

Measurement accessories for a secure connection



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The right measurement and testing equipment, as well as the appropriate measurement accessories are important components for carrying out measurements in a safe, reliable manner.

The following measurement accessories contains various test leads, probes, and crocodile clips. This ensures that any user can find the necessary tools that is required for their measurement task.

Replacement parts and fuses are listed on page 103.

Symbols used in this chapter

	Length of plug-in technology (e.g. 4 mm)		Silicone test lead
	Touch protection		PVC test lead
	Disclosure of measurement category in accordance with EN 61010, DIN VDE 0411		Heat-resistant
	Current-carrying capacity (e.g. 16 A)		Cold-resistant



Test leads SML 4W
4 mm safety plug-in technology

- Accessory information
- Safety test lead, flexible 0.8 mm²
 - Current-carrying capacity 16 A
 - Measurement category CAT III / 600 V

- Design
- PVC insulation
 - Two-way safety plugs with onward connection capability in accordance with DIN VDE 0411/EN 61010/IEC 61010

Ordering Information:

Description	Model	Article no.
Test lead ML 4W		
red - 1000mm	307111	2146495
black - 1000mm	307121	2146508
red - 2000mm	307112	3313550
black - 2000mm	307122	3313561

4 mm 600 V 16 A



Safety clamp-type test probe SKP 41 set
4 mm plug-in technology

- Accessory information
- Approx. 155 x 49 mm
 - Current-carrying capacity 2 A
 - Measurement category CAT III/1000 V

Set, consisting of:
1 x SKP 41 gray/red
1 x SKP 41 gray/black

- Design
- Spring wire grabber with flexible, insulated shaft
 - Safety clamp-type test probe with 4-mm safety jack in accordance with DIN VDE 0411/EN 61010/IEC 61010

Ordering Information:

	Model	Article no.
	370010	2146701

4 mm CAT III 1000 V 2 A



High current safety clamp-type test probe HCP 41 set
4 mm plug-in technology

- Accessory information
- Approx. 160 x 60 mm
 - Current-carrying capacity 10 A
 - Measurement category CAT III/1000 V

Set, consisting of:
1 x HCP 41 gray/red
1 x HCP 41 gray/black

- Design
- Safety clamp-type test probe with 4-mm safety jack in accordance with DIN VDE 0411/EN 61010/IEC 61010

Ordering Information:

	Model	Article no.
	370024	2146758

4 mm CAT III 1000 V 10 A



Probes PSS set of 2

Accessory information

- Approx. 100 x 21 mm
- Current-carrying capacity 6 A
- Measurement category CAT III/1000 V

Set, consisting of:

- 1 x probe PSS 2 gray/red
- 1 x probe PSS 2 gray/black

Design

- Safety probe with 4-mm safety jack in accordance with DIN VDE 0411/EN 61010/IEC 61010

Ordering Information:

Model	Article no.
370008	2146694



Probes PSK set of 2 2 mm probe, short version

Accessory information

- Approx. 102 x 10 mm
- Current-carrying capacity 16 A
- Measurement category CAT III/1000 V, CAT IV/600 V (with cover)
- Measurement category CAT II/1000 V (without cover)

Set, consisting of:

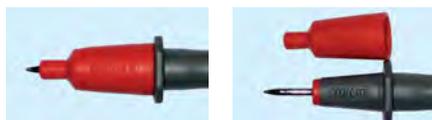
- 1 x probe PSK 2, gray/red (with cover)
- 1 x probe PSK 2 gray/black (with cover)

Design

- Safety probe with safety jack 4-mm and 2 mm stainless steel probe in accordance with DIN VDE 0411/EN 61010/IEC 61010

Ordering Information:

Model	Article no.
370004	2146675



TL-300

Test lead set with crocodile clips (red, black, yellow), case, and temperature probe

Technical specifications

Current-carrying capacity	10 A
Current-carrying capacity	10 A
Measurement Category	
Probes	CAT IV/1000 V (with cover) CAT II/1000 V (without cover)
Crocodile clips	CAT IV/600 V, CAT III/1000 V
Pollution degree	2
Safety cert.:	DIN VDE 0411/EN 61010/IEC 61010
Temperature probes	K-type flexible wire probe 4 mm plug (distance 19 mm)
Probe length	approx. 0.9 m
Temperature range	-20 °C...+250 °C
Accuracy	-20...0 °C: ±2.5 °C or ±1.5% rdg. 0...250 °C: ±1.1 °C or ±0.4% rdg.

Ordering Information:

Model	Article no.
TL-300	4588279





**Safety crocodile clip
KS 4L set**
4 mm plug-in technology

Accessory information

- 94 x 42 mm
- Current-carrying capacity 16 A
- Measurement category CAT III/1000 V, CAT IV/600 V
- Opening: approx. 24 mm

Set, consisting of:

- 1 x KS4L gray/red
- 1 x KS4L gray/black

Design

- Safety crocodile clip with 4-mm safety jack in accordance with DIN VDE 0411/EN 61010/IEC 61010

Ordering Information:

	Model	Article no.
	370012	2146712



**Crocodile clips for
conductor rails**
4 mm safety plug-in technology

Accessory information

- 155 x 40,5 mm
- Current-carrying capacity 5 A
- For conductor rails up to 30 mm
- Measurement category CAT III/600 V
- Opening: 0...20 mm/10...30 mm

Design

- Crocodile clip for secure measurement on conductor rails
- 4 mm safety plug-in technology

Ordering Information:

	Model	Article no.
red	391511	2146861
black	391512	2146877



Unidreh accessory set
4 mm plug-in technology

Accessory information

- Self-retaining probes with clamping range \varnothing 4...8 mm
- Safe contacting, e.g. in CEE 16 A- and CEE 32 A sockets
- Crocodile clip included

Included:

- 3 x probes, black
- 1 x crocodile clip, black
- 1 x carrying case

Technical specifications

Current-carrying capacity	8 A
Measurement Category	CAT II/1000 V
Probes (Astaco)	CAT III/1000 V, CAT IV / 600 V
Crocodile clip (KS4L)	2
Pollution degree	2
Safety cert.:	DIN VDE 0411/EN 61010/ IEC 61010

Ordering Information:

	Model	Article no.
UNIdreh accessory set	1324	2146183



The solution for secure contacts with CES sockets.



Professional test lead set for multimeters 2 mm safety probes

Accessory information

- Test lead set with 4 mm safety plug-in technology
- Ergonomic handle
- Silicone safety test lead
- Measurement category CAT IV / 1000 V (with cover)
- Measurement category CAT II / 1000 V (without cover)
- 2mm probes

Included:

2 x test leads, approx. 1 m long,
2 covers

Technical specifications

Current-carrying capacity max. 20 A
 Measurement category CAT IV / 1000 V (with cover)
 CAT II / 1000 V (without cover)
 Pollution degree 2
 Safety cert.: DIN VDE 0411/EN 61010/
 IEC 61010

Ordering Information:

	Model	Article no.
Professional test lead set with silicone insulation	1306	3313458

SAFETY RATING
CAT IV



Professional test lead set for multimeters 4 mm safety probes

Accessory information

- Test lead set with 4 mm safety plug-in technology
- Ergonomic handle
- Silicone safety test lead
- Measurement category CAT IV / 1000 V (with cover)
- Measurement category CAT II / 1000 V (without cover)
- 4mm probes

Included:

2 x test leads, approx. 1 m long,
2 x covers

Technical specifications

Current-carrying capacity max. 20 A
 Measurement category CAT IV / 1000 V (with cover)
 CAT II / 1000 V (without cover)
 Pollution degree 2
 Safety cert.: DIN VDE 0411/EN 61010/
 IEC 61010

Ordering Information:

	Model	Article no.
Professional test lead set with silicone insulation	1307	2146176

SAFETY RATING
CAT IV



Mini crocodile clips 2 mm plug-in technology (fits all 2 mm multimeter probes)

Accessory information

- 41.5 x 13 mm
- Max. voltage 33 V AC / 70 V DC
- Opening: approx. 7 mm

Design

- Miniature crocodile clip

Ordering Information:

	Model	Article no.
red	390450	2406492
black	390451	2406509



TL36A
Test lead set
with crocodile clips
2 mm safety probes

- Accessory information**
- Test lead set with 4 mm safety technology
 - PVC-insulated leads
 - Threaded test probes
 - Crocodile clips with thread connection, opening approx. 10 mm

Included:
 2 x test leads, approx. 1 m long, with covers
 2 x crocodile clips

Technical specifications

Measurement categories
 Test lines CAT III/1000 V, CAT IV/600 V
 (with cover)
 CAT II / 1000 V
 (without cover)

Current-carrying capacity 10 A
 Crocodile clips CAT III / 1000 V, CAT IV / 600 V
 Pollution degree 2
 Safety cert.: DIN VDE 0411/EN 61010/ IEC 61010



Ordering Information:

Model	Article no.
TL36A	3034444



TL35B
Test lead set
with safety crocodile clips
2 mm safety probes

- Accessory information**
- Test lead set with 4 mm safety technology
 - PVC-insulated leads
 - Threaded test probes
 - Safety crocodile clips with thread connection, opening approx. 16 mm

Included:
 2 x test leads, approx. 1 m long, with covers
 2 x crocodile clips

Technical specifications

Measurement categories
 Test lines CAT III/1000 V, CAT IV/600 V
 (with cover)
 CAT II / 1000 V
 (without cover)

Current-carrying capacity 10 A
 Crocodile clips CAT III / 1000 V, CAT IV / 600 V
 Pollution degree 2
 Safety cert.: DIN VDE 0411/EN 61010/ IEC 61010



Ordering Information:

Model	Article no.
TL35B	3068232



EU-200
Test lead set

Accessory information

- Test lead set with 4 mm safety technology
- 4 mm test probes

Included:
 2 x test leads
 2 x probes (with covers)
 2 x crocodile clips

Technical specifications

Measurement categories
 Test leads CAT III / 1000 V
 Probes CAT IV / 600 V, CAT III / 1000 V
 (with cover)
 CAT II / 1000 V
 (without cover)

Current-carrying capacity 16 A
 Crocodile clips CAT III / 1000 V, CAT IV / 600 V
 Pollution degree 2
 Safety cert.: DIN VDE 0411/EN 61010/ IEC 61010

Ordering Information:

Model	Article no.
EU-200	2745046



Safety set

Accessory information

- Test lead set with 4 mm safety technology

Included:

- 1 x safety test lead, red
- 1 x safety test lead, black
- 1 x probe, red, with cover
- 1 x probe, black, with cover
- 1 x crocodile clip, red
- 1 x crocodile clip, black

Technical specifications

Current-carrying capacity	16 A
Measurement Category	
Safety test leads	CAT III/1000 V
Probes	CAT III/1000 V, CAT IV / 600 V (with cover) CAT II / 1000 V (without cover)
Crocodile clip	CAT III/1000 V
Pollution degree	2
Safety cert.:	DIN VDE 0411/EN 61010/ IEC 61010

Ordering Information:

	Model	Article no.
Safety set	370003	2146666



Electronics set

Accessory information

- Test lead set with 4 mm safety plug-in technology

Included:

- 1 x safety test lead, red, 16A
- 1 x safety test lead, black, 16A
- 1 x crocodile clip, red, 16A
- 1 x crocodile clip, black, 16A
- 1 x safety clamp-type test probe, red, 2A
- 1 x safety clamp-type test probe, black, 2A
- 1 x safety probe, red, 6A
- 1 x safety probe, black, 6A

Technical specifications

Current-carrying capacity	2A/6A/16A
Measurement Category	
Safety test leads	CAT III/1000 V
Probes	CAT III/1000 V
Crocodile clip	CAT III/1000 V
Clamp-type test probes	CAT III/1000 V
Pollution degree	2
Safety cert.:	DIN VDE 0411/EN 61010/ IEC 61010

Ordering Information:

	Model	Article no.
Electronics set	370001	3313577



Electrician set

Accessory information

- Test lead set with 4 mm safety plug-in technology

Included:

- 1 x safety test lead, red, 16A
- 1 x safety test lead, black, 16A
- 1 x safety probe, red, 6A
- 1 x safety probe, black, 6A
- 1 x safety clamp-type test probe, red, 10A
- 1 x safety clamp-type test probe, black, 10A
- 1 x crocodile clip, red, 16A
- 1 x crocodile clip, black, 16A

Technical specifications

Current-carrying capacity	6A/10A/16A
Measurement Category	
Safety test leads	CAT III/1000 V
Probes	CAT III/1000 V
Crocodile clip	CAT III/1000 V
Clamp-type test probes	CAT III/1000 V
Pollution degree	2
Safety cert.:	DIN VDE 0411/EN 61010/ IEC 61010

Ordering Information:

	Model	Article no.
Electrician set	370000	2146653



1150

Carrying case

Material: Nylon, upholstered, fasteners, Lanyard
Internal dimensions: 200 x 150 x 40 mm

Model: 1150
Article no.: 2145755



1175

Carrying case

Material: Nylon, upholstered, belt loop
Internal dimensions: 295 x 80 x 50 mm

Model: 1175
Article no.: 2145796



CC-VP-7xx

Carrying case

Material: Nylon, upholstered, fasteners, Hand Strap.
Suitable for 2100 series (Alpha/Beta/Gamma) and the VP-700 series
Internal dimensions: 280 x 80 x 45 mm

Model: CC-VP-7xx
Article no.: 3889931



1193

Professional carry case

Material: Nylon, upholstered, fasteners, Neck strap
Internal dimensions: 300 x 400 x 65 mm

Model: 1193
Article no.: 2145812



VC30A

Carrying case

Material: Imitation leather, carrying strap
External dimensions: 200 x 80 x 45 mm

Model: VC30A
Article no.: 3068280



VC221B

Carrying case

Material: Imitation leather, carrying strap
External dimensions: 220 x 115 x 60 mm

Model: VC221B
Article no.: 3068271



CC-ACDC

Carrying case

Material: Nylon, carrying strap, belt loop
External dimensions: 300 x 120 x 60 mm

Model: CC-ACDC
Article no.: 2732643



SV-U

Carrying case

Material: Nylon, carrying strap, belt loop
External dimensions: 300 x 120 x 60 mm

Model: SV-U
Article no.: 2733511

Fuses

Fuses

Nominal	Feature	Nominal voltage	Dimensions	Packing unit	Item Number
500mA	fast-acting	1000V	6.3x32mm	4-pack, FP 500	1990695
500mA	fast-acting	500V	6.3x32mm	FP520	2156748
500mA	fast-acting	500V	6.3x32mm		3504681
500mA	fast-acting	1000V	6.3x32mm		2156753
630mA	fast-acting	500V	6.3x32mm		4223534
1A	fast-acting	600V	10x38mm		4223398
10A	fast-acting	600V	6.3x32mm		3814230
10A	fast-acting	500V	6.3x32mm		3504670
10A	fast-acting	1000V	10x38mm	2-pack, FP100	1990707
11A	fast-acting	1000V	10x38mm		803293
12.5A	fast-acting	500V	6.3x32mm		2156681
15A	fast-acting	500V	6.3x32mm		2156727