

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.



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



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

Copper cable

• 16 mm² solid

KT 12

- 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!

Ordering data Type Cat. No.	Technical data Length/width/height (tool closed) Weight Ordering data Type KT 12	215/66/28 mm 300 g Cat. No. 9002660000
(tool closed) Weight 180 g Ordering data Type Cat. No.	(tool closed) Weight Ordering data Type	300 g Cat. No.
Weight 180 g Ordering data Type Cat. No.	Weight Ordering data Type	Cat. No.
Ordering data Type Cat. No.	Ordering data Type	Cat. No.
•	Туре	
Type Cat. No.	Туре	
KT 8 9002650000	KT 12	9002660000

KT 20 Cutting tool



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	
_ength/width/height	215/66/29 mm
tool closed)	
Weight	400 g
Ordering data	
Гуре	Cat. No.
KT 20	9002300000

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 Ø. 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 ø flexible and stranded

Aluminium cables

- 150 mm² flexible
- 25 mm ø flexible



KTF 36

Precisely cuts copper and aluminium cables up to 35 mm \varnothing . 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 ø flexible and stranded

Aluminium cables

- 300 mm² flexible
- 35 mm ø flexible

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

Technical data*		Technical data*	
Length/width/height	245/80/40 mm	Length/width/height	330/100/49 mm
Weight	900 g	Weight	1400 g
Ordering data		Ordering data	
Туре	Cat. No.	Туре	Cat. No.
KTF 25	9002180000	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

Technical data*

Data-telecom cables

• 35 mm outer diameter



KT 45

Precisely cuts copper and aluminium cables up to 45 mm $\ensuremath{\text{g}}$

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



Precisely cuts copper and aluminium cables up to 52 mm $\ensuremath{\text{\emptyset}}$

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

Weiaht

Length/width/height	235/130/42 mm	
Weight	750 g	
Ordering data		
Туре	Cat. No.	
KT 36	9001090000	
Accessories		
Spare blade KT 36	9002910000	

TTOIGHT	0 12 9	
Ordering data		
Туре	Cat. No.	
KT 45	9002000000	
Accessories		
Spare blade KT 45	9002100000	

260/110/40 mm

942 a

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

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!

Length/width/height	350/160/50 mm	
Weight	1700 g	
Ordering data		
Type	Cat. No.	
KT 60	9002550000	
Accessories		
Spare blade KT 60	9002540000	



*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 ø

 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!

KT 80	9003950000	
Type	Cat. No.	
Ordering data		
Weight	2940 g	
Length/width/height	560/190/58 mm	

9003960000	
	9003960000

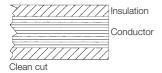


*The cable cutters were measured in the supplied state, i.e. with the tip of the movable blade protected parallel to the fixed blades as in the above diagram.

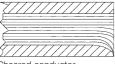
What is meant by "cutting" is the severing of copper or aluminium cables or conductors with a tool appropriate for this application.

The requirement for all cutting tools is:

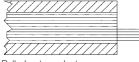
Smooth, straight cut without distortion of the conductor.



A "dirty" cut may have the following appearance:



Sheared conductor

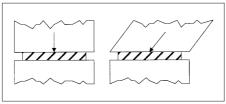


Pulled out conductor



Crushed cable

Cutting motion



Push cut

Oblique cut

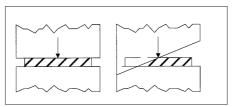
Cutting is differentiated fundamentally according to the following cutting processes:

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



Position 1

Position 2

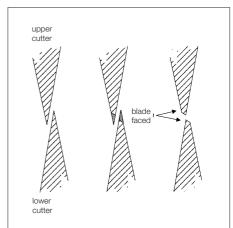
In position 1, the cuts are made immediately in the full length, i.e., much force is required.

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.

Cutting tools