

# Pliers

<b>Pliers</b>	Introduction	E.2
	VDE-insulated combination pliers	E.3
	VDE-insulated diagonal-cutting pliers	E.4
	VDE-insulated telephone pliers	E.5
	VDE-insulated flat- and round-nose pliers	E.6
	ESD pliers	E.8

# Pliers

Working on live systems calls for special safety procedures and special tools specially produced and tested for such applications.

Weidmüller can provide users with a complete range of pliers complying with national and international testing standards. All Weidmüller pliers are produced and tested to DIN EN 60900.

Their ergonomic design fits snugly in the hand, resulting in a more natural, non-fatiguing hand position so you don't catch your fingers.



**VDE-insulated combination pliers**

up to 1000 V (AC) and 1500 V (DC) protective insulation to IEC 900, DIN EN 60900

- drop-forged from high-quality special tool steels
- safety handle with ergonomic and non-slip TPE VDE sleeve
- made from shockproof, heat- and cold-resistant, not readily flammable, cadmium-free TPE (thermoplastic elastomer)
- elastic grip zone and hard core
- polished surface
- nickel-chromium electrogalvanised coating protects against corrosion

**KBZ 160 / KBZ 180 / KBZ 200**

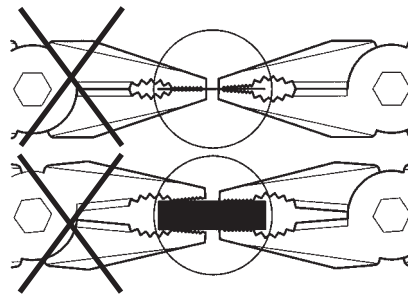
Combination pliers

**KBZI 200**

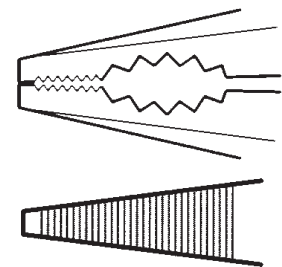
Heavy-duty combination pliers (telephone pliers)

**Combination pliers acc. to DIN ISO 5746**

- With opening gap (see diagram)
- Foil and sheet up to a thickness of 2.5 mm can be gripped with the tip
- When thickness does not exceed 2.5 mm, the gripping force pulls the workpiece towards the joint
- Extra-long cutter for ribbon and round cables
- For cutting soft and hard wire
- Cutting edges inductively hardened to approx. 60 HRC

**Telegraph pliers (combination pliers), acc. to DIN 5746**

- Heavy-duty model for tough demanding jobs
- Extra-long cutter for ribbon and round cables
- For cutting soft and hard wire
- Cutting edges inductively hardened to approx. 60 HRC

**Technical data**

Cutting performance	
Conductor diameter, max. (H)	mm
Conductor diameter, max. (MH)	mm
Tool data	
Cutter hardness	HRC
Total length	mm
Weight	g
Note	

KBZ 160	KBZ 180	KBZ 200
1.8	2.5	2.5
2.5	2.8	3
60	60	60
160	180	200
230	290	362
(MH) medium-hard wire; (H) hard wire; (P) piano wire		

KBZI 200
2.5
3
60
200
412
(MH) medium-hard wire; (H) hard wire; (P) piano wire

**Ordering data**

Version
Note

Type	Qty	Order No.
KBZ 160	1	9046280000
KBZ 180	1	9046290000
KBZ 200	1	9046300000

Type	Qty	Order No.
KBZI 200	1	9046430000

## VDE-insulated diagonal-cutting pliers

### VDE-insulated diagonal-cutting pliers

up to 1000 V (AC) and 1500 V (DC)  
protective insulation to IEC 900, DIN EN 60900

- drop-forged from high-quality special tool steels
- safety handle with ergonomic and non-slip TPE VDE sleeve
- made from shockproof, heat-and cold-resistant, not readily flammable, cadmium-free TPE (thermoplastic elastomer)
- elastic grip zone and hard core
- polished surface
- nickel-chromium electrogalvanised coating protects against corrosion

### KSE 160 / KSE 200 / SE TOP

Professional diagonal-cutting pliers for piano wire



### SE HD 140 / SE HD 160 / SE HD 180

Diagonal-cutting pliers for hard wire



#### Diagonal-cutting pliers, acc. to DIN ISO 5749

- Cutting edges inductively hardened to approx. 64 HRC
- For cutting soft wire and piano wire

#### KSE 160 - KSE 200

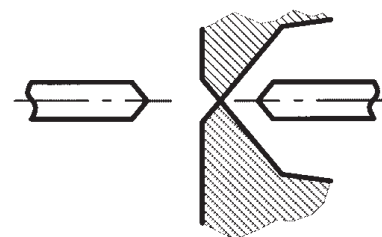
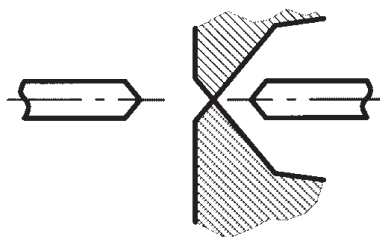
- Optimized transmission of force
- Optimized precision cutting edge

#### SE TOP

- With inlaid joint
- Extra-fine precision cutting edge

#### Diagonal-cutting pliers, acc. to DIN ISO 5749

- With inlaid joint
- With precision cutting edges
- Cutting edges inductively hardened to approx. 62 HRC
- Special tool steel



### Technical data

Cutting performance	
Conductor diameter, max. (H)	mm
Conductor diameter, max. (MH)	mm
Conductor diameter, max. (P)	mm
Tool data	
Cutter hardness	HRC
Total length	mm
Weight	g
Note	

KSE 160	KSE 200	SE TOP
2.5	3	2.5
3.5	4.2	3.5
2	2.5	2
64	64	64
160	200	160
243	325	251
(MH) medium-hard wire; (H) hard wire; (P) piano wire		

SE HD 140	SE HD 160	SE HD 180
2	2.3	3
2.8	3	3.8
1.4	1.6	1.8
62	62	62
140	160	180
203	253	291
(MH) medium-hard wire; (H) hard wire; (P) piano wire		

### Ordering data

Version
Note

Type	Qty	Order No.
KSE 160	1	9046410000
KSE 200	1	9046420000
SE TOP	1	9046340000

Type	Qty	Order No.
SE HD 140	1	9046310000
SE HD 160	1	9046320000
SE HD 180	1	9046330000

**VDE-insulated telephone pliers**

up to 1000 V (AC) and 1500 V (DC) protective insulation to IEC 900, DIN EN 60900

- drop-forged from high-quality special tool steels
- safety handle with ergonomic and non-slip TPE VDE sleeve
- made from shockproof, heat- and cold-resistant, not readily flammable, cadmium-free TPE (thermoplastic elastomer)
- elastic grip zone and hard core
- polished surface
- nickel-chromium electrogalvanised coating protects against corrosion

**FRZ SG 160 / FRZ SG 200**

Bent half-round-nose pliers with cutter (telephone pliers)

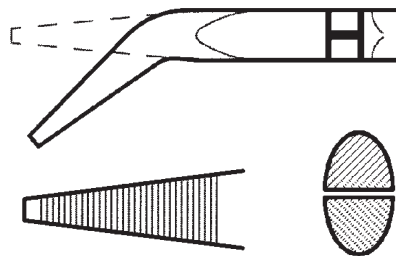
**FRZ S 160 / FRZ S 200**

Half-round-nose pliers with cutter (telephone pliers)



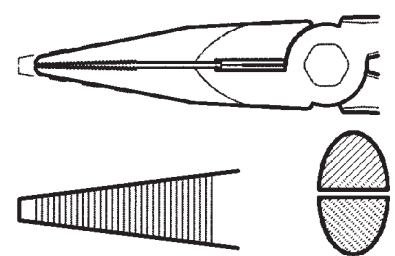
Bent telephone pliers with cutter acc. to DIN ISO 5745

- Half-rounded jaws
- Serrated gripping surfaces
- Tip bent at 45°
- Cutting edges inductively hardened to approx. 60 HRC
- Special tool steel



Telephone pliers with cutter to DIN ISO 5745

- Half-rounded jaws
- Serrated gripping surfaces
- Cutting edges inductively hardened to approx. 60 HRC
- Special tool steel

**Technical data**

Cutting performance	
Conductor diameter, max. (H)	mm
Conductor diameter, max. (MH)	mm
Tool data	
Cutter hardness	HRC
Total length	mm
Weight	g
Note	

FRZ SG 160	FRZ SG 200
1.6	1.8
2.5	2.8
60	60
160	200
162	207
(MH) medium-hard wire; (H) hard wire; (P) piano wire	

FRZ S 160	FRZ S 200
1.6	1.8
2.5	2.8
60	60
160	200
170	224
(MH) medium-hard wire; (H) hard wire; (P) piano wire	

**Ordering data**

Version
Note

Type	Qty	Order No.
FRZ SG 160	1	9046390000
FRZ SG 200	1	9046400000
Note		

Type	Qty	Order No.
FRZ S 160	1	9046370000
FRZ S 200	1	9046380000
Note		

VDE-insulated flat- and round-nose pliers

VDE-insulated flat- and round-nose pliers

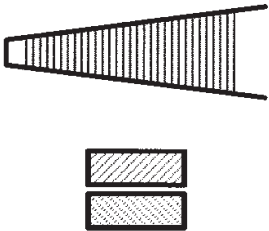
- up to 1000 V (AC) and 1500 V (DC)  
protective insulation to IEC 900, DIN EN 60900
- drop-forged from high-quality special tool steels
  - safety handle with ergonomic and non-slip TPE VDE sleeve
  - made from shockproof, heat-and cold-resistant, not readily flammable, cadmium-free TPE (thermoplastic elastomer)
  - elastic grip zone and hard core
  - polished surface
  - nickel-chromium electrogalvanised coating protects against corrosion

FZ 160

Flat-nose pliers



- Flat-nose pliers acc. to DIN ISO 5745
- Serrated gripping surface
  - With long jaw

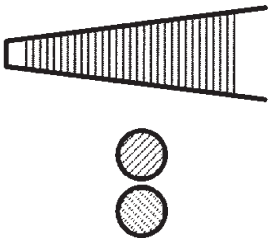


RZ 160

Round-nose pliers



- Round-nose pliers acc. to DIN ISO 5745
- Serrated gripping surface
  - With long jaw



Technical data

Tool data	
Total length	mm
Weight	g
Note	

FZ 160		
		160
		163

RZ 160		
		160
		153

Ordering data

Version	
Note	

Type	Qty	Order No.
FZ 160	1	9046350000

Type	Qty	Order No.
RZ 160	1	9046360000





## ESD pliers

Weidmüller ESD pliers can be used with precision and safety when working with sensitive electronics. Electrostatic charging is prevented by the special handle material.

Electrostatic discharges (ESD) present a danger to electronics that should not be underestimated. The transferral or discharge of an electrostatic charge can cause significant damage.

Charges smaller than 100 volts can cause damage to sensitive components. However, ESD with voltages under 2000 volts can not be felt by humans. When working with components which are particularly sensitive to electrostatic discharges, you need an electrostatic-free work environment and the properly designed tools.

The ESD pliers are particularly suited for use with electronics, including electronic switches and components, as well as with precision mechanics. All pliers feature an ESD-protected two-coloured double-component plastic hand grip. The grip material in use complies with all of the requirements for ESD hand-tool protection for working with ESD-sensitive components.

The 120 mm-long ESD pliers are available individually or as part of a four-piece set: diagonal-cutting pliers, angle-cutting pliers, with pointed head, flat-nose pliers and snipe-nosed pliers. ESD pliers are not appropriate for working with live components or component assemblies.





SEE ESD 120

Electronic ESD diagonal-cutting pliers with pointed head

- Hard wire (spring wire or steel nails):  
0.4 mm/AWG 26
- Semi-hard wire (iron or nails):  
1.0 mm/AWG 18
- Soft wire (copper or aluminium):  
1.5 mm/AWG 15

Ordering data

Type	Qty	Order No.
SEE ESD 120	1	9205130000

Technical data

Weight	90 g
--------	------



SEE ESD 125

Electronic ESD diagonal-cutting pliers with oval head

- Semi-hard wire (iron or nails):  
0.8 mm/AWG 20
- Soft wire (copper or aluminium):  
1.5 mm/AWG 15

Ordering data

Type	Qty	Order No.
SEE ESD 125	1	9204750000

Technical data

Weight	90 g
--------	------



FZE ESD 130

Electronic ESD flat-nosed pliers

Ordering data

Type	Qty	Order No.
FZE ESD 130	1	9204760000

Technical data

Weight	90 g
--------	------



SZE ESD 130

Electronic ESD Snipe-nosed pliers

Ordering data

Type	Qty	Order No.
SZE ESD 130	1	9204770000

Technical data

Weight	90 g
--------	------



ESD pliers

SVSE ESD 130

Electronic ESD angle -cutting pliers

- Hard wire (spring wire or steel nails):  
0.6 mm/AWG 22
- Semi-hard wire (iron or nails):  
1.0 mm/AWG 18
- Soft wire (copper or aluminium):  
1.2 mm/AWG 15

Ordering data

Type	Qty	Order No.
SVSE ESD 130	1	9205140000

Technical data

Weight	90 g
--------	------



SUPER CUT

Electronic diagonal-cutting pliers

- Soft wire (copper or aluminium):  
1.2 mm/AWG 15

Ordering data

Type	Qty	Order No.
SUPER CUT	1	9205150000

Technical data

Weight	78 g
--------	------



KOF SET ESD

Electronic ESD case set

Contents:

- Diagonal-cutting pliers
- Snipe-nosed pliers
- Flat-nose pliers
- Angle-cutting pliers

Ordering data

Type	Qty	Order No.
KOF SET ESD	1	9205210000

Technical data

Weight	547 g
--------	-------

