

Cutting

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Cutting

A large number of cables and conductors in many different types and designs are used to connect electrical and electronic components. The cables and wires must be accurately prepared for the various types of connection. The quality of the cutting process is therefore of critical importance.

Weidmüller is a specialist in the cutting of copper or aluminium cables. The product selection ranges from cutting tools for small cross-sections (with direct transmission of force) to cutting tools for large diameters. Mechanical efficiency together with the special cutting pattern reduces the manual force required to a minimum.

Weidmüller's wide range of cutting tools fulfils all the criteria for professional cable preparation. The demands Weidmüller makes of its products can be summarised simply: a smooth, straight cut without deforming the conductor. Users profit directly from this philosophy, whilst maintaining ease of use.



At Weidmüller the term “cutting” refers to the severing of cables, wires and conductors of copper or aluminium with a tool appropriate for the application.

The requirement for all cutting tools is to perform a smooth, straight cut without deforming the conductor.

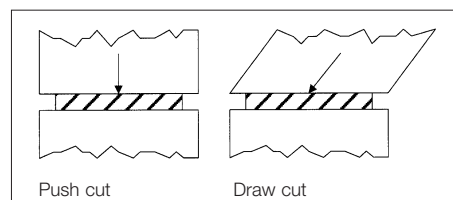
According to **DIN 8588**, experts differentiate between shear cutting, wedge-action cutting, tearing and breaking. Shear cutting is employed particularly in the cutting of cables, wires and conductors. Cutting tools with cross blades should perform an oblique cut and operate without play.

Movement of the blades

We differentiate between two basic cutting processes:

- Push cut
- Draw cut

In push cut, the cutting movement is perpendicular between tool and workpiece. In draw cut, the cutting movement is oblique to the tool.



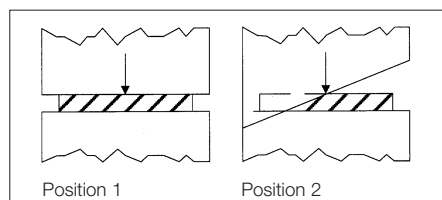
The essential quality characteristics for professional cutting tools are a cutting edge shape which is suited to, and optimised for, the corresponding application, so that the manual forces required for cutting remain low. This allows single-handed operation.

Tools by Weidmüller comply with all requirements imposed on professional cutting tools.

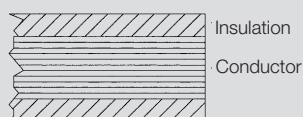
Position of the blades

In position 1 the blades act directly and over the whole length, i.e. considerable force is required.

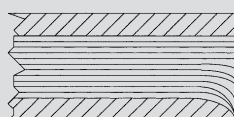
In position 2, the blades cross as in a pair of scissors, the cut is therefore “offset” and requires less force.



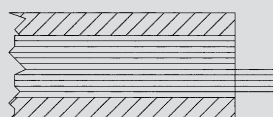
Clean cut



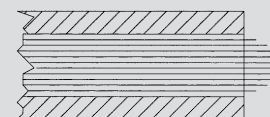
An “unclean” cut may have the following appearance:



Conductor sheared off



Conductor pulled out



Squeezed cable

Cutter

Cutter

- Cutting formation for different cable sizes increases the quality of the cuts for smaller cross-sections.

KT 8



Cutting tool that does not damage the conductor; for cutting copper and aluminium cables with a diameter of up to 8 mm.

- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!

KT 12



Cutting tool that does not damage the conductor; for cutting copper and aluminium cables with a diameter of up to 12 mm.

- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!

Technical data

Max. cutting performance copper cable	
Solid (max. conductor cross-section)	mm² / AWG
Stranded (max. conductor cross-section)	mm² / AWG
Flexible (max. conductor cross-section)	mm² / AWG
Flexible, Stranded (max. diameter)	mm
Sector line	
Max. cutting performance aluminium cable	
Stranded (max. conductor cross-section)	mm² / AWG
Stranded (max. diameter)	mm
Solid	mm²
Data-/ telephone-/ control cable	
O.D. max.	mm
Tool data	
Length / width / height	mm
Weight	g
Information	

KT8		
		16 / 6
		16 / 6
		16 / 6
		8
		16 / 6
		8
		16
		8
		165 / 65 / 25
		180
Information		
		Tool closed

KT12		
		16 / 6
		25 / 3
		35 / 2
		12
		25 / 6
		8
		25
		12
		215 / 66 / 28
		300
Information		
		Tool closed

Ordering data

Version
Information

Type	Qty.	Order No.
KT 8	1	9002650000
Information		

Type	Qty.	Order No.
KT 12	1	9002660000
Information		

Accessories

Type	Qty.	Order No.
Information		

Type	Qty.	Order No.
Information		

Type	Qty.	Order No.
Information		

Cutter

- Easy handling because of automatic opening
- Safety lock reduces risk of injury

KT 20



Cutting tool that does not damage the conductor; for cutting copper and aluminium cables with a diameter of up to 20 mm.

- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!

Technical data

Max. cutting performance copper cable		KT20
Solid (max. conductor cross-section)	mm² / AWG	16 / 6
Stranded (max. conductor cross-section)	mm² / AWG	35 / 2
Flexible (max. conductor cross-section)	mm² / AWG	70 / 2/0
Flexible, Stranded (max. diameter)	mm	20
Sector line		
Max. cutting performance aluminium cable		
Stranded (max. conductor cross-section)	mm² / AWG	70 / 2/0
Stranded (max. diameter)	mm	20
Solid	mm²	35
Data-/ telephone-/ control cable		
O.D. max.	mm	20
Tool data		
Length / width / height	mm	215 / 66 / 29
Weight	g	400
Information		Tool closed

Ordering data

Version	Type	Qty.	Order No.
	KT 20	1	9002300000
Information		Specifying solid-core aluminium cable corresponds to sector-shaped conductor with individual strands	

Accessories

Type	Qty.	Order No.
Information		

Front cable cutter

Front cable cutter

- Easy handling
- Just hand tight
- Disengaging option in every cutting position

KTF 25



Front cable cutting tool that does not damage the conductor; for cutting copper and aluminium cables with a diameter of up to 25 mm. Suitable in situations where cables have to be cut in narrow spaces.

- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!

KTF 36



Front cable cutting tool that does not damage the conductor; for cutting copper and aluminium cables with a diameter of up to 35 mm.

Suitable in situations where cables have to be cut in narrow spaces.

- Optimum leverage by eccentric drive
- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!

Technical data

Max. cutting performance copper cable	
Solid (max. conductor cross-section)	mm ² / komil
Stranded (max. conductor cross-section)	mm ² / komil
Flexible (max. conductor cross-section)	mm ² / komil
Flexible, Stranded (max. diameter)	mm
Sector line	
Max. cutting performance aluminium cable	
Stranded (max. conductor cross-section)	mm ² / komil
Stranded (max. diameter)	mm
Sector line	mm ²
Data-/ telephone-/ control cable	
O.D. max.	mm
Tool data	
Length / width / height	mm
Weight	g
Information	

KTF 25		
	120 / 250	
	120 / 250	
	25	
	150 / 300	
	25	
	25	
	245 / 80 / 40	
	900	
	Tool closed	

KTF 36		
	300 / 600	
	300 / 600	
	35	
	300 / 600	
	35	
	35	
	330 / 100 / 49	
	1400	
	Tool closed	

Ordering data

Version
Information

Type	Qty.	Order No.
KTF 25	1	9002180000

Type	Qty.	Order No.
KTF 36	1	9002190000

Accessories

Accessories		
</		

Type	Qty.	Order No.

Type	Qty.	Order No.

KT 36

- ## KT 45



- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!



- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!

Max. cutting performance copper cable	
Solid (max. conductor cross-section)	mm ² / kcmil
Stranded (max. conductor cross-section)	mm ² / kcmil
Flexible (max. conductor cross-section)	mm ² / kcmil
Flexible, Stranded (max. diameter)	mm
Sector line	
Max. cutting performance aluminium cable	
Stranded (max. conductor cross-section)	mm ² / kcmil
Stranded (max. diameter)	mm
Sector line	mm ²
Data-/ telephone-/ control cable	
O.D. max.	mm
Tool data	
Length / width / height	mm
Weight	g
Information	

KT36
240 / 500
240 / 500
35
240 / 500
35
35
235 / 130 / 42
750
SM: Sector conductor stranded SE: Sector conductor solid

KT45
300 / 600
300 / 600
45
4 x 70 SM
400 / 800
45
4 x 95 SE
45
260 / 110 / 40
942
SM: Sector conductor stranded SE: Sector conductor solid

Version

Type	Qty.	Order No.
KT 36	1	9001090000

The dimensions of the cable cutter refer to the delivery condition, i.e. point of the pivot cutter parallel to the fixed cutter.

Type	Qty.	Order No.
KT 45	1	9002000000

The dimensions of the cable cutter refer to the delivery condition, i.e. point of the pivot cutter parallel to the fixed cutter.

References

Type	Qty.	Order No.
Spare pivot blade KT 36	1	9002910000

Type	Qty.	Order No.
Spare pivot blade KT 45	1	9002100000

Cable cutter

Cable cutter

- Optimum leverage by excentric drive
- Easy handling
- Min. hand force required
- Release option in every cutting position

KT 52



Cutting tool that does not damage the conductor; for cutting copper and aluminium cables with a diameter of up to 52 mm.

- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!

KT 60



Cable cutter that does not damage the conductor; for cutting copper and aluminium cables with max. 62 mm dia.

- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!

Technical data

Max. cutting performance copper cable	
Solid (max. conductor cross-section)	mm ² / komil
Stranded (max. conductor cross-section)	mm ² / komil
Flexible (max. conductor cross-section)	mm ² / komil
Flexible, Stranded (max. diameter)	mm
Sector line	
Max. cutting performance aluminium cable	
Stranded (max. conductor cross-section)	mm ² / komil
Stranded (max. diameter)	mm
Sector line	mm ²
Data-/ telephone-/ control cable	
O.D. max.	mm
Tool data	
Length / width / height	mm
Weight	g
Information	

KT52		
	400 / 800	
	400 / 800	
	52	
	3 x 150 SM + 1 x 70 SE	
	400	
	52	
	3 x 150 SM + 1 x 70 SE	
	52	
	300 / 150 / 50	
	1200	
	SM: Sector conductor stranded	
	SE: Sector conductor solid	

KT60		
	800 / 1500	
	800 / 1500	
	62	
	4 x 185 SM	
	1000	
	62	
	4 x 240 SM	
	62	
	350 / 160 / 50	
	1700	
	SM: Sector conductor stranded	
	SE: Sector conductor solid	

Ordering data

Version
Information

Type	Qty.	Order No.
KT 52	1	9007100000
The dimensions of the cable cutter refer to the delivery condition, i.e. point of the pivot cutter parallel to the fixed cutter.		

Type	Qty.	Order No.
KT 60	1	9002550000
The dimensions of the cable cutter refer to the delivery condition, i.e. point of the pivot cutter parallel to the fixed cutter.		

Accessories

Information

Type	Qty.	Order No.
Spare pivot blade KT 52	1	9007110000

Type	Qty.	Order No.
Spare pivot blade KT 60	1	9002540000

Cable cutter

- Optimum leverage by excentric drive
- Easy handling
- Min. hand force required
- Release option in every cutting position

KT 80



Cable cutter that does not damage the conductor; for cutting copper and aluminium cables with max. 80 mm dia.

- Also suitable for sheet steel-shielded cables and cables with soft steel wire armouring.
- Not suitable for steel wires, steel-armoured cables, aluminium alloys and hard-drawn copper conductors!
- For flexible and stranded conductors

Technical data

Max. cutting performance copper cable		KT80
Solid (max. conductor cross-section)	mm ² / komil	
Stranded (max. conductor cross-section)	mm ² / komil	
Flexible (max. conductor cross-section)	mm ² / komil	
Flexible, Stranded (max. diameter)	mm	80
Sector line		
Max. cutting performance aluminium cable		
Stranded (max. conductor cross-section)	mm ² / komil	
Stranded (max. diameter)	mm	80
Sector line	mm ²	
Data-/ telephone-/ control cable		
O.D. max.	mm	80
Tool data		
Length / width / height	mm	560 / 190 / 58
Weight	g	2940
Information		

Ordering data

Version	Type	Qty.	Order No.
	KT 80	1	9003950000
Information			
The dimensions of the cable cutter refer to the delivery condition, i.e. point of the pivot cutter parallel to the fixed cutter.			

Accessories

Type	Qty.	Order No.
Spare pivot blade KT 80	1	9003960000
Information		

Cutting and releasing tools

WAW 1

Notching tool



Tool for trimming poles from WQV 2.5 to WQV 35 cross connections used in Weidmueller W-Series terminals.

Technical specification

Length	167 mm
Weight	227 g

Ordering data

Type	Qty.	Order No.
WAW 1	1	9004500000

WAW 2

Notching tool



Tool for punching out the cross-connection windows of the Weidmüller W-Series, Disconnect terminal WTR 2.5, Fuse terminal WSI 6.

Technical specification

Length	205 mm
Weight	338 g

Ordering data

Type	Qty.	Order No.
WAW 2	1	9004510000

KT ZQV

Cutter



Cutter for non-pinch cutting of Weidmüller Z-series cross-connections.

Technical specification

Length	215 mm
Weight	300 g

Ordering data

Type	Qty.	Order No.
KT ZQV	1	9002170000

TSLD

Terminal rail cutting and punching tool



Mounting rail cutting and punching tool for:

- TS35/7.5 mm to EN 50022 (s = 1.0 mm)
- TS35/15 mm to EN 50022 (s = 1.5 mm)
- TS32 mm to EN 50035 (s = 1.5 mm)
- TS15/5.5 mm to EN 50045 (s = 1.0 mm)
- Copper grounding rail 10 mm x 3 mm

Punching

Cross- and lengthwise punches (elongated hole
12 x 6.4 mm)
(s = material density of the mounting rail)

Technical specification

Width	205 mm
Length	270 mm
Height	200 mm
Weight	19000 g

Ordering data

Type	Qty.	Order No.
TSLD	1	9918700000

Electrician's knife



- Knife with plastic body and two blades
- Electrician's knife with two notches and blade lock
- curved blade partially finely serrated
- rustproof

Electrician's knife



- Knife with plastic body and blade lock
- rustproof
- with round and triangular notches

Carpet knife



- with ergonomic handle
- in pouch

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A pair of red-handled scissors with black circular grips and a silver blade, positioned vertically.

-
- A pair of red-handled scissors with silver-colored blades, positioned vertically with the blades pointing downwards. The handles are bright red and have a smooth, slightly curved design. The blades are sharp and pointed, with a small circular hole visible near the base of the upper blade.

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