# Measurement accessories for a secure connection

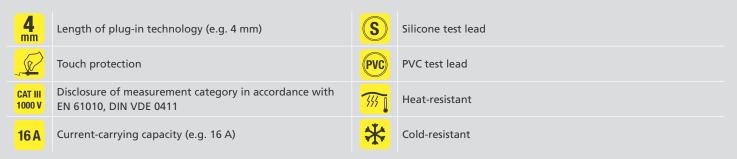


The right measurement and testing equipment, as well as the appropriate measurement accessories are important components for carrying out measurements in a safe, reliable manner.

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





600 V

**16**A

4

4

mm

# **Test leads SML 4W**

#### 4 mm safety plug-in technology

Accessory information

- Safety test lead, flexible 0.8 mm<sup>2</sup>
- 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



# 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	



**10 A** 

1000 V

# **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

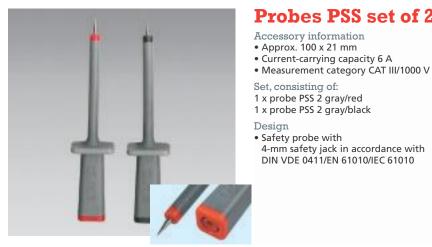
Design

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

dering Information:			
	Model	Article no.	
	370024	2146758	

Or





# **Probes PSS set of 2**

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

#### **Ordering Information:**

Model	Article no.
370008	2146694



CAT III

1000 V

**6**A

4

mm





#### 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 r	

#### 370004 2146675

10.



K Typ

CAT III

1000 V

**CAT IV** 

600 V

10 A

PVC

4

mm

temperature probe

#### **Technical specifications**

Current-carrying capacity 10 A Current-carrying capacity 10 A				
Veasurement Category				
Probes				
ropes	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	-200 °C: ±2.5 °C or ±1.5% rdg.			
,	0250 °C: ±1.1 °C or ±0.4% rdg.			

#### **Ordering Information:**

Model	Article no.

TL-300 4588279

1	<b>TL-300</b>
Ŀ	Test load

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



# 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



mm

4

mm

# **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:				
2	Model	Article no.		
red black	391511 391512	2146861 2146877		



CAT II

1000 V

## **Unidreh accessory set** 4 mm plug-in technology

Accessory information

- Self-retaining probes with clamping range ø 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 Probes (Astaco) Crocodile clip (KS4L) Pollution degree Safety cert.:

CAT II/1000 V CAT III/1000 V, CAT IV / 600 V

DIN VDE 0411/EN 61010/ IEC 61010

#### **Ordering Information:**

Model

#### UNIdreh accessory set 1324

2146183

Article no.



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



# **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



# 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

#### **Technical specifications**

Current-carrying capac	ity 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



#### **Technical specifications**

Current-carrying capaci	ty 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



Ordering Informa	tion:	
	Model	Article no.
red black	390450 390451	2406492 2406509

**2** 



# mm

CAT III

1000 V

4

CAT IV

600 V

PVC





# 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

Included:

2 x crocodile clips

**TL35B** 

**Test lead set** 

 Crocodile clips with thread connection, opening approx. 10 mm

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

with safety crocodile clips

Test lead set with 4 mm safety technology

• Safety crocodile clips with thread connection,

2 mm safety probes Accessory information

opening approx. 16 mm

2 x test leads, approx. 1 m long,

Test lead set with 4 mm safety technology

 PVC-insulated leads Threaded test probes

**Included:** 

**EU-200** 

**Test lead set** Accessory information

• 4 mm test probes

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 CAT III / 1000 V, CAT IV / 600 V Crocodile clips Pollution degree 2 DIN VDE 0411/EN 61010/ Safety cert.: IEC 61010



O

dering Information:		
	Model	Article no.
	TL36A	3034444

#### **Technical specifications**

Measurement categories			
Test lines CAT III/1000 V, CAT IV/600 V			
(wit	h cover)		
CAT II / 1000 V			
(wit	hout 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

#### **Technical specifications**

Measurement categorie	25	
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

# **Included:**

2 x test leads

- 2 x probes (with covers)
- 2 x crocodile clips





# **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

**Electronics** set

• Test lead set with 4 mm safety plug-in technol-

Accessory information

ogy

- 1 x crocodile clip, red
- 1 x crocodile clip, black

# CAT III 4

PVC

1000 V

mm

# **Included**:

- 1 x safety test lead, red, 16A
- 1 s safety test lead, lead, load, 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



# Electrician set

Accessory information • Test lead set with 4 mm safety plug-in technology

#### **Included:**

- 1 x safety test lead, red, 16A
- 1 s safety test lead, black, 16A

- 1 x safety test lead, black, loA 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
- 1 x crocodile clip, black, 16A

#### **Technical specifications**

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

#### **Ordering Information:**

	Model	Article no.
Safety set	370003	2146666

#### **Technical specifications**

Current-carrying capacit Measurement Category Safety test	ty 2A/6A/16A
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

#### **Technical specifications**

Current-carrying capacit Measurement Category Safety test	ty 6A/10A/16A
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