

Cutting tools



A multitude of cables and conductors of the most diverse types and versions are used to connect electrical and electronic components. The cables and conductors must be accurately prepared depending on the different types of connection. The quality of the cutting process is therefore highly significant.

Weidmüller has become 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 action in conjunction with the special cutting pattern reduces the manual forces required to a minimum.

Weidmüller fulfils all the criteria for professional cable processing with its wide product range. The demand that we ourselves place on our products is: a smooth, straight cut, with no distortion of the conductor.

You can benefit from this too.

Cutting tools

KT 8 • KT 12 Cutting tools

- Blade geometry for different conductor sizes increases the precision when cutting smaller conductors



KT 8

Precisely cuts copper and aluminium cables up to 8 mm \varnothing
maximum cutting capacity:

Copper cable

- 16 mm² solid
- 16 mm² stranded
- 16 mm² flexible

Aluminium cable

- 16 mm² stranded



KT 12

Precisely cuts copper and aluminium cables up to 12 mm \varnothing
maximum cutting capacity:

Copper cable

- 16 mm² solid
- 25 mm² stranded
- 35 mm² flexible

Aluminium cable

- 16 mm² stranded

Not suitable for cutting steel wire, steel-shielded cables, aluminium alloys and hard-drawn copper conductors!

Technical data	
Length/width/height (tool closed)	165/65/25 mm
Weight	180 g

Ordering data	
Type	Cat. No.
KT 8	9002650000

Technical data	
Length/width/height (tool closed)	215/66/28 mm
Weight	300 g

Ordering data	
Type	Cat. No.
KT 12	9002660000

KT 20 Cutting tool

- Opens automatically for ease of use
- Safety latch reduces risk of injury



KT 20

Precisely cuts copper and aluminium cables up to 20 mm ϕ maximum cutting capacity:

Copper cable

- 16 mm² solid
- 35 mm² stranded
- 70 mm² flexible

Aluminium cable

- 70 mm² stranded

Not suitable for cutting steel wire, steel-shielded cables, aluminium alloys and hard-drawn copper conductors!

Technical data

Length/width/height (tool closed)	215/66/29 mm
Weight	400 g

Ordering data

Type	Cat. No.
KT 20	9002300000

Cutting tools

KTF 25 • KTF 36 Front Cable Cutter

- One-hand operation
- Optimum lever transmission by eccentric drive
- Easy to use
- Minimum hand force
- Release option in every blade position



KTF 25

Precisely cuts copper and aluminium cables up to 25 mm ϕ . KTF 25 is used for cutting cables with medium cross-sections and for working in narrow spaces.

maximum cutting capacity:

Copper cables

- 120 mm² flexible and stranded
- 25 mm ϕ flexible and stranded

Aluminium cables

- 150 mm² flexible
- 25 mm ϕ flexible



KTF 36

Precisely cuts copper and aluminium cables up to 35 mm ϕ . KTF 36 is used for cutting cables with large cross-sections and for working in narrow spaces.

maximum cutting capacity:

Copper cables

- 300 mm² flexible and stranded
- 35 mm ϕ flexible and stranded

Aluminium cables

- 300 mm² flexible
- 35 mm ϕ flexible

Not suitable for cutting steel wire, steel-shielded cables, aluminium alloys and hard-drawn copper conductors!

Technical data*	
Length/width/height	245/80/40 mm
Weight	900 g

Ordering data	
Type	Cat. No.
KTF 25	9002180000

Technical data*	
Length/width/height	330/100/49 mm
Weight	1400 g

Ordering data	
Type	Cat. No.
KTF 36	9002190000

KT 36 • KT 45 • KT 52 Cutting tools

- One-hand operation
- Optimum lever transmission by eccentric drive
- Easy to use
- Minimum hand force
- Release option in every blade position



KT 36

Precisely cuts copper and aluminium cables up to 35 mm ø

maximum cutting capacity:

Copper cable

- 240 mm² flexible and stranded
- 500 MCM flexible and stranded

Aluminium cable

- 240 mm² stranded

Data-telecom cables

- 35 mm outer diameter

KT 45

Precisely cuts copper and aluminium cables up to 45 mm ø

maximum cutting capacity:

Copper cable

- 300 mm² flexible and stranded
- 600 MCM flexible and stranded
- 4 x 70 mm² stranded
- sector-shaped conductors 4 x 70 mm² stranded

Aluminium cable

- 400 mm² stranded
- Sector-shaped conductors 4 x 95 mm² solid

Data-telecom cables

- 45 mm outer diameter

KT 52

Precisely cuts copper and aluminium cables up to 52 mm ø

maximum cutting capacity:

Copper cable

- 400 mm² flexible and stranded
- 800 MCM stranded
- Sector-shaped conductors 3 x 150 + 1 x 70 mm² solid

Aluminium cable

- 400 mm² stranded

Data-telecom cables

- 52 mm outer diameter

Not suitable for cutting steel wire, steel-shielded cables, aluminium alloys and hard-drawn copper conductors!

Technical data*	
Length/width/height	235/130/42 mm
Weight	750 g

Ordering data	
Type	Cat. No.
KT 36	9001090000

Accessories	
Spare blade KT 36	9002910000

Technical data*	
Length/width/height	260/110/40 mm
Weight	942 g

Ordering data	
Type	Cat. No.
KT 45	9002000000

Accessories	
Spare blade KT 45	9002100000

Technical data*	
Length/width/height	300/150/50 mm
Weight	1200 g

Ordering data	
Type	Cat. No.
KT 52	9007100000

Accessories	
Spare blade KT 52	9007110000



*The cable cutters were measured in the supplied state, i.e. with the tip of the movable blade protected parallel to the fixed blades as in the above diagram.

Cutting tools

KT 60 Cutting tool

- Two-hand-operation
- Optimum lever transmission by eccentric drive
- Easy to use
- Minimum hand force
- Blade release option in any position



KT 60

Precisely cuts copper and aluminium cables up to 62 mm \varnothing maximum cutting capacity:

Copper cable

- 800 mm² flexible and stranded
- 1500 MCM stranded
- Sector-shaped conductors 4 x 185 mm² stranded

Aluminium cable

- 1000 mm² stranded
- Sector-shaped conductors 4 x 240 mm² stranded

Data-telecom cables

- 62 mm outer diameter

Not suitable for cutting steel wire, steel-shielded cables, aluminium alloys and harddrawn copper conductors!

Technical data*

Length/width/height	350/160/50 mm
Weight	1700 g

Ordering data

Type	Cat. No.
KT 60	9002550000

Accessories

Spare blade KT 60	9002540000
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*The cable cutters were measured in the supplied state, i.e. with the tip of the movable blade protected parallel to the fixed blades as in the above diagram.

KT 80 Cutting tool

- Two-hand-operation
- Optimum lever transmission by eccentric drive
- Easy to use
- Minimum hand force
- Blade release option in any position

**KT 80**

Precisely cuts copper and aluminium cables up to 80 mm \varnothing

- Also for steel-shielded cables and soft steel wire-armoured cables

Not suitable for cutting steel wire, steel-shielded cables, aluminium alloys and harddrawn copper conductors!

Technical data*

Length/width/height	560/190/58 mm
Weight	2940 g

Ordering data

Type	Cat. No.
KT 80	9003950000

Accessories

Spare blade KT 80	9003960000
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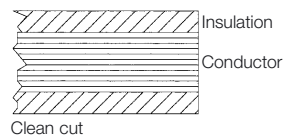
*The cable cutters were measured in the supplied state, i.e. with the tip of the movable blade protected parallel to the fixed blades as in the above diagram.

Cutting tools

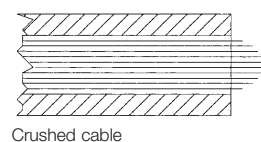
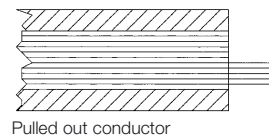
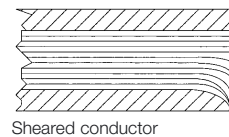
What is meant by "cutting" is the severing of copper or aluminium cables or conductors with a tool appropriate for this application.

The requirement for all cutting tools is:

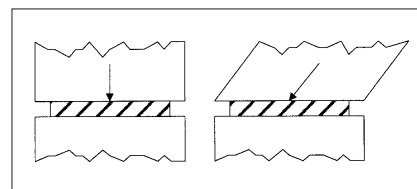
Smooth, straight cut without distortion of the conductor.



A "dirty" cut may have the following appearance:



Cutting motion



Push cut

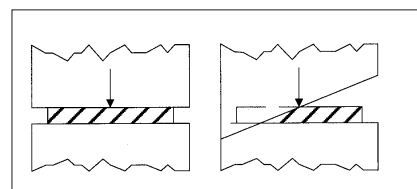
Oblique cut

Cutting is differentiated fundamentally according to the following cutting processes:

- **Push cutting**
- **Oblique cutting**

With a push cut, the cutting movement occurs vertically between the tool and workpiece. With an oblique cut, the cutting motion occurs at an angle to the tool.

Position of cuts



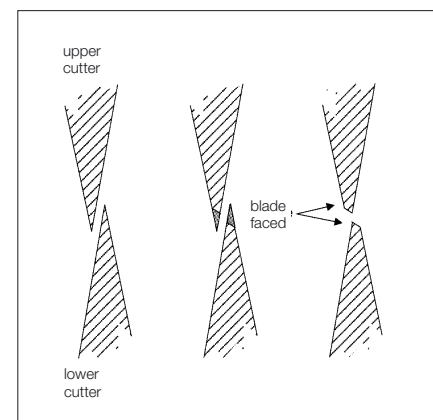
In position 1, the cuts are made immediately in the full length, i.e., much force is required.

In position 2, the cuts cross one another as occurs with scissors (scissor cut), i.e., the cut is made with lateral displacement, so that less force is required.

According to **DIN 8588**, a distinction is made among scissor cuts, wedge-action cutting, tearing and breaking. Scissor cutting is employed particularly in the cutting of cables, wires and conductors. Cutting tools with cross blades should perform an oblique cut and operate free of play.

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.

A further quality characteristic is the cutting angle, i.e., the sharpness of the blade and the existence of a facet. This is the deliberate slight increase in the cutting angle, as a result of which the duration of life of the cutting edge and cutting edge sharpness is increased.



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

