Multi-Contact MC®




# Blister Pack Programme

# TEST ACCESSORIES

**With this catalogue we present our new blister-pack programme TEST ACCESSORIES.**

**It contains a selection from our extensive range of test accessories with which we aim to address retailers in particular.**

**It therefore gives a prominent place to products for which there is a frequent demand and to articles that offer good value at an economical price – naturally with the customary MC® quality.**

**By grouping articles from our standard range into sets which are clearly and concisely presented in this catalogue, we aim to facilitate buyers' decisions on their choice of sales mix.**

**For the display of the products in the sales rooms, we supply all the articles in this catalogue in blister packs to hang on perforated panels.**

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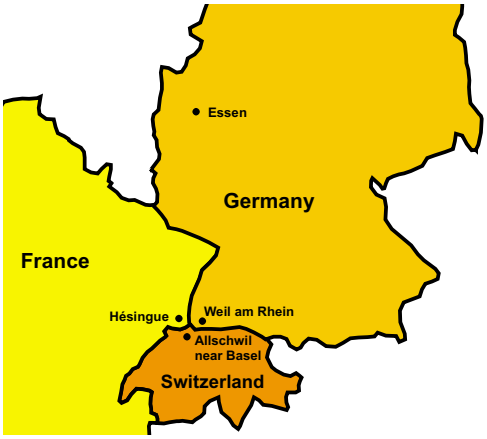


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## Examples for Blister Packs




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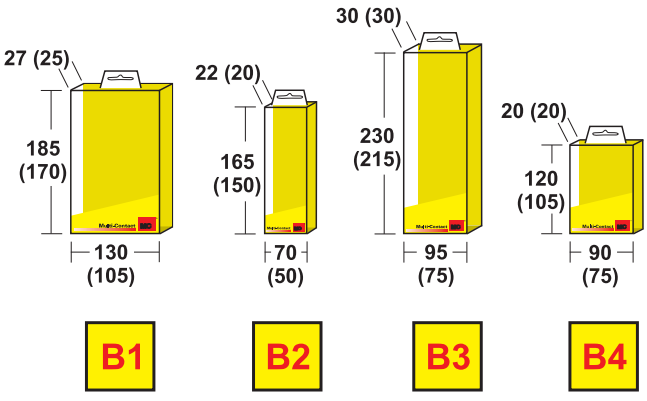
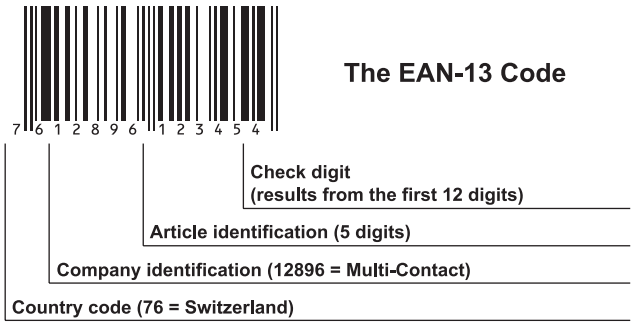
## Dimensions of the Blister Packs

We use four standard blister sizes:




The figures given in the drawings for width, height and depth are approximate **outer (inner)** dimensions in millimetres. In the catalogue, the employed blister size is indicated by the symbol **B1** to **B4** beside each article.

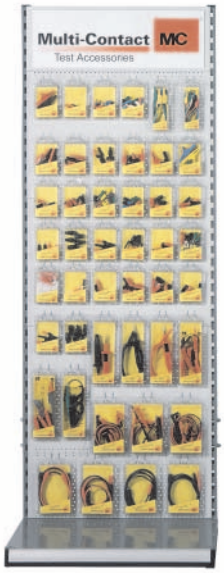
## The Bar Code on our Blister Packs




We have provided all blister-packed articles with bar codes (EAN-13). This 13-digit code enables every article to be clearly identified anywhere in the world.

Retailers can use this widely employed code directly on their own computer systems without having to mark the goods with labels etc. – an important advance and a valuable aid in the rationalisation of your business operations now or in future.

## Perforated Panel Stands EZ-100

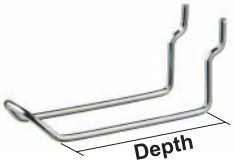



Perforated Panel Stands for clearly visible, ready-at-hand presentation of products in self-service sales rooms.

If you require dimensions that differ from those stated below, please contact us!!

| | |
|---|---|
| Dimensions: Width x Height x Depth | 67 cm x 185 cm x 41 cm |
| **Order No.** | **99.00218** |

## Hang-sell Hooks EZ-200, EZ-300, EZ-400




Hang-sell hooks to fit in the holes of pegboard point-of-sale stands. The hooks are available in various lengths. If you require sizes that differ from those stated below, please contact us.

| Type / Depth | Order No. |
|---|---|
| EZ-200 / 6,5 cm | 99.00220 |
| EZ-300 / 10,5 cm | 99.00221 |
| EZ-400 / 16 cm | 99.00222 |

## Backing Cards EZ-500




Backing cards to facilitate the work of sales staff when refilling with stock. The cards are hung on the hook at the back, behind the goods. When all blister packs of an article have been sold, the relevant bar code can quickly be scanned in from the backing card. The backing cards are supplied in sets of approximately 72, corresponding to our complete blister pack range.

| | |
|---|---|
| **Order No.** | **99.00230** |

## The ø 2 mm Safety System



**The ø 2 mm safety system:**

- Lightweight
- Space-saving
- Protected against accidental touching in accordance with IEC / EN 61010-2-031

## ø 2 mm Safety Test Lead Set with Accessories (8-piece) Z2S-100

Silicone B2



Test lead set, consisting of:

- ø 2 mm safety test leads, Silicone-insulated, 100 cm long, 0.5 mm$^2$, 10 A
- Push-on, fully insulated safety crocodile clips with powerful jaws and surface for gripping fine wires
- Push-on safety test probes, stainless steel, rigid, with protective cap, for contact with individual IC legs (spacing 2.54 mm)
- Push-on safety test clip with spring wire grabber, max. 300 V (CAT II)

| | |
|---|---|
| Rated voltage | max. 600 V, CAT II |
| **Order No.** | **99.00179** |

## Stackable ø 2 mm Safety Plugs (assortment, 12 pcs.) E2S-100

B4



ø 2 mm safety plug with soldering connection for connecting flexible leads. ø 2 mm socket at rear permits insertion of further ø 2 mm plugs.

| | |
|---|---|
| Rated voltage / current | 600 V, CAT II / 10 A |
| Recommended conductor cross-section / outside diameter | 0.5 $mm^2$ / ø 2.5 mm |
| **Order No.** | **99.00002** |

## ø 2 mm Safety Test Leads (assortment, 6 pcs.) E2S-200

B2



CE cUL

High-flexibility safety test leads. Both ends fitted with ø 2 mm stackable safety plugs.

| | |
|---|---|
| Rated voltage / current | 600 V, CAT II / 10 A |
| Lead cross-section / insulation / length | 0.5 $mm^2$ / PVC / 100 cm |
| **Order No.** | **99.00005** |

## ø 2 mm Panel-mounting Safety Sockets (assortment, 12 pcs.) E2S-300

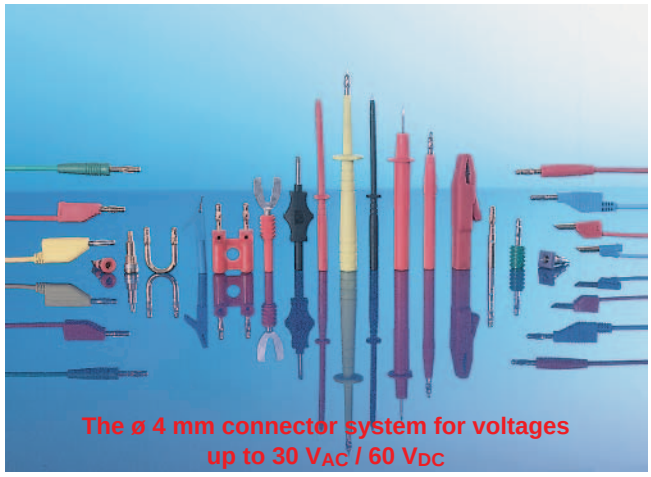
B4



Touch-protected safety sockets to mate with ø 2 mm safety plugs for mounting in holes drilled in panels of plastic, metal etc. The sockets may be fitted by pressing-in or screwing in place (flush or raised panel mounting).

| | |
|---|---|
| Rated voltage / current | 600 V, CAT III / 10 A |
| Connection | round pin ø 1.9 mm |
| **Order No.** | **99.00008** |

## The ø 4 mm Connector System




## ø 4 mm Test Lead Set with Accessories (6-piece) Z4-100

B1



Test lead set, consisting of:

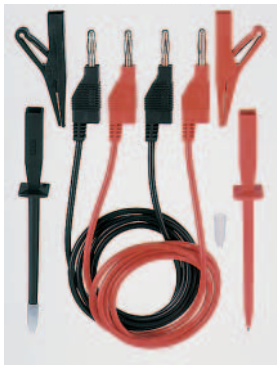
- ø 4 mm test leads, PVC insulated, 150 cm, 2.5 $mm^2$, max. 32 A
- Push-on test probes, stainless steel, rigid
- Push-on test clips

| | |
|---|---|
| Rated voltage | 30 $V_{AC}$ / 60 $V_{DC}$ |
| **Order No.** | **99.00182** |

## ø 4 mm Test Lead Set with Accessories (6-piece) Z4-200

*Silicone*

B1



Test lead set, consisting of:

- ø 4 mm test leads, Silicone insulated, 100 cm, 0.75 $mm^2$, max. 15 A
- Push-on test probes, stainless steel, rigid, with protective caps for non-slip contact with individual IC legs (spacing 2.54 mm)
- Push-on test clips with sharp toothed jaws, max. 2 A

| | |
|---|---|
| Rated voltage | 30 $V_{AC}$ / 60 $V_{DC}$ |
| **Order No.** | **99.00185** |

## The ø 4 mm Safety System

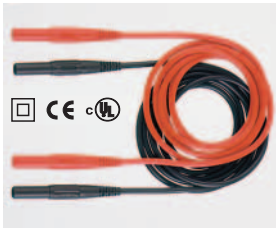


## In Conformity with Standards and Safe.




### ø 4 mm Safety Test Leads (2 pcs. red / black) — E4S-010

B1

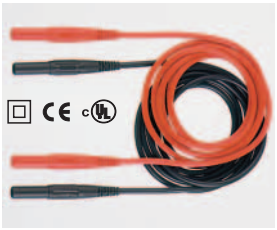


Highly flexible safety test leads. ø 4 mm inline safety plug at each end.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / PVC / 150 cm |
| **Order No.** | **99.00011** |

### ø 4 mm Safety Test Leads (2 pcs. red / black) — E4S-020

B1



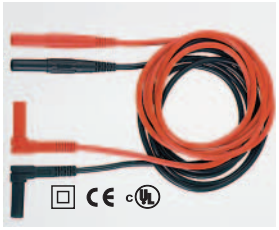
Silicone

Highly flexible safety test leads. ø 4 mm inline safety plug at each end.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / Silicone / 150 cm |
| **Order No.** | **99.00014** |

### ø 4 mm Safety Test Leads (2 pcs. red / black) — E4S-030

B1



Highly flexible safety test leads. One end ø 4 mm inline safety plug, other end right-angled ø 4 mm safety plug.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / PVC / 150 cm |
| **Order No.** | **99.00017** |

### ø 4 mm Safety Test Leads (2 pcs. red / black) — E4S-040

B1



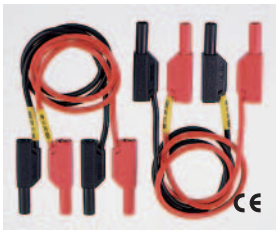
Silicone

Highly flexible safety test leads. One end ø 4 mm inline safety plug, other end right-angled ø 4 mm safety plug.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / Silicone / 150 cm |
| **Order No.** | **99.00020** |

## 4 mm Safety Test Leads (4 pcs. red / black)

**E4S-050** B1



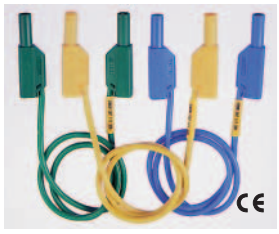
50 cm

High-flexibility safety test leads. Both ends fitted with ø 4 mm stackable safety plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Lead cross-section / insulation / length | 2.5 mm² / PVC / 50 cm |
| **Order No.** | **99.00023** |

## ø 4 mm Safety Test Leads (3 pcs. blue / yellow / green)

**E4S-060** B2



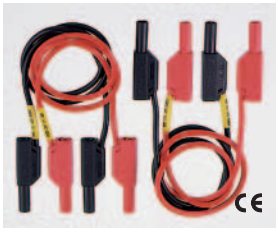
50 cm

High-flexibility safety test leads. Both ends fitted with ø 4 mm stackable safety plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Lead cross-section / insulation / length | 2.5 mm² / PVC / 50 cm |
| **Order No.** | **99.00026** |

## ø 4 mm Safety Test Leads (4 pcs. red / black)

**E4S-070** B1



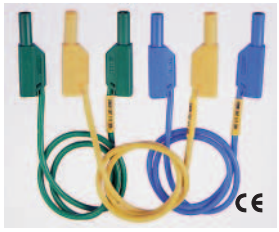
100 cm

High-flexibility safety test leads. Both ends fitted with ø 4 mm stackable safety plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Lead cross-section / insulation / length | 2.5 mm² / PVC / 100 cm |
| **Order No.** | **99.00029** |

## ø 4 mm Safety Test Leads (3 pcs. blue / yellow / green)

**E4S-080** B1



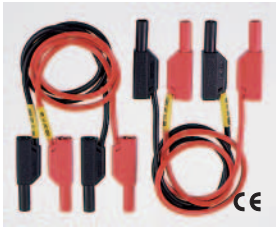
100 cm

High-flexibility safety test leads. Both ends fitted with ø 4 mm stackable safety plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Lead cross-section / insulation / length | 2.5 mm² / PVC / 100 cm |
| **Order No.** | **99.00032** |

## ø 4 mm Safety Test Leads (4 pcs. red / black)

**E4S-090** B1



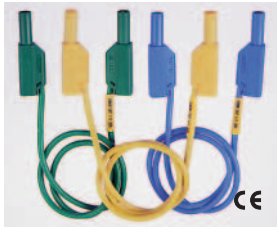
200 cm

High-flexibility safety test leads. Both ends fitted with ø 4 mm stackable safety plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Lead cross-section / insulation / length | 2.5 mm² / PVC / 200 cm |
| **Order No.** | **99.00035** |

## ø 4 mm Safety Test Leads (3 pcs. blue / yellow / green)

**E4S-100** B1



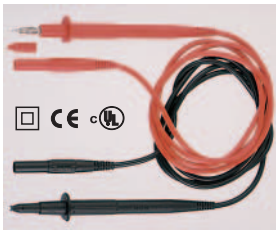
200 cm

High-flexibility safety test leads. Both ends fitted with ø 4 mm stackable safety plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Lead cross-section / insulation / length | 2.5 mm² / PVC / 200 cm |
| **Order No.** | **99.00038** |

## ø 4 mm Safety Test Leads with Test Probes (2 pcs. red / black) E4S-110

B1



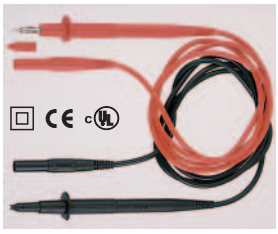
Highly flexible safety test leads. One end ø 4 mm safety test probe with spring Multilam®, other end ø 4 mm inline safety plug. With protective caps for test connection to IC's (leg spacing 2.54 mm).

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / PVC / 100 cm |
| **Order No.** | **99.00041** |

## ø 4 mm Safety Test Leads with Test Probes (2 pcs. red / black) E4S-120

B1

Silicone

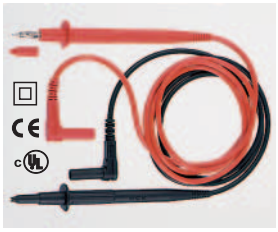


Highly flexible safety test leads. One end ø 4 mm safety test probe with spring Multilam®, other end ø 4 mm inline safety plug. With protective caps for test connection to IC's (leg spacing 2.54 mm).

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / Silicone / 100 cm |
| **Order No.** | **99.00044** |

## ø 4 mm Safety Test Leads with Test Probes (2 pcs. red / black) E4S-130

B1



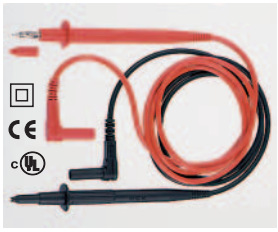
Highly flexible safety test leads. One end ø 4 mm safety test probe with spring Multilam®, other end right-angled ø 4 mm safety plug. With protective caps for test connection to IC's (leg spacing 2.54 mm).

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / PVC / 100 cm |
| **Order No.** | **99.00047** |

## ø 4 mm Safety Test Leads with Test Probes (2 pcs. red / black) E4S-140

B1

Silicone



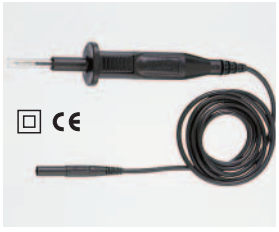
Highly flexible safety test leads. One end ø 4 mm safety test probe with spring Multilam®, other end right-angled ø 4 mm safety plug. With protective caps for test connection to IC's (leg spacing 2.54 mm).

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / Silicone / 100 cm |
| **Order No.** | **99.00050** |

## ø 4 mm Safety Test Lead with Test Probe (black) E4S-150

B3

IP2X



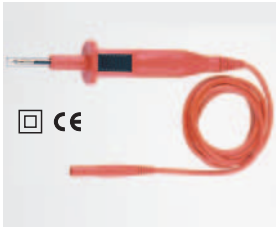
Highly flexible safety test leads. One end ø 4 mm safety test probe with spring Multilam®, other end ø 4 mm inline safety plug. The insulating sleeve over the probe tip can be pushed back at the press of a button.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / PVC / 150 cm |
| **Order No.** | **99.00053** |

## ø 4 mm Safety Test Lead with Test Probe (red) E4S-160

B3

IP2X

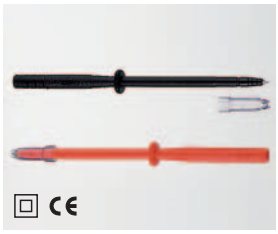


Highly flexible safety test leads. One end ø 4 mm safety test probe with spring Multilam®, other end ø 4 mm inline safety plug. The insulating sleeve over the probe tip can be pushed back at the press of a button.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 19 A |
| Lead cross-section / insulation / length | 1.0 mm² / PVC / 150 cm |
| **Order No.** | **99.00056** |

## ø 4 mm Safety Test Probes (2 pcs. red / black) E4S-170

B2

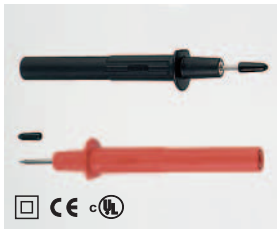


Slim, tapered rigid stainless steel probe with ø 4 mm safety socket to fit on all spring-loaded ø 4 mm plugs. Protective caps for non -slip contact with individual IC legs (spacing 2.54 mm) are supplied with the probes.

| | |
|---|---|
| Rated voltage | 1000 V, CAT III |
| Test contact | slim stainless-steel point, rigid |
| Overall length | 122 mm |
| **Order No.** | **99.00059** |

## ø 4 mm Safety Test Probes (2 pcs. red / black) E4S-180

B2

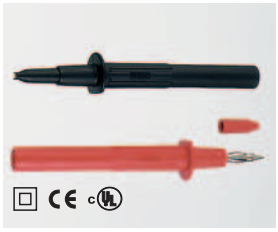


ø 2 mm stainless steel probe with ø 4 mm safety socket in handling part to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 10 A |
| Test contact | ø 2 mm stainless-steel point, rigid |
| Overall length | 115 mm |
| **Order No.** | **99.00062** |

## ø 4 mm Safety Test Probes (2 pcs. red / black) E4S-190

B2

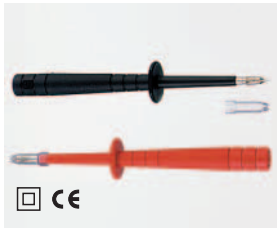


ø 4 mm test probes with spring Multilam®. ø 4 mm safety socket in handling part to fit on all spring -loaded ø 4 mm plugs. Protective caps for non-slip contact with individual IC legs (spacing 2.54 mm) are supplied with the probes.

| | |
|---|---|
| Rated voltage/ current | 1000 V, CAT III / 20 A |
| Test contact | ø 4 mm probe with spring Multilam® |
| Overall length | 115 mm |
| **Order No.** | **99.00065** |

## ø 4 mm Safety Test Probes (2 pcs. red / black) E4S-200

B2



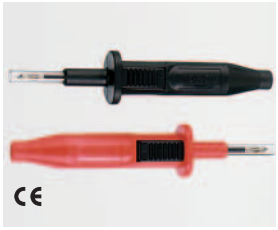
ø 4 mm test probes with spring Multilam®. ø 4 mm safety socket in handling part to fit on all spring -loaded ø 4 mm plugs. Protective caps for non-slip contact with individual IC legs (spacing 2.54 mm) are supplied with the probes.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Test contact | ø 4 mm probe with spring Multilam® |
| Overall length | 140 mm |
| **Order No.** | **99.00068** |

## ø 4 mm Safety Test Probes (2 pcs. red / black) E4S-210

B3

IP2X

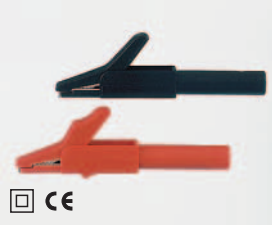


ø 4 mm test probes with spring Multilam®. The insulating sleeve over the probe tip can be pushed back at the press of a button. ø 4 mm safety socket in handling part to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Test contact | ø 4 mm probe with spring Multilam® |
| Overall length | ~ 170 mm |
| **Order No.** | **99.00071** |

## Small ø 4 mm Safety Crocodile Clips (2 pcs. red / black) E4S-220

B4

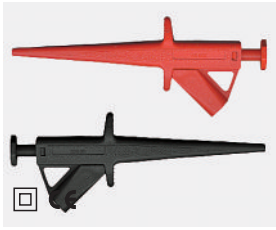


Small, slim safety test clips with all-round insulation. Toothed jaws for wide grip with surface for fine wire. ø 4 mm safety socket in insulator to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 300 V, CAT II / max. 15 A |
| Test connection | Toothed jaws with surface for fine wire |
| Clamping capacity | 11 mm |
| Overall length | 54.5 mm |
| **Order No.** | **99.00074** |

## ø 4 mm Safety Hook Clips (2 pcs. red / black) E4S-270

B2

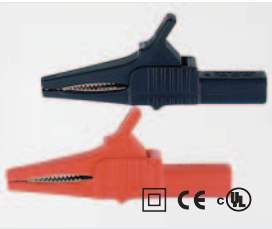


Safety test connectors with rigid hook clip for hooking onto wires. ø 4 mm safety socket in insulator to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / max. 3 A |
| Test connector | Rigid hook clip |
| Max. grip diameter | ~ 1 mm |
| Overall length | 125 mm |
| **Order No.** | **99.00089** |

## ø 4 mm Safety Crocodile Clips (2 pcs. red / black) E4S-230

B4

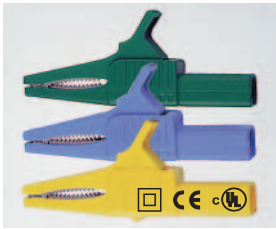


Safety test clips with all-round insulation. Toothed jaws for wide grip with surface for fine wire. ø 4 mm safety socket in insulator to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT II / max. 32 A |
| Test connection | Toothed jaws with surface for fine wire |
| Clamping capacity | 20 mm |
| Overall length | 82.2 mm |
| **Order No.** | **99.00077** |

## ø 4 mm Safety Crocodile Clips (3 pcs. blue / yellow / green) E4S-240

B4



Safety test clips with all-round insulation. Toothed jaws for wide grip with surface for fine wire. ø 4 mm safety socket in insulator to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT II / max. 32 A |
| Test connection | Toothed jaws with surface for fine wire |
| Clamping capacity | 20 mm |
| Overall length | 82.2 mm |
| **Order No.** | **99.00080** |

## ø 4 mm Safety Dolphin Clips (2 pcs. red / black) E4S-250

B4

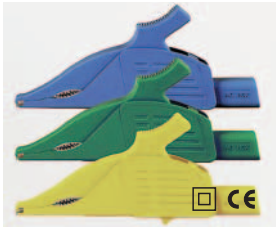


Safety dolphin clips with all-round insulation. Toothed jaws for wide grip with surface for fine wire. ø 4 mm safety socket in insulator to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / max. 32 A |
| Test connection | Toothed jaws with surface for fine wire |
| Clamping capacity | 30 mm |
| Overall length | 92 mm |
| **Order No.** | **99.00083** |

## ø 4 mm Safety Dolphin Clips (3 pcs. blue / yellow / green) E4S-260

B4

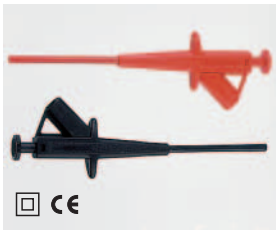


Safety dolphin clips with all-round insulation. Toothed jaws for wide grip with surface for fine wire. ø 4 mm safety socket in insulator to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / max. 32 A |
| Test connection | Toothed jaws with surface for fine wire |
| Clamping capacity | 30 mm |
| Overall length | 92 mm |
| **Order No.** | **99.00086** |

## ø 4 mm Safety Grabber Clips (2 pcs. red / black) E4S-280

B2

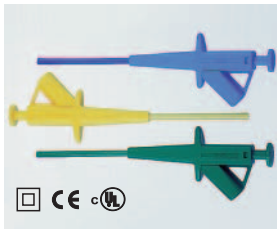


Safety test clip with spring-wire grabber in flexible, Silicone -insulated shank with very good heat resistance. Suitable for single-handed operation. ø 4 mm safety socket in handling part to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / max. 4 A |
| Test connector | Spring-wire grabber |
| Max. grip diameter | ~ 5 mm |
| Overall length | 155 mm |
| **Order No.** | **99.00092** |

## ø 4 mm Safety Grabber Clips (3 pcs. blue / yellow / green) E4S-290

B1

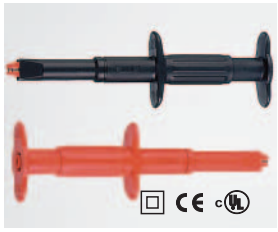


Safety test clip with spring-wire grabber in flexible, Silicone -insulated shank with very good heat resistance. Suitable for single-handed operation. ø 4 mm safety socket in handling part to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / max. 4 A |
| Test connector | Spring-wire grabber |
| Max. grip diameter | ~ 5 mm |
| Overall length | 155 mm |
| **Order No.** | **99.00095** |

## ø 4 mm Safety Jaw Clips (2 pcs. red / black) E4S-300

B2

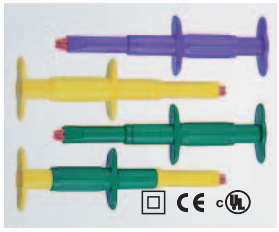


Safety test clip with strong jaws insulated on the outside. ø 4 mm safety socket in insulator to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / max. 16 A |
| Test connector | Strong jaws |
| Clamping capacity | 20 mm |
| Overall length | 131 mm |
| **Order No.** | **99.00098** |

## ø 4 mm Safety Jaw Clips (4 pcs. yellow / green / violet / green-yellow) E4S-310

B1

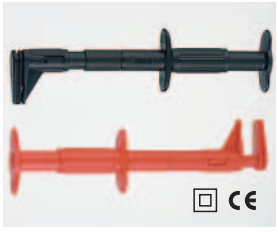


Safety test clip with strong jaws insulated on the outside. ø 4 mm safety socket in insulator to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / max. 16 A |
| Test connector | Strong jaws |
| Clamping capacity | 20 mm |
| Overall length | 131 mm |
| **Order No.** | **99.00101** |

## ø 4 mm Safety Flat Test Clips (2 pcs. red / black) E4S-320

B1

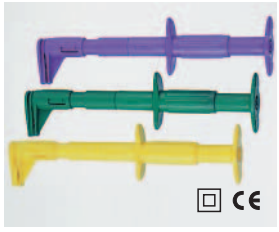


Safety flat test clip for making quick, sure contact in voltage measurements. With adjustable stop. Inline test connection via ø 4 mm safety socket to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage/ current | 600 V, CAT III / 5 A |
| Test connector | 0 ... 30 mm |
| Overall length | 152 mm |
| **Order No.** | **99.00104** |

## ø 4 mm Safety Flat Test Clips (3 pcs. yellow / green / violet) E4S-330

B1



Safety flat test clip for making quick, sure contact in voltage measurements. With adjustable stop. Inline test connection via ø 4 mm safety socket to fit on all spring-loaded ø 4 mm plugs.

| | |
|---|---|
| Rated voltage/ current | 600 V, CAT III / 5 A |
| Test connector | 0 ... 30 mm |
| Overall length | 152 mm |
| **Order No.** | **99.00107** |

## Stackable ø 4 mm Safety Plugs (4 pcs. red / black) E4S-340

B4



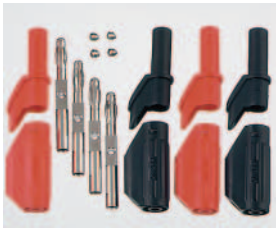
**Solder connection**

ø 4 mm safety plug with solder connection for connecting flexible leads. ø 4 mm socket at rear permits insertion of further ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Max. conductor cross-section / outside diameter | 2.5 mm² / 3.9 mm |
| **Order No.** | **99.00110** |

## tackable ø 4 mm Safety Plugs (4 pcs. red / black) E4S-350

B4



**Screw connection**

ø 4 mm safety plug with screw connection for connecting flexible leads. ø 4 mm socket at rear permits insertion of further ø 4 mm plugs.

| | |
|---|---|
| Rated voltage / current | 600 V, CAT II / max. 32 A |
| Max. conductor cross-section / outside diameter | 2.5 mm² / 4.0 mm |
| **Order No.** | **99.00113** |

## ø 4 mm Inline Safety Plugs (4 pcs. red / black) E4S-360

B4



**Screw connection**

ø 4 mm safety plug with screw connection for connecting flexible leads.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT II / max. 20 A |
| Max. conductor cross-section / outside diameter | 2.5 mm² / 3.9 mm |
| **Order No.** | **99.00116** |

## Our Range of Multistrand Wires




Are you interested in our extensive range of highly flexible multi-strand wires with insulation of PVC, Silicone, TEP, Teflon® -FEP etc.?

Then order our **Catalogue Ho14 / Lilei !**

## ø 4 mm Safety Universal Mounting Sockets with Screw Connection (4 pcs. red / black) E4S-430

B4



Touch-protected ø 4 mm safety sockets for installation in holes drilled in panels or casings in plastic, metal etc. Mounting by pressing-in or screw fitting, flush or raised.

| | |
|---|---|
| Rated voltage<br>- press-in / flush mounting<br>- raised mounting | <br>1000 V, CAT II<br>600 V, CAT II |
| Rated current | 20 A |
| Connection | M4 screw thread |
| **Order No.** | **99.00137** |

## ø 4 mm Safety Panel-mounting Sockets with Flat Connecting Tab (assortment, 10 pcs.) E4S-370

B4



Touch-protected, screw-fitting ø 4 mm safety panel sockets. Mounting of sockets in holes drilled in panels or casings of plastic, metal etc.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT II / 20 A |
| Connection | Flat connecting tab 4.8 x 0.8 mm |
| **Order No.** | **99.00119** |

## ø 4 mm Safety Panel-mounting Sockets with Screw Connection (assortment, 12 pcs.) E4S-380

B4

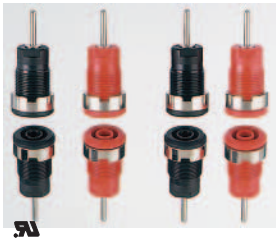


Touch-protected ø 4 mm safety screw-in sockets for mounting in holes drilled in panels or casings of plastic, metal etc.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Connection | M4 screw thread |
| **Order No.** | **99.00122** |

## ø 4 mm Safety Panel-mounting Sockets with Round-pin Connection (8 pcs. red / black) E4S-390

B4



Touch-protected ø 4 mm safety screw-in sockets for mounting in holes drilled in panels or casings of plastic, metal etc.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 24 A |
| Connection | ø 1.9 mm round pin |
| **Order No.** | **99.00125** |

## ø 4 mm Safety Panel-mounting Sockets with Screw Connection (4 pcs. red / black) E4S-400

B4



gold-plated

Touch-protected ø 4 mm safety screw-in sockets for mounting in holes drilled in panels or casings of plastic, metal etc.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Connection | M4 screw thread (gold-plated) |
| **Order No.** | **99.00128** |

## ø 4 mm Safety Panel-mounting Sockets with Screw Connection (6 pcs. yellow / green / violet) E4S-410

B4



gold-plated

Touch-protected ø 4 mm safety screw-in sockets for mounting in holes drilled in panels or casings of plastic, metal etc.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 32 A |
| Connection | M4 screw thread (gold-plated) |
| **Order No.** | **99.00131** |

## ø 4 mm Safety Bridging Sockets (4 pcs. red / black) E4S-420

B4

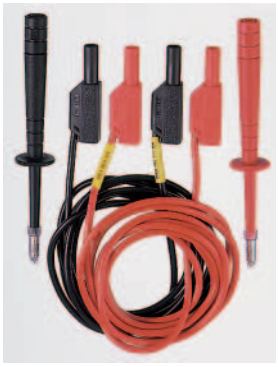


Touch-protected ø 4 mm safety screw-in sockets for mounting in holes drilled in panels or casings of plastic, metal etc.
Bridging function effected by insertion of a plug.

| | |
|---|---|
| Rated voltage / current | 1000 V, CAT III / 20 A |
| Connection | 2x Flat connecting tab 4.8 x 0.8 mm |
| **Order No.** | **99.00134** |

## ø 4 mm Safety Test Lead Set with Accessories (4-piece) Z4S-050

B1



Silicone

CE

Test lead set, consisting of:

- ø 4 mm safety test leads with stackable plugs, Silicone insulated, 200 cm, 2.5 mm$^2$, max. 32 A
- Push-on safety test probes with spring Multilam® and with protective cap for contact with individual IC legs (spacing 2.54 mm)

| Rated voltage | 1000 V, CAT III |
|---|---|
| **Order No.** | **99.00188** |

## ø 4 mm Safety Test Lead Set "Electrical 1" (8-piece) Z4S-150

B1



Silicone

Test lead set, consisting of:

- ø 4 mm safety test leads, Silicone insulated, 100 cm long, 1.0 mm$^2$, 19 A
- Push-on safety crocodile clips with all-round insulation and strong jaws with surface for fine wire
- Safety cable lug adapter
- Push-on safety test probes, stainless steel, rigid, max. 10 A

| Rated voltage | 1000 V, CAT II |
|---|---|
| **Order No.** | **99.00194** |

## ø 4 mm Safety Test Lead Set "Automotive" (8-piece) Z4S-100

B1



Silicone

Test lead set, consisting of:

- ø 4 mm safety test leads, Silicone insulated, 100 cm long, 1.0 mm$^2$, 19 A
- Push-on safety crocodile clips with all-round insulation and strong jaws with surface for fine wire
- Push-on safety test probes, stainless steel, rigid, with protective cap for contact with individual IC legs (spacing 2.54 mm)
- Push-on safety test clips with strong jaws insulated on the outside, max. 16 A

| Rated voltage | 1000 V, CAT II |
|---|---|
| **Order No.** | **99.00191** |

## ø 4 mm Safety Test Lead Set "Electrical 2" (8-piece) Z4S-200

B1

Silicone



Test lead set, consisting of:

- ø 4 mm safety test leads, Silicone insulated, 100 cm long, 1.0 mm$^2$, 19 A
- Push-on safety crocodile clips with all-round insulation and strong jaws with surface for fine wire
- Safety cable lug adapter
- Push-on safety test probes with spring Multilam® and protective cap for contact with individual IC legs (spacing 2.54 mm)

| Rated voltage | 1000 V, CAT II |
|---|---|
| **Order No.** | **99.00197** |

## ø 4 mm Safety Test Lead Set "Electronics" (10-piece) Z4S-300

B1

Silicone



Test lead set, consisting of:

- ø 4 mm safety test leads , Silicone insulated, 100 cm, 0.75 mm$^2$, max. 15 A
- Push-on safety hook clips, max. 3 A
- Push-on safety grabber clips, max. 1 A
- Push-on safety probes, stainless steel, spring-loaded
- Push-on safety crocodile clips with strong jaws with surface for fine wire, max. 300 V, CAT II

| Rated voltage | max. 1000 V, CAT II |
|---|---|
| **Order No.** | **99.00203** |

## ø 4 mm Safety Test Lead Set "Universal" (8-piece) Z4S-250

B1

Silicone



Test lead set, consisting of:

- ø 4 mm safety test leads with stainless steel probe with thread for screwing-on accessories, Silicone insulated, 100 cm, 0.75 mm$^2$, max. 15 A
- Screw-on safety hook clips, max. 30 $V_{AC}$ / 60 $V_{DC}$, 3 A
- Screw-on safety crocodile clips with surface for fine wire, 10 A
- Screw-on cable lugs, max. 30 $V_{AC}$ / 60 $V_{DC}$

| Rated voltage | max. 600 V, CAT II |
|---|---|
| **Order No.** | **99.00200** |

## ø 4 mm Safety Test Lead Set "Electrical 3" (6-piece) Z4S-350

B1



Silicone

Test lead set, consisting of:

- ø 4 mm safety test leads, Silicone insulated, 100 cm long, 1.0 mm$^2$, 19 A
- Push-on safety test clips with strong jaws insulated on the outside, max. 16 A
- Push-on safety test probes, stainless steel, rigid, max. 10 A

| | |
|---|---|
| Rated voltage | 1000 V, CAT III |
| **Order No.** | **99.00206** |

## ø 4 mm Safety Test Lead Set "Electrical 4" (6-piece) Z4S-400

B1



Silicone

Test lead set, consisting of:

- ø 4 mm safety test leads, Silicone insulated, 100 cm long, 1.0 mm$^2$, 19 A
- Push-on safety test clips with strong jaws insulated on the outside, max. 16 A
- Push-on safety test probes with spring Multilam® and protective cap for contact with individual IC legs (spacing 2.54 mm)

| | |
|---|---|
| Rated voltage | 1000 V, CAT III |
| **Order No.** | **99.00209** |

## ø 4 mm Safety Test Lead Set "Electrical 5" (6-piece) Z4S-500

B1



Silicone

Test lead set, consisting of:

- ø 4 mm safety test leads, Silicone insulated, 150 cm long, 1.0 mm$^2$, 19 A
- Push-on safety test probes with spring Multilam® and transparent protective sleeve (protection class IP2X)
- Push-on safety dolphin clips with all-round insulation. Toothed jaws with surface for fine wire

| | |
|---|---|
| Rated voltage | 1000 V, CAT III |
| **Order No.** | **99.00212** |

## BNC / ø 4 mm Safety Adapter (2 pcs. black-red) EHF-025

B4



**BNC - ø4 mm**

Fully insulated adapters.
One side BNC plug, other side two ø 4 mm safety sockets (red socket: BNC internal conductor; black socket: shield).

| | |
|---|---|
| Rated voltage<br>- Shield / earth<br>- Inner conductor / shield | <br>1000 V, CAT II<br>500 V, CAT II |
| **Order No.** | **99.00140** |

## BNC / ø 4 mm Safety Adapter (2 pcs. black-red) EHF-275

B4



**BNC - ø4 mm**

Fully insulated adapters.
One side BNC socket, other side two ø 4 mm safety plugs (red plug: BNC internal conductor; black plug: shield).

| | |
|---|---|
| Rated voltage<br>- Shield / earth<br>- Inner conductor / shield | <br>1000 V, CAT II<br>500 V, CAT II |
| **Order No.** | **99.00215** |

## Safety BNC Signal Distributors (2 pcs. black) EHF-050

B4



**BNC - BNC**

Fully insulated signal distributor with one BNC plug and two BNC sockets. All inner conductors and all shields are interconnected.

| | |
|---|---|
| Rated voltage<br>- Shield / earth<br>- Inner conductor / shield | <br>1000 V, CAT II<br>500 V, CAT II |
| **Order No.** | **99.00143** |

## Fully Insulated BNC Panel Sockets (4 pcs. red / black) EHF-075

B4



**Solder connection**

Fully insulated safety sockets to mate with BNC plugs. Mounting of sockets in holes drilled in panels or casings of plastic, metal etc.

| | |
|---|---|
| Bemessungs-spannung | Shield / earth: 1000 V, CAT II<br>Inner conductor / shield: 1000 V, CAT II |
| Connection | Inner conductor: round soldering pin<br>Shield: soldering tag |
| **Order No.** | **99.00146** |

## Fully Insulated BNC Panel Sockets (4 pcs. red / black) EHF-100

B4



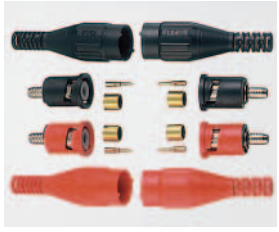
**Printed circuit connection**

Fully insulated safety sockets to mate with BNC plugs. Mounting of sockets in holes drilled in panels or casings of plastic, metal etc.

| | |
|---|---|
| Rated voltage | Shield / earth: 1000 V, CAT II<br>Inner conductor / shield: 1000 V, CAT II |
| Connection | One connecting wire each for inner conductor and shield (length 30 mm, ø 0.8 mm) |
| **Order No.** | **99.00149** |

## Fully Insulated BNC Plugs (4 pcs. red / black) EHF-125

B4

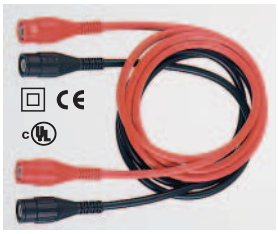


Fully insulated BNC plugs for connecting RG58 cables

| | |
|---|---|
| Rated voltage | 1000 V, CAT II |
| **Order No.** | **99.00152** |

## Fully Insulated BNC Connecting Leads (2 pcs. red / black) EHF-150

B1



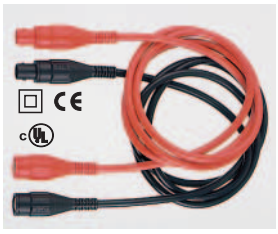
BNC - BNC

BNC connecting leads. With fully insulated BNC plugs at both ends.

| | |
|---|---|
| Rated voltage | 1000 V, CAT II |
| Impedance | 50 Ω |
| Lead length | 100 cm |
| **Order No.** | **99.00155** |

## Fully Insulated BNC Extension Leads (2 pcs. red / black) EHF-175

B1



BNC - BNC

BNC extension leads. One end fully insulated BNC plug, other end fully insulated BNC socket.

| | |
|---|---|
| Rated voltage | 1000 V, CAT II |
| Impedance | 50 Ω |
| Lead length | 100 cm |
| **Order No.** | **99.00158** |

## Fully Insulated Adapter Lead BNC / ø 4 mm EHF-200

B1



BNC - ø4 mm

Adapter lead. One end fully insulated BNC plug, other end stackable ø 4 mm safety plugs. (red plug: BNC internal conductor; black plug: shield).

| | |
|---|---|
| Rated voltage | 600 V, CAT II |
| Lead | Coax lead, PVC insulated (160 cm) |
| **Order No.** | **99.00161** |

## Fully Insulated Adapter Lead BNC / ø 4 mm EHF-250

B1



BNC - ø4 mm

Adapter lead. One end fully insulated BNC plug, other end inline ø 4 mm safety plugs. (red plug: BNC internal conductor; black plug: shield).

| | |
|---|---|
| Rated voltage | 1000 V, CAT II |
| Lead | Coax lead, PVC insulated (160 cm) |
| **Order No.** | **99.00167** |

## Safety Probe Set “Demodulator” (2-piece) ZHF-300



Demodulator

Probe set, comprising:

- Fully insulated high-frequency probe Isoprobe® II- DEM - 4 with highly flexible coaxial cable with ø 4 mm safety plugs. (red plug: BNC internal conductor; black plug: shield). ø 2 mm safety socket for reference connection in handling part.
- Reference lead with crocodile clip (10 cm, 600 V, CAT III)

| | |
|---|---|
| Rated voltage of probe: | |
| - Shield / earth | 1000 V, CAT II |
| - Probe tip / shield | 250 $V_{DC}$ |
| - max. HF voltage | 50 $V_{PP}$ |
| Frequency range | 100 kHz ... 1000 MHz |
| **Order No.** | **99.00176** |

## Safety Probe Set “Electronics” (4-piece) ZHF-100

B3



10 : 1
450 MHz

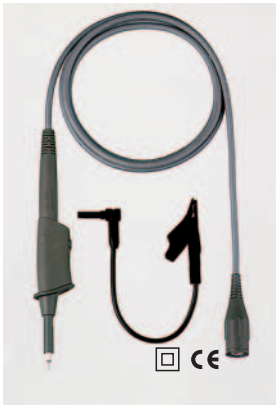
Probe set, comprising:

- Fully insulated high-frequency probe Isoprobe® II- 10:1 - 450 with highly flexible coaxial cable with BNC plug. Compensation adjusting screw and ø 2 mm safety socket for reference connection in handling part.
- Reference lead with crocodile clip (10 cm, 600 V, CAT III)
- Push-on hook clip with additional reference lead (600 V, CAT II)
- Push-on BNC plug (500 V, CAT II)

| | |
|---|---|
| Rated voltage of probe:<br>- Shield / earth<br>- Probe tip / shield | 1000 V, CAT II<br>max. 1000 $V_{AC/DC}$<br>(frequency-dependent) |
| Dividing ratio | 10 : 1 |
| Frequency range | DC up to 450 MHz |
| **Order No.** | **99.00170** |

## Safety Probe Set “Economy” (2-piece) ZHF-400

B3



10 : 1
150 MHz

Probe set, comprising:

- Fully insulated high-frequency probe Isoprobe® II- 10:1 - 150 with highly flexible coaxial cable with BNC plug. Compensation adjusting screw and ø 2 mm safety socket for reference connection in handling part.
- Reference lead with crocodile clip (10 cm, 600 V, CAT III)

| | |
|---|---|
| Rated voltage of probe:<br>- Shield / earth<br>- Probe tip / shield | 1000 V, CAT II<br>max. 400 $V_{AC/DC}$<br>(frequency-dependent) |
| Dividing ratio | 10 : 1 |
| Frequency range | DC up to 150 MHz |
| **Order No.** | **99.00224** |

## Safety Probe Set “Electrical” (5-piece) ZHF-200

B3



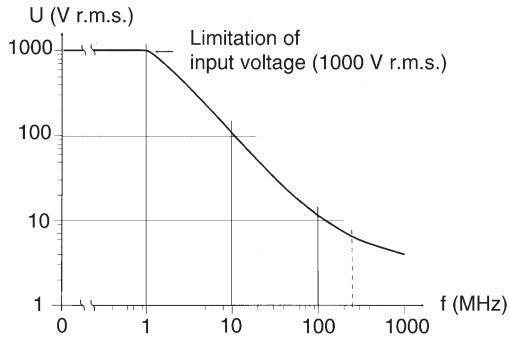
10 : 1
250 MHz

Probe set, comprising:

- Fully insulated high-frequency probe Isoprobe® II- 10:1 - 250 with highly flexible coaxial cable with BNC plug. Compensation adjusting screw and ø 2 mm safety socket for reference connection in handling part.
- Reference lead with crocodile clip (10 cm, 600 V, CAT III)
- Push-on ø 4 mm test probe with spring Multilam® (1000 V, CAT II)
- Push-on hook clip (1000 V, CAT II)
- Push-on jaw clip (1000 V, CAT II)

| | |
|---|---|
| Rated voltage of probe:<br>- Shield / earth<br>- Probe tip / shield | 1000 V, CAT II<br>max. 1000 $V_{AC/DC}$<br>(frequency-dependent) |
| Dividing ratio | 10 : 1 |
| Frequency range | DC up to 250 MHz |
| **Order No.** | **99.00173** |

## Technical Information




**The rated voltage of the 10:1 probe dividers is frequency-dependent.**

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