b>97 99 911</b> N	082507	With 150 pieces 4.0 mm <sup>2</sup> , 75 pieces each 6.0 and 10.0 mm <sup>2</sup> , 50 pieces 16.0 mm <sup>2</sup> non-insulated end sleeves (ferrules)	140

**Electricians' shears**

Universal shears with crimp area for electricians

95

► **New: with crimp function for end sleeves (ferrules)**

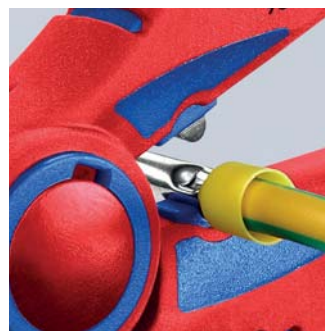
- Precisely ground blades with fine serration for clean, non-slip (nonskid) cut
- Crimp zone for crimping end sleeves (ferrules) up to a diameter of 6.0 mm
- With plastic belt pouch
- Handles with multi-component grips, glass fibre reinforced
- Cutting edges made from stainless steel, hardness of cutting edges 56 HRC



No slipping thanks to micro-serration



Integrated cable cutter



Fast, easy crimping



Safely stored and ready to hand at all times

Article No.	EAN 4003773-	mm	g
<b>95 05 10 SB</b> N	082125	160	144

Product video



## Tool Case "Robust 34" Electric

26 parts

00

- For the toughest operating conditions:  
dust-tight, waterproof and temperature resistant
- Filled with 26 branded tools for professional electricians

- > Fit to fly case, made from impact-resistant polypropylene
- > Clear, tried and tested layout
- > Padlock eyelets
- > Air pressure compensation valve
- > Document compartment; tool panels made of Con-Pearl® with pouches that can be filled with tools
- > Base tray with aluminium separators, 510 x 419 x 215 mm
- > 34 litre capacity
- > Maximum load of 25 kg

### 00 21 36 LE

Case supplied without tools

00 21 36



Con-Pearl® is a registered trademark of friedola TECH GmbH



With shoulder strap and convenient multi-component handle



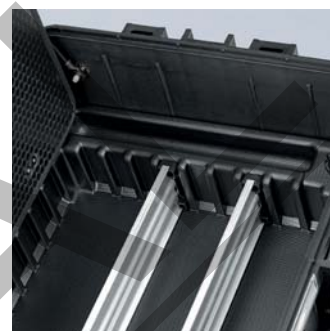
With pressure valve for venting and name plate















With document compartment



With locking mechanism by means of a padlock (padlock not included with delivery)



Aluminium separators for individually dividing up the base tray

Article No.	EAN					Quantity	Nominal size	g
00 21 36 	4003773-082583							10000
			00 11 01	KNIPEX TwinKey®, for all standard cabinets and shut-off systems	Knipex	1		
			08 26 145	Needle-Nose Combination Pliers	Knipex	1	145 mm	
			12 40 200	Self-Adjusting Insulation Strippers	Knipex	1	200 mm	
			13 86 200	Pliers for Electrical Installation	Knipex	1	200 mm	
			16 95 01 SB	KNIPEX ErgoStrip®, Universal Dismantling Tool	Knipex	1	135 mm	
			70 06 160	Diagonal Cutter	Knipex	1	160 mm	
			87 01 180	KNIPEX Cobra®, Hightech Water Pump Pliers	Knipex	1	180 mm	
			97 53 04	Self-Adjusting Crimping Pliers for End Sleeves (ferrules), with lateral access	Knipex	1	180 mm	
			98 52	Cable Knife	Knipex	1	185 mm	
			003484	16-part set of VDE interchangeable blades, slim	Wera	1		
			16135	Model 70 Electric spirit level	Stabila	1	430 mm	
00 21 36 LE 	082576			Case supplied without tools				7100

## Tool Case "Robust45" Electric

63 parts

00

- For the toughest operating conditions:  
dust-tight, waterproof and temperature resistant
- Extensively filled with 63 branded tools for  
professional electricians

- > Fit to fly case, made from impact-resistant polypropylene
- > Clear, tried and tested layout
- > Can be used as trolley: with telescopic handle and wheels
- > Padlock eyelets
- > Air pressure compensation valve
- > Gas pressure absorber in the hinge
- > Document compartment; tool panels made of Con-Pearl® with pouches that can be filled with tools
- > Pneumatically cushioned lid
- > Base tray with aluminium separators, 609 x 428 x 263 mm
- > 45 litre capacity
- > Maximum load of 35 kg

00 21 37 LE

Case supplied without tools

Gas pressure absorber in the hinge: convenient opening of the lid of the case, with no risk of injury from the case closing inadvertently



00 21 37

Con-Pearl® is a registered trademark of friedola TECH GmbH



With large easy-roll wheels and telescopic handle for convenient transportation – also on uneven ground



With pressure valve for venting and name plate



With document compartment

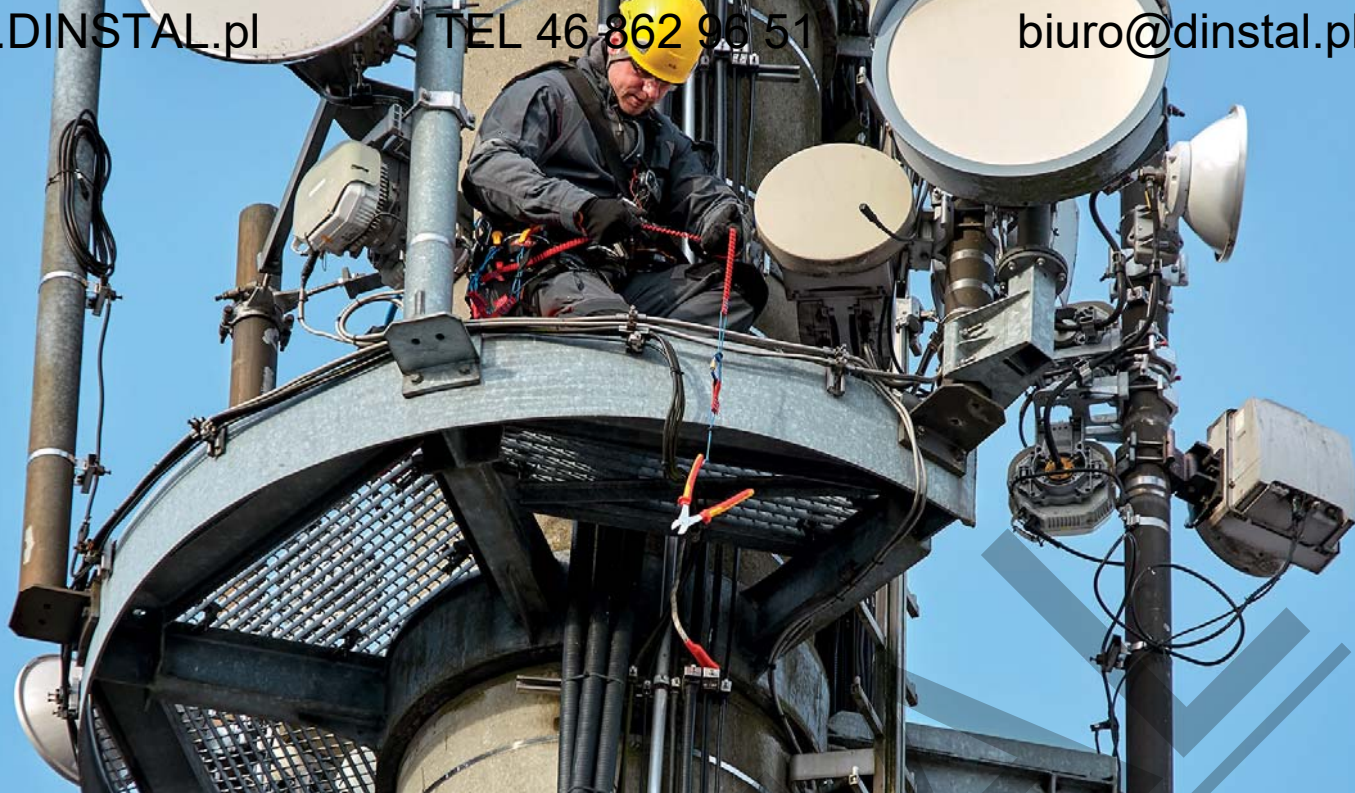


With locking mechanism by means of a padlock (padlock not included with delivery)



Aluminium separators for individually dividing up the base tray

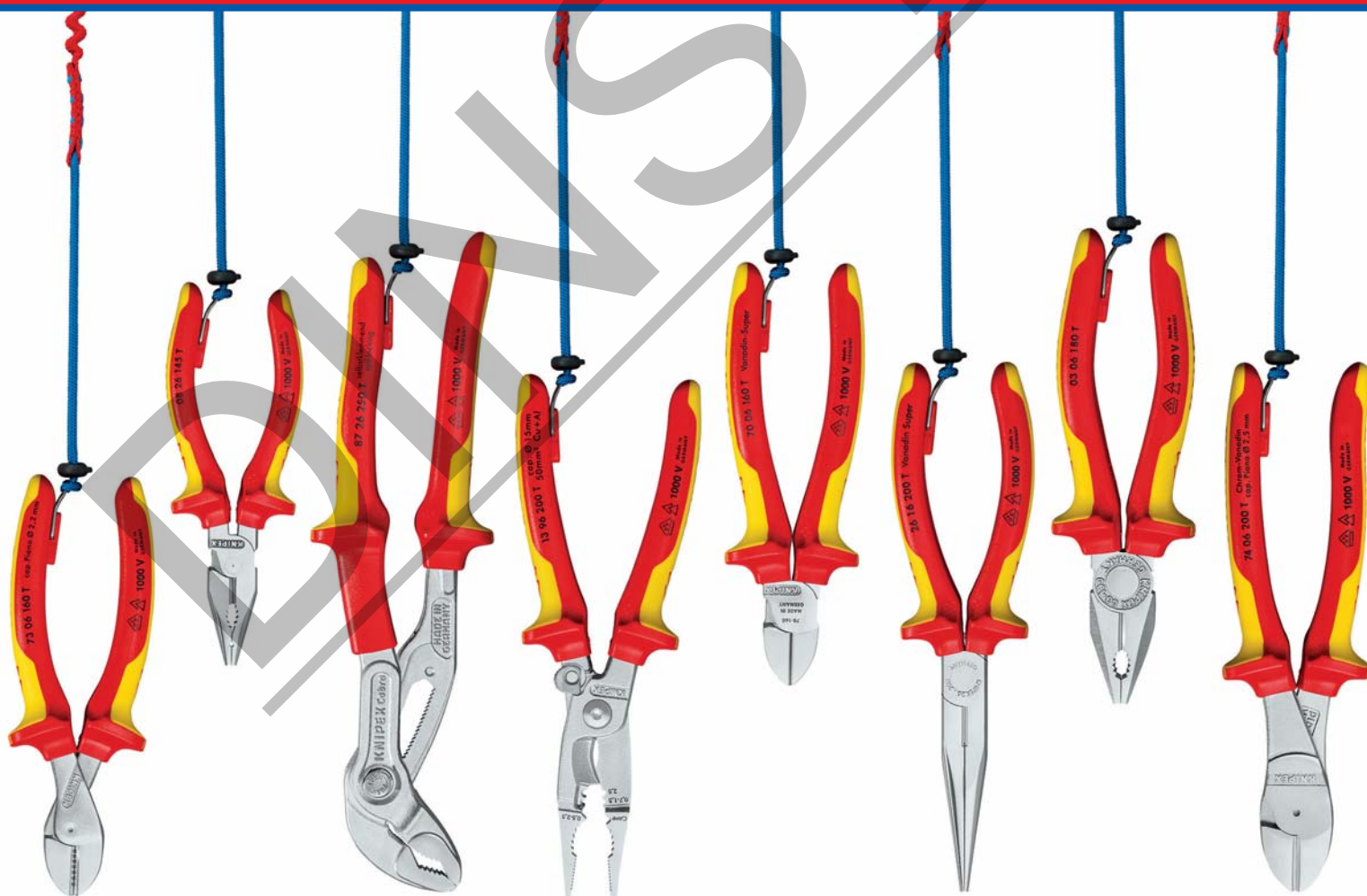
Article No.	EAN					Quantity	Nominal size	g
00 21 37 N	082606				Tool Case "Robust45" Electric, 63 parts			15000
			00 11 01	KNIPEX TwinKey®, for all standard cabinets and shut-off systems	Knipex	1		
		1000 V	08 26 145	Needle-Nose Combination Pliers	Knipex	1	145 mm	
		1000 V	12 42 195	KNIPEX MultiStrip 10, Automatic Insulation Stripper	Knipex	1	195 mm	
		1000 V	13 86 200	Pliers for Electrical Installation	Knipex	1	200 mm	
		1000 V	16 95 01	KNIPEX ErgoStrip®, Universal Dismantling Tool	Knipex	1	135 mm	
		1000 V	26 26 200	Snipe Nose Side Cutting Pliers (Stork Beak Pliers)	Knipex	1	200 mm	
		1000 V	70 06 160	Diagonal Cutter	Knipex	1	160 mm	
		1000 V	74 06 200	High Leverage Diagonal Cutter	Knipex	1	200 mm	
			86 03 180	Pliers Wrench, pliers and a wrench in a single tool	Knipex	1	180 mm	
			87 01 180	KNIPEX Cobra®, Hightech Water Pump Pliers	Knipex	1	180 mm	
			97 53 04	Self-Adjusting Crimping Pliers for End Sleeves (ferrules), with lateral access	Knipex	1	180 mm	
		1000 V	98 52	Cable Knife	Knipex	1	190 mm	
		1000 V	98 25 01 SL	Screwdriver (Slim) for cross-recessed screws, Pozidriv®	Knipex	1	187 mm	
		1000 V	98 20 35 SL	Screwdriver (Slim) for slotted screws	Knipex	1	202 mm	
			3003010119	Locksmith's hammer, 300 g	Picard	1		
			004018	8100 SA 8 Zyklop set of metal ratchets, 28 parts	Wera	1	1/4"	
			003760	Joker open-end wrench	Wera	1	10x13 mm	
		1000 V	003484	16-part set of VDE interchangeable blades, slim	Wera	1		
			18115	Pocket Electric mini spirit level	Stabila	1	68 mm	
			16135	Model 70 Electric spirit level	Stabila	1	430 mm	
			361 252 1	Electrician's Chisel	Rennsteig	1	250x10 mm	
00 21 37 LE N	082590			Case supplied without tools				10800



# VDE-tested tools with drop protection system



△ 1000 V



**KNIPEX Tethered Tools, VDE-tested**

Flexible drop protection system

**T**

- ▶ Working at heights and live line working are associated with greater risk
- ▶ Using the Tethered Tools versions of the individually tested KNIPEX VDE pliers significantly reduces hazards caused by falling tools
- > 16 different models of insulated KNIPEX pliers available in a Tethered Tools version (others on request)
- > Tool is reliably protected by a tether, adapter strap and carabiner
- > Doubly safeguarded work: extremely stable tether attachment welded tightly to the handle, for attaching a tether
- > Tether attachment does not get in the way during unsecured work on the ground
- > Handles with insulating multi-component grips, additionally tested for stress from heat, cold, tension and impact; tested in accordance with DIN EN / IEC 60900, VDE



You can find all models of Tethered Tools from page 26

Article No.	EAN 4003773-	↔ mm	Pliers
<b>03 06 180 T</b>	081395	180	Combination Pliers
<b>08 26 145 T</b>	081401	145	Needle-Nose Combination Pliers
<b>11 06 160 T</b>	081418	160	Insulation Strippers
<b>13 96 200 T</b>	081425	200	Pliers for Electrical Installation
<b>13 66 180 T</b>	081319	180	KNIPEX StriX, Insulation Strippers with Cable Shears
<b>25 06 160 T</b>	081432	160	Snipe Nose Side Cutting Pliers, Radio Pliers
<b>26 16 200 T</b>	081449	200	Snipe Nose Side Cutting Pliers (Stork Beak Pliers), straight
<b>26 26 200 T</b>	081456	200	Snipe Nose Side Cutting Pliers (Stork Beak Pliers), angled
<b>70 06 160 T</b>	081463	160	Diagonal Cutter
<b>70 06 180 T</b>	081470	180	Diagonal Cutter
<b>73 06 160 T</b>	081487	160	KNIPEX X-Cut® Compact Diagonal Cutter
<b>74 06 200 T</b>	081494	200	High Leverage Diagonal Cutter
<b>74 06 250 T</b>	081500	250	High Leverage Diagonal Cutter
<b>87 26 250 T</b>	081517	250	KNIPEX Cobra® VDE, Hightech Water Pump Pliers
<b>95 16 165 T</b>	081524	165	Cable Shears
<b>97 78 180 T</b>	081531	180	Crimping Pliers for end sleeves (ferrules)

# The tool protection system for tools with tether attachment

Product video



- Versatile application potential ranging from building construction to industrial climbers
- Reliably prevents the tool from falling down and can protect against serious injuries, damage to property or loss

## Tether

00  
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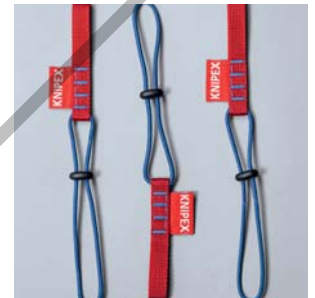
- > Wide working radius: flexible tether for user-friendly work
- > Variable fastening options: with strap made of a flat belt sewn to one end and a cord and cord stopper sewn into the other end
- > Suitable for all KNIPEX pliers with tether attachment



## Adapter straps

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- > Diverse options for fastening in combination with the carabiner and the tether
- > Permits fast, safeguarded switching from the fastener on the tool bag to the tether and from one tool to another
- > Suitable for all KNIPEX pliers with tether attachment



## Carabiners

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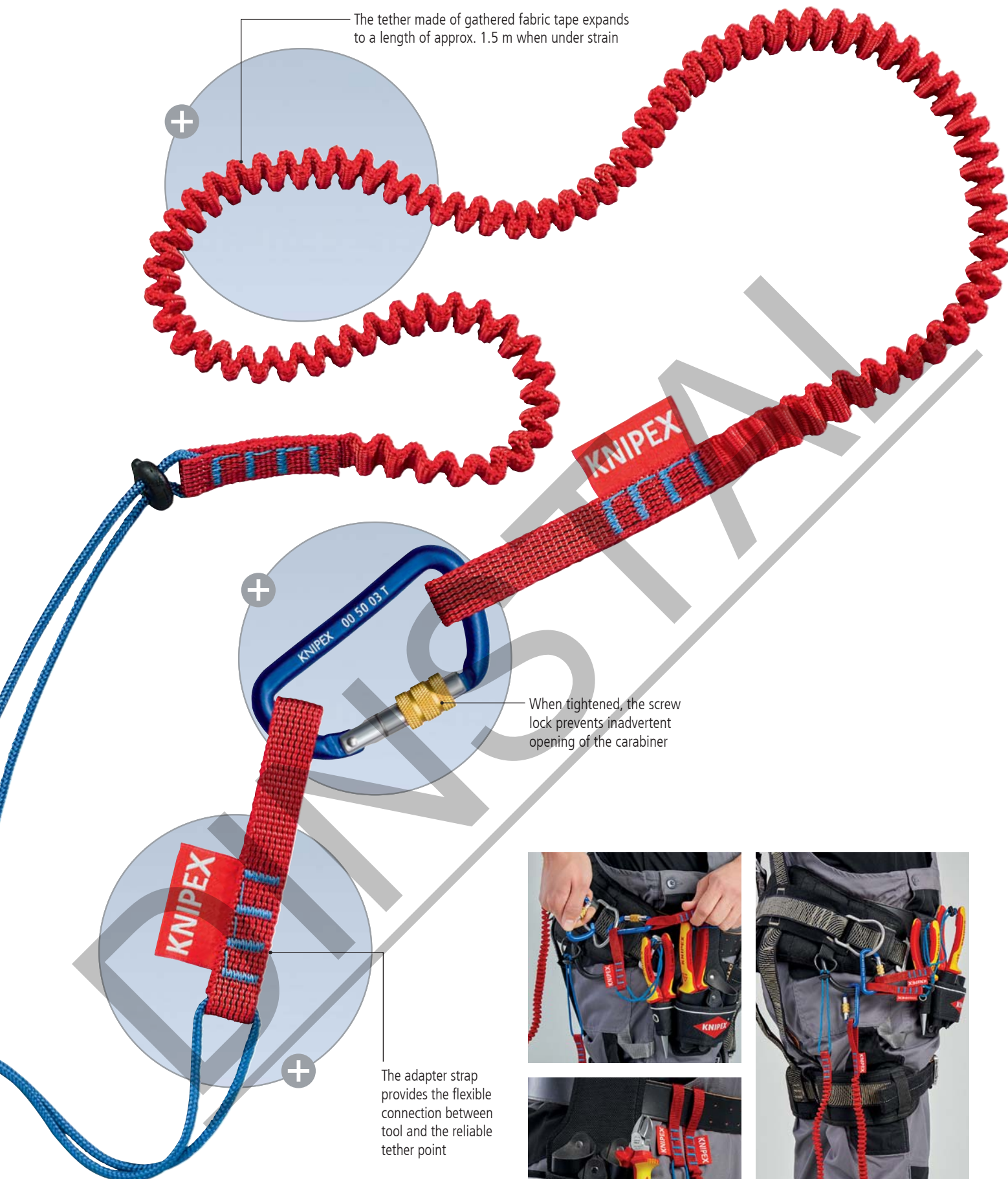
- > With screw lock to prevent accidental opening
- > Safeguarded: catch to increase the tensile strength
- > Strong and light aluminium design weighing just 28 g each
- > For connecting adapter strap and tether or to attach these to a fixed point



00 50 04 T BK: the complete Tethering System Set














Article No.	EAN	
00 50 01 T BK	081357	1 x Tether
00 50 02 T BK	081364	3 x Adapter strap
00 50 03 T BK	081371	2 x Carabiner
00 50 04 T BK	081388	Tethering System Set: 1 Tether, 3 x Adapter strap, 2 x Carabiner




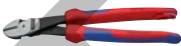



























# Pliers with tether attachment point





## Complete range



	Article No.	Description
<b>Pliers range with tether attachment point for a tool tether</b>		
	02 02 225 T black atramentized; head polished	High Leverage Combination Pliers, 35 % energy saved compared to conventional combination pliers due to optimised transmission
	08 22 145 T black atramentized; head polished	Needle-Nose Combination Pliers, Slim head for use in inaccessible work areas
	09 02 240 T black atramentized; head polished	Lineman's Pliers, American style, requires 50 % less effort compared with conventional combination pliers
	09 12 240 T black atramentized; head polished	09 12 240 T: with cable pulling device and universal mandrel crimp
	13 05 160 T chrome plated	Electricians' Pliers, For gripping, bending, cutting wire and crimping end sleeves (ferrules)
	13 82 200 T black atramentized; head polished	Pliers for Electrical Installation, multifunctional pliers for the electrical installation
	26 12 200 T black atramentized; head polished	Snipe Nose Side Cutting Pliers, (Stork Beak Pliers), Extremely durable, elastic precision tips; half-round, long, pointed jaws; straight
	26 15 200 T chrome plated	
	26 22 200 T black atramentized; head polished	Snipe Nose Side Cutting Pliers, (Stork Beak Pliers), Extremely durable, elastic precision tips; half-round, long, pointed jaws; bent
	26 25 200 T chrome plated	
	70 05 160 T chrome plated	Diagonal Cutter, Slim head for use in inaccessible work areas; with fall protection mechanism, available in compact 160 mm length and robust 180 mm length
	70 05 180 T chrome plated	
	71 02 200 T black atramentized	KNIPEX CoBolt®, Compact Bolt Cutters, Particularly high cutting performance with little physical effort
	71 22 200 T black atramentized	71 22 200 T: 20° angled head with single-sided joint bar and diagonal cutting edge for flush cutting
	71 32 200 T black atramentized	71 32 200 T: Recess in the blade for cutting thicker wire
	73 05 160 T chrome plated	KNIPEX X-Cut®, Compact Diagonal Cutter, For the toughest, sustained use

	Article No.	Description
<b>Pliers range with tether attachment point for a tool tether</b>		
	74 02 200 T black atramentized; head polished	High Leverage Diagonal Cutters, high cutting performance with minimum effort; Available with fall protection in 200 mm and 250 mm lengths
	74 02 250 T black atramentized; head polished	
	74 22 200 T black atramentized; head polished	74 22 200 T: 12° angled head in a 200 mm length
	74 22 250 T black atramentized; head polished	74 22 250 T: 12° angled head in a 250 mm length
	86 05 180 T chrome plated	Pliers Wrenches, pliers and a wrench in a single tool, for damage free installation of plated fittings; Available with fall protection in a compact 180 mm a classic 250 mm length
	86 05 250 T chrome plated	
	87 02 180 T grey atramentized; head polished	KNIPEX Cobra®, Hightech Water Pump Pliers, push the button for adjustment on the workpiece; self-locking on pipes and nuts; Available with fall protection in a compact 180 mm length, a classic 250 mm length and in a 300 mm length for greater leverage
	87 02 250 T grey atramentized; head polished	
	87 02 300 T grey atramentized; head polished	
	88 02 250 T black atramentized; head polished	KNIPEX Alligator®, Water Pump Pliers, self-locking on pipes and nuts; box-joint design; Available with fall protection in the classic 250 mm length and in a 300 mm length for greater leverage
	88 02 300 T black atramentized; head polished	
	95 12 165 T burnished	Cable Shears, precision ground, hardened blades: clean and smooth cut without crushing and deformation
	95 62 190 T head polished	Wire Rope Cutter, forged, Cutter geometry prevents the wire rope fanning out

	Article No.	Description
<b>VDE Pliers range with tether attachment point for a tool tether</b>		
	03 06 180 T chrome plated	<b>N</b> Combination Pliers, with gripping zones for flat and round material
	08 26 145 T chrome plated	<b>N</b> Needle-Nose Combination Pliers, Slim head for use in inaccessible work areas
	11 06 160 T chrome plated	<b>N</b> Insulation Stripper, for single, multiple and fine stranded conductors with plastic or rubber insulation
	13 96 200 T chrome plated	<b>N</b> Pliers for Electrical Installation, multifunctional pliers for the electrical installation
	13 66 180 T chrome plated	<b>N</b> KNIPEX StriX, Insulation Strippers with Cable Shears
	25 06 160 T chrome plated	<b>N</b> Snipe Nose Side Cutting Pliers (Radio Pliers), for gripping and cutting work in precision mechanics; pointed, half-round jaws
	26 16 200 T chrome plated	<b>N</b> Snipe Nose Side Cutting Pliers, (Stork Beak Pliers), Extremely durable, elastic precision tips; half-round, long, pointed jaws
	26 26 200 T chrome plated	<b>N</b> 26 16 200 T: straight 26 26 200 T: bent
	70 06 160 T chrome plated	<b>N</b> Diagonal Cutter, Slim head for use in inaccessible work areas; available with fall protection in a compact length of 160 mm and a robust 180 mm length
	70 06 180 T chrome plated	<b>N</b>
	73 06 160 T chrome plated	<b>N</b> KNIPEX X-Cut®, Compact Diagonal Cutter, for the toughest, sustained use
	74 06 200 T chrome plated	<b>N</b> High Leverage Diagonal Cutters, high cutting performance with minimum effort; Available with fall protection in lengths of 200 mm and 250 mm
	74 06 250 T chrome plated	<b>N</b>
	87 26 250 T chrome plated	<b>N</b> KNIPEX Cobra® VDE, Hightech Water Pump Pliers, push the button for adjustment on the workpiece and nuts
	95 16 165 T chrome plated	<b>N</b> Cable Shears, precision ground, hardened blades: clean and smooth cut without crushing and deformation
	97 78 180 T polished	<b>N</b> Crimping Pliers for end sleeves (ferrules), Secure crimping in 9 marked half-round dies with tapered side surfaces

	Article No.	Description
<b>Drop protection system for tools with tether attachment point</b>		
	00 50 01 T BK <b>N</b>	1 x Tether Wide working radius: the tether made of gathered fabric tape expands to a length of approx. 1.5 m when under strain
	00 50 02 T BK <b>N</b>	3 x Adapter straps Flexible connection between tool and the reliable tether point
	00 50 03 T BK <b>N</b>	2 x Carabiner When tightened, the screw lock prevents inadvertent opening of the carabiner
	00 50 04 T BK <b>N</b>	Tethering System Set For diverse options for attaching KNIPEX pliers using the tether attachment (1 x Tether, 3 x Adapter straps, 2 x Carabiner)

► Our drop protection system is also suitable for our wide range of VDE-tested screwdrivers



The through hole on the handle of all KNIPEX screwdrivers permits connection to our drop protection system.

## KNIPEX StriX

Insulation Strippers with Cable Shears

13

### ► Insulation strippers with Cable Shears – two essential electrical installation tools in one pair of pliers

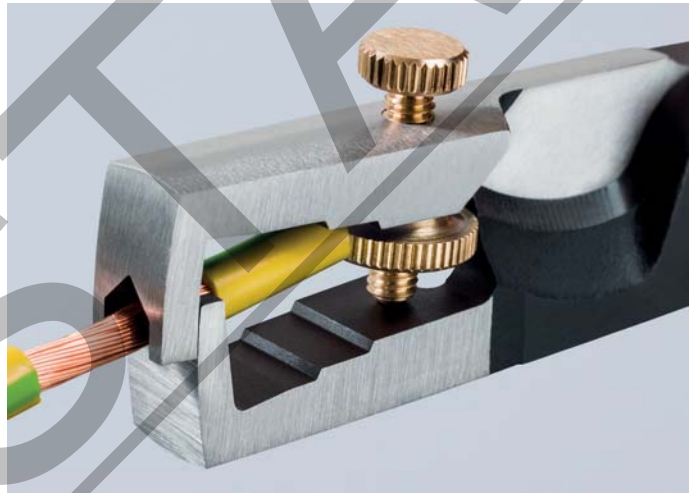
- > Integrated Cable Shears for the clean cutting of Cu and Al cables without crushing
- > Universal adjustment of the wire stripping blades by means of a knurled screw
- > Slim design for good accessibility
- > For stripping single, multiple and fine stranded conductors with plastic and rubber insulation up to a max. Ø 5 mm or resp. 10 mm<sup>2</sup> conductor cross-section
- > Graduated jaw provides a visual orientation aid when stripping wire in standard lengths (11 mm and 16 mm)
- > Special high grade tool steel that has been oil-hardened in multiple stages



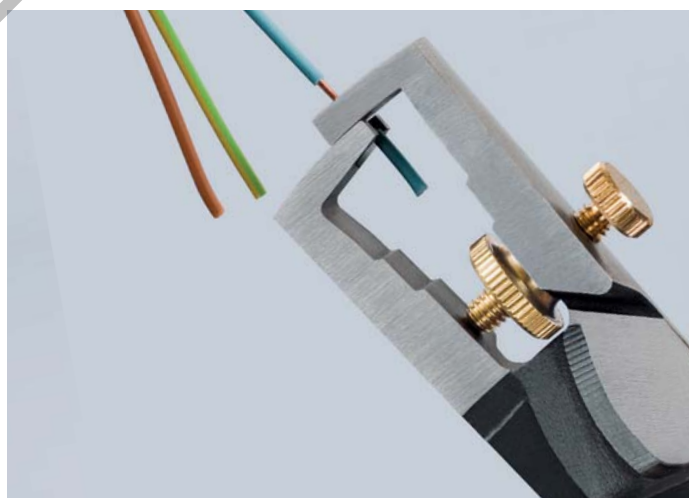
Induction hardened precision blade



Induction hardened shear blade with precisely ground cutting edges for crushing-free cutting of copper cables up to Ø 15 mm (5 x 2.5 mm<sup>2</sup>)

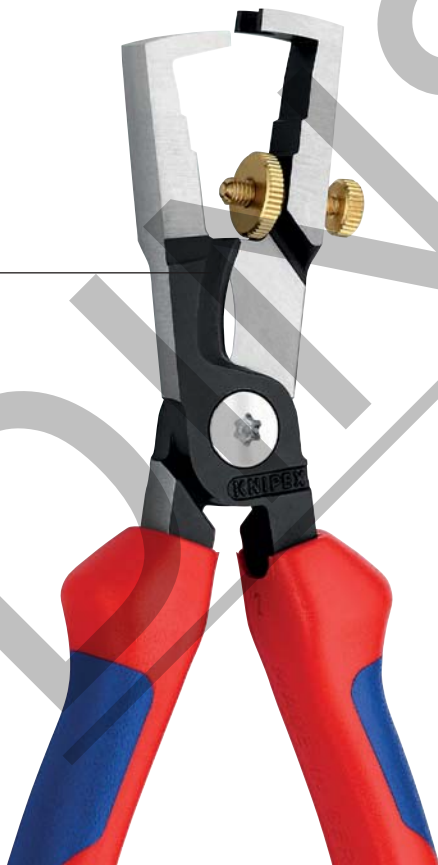


Lock nut prevents any unintentional adjustment



Length marking: visual markings provide support during repeated stripping of wire in standard lengths (11 and 16 mm)

Product video



Article No.	EAN	↔ mm	Pliers	Head	Handles	Cutting capacities		Stripping capacities		⚖ g
						Ø mm	mm <sup>2</sup>	Ø mm	mm <sup>2</sup>	
13 62 180	081302	180	black atramentized	polished	with multi-component grips	15	50	5.0	10	210
13 66 180	081319	180	chrome plated		insulated with multi-component grips, VDE-tested	15	50	5.0	10	210



## **KNIPEX StriX**

Cutting and insulation stripping  
without changing tools

## Electronic Super Knips® XL

78

### ► Additional 15 mm longer version: greater stability, improved cutting performance

- > Precision ground cutting edges without bevel for accurate flush cutting through the finest of wires e.g. in electronics and precision engineering
- > Precisely shaped tips also cut adjacent wires as from Ø 0.2 mm
- > With opening spring and opening limiter for convenient, ergonomic and fast working due to automatic opening and user-friendly handle width
- > Extremely smooth movement for minimum operator fatigue due to joint with stainless steel rivet

#### 78 03 140 / 78 03 140 ESD

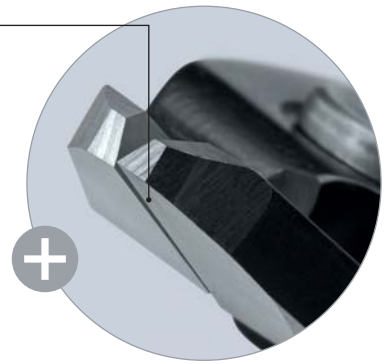
Durable and stainless, made from INOX surgical steel, cutting edges hardened to 54 HRC

#### 78 61 140 / 78 61 140 ESD

Heavy duty, made from burnished special tool steel, cutting edges additionally induction hardened to 64 HRC



78 03 140

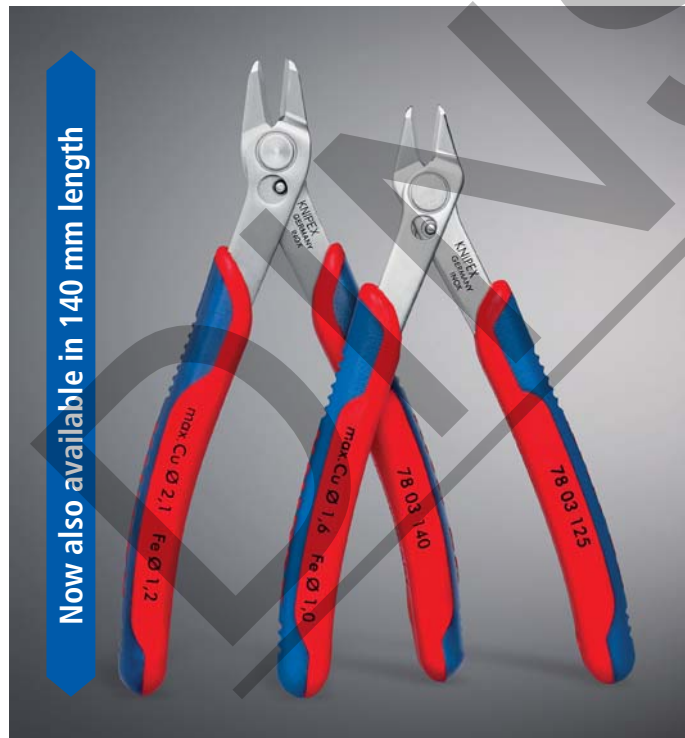


Shear cut with controlled micro cutting edge misalignment for the most precise cutting of even the thinnest of wires and for a long service life

Product video



78 61 140 ESD



Now also available in 140 mm length

140 mm length: stronger and extremely versatile



For flush cutting, e.g. to shorten cable ties

Article No.	EAN	↔ mm		Pliers	Head	Handles	Ø mm	Ø mm	g
78 03 140	081647	140			polished	with multi-component grips	0.2 - 2.1	1.2	77
78 03 140 ESD	081661	140			polished	with multi-component grips	0.2 - 2.1	1.2	77
78 61 140	081685	140		burnished		with multi-component grips	0.2 - 2.1	1.4	77
78 61 140 ESD	081708	140		burnished		with multi-component grips	0.2 - 2.1	1.4	77

## Electronic Super Knips® XL

Sharp, precise, powerful

Now also available in 140mm length



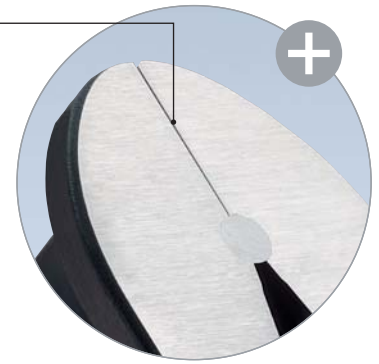
## High Leverage Flush Cutter for soft metal and plastic

72

### ► For easy and flush cutting of soft metal or thicker profiles as well as plastic components

- > Energy saving, flush cutting also of thick workpieces thanks to extremely effective lever action mechanism with very low friction
- > Space for hands and flush cutting due to 20° angled head with joint bar on one side
- > Opening spring and locking device are integrated in the handles also for comfortable work and protected transport
- > Precision cutting edges for soft material
- > Durable due to cutting edges induction hardened to 59 HRC
- > Chrome vanadium electric steel, forged, multi stage oil-hardened

Product video



Materials are cut flush thanks to the almost bevel-free precision cutting edge

View: Back of pliers



Copper busbars are cut cleanly and flush



Ideal for the flush cutting of plastic sprues with large diameters

Article No.	EAN	↔ mm		Pliers	Handles	Ø mm	g
72 62 200	081913	200		black atramentized	with slim multi-component grips	6.0	375

# High Leverage Flush Cutter for soft metal and plastic

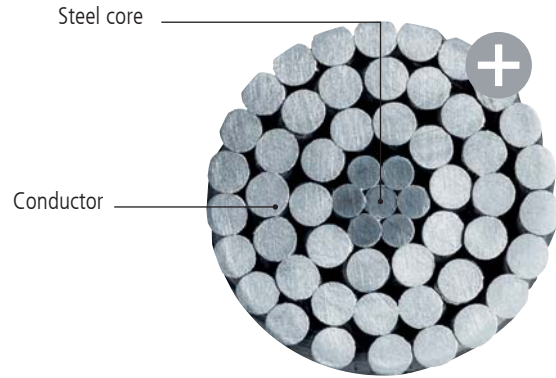
Simple flush cutting



## ACSR Cable Cutter (ratchet action)

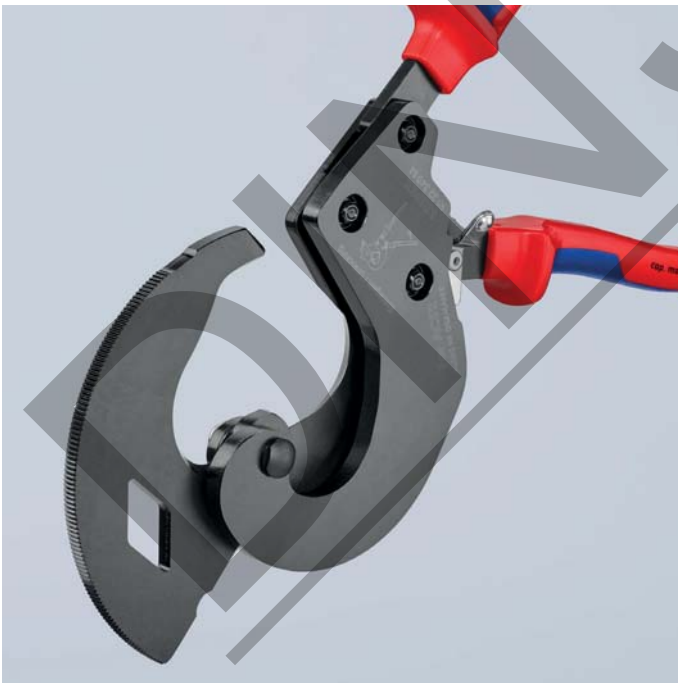
95

- ▶ The cable cutter cuts through ACSR cable with a steel core (= Aluminium Conductor Steel Reinforced) up to a diameter of 32 mm
- ▶ With one or two-handed operation, the high leverage guarantees a simple, accurate cut
- > Handy and compact with highest performance
- > Extremely stable, dual guided rotating blade
- > No fanning out of the cable: precision ground and induction hardened cutting edge for a clean cut and long service life
- > Low handforce required due to two-stage gear drive with ratchet mechanism
- > Fixed handle with support area for putting down the pliers when cutting
- > Locking mechanism for transporting with securely closed handles: fits in any tool bag
- > All wearing parts are available as spare parts and can be replaced
- > Special high grade tool steel, multi stage oil-hardened



The outer area of these conductor cables consists of light, highly conductive aluminium wires, while the core is made of specially stretch-resistant, galvanised steel wires

Product video



Enormous power with a weight of just 1300 g



The strong "flange" on the handle can be used as a practical support when cutting larger diameters

Article No.	EAN	↔ mm		Pliers	Handles	⚙ mm	MCM	⚖ g
95 32 340 SR	081241	340	⚙	burnished	with multi-component grips	32	477	1300
95 39 340 01	081340			Pivot cutter repair kit for 95 32 340 SR				290

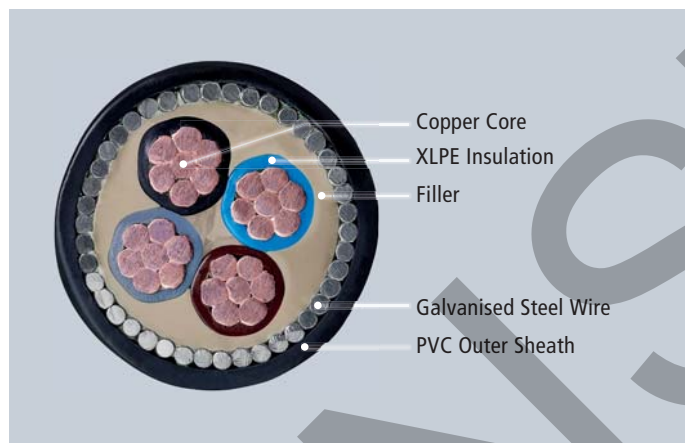
**Cable Cutters (ratchet action)**

for steel wire armoured cable (SWA-Cable)

95

- Cuts through steel wire armoured cable with a diameter of up to 45 mm / 380 mm<sup>2</sup> (e.g. 4 x 95 mm<sup>2</sup>) using one or two-handed operation

- > Simple handling due to low weight (800 g) and compact design (315 mm length) – can also be used in confined areas
- > Precision ground blades and induction hardened cutting edges cut smoothly and neatly without crushing
- > Innovative high leverage three-stage ratchet-drive
- > Support area for putting down the pliers when cutting
- > High-grade special tool steel, forged, oil-hardened
- > Not suitable for cutting ACSR cable and wire rope!



Cross-section of a steel wire armoured cable



95 36 315 A

Product video



Article No.	EAN	↔ mm		Tool	Handles	Cutting capacity		MCM	g
						Ø mm	mm <sup>2</sup>		
95 32 315 A	078562	315	MM	black lacquered	with multi-component grips	45	380	750	800
95 36 315 A	078579	315	△ 1000 V ⚡ MM	black lacquered	insulated with multi-component grips, VDE-tested	45	380	750	800
95 39 315 A 01	078586	Pivot cutter repair kit							
95 39 315 A 02	078593	Fixed cutter repair kit							

## Dismantling Pliers

DIN ISO 5743

13

- ▶ Multifunctional – dismantling, stripping and cutting with one pair of pliers
  - ▶ For time-saving dismantling and stripping of all common round and damp-proof installation cables (e.g. NYM cable)
  - ▶ Simplified access especially to deeply mounted flush sockets thanks to slim head design and optimally angled cable sheath cutter
  - ▶ Strip cables easily and without damage thanks to circular cutting edge with depth limit
- > Suitable for universal use: precision wire stripping holes for conductors from 1.5 and 2.5 mm<sup>2</sup>
- > With diagonal cutters for cutting and trimming conductors, wires, small screws and nails
- > All cutters additionally induction hardened to approx. 61 HRC for high wear resistance
- > 30 % lighter than comparable pliers



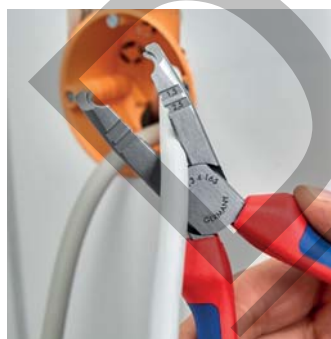
Circular cutting edge with depth limit: for easy dismantling without damage

13 46 165

Product video



Wire stripping holes for 1.5 and 2.5 mm<sup>2</sup> conductors



Cutting cable up to Ø 13 mm



Cutting when shortening single conductors



Stripping cable inside deeply mounted flush sockets

Article No.	EAN	↔ mm		Pliers	Head	Handles	Dismantling capacities Ø mm	Stripping capacities Ø mm <sup>2</sup>	Ø mm	Ø mm	g
13 42 165	079675	165	🟢	black atramentized	polished	with multi-component grips	8 - 13	1.5 / 2.5	3.2	2.2	176
13 45 165	079682	165	🟢	chrome plated		with multi-component grips	8 - 13	1.5 / 2.5	3.2	2.2	176
13 46 165	079699	165	🟢 ⚡ 1000 V	chrome plated		insulated with multi-component grips, VDE-tested	8 - 13	1.5 / 2.5	3.2	2.2	190

## Needle-Nose Combination Pliers

DIN ISO 5746

08

- ▶ Small High Leverage Combination Pliers with pointed jaw; for all common installation and repair work
  - ▶ Handy use when working in confined areas thanks to slim head design and pointed jaws (anti-twist)
  - ▶ Gripping surfaces with special convex contour on one side for secure gripping of flat parts
  - ▶ Milled groove in the gripping area permits small parts such as nails, pins and bolts to be held and pulled
- > The reliable and diverse combination pliers when out and about
  - > Easy cutting thanks to the high leverage joint
  - > With cutting edges for soft, medium-hard and hard wire
  - > Long service life and stable tips as the tool is forged from special high grade tool steel, multi stage oil-hardened



08 26 145

Product video



Tip keeps its shape even during greater torsional forces

Firm grip also on flat material due to three-point rest

Milled groove in the gripping area

Article No.	EAN 4003773-	↔ mm		Pliers	Head	Handles	Cutting capacities				
							Ø mm	Ø mm	Ø mm	mm <sup>2</sup>	g
08 21 145	078951	145		black atramentized	polished	plastic coated	3.0	2.0	8.0	16	116
08 22 145	078968	145		black atramentized	polished	with multi-component grips	3.0	2.0	8.0	16	145
08 25 145	078975	145		chrome plated		with multi-component grips	3.0	2.0	8.0	16	145
08 26 145	079361	145		chrome plated		insulated with multi-component grips, VDE-tested	3.0	2.0	8.0	16	145

## Siphon and Connector Pliers

81

- ▶ For siphons, oil filters, plastic pipes and connectors up to 80 mm diameter
- ▶ Fine adjustment for ideal adaptation to diverse diameters

- > Ideal for tightening and loosening siphon screw connections, plastic pipe fittings and round union nuts
- > For connectors and couplings with screw connection, such as cannon circular connectors
- > For gentle loosening of hoses on nozzles and filter cartridges
- > 25 adjustment positions, box-joint design
- > Ergonomic handle geometry
- > Handles with non-slip plastic coating
- > Chrome vanadium electric steel, forged, oil-hardened

### Modell 81 01 250 / 81 03 250:

With serrated gripping jaws; up to Ø 80 mm

### Modell 81 11 250 / 81 13 250:

With exchangeable plastic jaws for sensitive surfaces; up to Ø 75 mm



81 13 250

Product video



Article No.	EAN	↔ mm		Pliers	Handles	Working capacity Ø mm	Adjustment positions	⚖ g
81 01 250	078463	250		black atramentized; head polished	with non-slip plastic coating	25 - 80	25	355
81 03 250	078487	250		chrome plated	with non-slip plastic coating	25 - 80	25	355
81 11 250	078470	250		black atramentized; head polished	with non-slip plastic coating	10 - 75	25	355
81 13 250	078494	250		chrome plated	with non-slip plastic coating	10 - 75	25	355
81 19 250	078500	2 pairs of plastic jaws for 81 11 250 and 81 13 250						

## Tile Breaking Pliers

91

- ▶ Work without cutting-off machine, particularly for fine strips
- ▶ For less mess, dust, noise and effort
- ▶ For the precise cutting (breaking) of tiles and porcelain stoneware after scoring with a tile cutter
- ▶ Ideal for long and thick tiles
- > Ideal protection of tiles against damage: replaceable positioning jaw made from soft, stable plastic
- > Great crushing force thanks to 10-fold increase of manual force
- > Easily adjusted to the required tile thickness at the press of a button
- > Chrome vanadium electric steel, forged, oil-hardened



Plastic positioning jaw:  
tilting for a clean break line and  
optimum protection of the tiles  
against damage

Product video



Article No.	EAN	↔ mm		Pliers	Handle	⚖ g
91 13 250	079538	250		chrome plated	plastic coated	560
91 13 250 SB	082279	250		chrome plated	plastic coated	560
91 19 250 01	079545		Spare positioning jaw for 91 13 250			

## 1. Applicability

These Terms of Delivery are valid for all contracts – including future ones – with companies and legal persons according to general law and public law relating to special assets (**in the following referred to as "buyer"**) concerning supplies and other services, including contracts for work, consulting contracts, contract work, and the supply of acceptable and non-acceptable goods. The purchasing conditions of the buyer shall in no case apply. In cases of doubt the German version of these Terms and Conditions is determinate.

## 2. Offers

Our offers are not binding. Our catalogue and our price list are part of our offer. Illustrations, dimensions and indications of weight in our printed matter are approximate. We reserve the right to modify models and styles without separate notice. We reserve unrestricted rights of ownership and copyright exploitation with regard to cost estimates, drawings and other documents (referred to in the following as: documents). The documents may only be made accessible to third parties after our approval, and must be returned to us immediately on demand if the order is not placed with us.

## 3. Custom-made Products

Order quantities of custom-made products may exceed or fall short by 10%. This applies also to mass-product articles which are specially marked according to buyer's requirements. We can determine technical or design features that have not been explicitly ordered or specified according to the technical requirements

## 4. Prices / Order Quantities

Unless something else has been agreed upon, our price list, valid when the contract is concluded, is determinate. Our quotations are not binding, Value Added Tax will be added to the price at the current legal level. Unless otherwise agreed, all prices apply EXW Wuppertal, Germany (INCOTERMS 2010). We may choose the mode of packaging and transport at our own discretion. We reserve the right to change the ordered numbers of items into packing units.

## 5. Delivery Times

Statements on delivery or performance periods are approximate. Delivery or performance dates (delivery times) begin with the date of our order confirmation and are valid only on the condition of timely clarification of all details of the order and the timely fulfillment of all commitments of the buyer, e. g. the presentation of all official certificates or presentation of letters of credit. Our obligation to supply is subject to the provision of correct and timely supplying to us unless we are to blame for the incorrect or delayed supplying. Delivery times have been met when the goods have left our plant by that time or have been reported as ready for delivery. We reserve the right to carry out partial deliveries. If liabilities result due to delayed shipments, paragraph 11 shall apply.

## 6. Transfer of Risk

In all transactions, including freight prepaid and freight-free deliveries, the risk of loss or damage to the goods shall pass to the buyer at the time where we hand them over to the forwarding agent or to the carrier, at the latest with their departure from our warehouse.

## 7. Payment

**7.1** Payment and discount periods shall begin with the invoice date specified on the invoices; payments shall otherwise be due immediately without deduction. The amount must be at our disposal on the due date.

**7.2** Payment is only possible by bank transfer or SEPA direct debit.

**7.3** In the event of payment default, we are entitled to charge the statutory default interest (currently 9 percentage points above the base rate), and reserve the right to assert further damages.

**7.4** If, after conclusion of contract, the purchaser falls into payment arrears for a substantial amount, or if there are other circumstances that point to a substantial deterioration in the purchaser's ability to pay, we may withhold deliveries until payment is made or until sufficient guarantees have been provided. Furthermore, we shall be permitted to call due all other not yet due receivables from the ongoing business relationship with the purchaser.

**7.5** The purchaser shall only have a right of retention and offset insofar as his counterclaims are undisputed or have been declared legally binding, or are in a reciprocal relationship to our claim according to Section 320 of the German Civil Code (BGB).

## 8. Retention of Title

**8.1** Delivered goods shall remain our property (reserved goods) until full payment of the purchase price.

**8.2** The goods supplied (reserved goods) shall remain our property until all outstanding accounts have been settled, in particular that which is due to us on account in connection with the business relationship (account retention). This shall apply to future and conditional accounts receivable and if payments are made onto specially designated outstanding accounts. This account retention shall finally cease when all of the accounts receivable that remain open and are encompassed by the account retention are settled at the time of payment. However, the account retention does not apply to advance payment or cash transactions, which are dealt with as and when they come up.

**8.3** Reserved goods shall be worked and processed for us as manufacturer within the meaning of Section 950 German Civil Code (BGB) without obligating us. If our ownership expires through combining or mixing, the buyer shall transfer to us here and now the rights of ownership to the new goods or object to the extent of the invoice value of the reserved goods and shall keep such for us without charge.

**8.4** The buyer may dispose of the reserved goods only in the ordinary course of business. The claims from the resale of the reserved goods together with all securities which the buyer acquires for the claim shall here and now be transferred to us by way of security. The entitlement to collect claims from the resale shall expire in the event of our revocation which shall be possible at the latest on payment default of the buyer.

**8.5** We shall release the reserved goods and the objects or claims taking their place on request as we so choose insofar as their value exceeds the amount of the secured claims by more than 50%. Taking back reserved goods shall not constitute a rescission of contract.

**9. Industrial Property Rights**

KNIPEX reserves all rights of ownership and copyright to all of its patterns and models, illustrations, drawings, calculations and other documents and information as well as commercial and technical details provided to the customer.

**10. Claims based on defects**

**10.1** Defects must be reported immediately in writing, at the latest seven days after delivery. Defects which cannot be discovered within this time in spite of the most careful inspection are to be reported in writing as soon as possible, at the latest within seven days after discovery. We may, upon our discretion, remedy the defect or deliver non-defective goods. In case of transport damages also the person in charge of the transport must be informed. In case of shortfall quantities, buyer has to determine the gross and net weight and has to send us copies of the delivery bill and the transport documents, otherwise his complaint cannot be processed.

**10.2** The period of limitation for all claims based on defects including claims to damages shall be one year from delivery. This shall not apply if Section 438 (1) No. 2 German Civil Code (BGB), Sections 478, 479 BGB or Section 634 a (1) No. 2 BGB prescribe longer periods and in cases of injury to life, body or health, in the case of wilful or grossly negligent breach of duty on our part or in the case of deceitful concealment of a defect.

**11. Liability for Damages**

**11.1** We can be held responsible for damages incurred because of a violation of contractual and non-contractual obligations or requirements – also for our senior staff and other involved persons – only in the case of wilful intent and gross negligence, and in the case of gross negligence limited to the foreseeable typical contractual damages at the time the contract was concluded; our liability is otherwise also excluded for damages due to defects or their consequential damages.

**11.2** These restrictions do not apply to a culpable violation of essential contractual requirements, such as the correct and timely delivery and the duties to advise, protect and take due care for the purpose of enabling the buyer to use the delivered goods in accordance with the contract. Furthermore, these restrictions do not apply to culpably caused damage to life, body and health and also not if and to the extent that we have assumed the guarantee for the quality of the goods delivered, as well as in cases of compelling liability according to the Product Liability Act.

**11.3** Should we default on delivery or on performance, buyer may in accordance with Art. 11.1 and 11.2 hereunder request – in addition to the performance – compensation for damages incurred; however in case of slight negligence limited to 5% of the purchase price of the delivery in default. Buyer's right to claim damages in lieu of performance in accordance with Art. 11.1 and 11.2 hereunder remains unaffected.

**11.4** We only assume expenses associated with subsequent performance insofar as they are appropriate in the individual case, especially in relation to the purchase price of the goods, and under no account are more than 100% of the purchase price. We shall only assume further expenses, for example sorting costs, in accordance with Paragraphs 11.1 and 11.2 of these Terms and Conditions. Compelling statutory provisions shall not be affected by this.

**12. Returned Goods**





































Apart from our liability for defects, buyer shall be credited for returned goods only if and insofar as we have previously agreed to such return in writing. Returned goods shall be credited with 80% of their original price, provided they are resalable and in their original packaging. Otherwise, costs for reconditioning and packaging shall be charged additionally. Any credit will be charged against new deliveries to buyer only. For security reasons, insulated tools can not be returned.

**13. Place of performance, jurisdiction and applicable law**

Place of performance, also for the duties of the buyer, is Wuppertal. The place of jurisdiction for all disputes in connection with this agreement shall be Wuppertal. However, we may sue the Buyer also at his seat. German law shall govern all legal relationships between us and the buyer, to the exclusion of the Convention on the International Sale of Goods (CISG).

(Status 10/2017)

## SYMBOLS

	flat jaws
	half-round jaws
	round jaws
	flat and pointed jaws
	box joint
	bolted joint
	smooth gripping surfaces
	cross-hatched, knurled gripping surfaces
	knurled gripping surfaces
	with opening spring
	with lead catcher
	angle
	weight
	length
	soft wire
	medium hard wire
	hard wire
	piano wire
	Cu- + Al-multi-conductor cable, solid and multi-stranded
	wire rope
	iron
	ribbon cable
	steel wire armoured cable (SWA)
	electrostatic discharging, dissipative
	electronics
	VDE tested, also in compliance with GPSG (Equipment and Product Safety Act)
	insulated according to IEC 60900, usable up to 1000 V AC/1500 V DC
	insulated according to DIN VDE 0680/1, usable up to 1000 V AC/1500 V DC
	centre cutter
	cutting edges with bevel
	cutting edges with small bevel
	cutting edges with very small bevel
	cutting edges without bevel
	for flush cut of soft materials
	New
	Upgraded

Gross price list,  
plus VAT at the rate ruling at time of supply.  
Price per piece. The price list is valid until 31.03.2019.  
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