

Cutting

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Cutting

B

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.

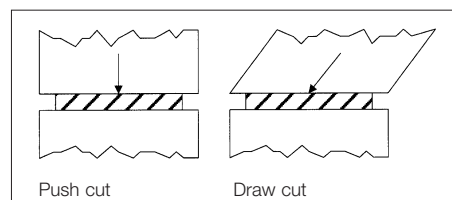
According to **DIN 8588**, experts differentiate between shear cutting, wedge-action cutting, tearing and breaking. Shear cutting is employed particularly in the cutting of cables, wires and conductors. Cutting tools with cross blades should perform an oblique cut and operate without play.

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.



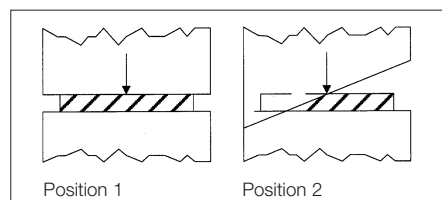
The essential quality characteristics for professional cutting tools are a cutting edge shape which is suited to, and optimised for, the corresponding application, so that the manual forces required for cutting remain low. This allows single-handed operation.

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

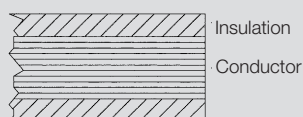
Position of the blades

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.

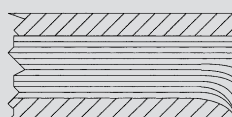


Clean cut

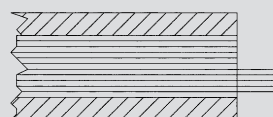


Insulation
Conductor

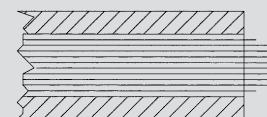
An “unclean” cut may have the following appearance:



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)	mm ² / AWG
Stranded (max. conductor cross-section)	mm ² / AWG
Flexible (max. conductor cross-section)	mm ² / AWG
Flexible, Stranded (max. diameter)	mm
Sector line	
Max. cutting performance aluminium cable	
Stranded (max. conductor cross-section)	mm ² / AWG
Stranded (max. diameter)	mm
Solid	mm ²
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	
	Tool closed	

KT12		
	16 / 6	
	25 / 3	
	35 / 2	
	12	
	25 / 6	
	8	
	25	
	12	
	215 / 66 / 28	
	300	
	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)	mm ² / AWG	16 / 6	
Stranded (max. conductor cross-section)	mm ² / AWG	35 / 2	
Flexible (max. conductor cross-section)	mm ² / AWG	70 / 2/0	
Flexible, Stranded (max. diameter)	mm	20	
Sector line			
Max. cutting performance aluminium cable			
Stranded (max. conductor cross-section)	mm ² / AWG	70 / 2/0	
Stranded (max. diameter)	mm	20	
Solid	mm ²	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		KTF 25	KTF 36
Solid (max. conductor cross-section)	mm ² / kcmil	120 / 250	300 / 600
Stranded (max. conductor cross-section)	mm ² / kcmil	120 / 250	300 / 600
Flexible (max. conductor cross-section)	mm ² / kcmil	120 / 250	300 / 600
Flexible, Stranded (max. diameter)	mm	25	35
Sector line			
Max. cutting performance aluminium cable			
Stranded (max. conductor cross-section)	mm ² / kcmil	150 / 300	300 / 600
Stranded (max. diameter)	mm	25	35
Sector line	mm ²		
Data-/ telephone-/ control cable			
O.D. max.	mm	25	35
Tool data			
Length / width / height	mm	245 / 80 / 40	330 / 100 / 49
Weight	g	900	1400
Information		Tool closed	Tool closed

Ordering data

Version	Type	Qty.	Order No.	Type	Qty.	Order No.
	KTF 25	1	9002180000	KTF 36	1	9002190000
Information						

Accessories

Type	Qty.	Order No.	Type	Qty.	Order No.
Information					

Cable cutter

- One-hand operation
- Easy handling
- Little force required
- Disengaging option in every cutting position

KT 36



Cutting tool that does not damage the conductor; for cutting copper and aluminium cables.

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

KT 45



Cutting tool that does not damage the conductor; for cutting copper and aluminium cables.

- 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 / 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	

Ordering data

Version
Information

Type	Qty.	Order No.
KT 36	1	9001090000
Information		
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
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 36	1	9002910000
Information		

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

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

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		KT52	KT60
Solid (max. conductor cross-section)	mm ² / kcmil	400 / 800	800 / 1500
Stranded (max. conductor cross-section)	mm ² / kcmil	400 / 800	800 / 1500
Flexible (max. conductor cross-section)	mm ² / kcmil	52	62
Flexible, Stranded (max. diameter)	mm	3 x 150 SM + 1 x 70 SE	4 x 185 SM
Sector line			
Max. cutting performance aluminium cable			
Stranded (max. conductor cross-section)	mm ² / kcmil	400	1000
Stranded (max. diameter)	mm	52	62
Sector line	mm ²	3 x 150 SM + 1 x 70 SE	4 x 240 SM
Data-/ telephone-/ control cable			
O.D. max.	mm	52	62
Tool data			
Length / width / height	mm	300 / 150 / 50	350 / 160 / 50
Weight	g	1200	1700
Information		SM: Sector conductor stranded SE: Sector conductor solid	SM: Sector conductor stranded SE: Sector conductor solid

Ordering data

Version	Type	Qty.	Order No.	Type	Qty.	Order No.
	KT 52	1	9007100000	KT 60	1	9002550000
Information		The dimensions of the cable cutter refer to the delivery condition, i.e. point of the pivot cutter parallel to the fixed cutter.		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.	Type	Qty.	Order No.
Spare pivot blade KT 52	1	9007110000	Spare pivot blade KT 60	1	9002540000
Information					

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 / kcmil		
Stranded (max. conductor cross-section)	mm ² / kcmil		
Flexible (max. conductor cross-section)	mm ² / kcmil		
Flexible, Stranded (max. diameter)	mm	80	
Sector line			
Max. cutting performance aluminium cable			
Stranded (max. conductor cross-section)	mm ² / kcmil		
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

Cutting

B

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	900450000

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	900451000

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	900217000

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 knives

Cutting

B

SLICER

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

SLICER 1K

Electrician's knife



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

CUTTY

Carpet knife



- with ergonomic handle
- in pouch

Technical specification

Technical specification

Technical specification

Ordering data

Type	Qty.	Order No.
SLICER	1	904160000

Ordering data

Type	Qty.	Order No.
SLICER 1K	1	991816000

Ordering data

Type	Qty.	Order No.
CUTTY RED LINE	1	904152000

SCISSOR 2K

Electrician's scissor



- with wire cutter
- serrated cutting edge
- rustproof
- soft-touch handle for firm grip

SCISSOR 1K

Electrician's scissor



- with wire cutter
- handle made from shockproof polyamide
- cutting edges with high-gloss chromate finish

Technical specification

Technical specification

Ordering data

Type	Qty.	Order No.
SCISSOR 2 K	1	9918230000

Ordering data

Type	Qty.	Order No.
SCISSOR 1 K	1	9918690000

