

Measuring Highlights

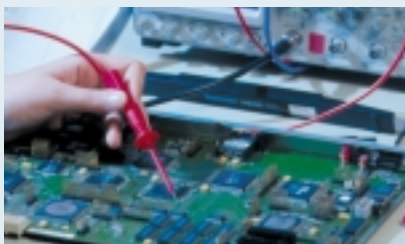


Precision and reliability in research and technology

For all types of measuring and testing equipment

HiTest measuring and testing accessories

Whether pole clamps, test probes or banana plugs, Hirschmann measuring and testing accessories have long been indispensable aids for the transmission of measurement data, voltages and currents, hence their use in R&D laboratories, test bays and workshops, service facilities, schools, training centres and institutes.



A must in research and technology

Hirschmann **HiTest** measuring and testing products comprise a comprehensive range of shockproof measuring leads and accessories. From miniature connectors for safety extra-low voltage to safety-type products for measuring tasks up to 1.000 V.



The high-quality materials used for the contacts of plug pins and sockets made of tin- or gold-plated brass or copper beryllium, affording outstanding connection, ensure consistent contact quality over prolonged time periods.

For all types of measuring and testing equipment.

To achieve the optimum degree of protection for users of hand-held measuring accessories, the entire product range is provided with double-strength reinforced insulation. Hirschmann attaches considerable importance to ergonomics and design, providing the user with the optimum degree of protection against electric shocks and other hazards.



FULL-SPECTRUM SOLUTIONS FROM THE SPECIALIST

Seeking dialogue, among ourselves and with users. Developing innovative ideas together. Making use of synergies. Establishing productive links. And this via state-of-the-art communication technologies to transmit voice, data and visual information. From modern antenna systems in automobiles, satellite reception and transmission systems to enterprise-wide network solutions. The Hirschmann Group, a subsidiary of

ADITRON AG, employs some 2,700 people around the world who are all committed to achieving this vision.

AUTOMATION AND NETWORK SOLUTIONS DIVISION

With its connectors, fieldbus and fiber optic systems, Hirschmann offers automation solutions in bus, sensor and actuator category. A broad range of connectors for measuring and

testing applications, machine and plant construction as well as building technology are incorporated into the program as well. Industry-specific solutions for company-wide data networks from the workgroup to the backbone, from industrial to office networking, from LAN to WAN complete our range. In all commonly used standards - with a focus on ETHERNET, Fast ETHERNET and Gigabit ETHERNET.

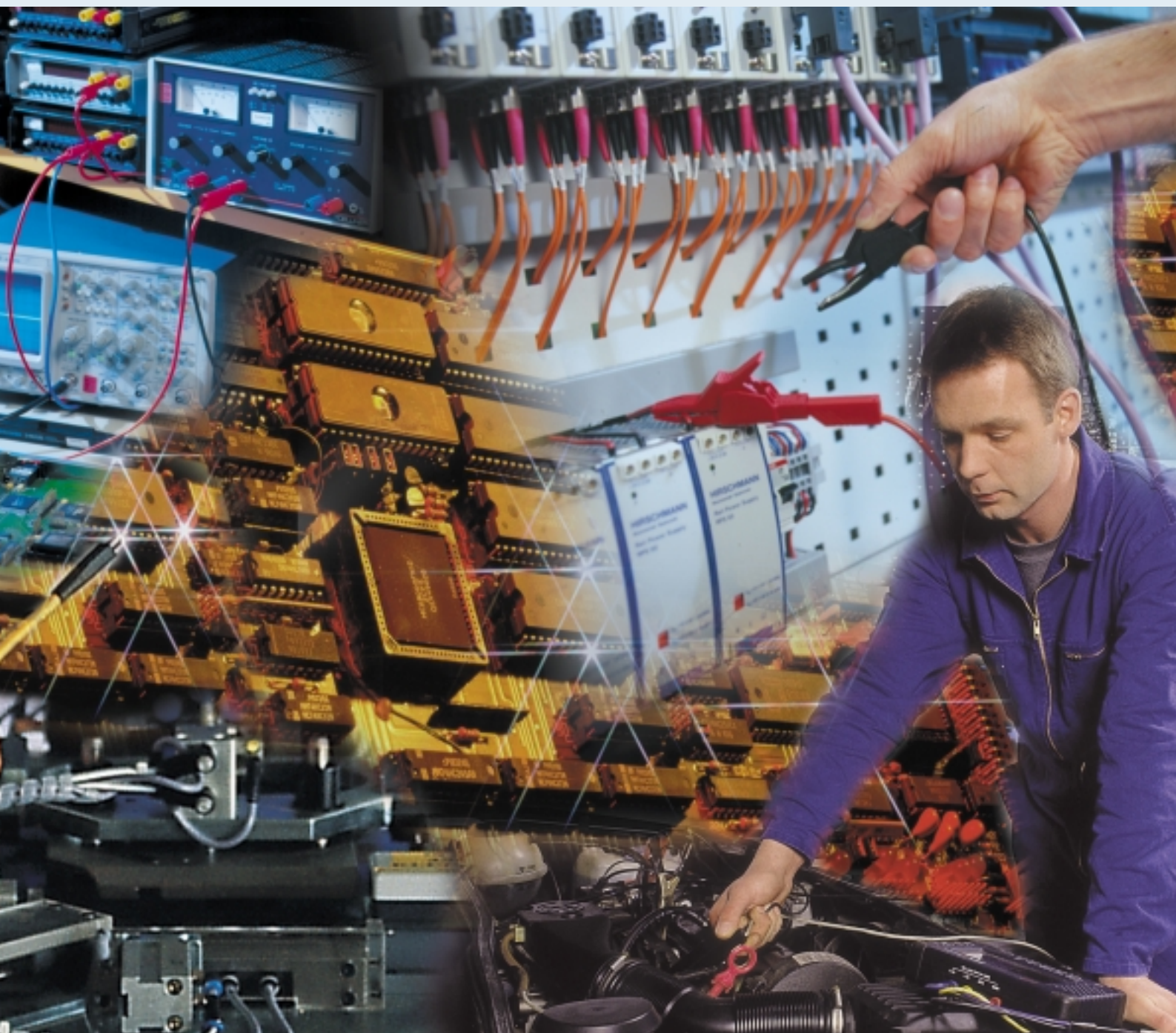


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A collection of various electronic test cables and probes, including red and black insulated cables, alligator clips, and specialized connectors, arranged on a blue background.



Descriptions of systems

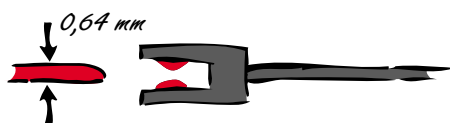


The catalogue is subdivided into sections according to applications, e.g. testing with test probes or establishing connections with measuring leads.

All the products are assigned to a system and are fully compatible within that system.

System designations are assigned to the products on the following pages. Unmarked products are unrelated to a system and can be used in combination with any system.

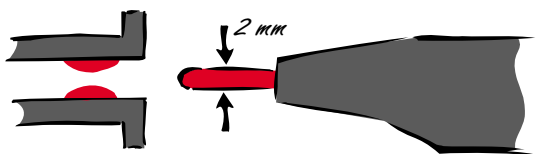
⑥ 0.64 mm system



The 0.64 mm system is compatible with standard 0.64 mm printed circuit board plugs. Miniature contacts, fully protected with high-quality contact material ensures efficient connecting and prolonged endurance. With this system, exceptionally small components and measuring points can be tested.

Max. 60 V

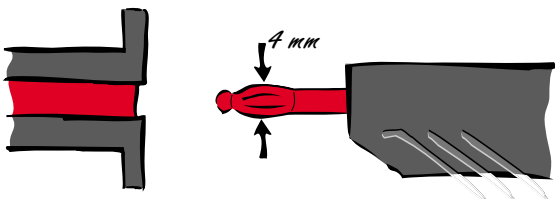
② 2 mm system



The 2 mm system consists of a solid contact pin and a spring-loaded socket. As a result, the small, high-quality contact pin is protected against mechanical influences.

Max. 60 V

④ 4 mm system

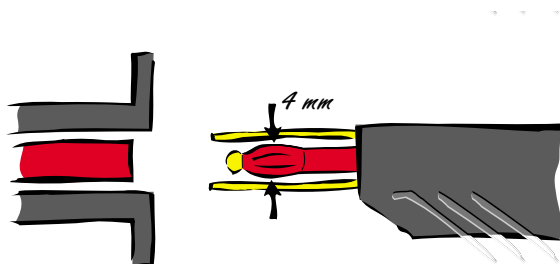


The 4 mm system comprises a spring-loaded contact pin and springless sockets. A variety of compatible contact techniques enable the user to resolve any individual problem. 4 mm plugs can be used in combination with safety sockets, clamp-type test probes, crocodile clips, etc.

Max. 60 V



● 4 mm safety system



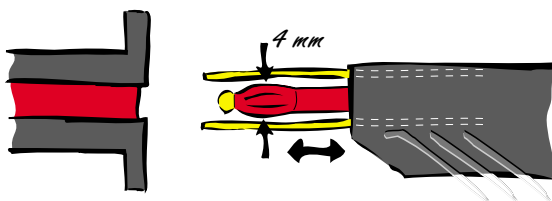
The 4 mm safety system comprises a 4 mm pin with contact spring. The pin is protected against physical contact by a plastic coating and the tip by a plastic cap. The system is completely shockproof and short circuit proof. 4 mm plugs can be plugged into safety sockets (SEB..., KLEPS..., AK...).

The component with the lowest electric strength determines the maximum permissible voltage of the whole system.

The system complies with IEC 1010 (EN 61 010).

Max. 1000 V

↔ 4 mm sliding sleeve system

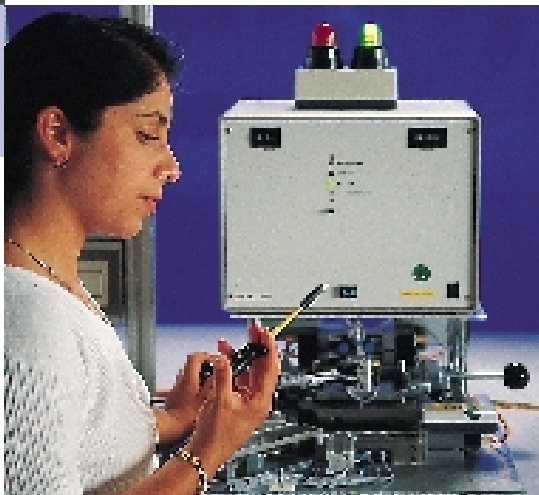


The 4 mm sliding sleeve system is a safety system which provides protection against physical contact by means of a sliding locking spring. The system can be used in combination with any 4 mm system.

Max. 300 V



Clamp-type test probes



Product description

Clamp-type test probes provide the simple, rapid measurement of voltages.

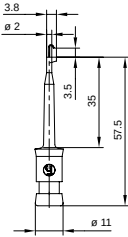
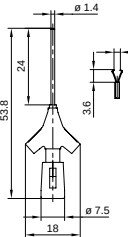
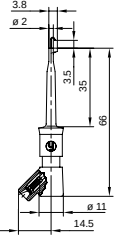
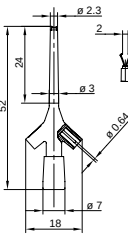
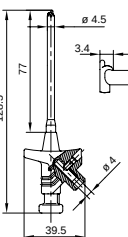
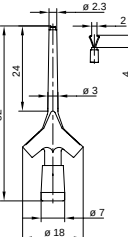
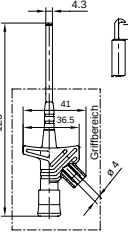
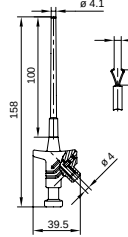
A variety of types and sizes permit the measuring point to be accessed and gripped without difficulty.

The ergonomic design has been optimised to facilitate handling to the utmost extent.

The KLEPS 2700 permits a lead to be tested without the insulation being stripped.

The KLEPS 2800 is provided with claw-type clamps with which large

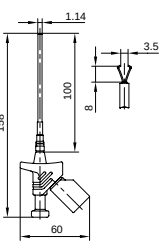
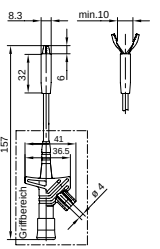
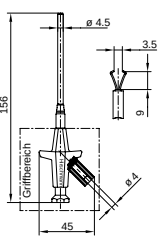
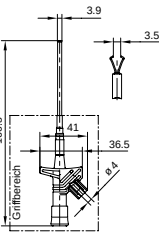
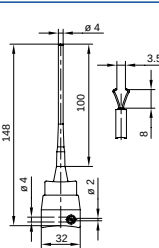
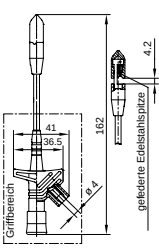
test specimens can be gripped. It is also suitable for testing currents. The classic KLEPS 30, used in millions of applications worldwide, serves as a versatile voltage tap.

*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
 KLEPS 2	 Clamping range max. $\varnothing$ 2 mm, contact hook, solder contact	931 467-100 ● 931 467-101 ●	 MICRO-KLEPS	 Very thin wires and densely packed contact points, clamping range $\varnothing$ 2 mm	973 972-100 ● 973 972-101 ●
 KLEPS 2-BU	 Clamping range max. $\varnothing$ 2 mm, contact hook	973 501-100 ● 973 501-101 ●	 KLEPS 3 ST	 Very thin wires and densely packed contact points, clamping range $\varnothing$ 3.5 mm	973 592-100 ● 973 592-101 ●
 KLEPS 10	 20 A clamping range max. $\varnothing$ 2 mm	930 111-100 ● 930 111-101 ●	 KLEPS 4	 Very thin wires and densely packed contact points, clamping range $\varnothing$ 3.5 mm	973 649-100 ● 973 649-101 ●
 KLEPS 2900	 20 A clamping range 5.5 mm	972 309-100 ● 972 309-101 ●	 KLEPS 30	 Clamping range $\varnothing$ 4 mm	930 113-100 ● 930 113-101 ●

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Clamp-type test probes



*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
 KLEPS 250		300 V = clamping range ø 4 mm 973 528-100 ● 973 528-101 ●	 KLEPS 2800		20 A clamping range ø 10 mm, grip claws 972 308-100 ● 972 308-101 ●
 KLEPS 2000		Clamping range ø 4 mm 972 378-100 ● 972 378-101 ●			
 KLEPS 2600		Clamping range ø 4 mm 972 306-100 ● 972 306-101 ●			
 KLEPS 60		Clamping range ø 4 mm 973 053-100 ● 973 053-101 ●			
 KLEPS 2700		0.25 mm² up to 1.5 mm² (ø 3.5 mm) contact without the need to strip them „Piercing Clip“ 972 307-100 ● 972 307-101 ●			

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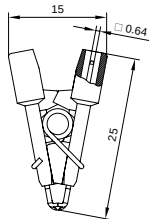
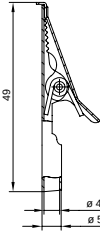
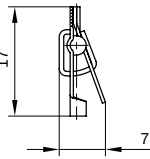
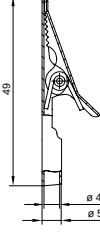
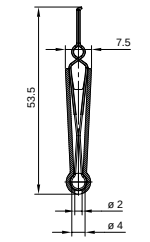
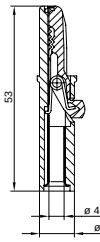
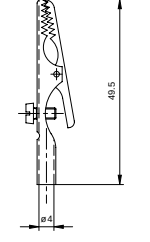
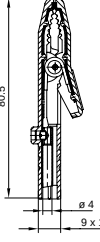
Alligator clips



Product description

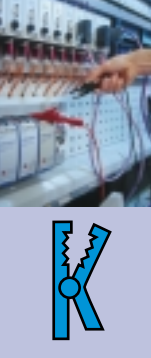
Alligator clips, also known as crocodile clips, are outstandingly suitable for the testing and transfer of currents. The sharp teeth of the clips bite into the test specimen with little contact resistance. Thanks to their thin wire clamping capability, they are able to make contact with extra finely stranded conductors of minimal cross sections. Opening widths up to 30 mm permit large contacts to be securely gripped.

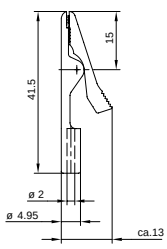
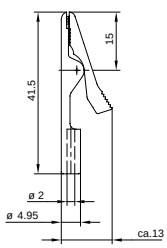
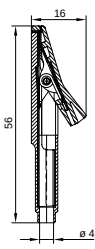
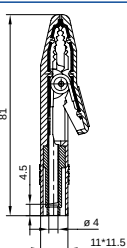
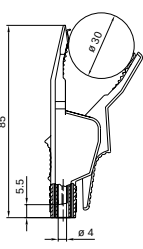
The MICRO-SMD CLIP is used for the two-pole testing of very small SMD components. Crocodile clips are also widely used in non-electrical applications.

*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
(64)  MICRO-SMD CLIP 1		2-pole test clip, clamping range 0 up to 8 mm 972 416-100	(4)  AGF 20		930 120-000
 AGF 1		Solder contact 930 476-001	(4)  AGF 30		Stainless steel, rust and acid-proof, non-magnetic 930 122-000
(2) (4)  AGF 2		Clamping range up to 4 mm 931 272-100 ● 931 272-101 ●	(4)  AK 10		6 A clamping range max. 6 mm 930 126-100 ● 930 126-601 ● 930 126-102 ● 930 126-103 ● 930 126-104 ●
(4)  AGS 20		Terminal screw, clamping range max. 5 mm 603 006-001	(4)  AK 2 S		25 A clamping range max. 9.5 mm 932 146-100 ● 932 146-101 ●

* System: (64) = 0.64 mm system / (2) ≙ 2 mm system / (4) ≙ 4 mm system / ● ≙ 4 mm safety system / ↔ ≙ 4 mm sliding sleeve system

Alligator clips



*System Article type	Technical Data	Order no. Colour	Notes
(2)  MA 1 	Clamping range up to 4 mm	930 317-800 ● 930 317-801 ●	
(2)  MA 1 S 	Rust and acid-proof, clamping range up to 4 mm	973 584-100 ● 973 584-101 ●	
(4)  MA 260 SH 	15 A 300 V clamping range ø 6 mm	973 889-100 ● 973 889-101 ●	
(4)  AK 2 B 	25 A 300 V clamping range ø 9.5 mm	932 435-100 ● 932 435-101 ●	
(4)  AK 2 B 2540 I 	34 A clamping range ø 30 mm	972 405-100 ● 972 405-101 ●	

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Test probes



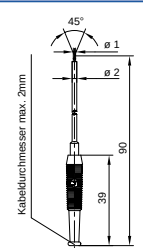
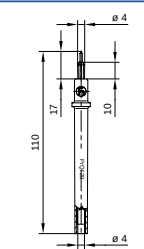
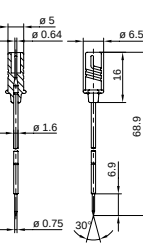
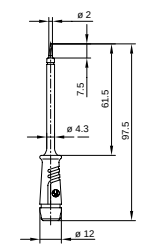
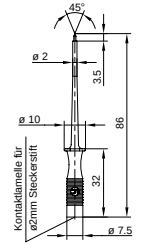
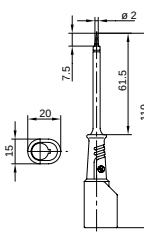
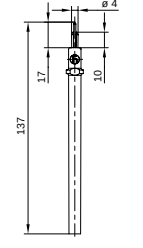
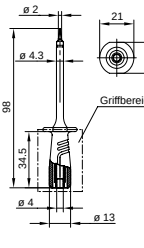
Product description

Test probes are used for voltage testing purposes.

Their needle-like steel tips penetrate oxidation layers, thereby establishing an effective connection with the test specimen.

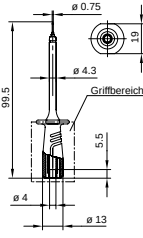
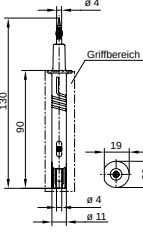
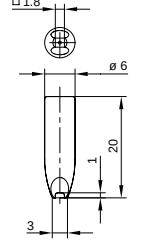
The spring-loaded prods of the MICRO-PRUEF and PRUEF 2610 FT make contact with sensitive components with gently applied spring force. Contact with less vulnerable contact points can be established with the PRUEF 2700, which is

also equipped with a 4 mm pin. The SS 260 prod guard protects the user from injury and ICs from short circuits.

*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
 PRUEF 1	 Kabeldurchmesser max. 2mm	931 376-100 ● 931 376-101 ●	 PRUEF 20		973 505-100 ● 973 505-101 ●
 MICRO-PRUEF MPS 2/0,64 FT		973 995-100 ● 973 995-101 ●	 PRUEF 2		973 368-100 ● 973 368-101 ●
 MPS 1	 Kontaktschleife für 40mm Steckerschliff	973 531-100 ● 973 531-101 ●	 PRUEF 2 S		973 659-100 ● 973 659-100 ●
 PRUEF 10		930 227-100 ● 930 227-101 ●	 PRUEF 2600	 Griffbereich	972 317-100 ● 972 317-101 ●

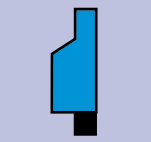
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*System Article type	Technical Data	Order no. Colour	Notes
 PRUEF 2610 FT		Sprung stainless steel tip 972 318-100 ● 972 318-101 ●	
 PRUEF 2700		972 319-100 ● 972 319-101 ●	
 SS 260		Contact protector, contact help for ICs 973 865-001	

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Measuring leads



Product description

Measuring leads connect hardware items such as machines, test equipment, measuring instruments, experimental set-ups, etc. A variety of types permits optimised cable layouts, expansion facilities through stacking and use in differing voltage ranges.

The selection of special-purpose insulating material and cross-sections ensures adaptability and high loading capacities. A special cable configuration incorporates a white tell-tale

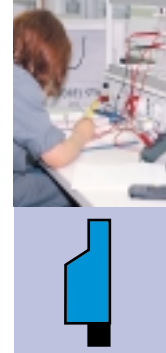
mark, indicating possible mechanical damage and a consequential risk to the user. Testing leads, which are typical accessories for multimeters, consist of measuring leads with test probes.

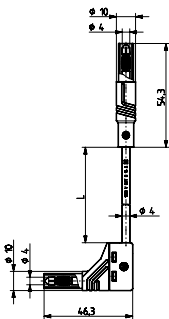
*System	Article type	Length "L" in cm	Technical Data	Order no. Colour
	MLS GG 25/1	25 cm	1 mm ² , PVC 16 A	934 070-Colour** ● ● ● ● ●
	MLS GG 25/2,5	25 cm	2,5 mm ² , PVC 32 A	934 071-Colour** ● ● ● ● ● ●
	MLS GG 50/1	50 cm	1 mm ² , PVC 16 A	934 072-Colour** ● ● ● ● ●
	MLS GG 50/2,5	50 cm	2,5 mm ² , PVC 32 A	934 073-Colour** ● ● ● ● ● ●
	MLS GG 100/1	100 cm	1 mm ² , PVC 16 A	934 074-Colour** ● ● ● ● ●
	MLS GG 100/2,5	100 cm	2,5 mm ² , PVC 32 A	934 075-Colour** ● ● ● ● ● ●
	MLS GG 200/1	200 cm	1 mm ² , PVC 16 A	934 076-Colour** ● ● ● ● ●
	MLS GG 200/2,5	200 cm	2,5 mm ² , PVC 32 A	934 077-Colour** ● ● ● ● ● ●

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** Colour: ● -100 ● -101 ● -102 ● -103 ● -104 ● -188

Measuring leads



*System		Article type	Length "L" in cm	Technical Data	Order no. Colour
 	●	MLS WG 25/1	25 cm	1 mm ² , PVC 16 A	934 078-Colour** ● ● ● ● ● ●
		MLS WG 25/2,5	25 cm	2,5 mm ² , PVC 32 A	934 079-Colour** ● ● ● ● ● ● ●
		MLS WG 50/1	50 cm	1 mm ² , PVC 16 A	934 080-Colour** ● ● ● ● ● ●
		MLS WG 50/2,5	50 cm	2,5 mm ² , PVC 32 A	934 081-Colour** ● ● ● ● ● ● ●
		MLS WG 100/1	100 cm	1 mm ² , PVC 16 A	934 082-Colour** ● ● ● ● ● ●
		MLS WG 100/2,5	100 cm	2,5 mm ² , PVC 32 A	934 083-Colour** ● ● ● ● ● ● ●
		MLS WG 200/1	200 cm	1 mm ² , PVC 16 A	934 084-Colour** ● ● ● ● ● ●
		MLS WG 200/2,5	200 cm	2,5 mm ² , PVC 32 A	934 085-Colour** ● ● ● ● ● ● ●

* System: (64) = 0.64 mm system / (2) ≙ 2 mm system / (4) ≙ 4 mm system / ● ≙ 4 mm safety system / ↔ ≙ 4 mm sliding sleeve system

** Colour: ● -100 ● -101 ● -102 ● -103 ● -104 ● -188



Measuring leads

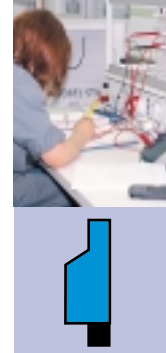


*System		Article type	Length "L" in cm	Technical Data	Order no. Colour
		MLS WS 25/1	25 cm	1 mm ² , PVC 16 A	934 067-Colour** ● ● ● ● ●
		MLS WS 25/2,5	25 cm	2,5 mm ² , PVC 32 A	934 086-Colour** ● ● ● ● ● ●
		MLS WS 50/1	50 cm	1 mm ² , PVC 16 A	934 068-Colour** ● ● ● ● ●
		MLS WS 50/2,5	50 cm	2,5 mm ² , PVC 32 A	934 087-Colour** ● ● ● ● ● ●
		MLS WS 100/1	100 cm	1 mm ² , PVC 16 A	934 095-Colour** ● ● ● ● ●
		MLS WS 100/2,5	100 cm	2,5 mm ² , PVC 32 A	934 088-Colour** ● ● ● ● ● ●
		MLS WS 200/1	200 cm	1 mm ² , PVC 16 A	934 069-Colour** ● ● ● ● ●
		MLS WS 200/2,5	200 cm	2,5 mm ² , PVC 32 A	934 089-Colour** ● ● ● ● ● ●

* System: (64) = 0.64 mm system / (2) ≙ 2 mm system / (4) ≙ 4 mm system / (●) ≙ 4 mm safety system / (↔) ≙ 4 mm sliding sleeve system

** Colour: ● -100 ● -101 ● -102 ● -103 ● -104 ● -188

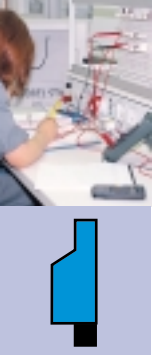
Measuring leads



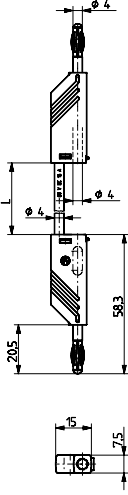
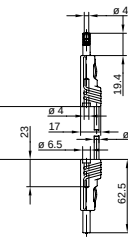
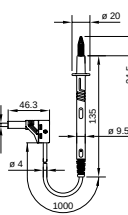
*System		Article type	Length "L" in cm	Technical Data	Order no. Colour
		MLN 25/1	25 cm	1 mm ² , PVC 16 A	934 058-Colour** ● ● ● ● ● ●
		MLN 25/2,5	25 cm	2,5 mm ² , PVC 32 A	934 059-Colour** ● ● ● ● ● ● ●
		MLN 50/1	50 cm	1 mm ² , PVC 16 A	934 060-Colour** ● ● ● ● ● ●
		MLN 50/2,5	50 cm	2,5 mm ² , PVC 32 A	934 061-Colour** ● ● ● ● ● ● ●
		MLN 100/1	100 cm	1 mm ² , PVC 16 A	934 062-Colour** ● ● ● ● ● ●
		MLN 100/2,5	100 cm	2,5 mm ² , PVC 32 A	934 063-Colour** ● ● ● ● ● ● ●
		MLN 150/1	150 cm	1 mm ² , PVC 16 A	934 064-Colour** ● ● ● ● ● ●
		MLN 200/1	200 cm	1 mm ² , PVC 16 A	934 065-Colour** ● ● ● ● ● ●
		MLN 200/2,5	200 cm	2,5 mm ² , PVC 32 A	934 066-Colour** ● ● ● ● ● ● ●

* System: (64) = 0.64 mm system / (2) ≙ 2 mm system / (4) ≙ 4 mm system / ● ≙ 4 mm safety system / ↔ ≙ 4 mm sliding sleeve system

** Colour: ● -100 ● -101 ● -102 ● -103 ● -104 ● -188



Measuring leads

*System		Article type	Length "L" in cm	Technical Data	Order no. Colour
④	 	MLN SIL 25/1	25 cm	1 mm ² , Silicon 16 A	934 090-Colour** ● ● ● ● ●
		MLN SIL 50/1	50 cm	1 mm ² , Silicon 16 A	934 091-Colour** ● ● ● ● ●
		MLN SIL 100/1	100 cm	1 mm ² , Silicon 16 A	934 092-Colour** ● ● ● ● ●
		MLN SIL 150/1	150 cm	1 mm ² , Silicon 16 A	934 093-Colour** ● ● ● ● ●
		MLN SIL 200/1	200 cm	1 mm ² , Silicon 16 A	934 094-Colour** ● ● ● ● ●
⊕	 	MLB 25/1 V	25 cm	1 mm ² , PVC 16 A 60 V DC	973 644-Colour** ● ● ● ● ●
		MLB 50/1 V	50 cm	1 mm ² , PVC 16 A 60 V DC	973 645-Colour** ● ● ● ● ●
		MLB 100/1 V	100 cm	1 mm ² , PVC 16 A 60 V DC	973 646-Colour** ● ● ● ● ● ●
		MLB 200/1 V	200 cm	1 mm ² , PVC 16 A 60 V DC	973 647-Colour** ● ● ● ● ●
●	 	PL 2600 S W	100 cm	1 mm ² , PVC 16 A Angle plug	934 158-Colour** ● ●
		PL 2600 S	100 cm	1 mm ² , PVC 16 A Straight plug	934 159-Colour** ● ●

* System: ⑥4 = 0.64 mm system / ② ≙ 2 mm system / ④ ≙ 4 mm system / ● ≙ 4 mm safety system / ⊕ ≙ 4 mm sliding sleeve system
 ** Colour: ● -100 ● -101 ● -102 ● -103 ● -104 ● -188

②

Two black cables with 3.5mm audio jacks, one slightly behind the other, angled towards the bottom left.

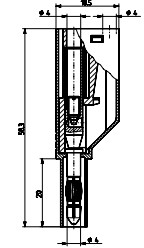
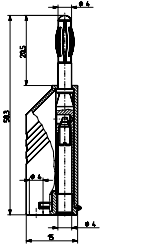
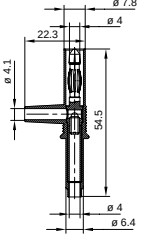
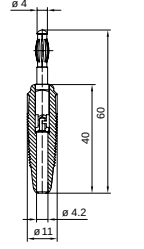
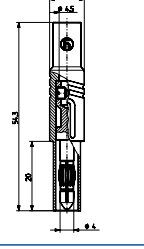
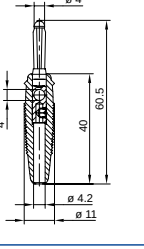
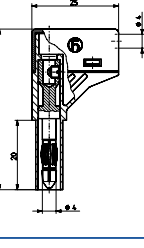
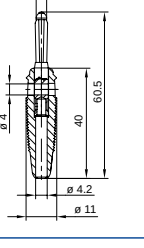
** Colour: ● -100 ● -101 ● -102 ● -103 ● -104 ● -188

Plugs

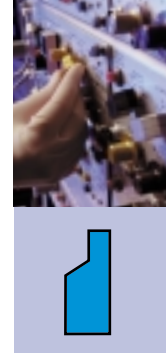
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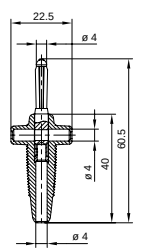
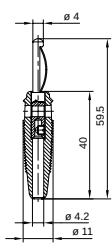
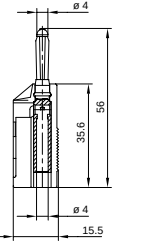
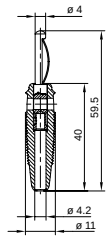
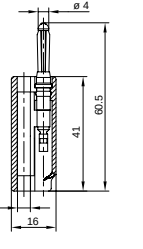
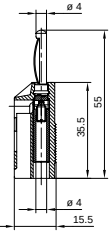
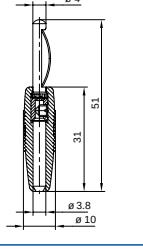
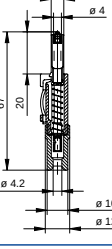
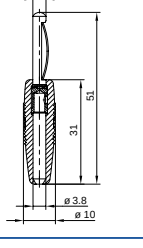
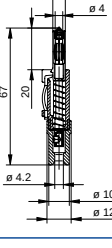
Plugs and connectors permit users to assemble their own measuring and testing leads. A variety of contact-making and connecting systems offer the ideal solution for every application. Safety plugs with screw connectors comply with IEC 1010 and can be used for voltages up to 1000 V. Connectors permit the assembly of extensions and connecting leads. All the products are simply plugged, screwed or soldered

together without the need for specialised tools.

*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
 LAS S WS	 20 A screw connection up to 1.5 mm ²	934 099-100 ● 934 099-101 ● 934 099-102 ● 934 099-103 ● 934 099-104 ●	 LAS N WS	 20 A screw connection up to 1.5 mm ²	934 100-100 ● 934 100-101 ● 934 100-102 ● 934 100-103 ● 934 100-104 ●
 SLS 2000 SH	 25 A screw connection up to 2.5 mm ²	972 320-100 ● 972 320-101 ●	 LAS 30	 20 A solder contact up to 1.5 mm ²	972 518-100 ● 972 518-101 ●
 LAS S G	 20 A screw connection max. 1.5 mm ²	934 097-100 ● 934 097-101 ● 934 097-102 ● 934 097-103 ● 934 097-104 ●	 BUELA 20 K	 16 A screw connection max. 1.5 mm ²	930 726-100 ● 930 726-101 ● 930 726-102 ● 930 726-103 ● 930 726-104 ●
 LAS S W	 20 A screw connection up to 1.5 mm ²	934 098-100 ● 934 098-101 ● 934 098-102 ● 934 098-103 ● 934 098-104 ●	 BUELA 30 K	 30 A solder contact max. 2.5 mm ²	930 727-100 ● 930 727-101 ● 930 727-102 ● 930 727-103 ● 930 727-104 ●

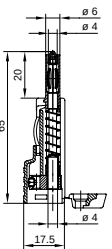
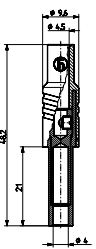
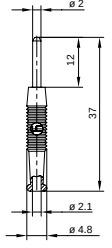
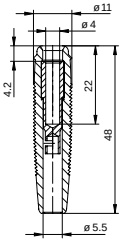
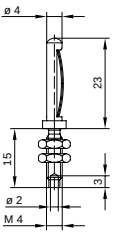
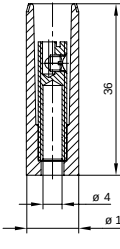
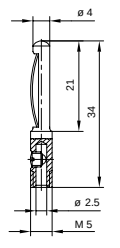
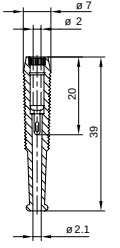
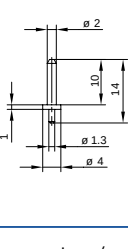
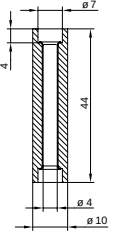
* System: (64) = 0.64 mm system / (2) = 2 mm system / (4) = 4 mm system / (●) = 4 mm safety system / (↔) = 4 mm sliding sleeve system



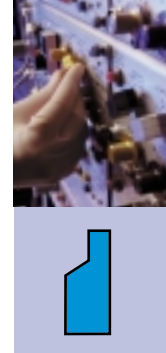
*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
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(4)  BSB 20 K	 30 A screw connection max. 2.5 mm ²	930 729-100 ● 930 729-101 ● 930 729-102 ● 930 729-103 ● 930 729-104 ●	(4)  VQ 30	 30 A solder contact max. 2.5 mm ²	930 061-100 ● 930 061-101 ● 930 061-102 ● 930 061-103 ● 930 061-104 ●
(4)  BSB 300	 16 A solder contact max. 1.5 mm ²	931 294-100 ● 931 294-101 ●	(4)  VSB 20	 30 A screw connection max. 2.5 mm ²	930 435-100 ● 930 435-101 ● 930 435-102 ● 930 435-103 ● 930 435-104 ●
(4)  VON 20	 16 A screw connection max. 1.5 mm ²	930 046-100 ● 930 046-101 ● 930 046-102 ● 930 046-103 ● 930 046-104 ●	(↔)  SLS 10 B	 30 A 60 V DC	931 824-100 ● 931 824-101 ●
(4)  VON 30	 30 A solder contact max. 2.5 mm ²	930 047-100 ● 930 047-101 ● 930 047-102 ● 930 047-103 ● 930 047-104 ●	(↔)  SLS 20 B	 16 A 300 V screw connection up to 1.5 mm ²	931 825-100 ● 931 825-101 ●

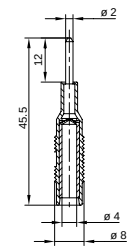
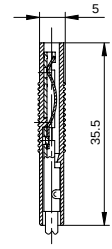
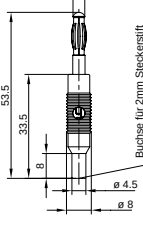
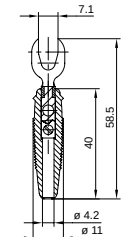
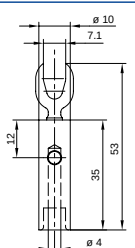
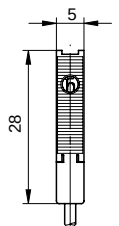
* System: (64) = 0.64 mm system / (2) = 2 mm system / (4) = 4 mm system / ● = 4 mm safety system / (↔) = 4 mm sliding sleeve system

Plugs

*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
 SLS 200	 30 A 300 V screw connection up to 2.5 mm ²	932 153-100 ● 932 153-101 ●	 KUN S	 16 A 300 V screw connection up to 2.5 mm ²	934 096-100 ● 934 096-101 ● 934 096-102 ● 934 096-103 ● 934 096-104 ●
 MST 3	 6 A solder contact	973 509-100 ● 973 509-101 ● 973 509-102 ● 973 509-103 ● 973 509-104 ● 973 509-106 ●	 KUN 30	 16 A solder contact up to 2.5 mm ²	931 804-100 ● 931 804-101 ● 931 804-102 ● 931 804-103 ● 931 804-104 ●
 VST 20	 16 A solder contact max. 2 mm ²	930 050-000	 KUN 10	 16 A screw connection up to 1.5 mm ²	930 189-100 ● 930 189-101 ●
 VST 100	 16 A screw connection max. 1.5 mm ²	930 581-000	 MKU 1	 6 A	930 320-100 ● 930 320-101 ●
 MST 201	 6 A screw connection max. 1.5 mm ²	931 338-001	 KD 10	 10 A	930 109-100 ● 930 109-101 ●

* System: (64) = 0.64 mm system / (2) ≙ 2 mm system / (4) ≙ 4 mm system / (●) ≙ 4 mm safety system / (↔) ≙ 4 mm sliding sleeve system



*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
(2) (4)  MZS 2		6 A 973 600-100 ● 973 600-101 ●	 FLAK 6,3		16 A for tab connectors 6.3 x 0.8 complying with DIN 46 244 crimp connection 1.5 mm ² up to 2.5 mm ² 909 004-100 ● 909 004-101 ● 909 004-107 ○
(4) (2)  MZS 4		6 A 973 599-100 ● 973 599-101 ●			
 KB 2		30 A max. 2.5 mm ² 930 584-100 ● 930 584-101 ●			
(4)  KB 20		30 A 930 110-100 ● 930 110-101 ●			
 FLAK 2,8		12 A for tab connectors 2.8 x 0.8 and 2.8 x 0.5 complying with DIN 46 244 crimp connection 0.5 mm ² up to 0.75 mm ² 909 009-100 ● 909 009-101 ●			

* System: (64) = 0.64 mm system / (2) ≙ 2 mm system / (4) ≙ 4 mm system / ● ≙ 4 mm safety system / ↔ ≙ 4 mm sliding sleeve system

Sockets

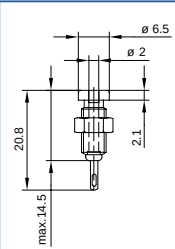
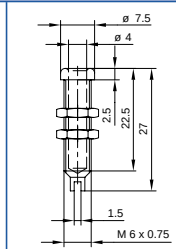
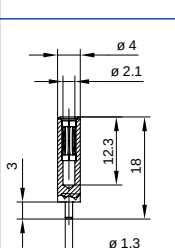
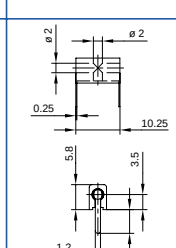
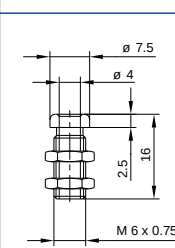
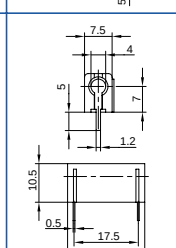
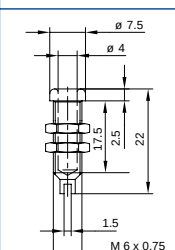
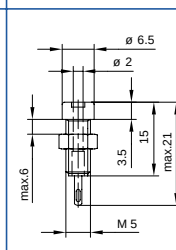


Product description

Sockets are built in equipment, housings or panels and permit the rapid, simple connection of measuring leads, plugs or, when configured as pole terminals, the secondary connection of leads and cable lugs. Tin plated and gold plated surfaces, and a choice of connector cross sections, permit the reliable transmission of low-level signals and powerful currents.

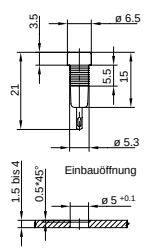
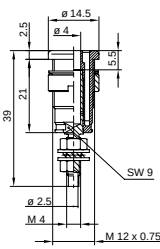
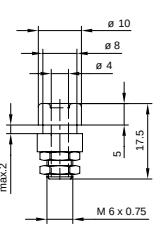
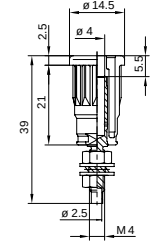
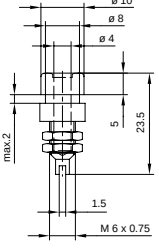
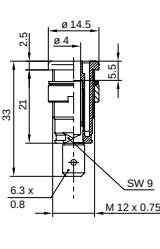
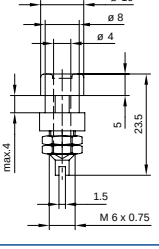
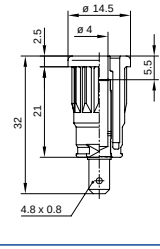
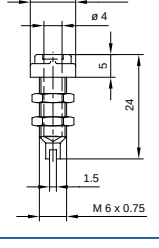
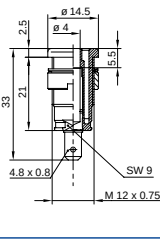
The insulation of the PKI 110 incorporates a spring which

permits leads to be efficiently connected in the minimum of time.

*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
②  MBU 1	 6 A	930 312-000	④  BU 20	 16 A opening for installation $\varnothing$ 6 mm	930 177-000
②  MBU 2	 6 A	931 337-000	②  MPB 1	 6 A	930 224-100 ● 930 224-101 ●
④  BO 10	 16 A opening for installation $\varnothing$ 6 mm	930 160-000	④  PB 4	 16 A	973 582-100 ● 973 582-101 ●
④  BU 10	 16 A opening for installation $\varnothing$ 6 mm	930 147-000	②  MBI 1	 6 A	930 308-100 ● 930 308-101 ● 930 308-102 ● 930 308-103 ● 930 308-104 ● 930 308-106 ●

* System: ⑥4 = 0.64 mm system / ② = 2 mm system / ④ = 4 mm system / ● = 4 mm safety system / ↔ = 4 mm sliding sleeve system

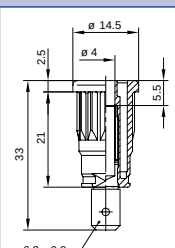
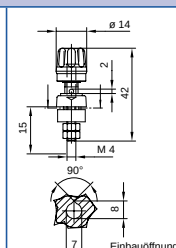
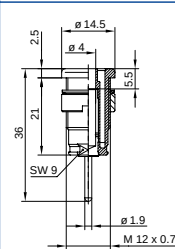
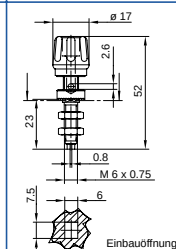
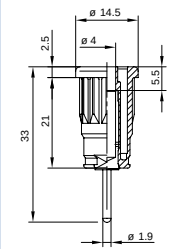
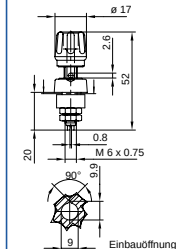
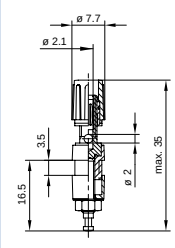
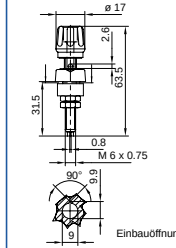
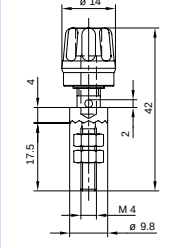
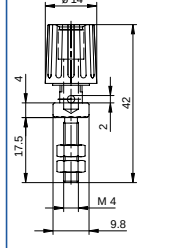


*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
 MBI 2		6 A press-fit sleeve 973 642-100 ● 973 642-101 ●	 SEB 2600 G M4		32 A screw connection, M4, solder 972 354-100 ● 972 354-101 ● 972 354-102 ● 972 354-103 ● 972 354-104 ● 972 354-188 ●
 BI 20		max. 32 A opening for installation ø 8 mm 930 164-100 ● 930 164-101 ●	 SEP 2600-G M4		32 A screw connection, M4, solder, press-fit sleeve 972 360-100 ● 972 360-101 ● 972 360-102 ● 972 360-103 ● 972 360-104 ● 972 360-188 ●
 BIL 20		max. 32 A opening for installation ø 8 mm 930 176-100 ● 930 176-101 ● 930 176-102 ● 930 176-103 ● 930 176-104 ● 930 176-107 ○	 SEB 2610 F4,8		24 A 4.8 x 0.8, tab connector 972 355-100 ● 972 355-101 ● 972 355-102 ● 972 355-103 ● 972 355-104 ● 972 355-188 ●
 BIL 30		max. 32 A opening for installation ø 8 mm 930 166-100 ● 930 166-101 ●	 SEP 2610-F4,8		24 A press-fit sleeve, tab connector 4.8 x 0.8 972 361-100 ● 972 361-101 ● 972 361-102 ● 972 361-103 ● 972 361-104 ● 972 361-188 ●
 BUG 10		max. 32 A opening for installation ø 6 mm 930 175-100 ● 930 175-101 ● 930 175-102 ● 930 175-103 ● 930 175-104 ●	 SEB 2620 F6,3		32 A 6.3 x 0.8, tab connector 972 356-100 ● 972 356-101 ● 972 356-102 ● 972 356-103 ● 972 356-104 ● 972 356-188 ●

* System: (64) = 0.64 mm system / (2) = 2 mm system / (4) = 4 mm system / (●) = 4 mm safety system / (↔) = 4 mm sliding sleeve system

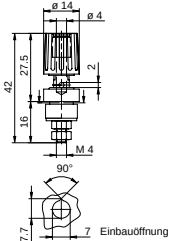
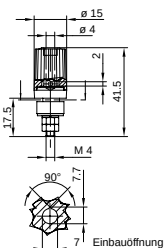
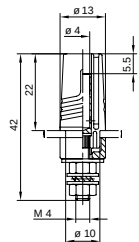
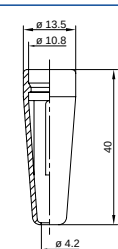
Sockets



*System Article type	Technical Data	Order no. Colour	*System Article type	Technical Data	Order no. Colour
 SEP 2620-F6,3	 32 A press-in socket, tab connector 6.3 x 0.8	972 362-100 ● 972 362-101 ● 972 362-102 ● 972 362-103 ● 972 362-104 ● 972 362-188 ●	 PKI 10 A	 max. 35 A	930 103-100 ● 930 103-101 ● 930 103-102 ● 930 103-103 ● 930 103-104 ● 930 103-188 ●
 SEB 2630-S1,9	 24 A soldering spike 1.9 mm	972 359-100 ● 972 359-101 ● 972 359-102 ● 972 359-103 ● 972 359-104 ● 972 359-188 ●	 PKN 10 B	 63 A	930 117-100 ● 930 117-101 ●
 SEP 2630-S1,9	 24 A press-in socket, soldering spike 1.9 mm	972 363-100 ● 972 363-101 ● 972 363-102 ● 972 363-103 ● 972 363-104 ● 972 363-188 ●	 PKNI 10 B	 63 A	930 136-100 ● 930 136-101 ●
 MPK 1	 6 A	930 268-100 ● 930 268-101 ●	 PKNI 20 B	 63 A	930 144-100 ● 930 144-101 ●
 PK 10 A	 max. 35 A opening for installation ø 6 mm	930 099-100 ● 930 099-101 ● 930 099-102 ● 930 099-103 ● 930 099-104 ● 930 099-188 ●	 PK 110	 max. 35 A opening for installation ø 6 mm	931 713-100 ● 931 713-101 ●

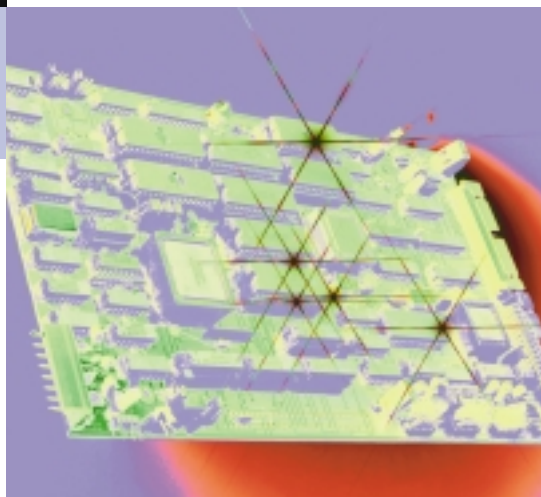
* System: (64) = 0.64 mm system / (2) = 2 mm system / (4) = 4 mm system / (●) = 4 mm safety system / (↔) = 4 mm sliding sleeve system



*System Article type	Technical Data	Order no. Colour	Notes
④  PKI 110 	max. 35 A	931 714-100 ● 931 714-101 ● 931 714-102 ● 931 714-103 ● 931 714-104 ● 931 714-188 ●	
④  PKI 100 	max. 35 A	930 757-100 ● 930 757-101 ● 930 757-102 ● 930 757-103 ● 930 757-104 ● 930 757-188 ●	
●  SAB 2600 G M4 	32 A surface-mounted socket, screw connection, M4	972 357-100 ● 972 357-101 ● 972 357-102 ● 972 357-103 ● 972 357-104 ● 972 357-188 ●	
●  BES 1000 	Contact protection for screw-in and press-in sockets (SEB and SEP)	973 616-103 ●	

* System: ⑥4 = 0.64 mm system / ② = 2 mm system / ④ = 4 mm system / ● = 4 mm safety system / ↔ = 4 mm sliding sleeve system

IC testers



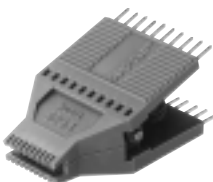
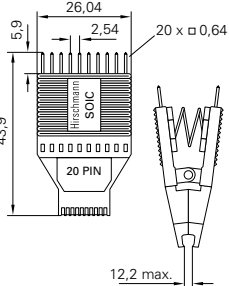
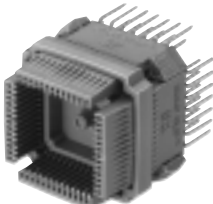
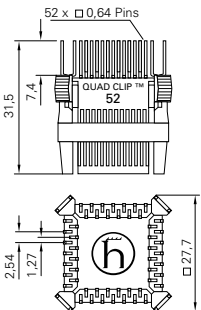
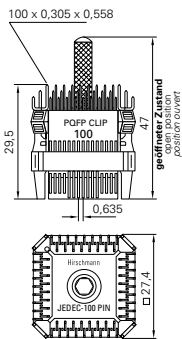
Product description

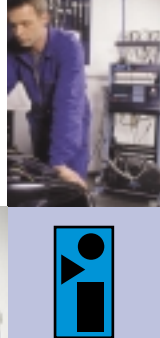
IC testers serve as adapters for testing of soldered ICs with SOIC, PLCC and JEDEC type housings.

By means of a retaining mechanism, testers can be securely connected to a specimen for testing with a test instrument.

A variety numbers of poles cover the most commonly used types.

Thanks to the compact size of the testers, even printed circuit boards with densely mounted components can be tested.

Type			Number of poles	Order no.
		SOIC-T-8	8	933 080-001
		SOIC-T-14	14	933 081-001
		SOIC-T-16	16	933 082-001
		SOIC-T-20	20	933 083-001
		SOIC-T-24	24	933 084-001
		IC tester (8- to 24-pole) for SMD-SOIC and SOJ with 1.27 mm pin spacing		
		PLCC-T-20	20	933 085-001
		PLCC-T-28	28	933 086-001
		PLCC-T-32	32	933 087-001
		PLCC-T-44	44	933 088-001
		PLCC-T-52	52	933 089-001
		PLCC-T-68	68	933 090-001
		JEDEC-T-100	100	933 092-001
		JEDEC-T-132	132	933 093-001
		JEDEC-T-196	196	933 094-001
		IC tester (100- to 196-pole) for SMD-JEDEC QFP with 0.635 mm pin spacing		



Product description

Sets are composed of products which serve as the basic equipment for specific applications. A set contains products from a system, e.g. measuring leads, test probes, crocodile clips, etc., coloured red and black in each case. Sets also serve as the basic equipment and provide expansion facilities for multimeters:

- Original electronic equipment (PMS 0.64)
- Vehicle service set (PMS 4 KFZ)
- Safety set for electricians (PMS 2600)



 PL 2600 S W Set	Test probe set as accessory for measuring devices • Test lead with dual function test probe PL 2600 S W; ** Order no.: 972 425-002	 PMS 2	Test equipment set for 2 mm miniature system • KLEPS 2 BU clamp-type test probe; ** • MPS 1 miniature test probe; ** • MA 1 miniature crocodile clip; ** • MVL 2/100 measuring lead; ** Order no.: 932 961-001
 PL 2600 S Set	Test probe set as accessory for measuring devices • Test lead with dual function test probe PL 2600 S; ** Order no.: 972 337-002	 PMS 4	Test equipment set for 4 mm system • KLEPS 30 clamp-type test probe; ** • PRUEF 2 test probe; ** • AK 2 S crocodile clip; ** • MLN 100/1 measuring lead; ** Order no.: 932 793-001
 PMS 0,64	Micro test equipment set for SMD components and 0.64 mm miniature system • MICRO-KLEPS micro clamp-type test probe; ** • MICRO-PRUEF MPS 2/0.64 FT sprung micro test probe; ** • AGF 1 crocodile clip; * • MALN 4-0.64/100-0.25 measuring lead from 0.64 mm to 4 mm; ** Order no.: 932 959-001	 PMS 4 KFZ	Test equipment set for automobile service and workshops, 4 mm system • KLEPS 2700 piercing clip; ** • PRUEF 2610 FT sprung test probe; ** • AK 2 B 2540 crocodile clip; ** • MLN SIL 150/1 silicon measuring lead; **, lead length 1.5 m Order no.: 933 003-001

* 1 each blank, ** 1 each red and 1 each black

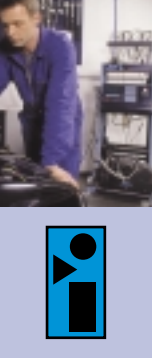


Sets



 PMS 250	Sliding sleeve test equipment set for 4 mm system • KLEPS 250 clamp-type test probe; ** • PRUEF 2 S test probe; ** • AK 2 B crocodile clip; ** • MLB 100/1 V measuring lead; ** Order no.: 932 827-001	 MMS 2020	Multimeter set as accessory for measuring devices • PRUEF 2700 test probe; ** • AK 2 B 2540 crocodile clip; ** • MLS WG 100/1 contact-protected measuring lead; ** Order no.: 972 340-001
 PMS 2600	Test equipment set for safety applications • KLEPS 2600 clamp-type test probe; ** • PRUEF 2600 test probe; ** • AK 2 B crocodile clip; ** • MLS GG 100/1 contact-protected measuring lead; ** Order no.: 972 338-001	 MMS 2030	Multimeter set as accessory for measuring devices • KLEPS 2600 clamp-type test probe; ** • PRUEF 2700 test probe; ** • MLS WG 100/1 contact-protected measuring lead; ** Order no.: 972 341-001
 MMS 2010	Multimeter set as accessory for measuring devices • KLEPS 2800 clamp-type test probe; ** • PRUEF 2700 test probe; ** • MLS WG 100/1 contact-protected measuring lead; ** Order no.: 972 339-001	 MMS 2040	Multimeter set as accessory for measuring devices • KLEPS 2600 clamp-type test probe; ** • AK 2 B crocodile clip; ** • PL 2600 test lead; ** • MLS WG 100/1 contact-protected measuring lead; ** Order no.: 972 342-001

** 1 each red and 1 each black



Warranty clause

Our written and verbal advice in respect of applications is intended to assist you in your work.

It is not binding, even as regards any thirdparty proprietary rights, and does not discharge you from your obligation to carry out corresponding tests determining the suitability of your products for the intended processes and purposes.

Product descriptions do not give any indication as to liability for any damage that may be caused. Should liability arise nevertheless, it is limited to no more than the value of the goods supplied and used, regardless of the damage.

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