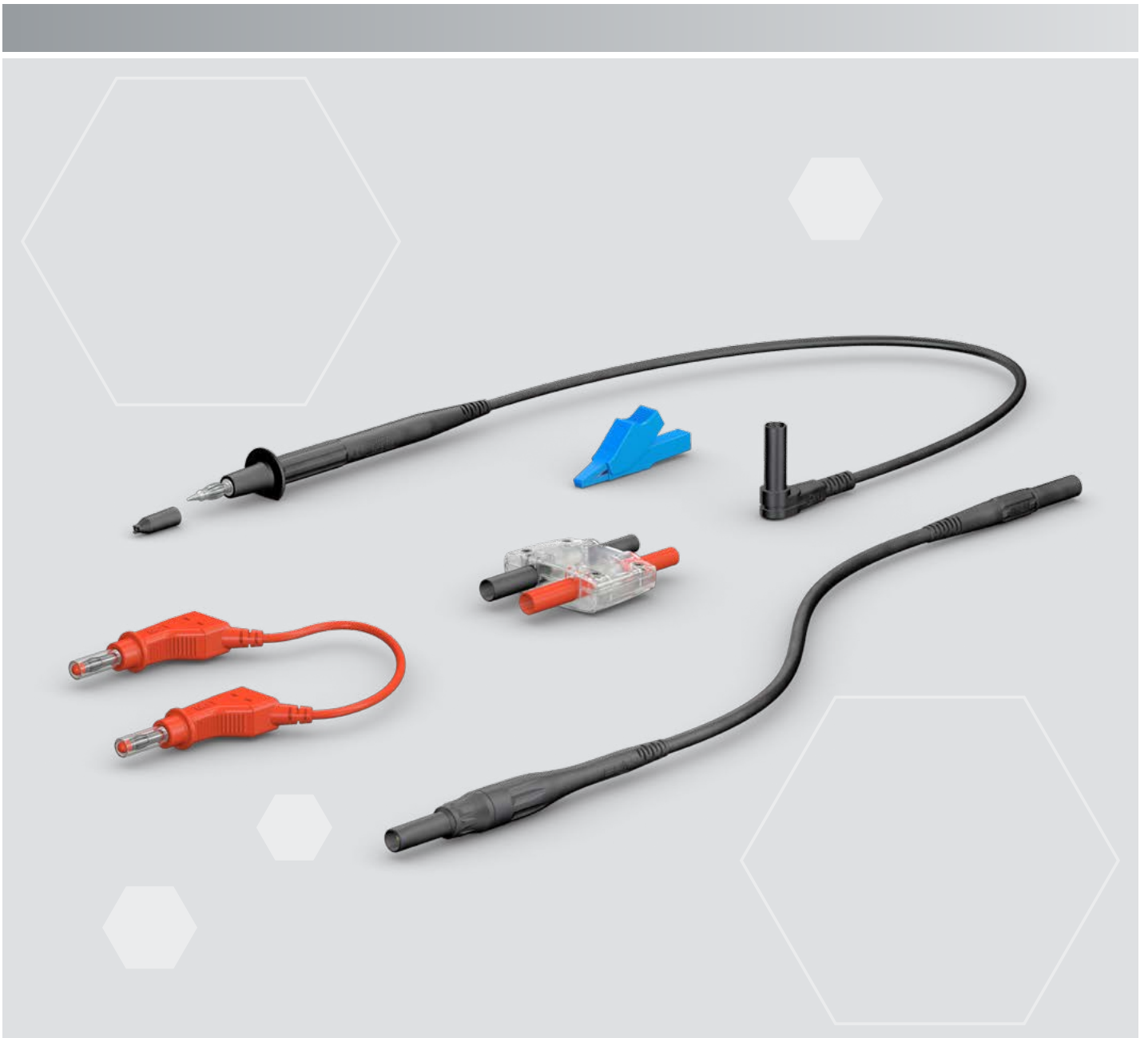


Test Accessories Touch-Protected

Test & Measureline | Test & Measurement



STÄUBLI ELECTRICAL CONNECTORS

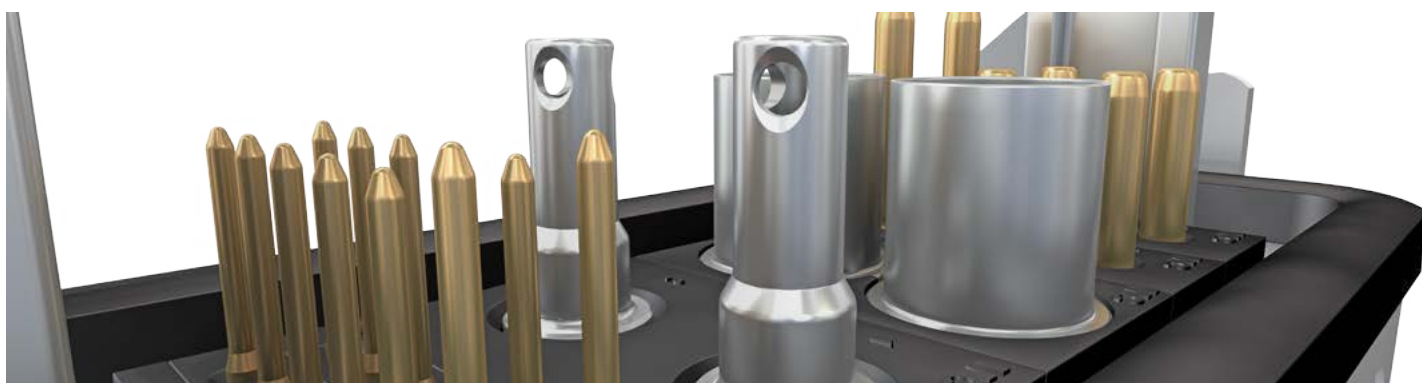
Long-term solutions – Expert connections



Stäubli Electrical Connectors is a leading international manufacturer of high-quality electrical connector systems. We are part of the Stäubli Group which offers mechatronics solutions for electrical connectors, liquid and gas couplings, robots and textile machinery.

Stäubli develops, produces, sells and maintains products for markets with high productivity standards. As recognized specialists, our focus is always on solutions and customers. Many new developments got their start here and have begun to make their way around the world.

Businesses and customers count on our commitment and our active support when dealing with unusual problems. With us, you are entering into a long-term partnership built on reliability, dynamism, and exceptional quality in both products and services.



Applications and advantages



This catalog presents our wide range of touch-protected testing accessories in accordance with IEC/EN 61010-031. Alongside accessories for service tech-

nicians in repair workshops, etc. (CAT II), this catalog also includes testing accessories for electricians and power company employees (CAT III and CAT IV) as well

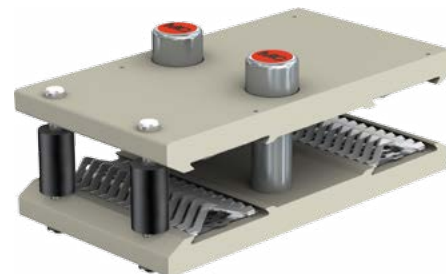
as secure connection sockets for testing and measurement equipment in accordance with IEC/EN 61010.

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| Page 9 | <p>Ø 2 mm system</p> <ul style="list-style-type: none"> ▪ Ø 2 mm Test Leads ▪ Ø 2 mm Plugs and Sockets ▪ Ø 2 mm Test Probes and Test Clips, Test Clip Leads ▪ Ø 2 mm Connecting Plug ▪ Ø 2 mm / BNC Adapter Lead | Page 103 | <p>Assembly Material and Accessories</p> <ul style="list-style-type: none"> ▪ Hexagonal Nuts ▪ Round Nuts ▪ Washers ▪ Spring Washers ▪ Protective Caps ▪ Safety Hood ▪ Spacer Sleeves ▪ Flat Connecting Receptacles ▪ Tube Spanners ▪ Hexagonal Wrenches ▪ Press-in Tools ▪ Insulation Stripping Pincers ▪ Crimping Pliers ▪ High breaking capacity fuse ▪ Test Lead Holders |
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UNLIMITED POSSIBILITIES FOR CONTACT SOLUTIONS

MULTILAM Technology



MULTILAM are specially formed and resilient contact elements. All Stäubli Electrical Connectors products benefit from the unique and outstanding performance of the **MULTILAM** Technology.

Thanks to their constant spring pressure, MULTILAM louvers ensure continuous contact with the contact surface, resulting in a constantly low contact resistance.

MULTILAM Technology allows to find solutions for connectors within the severest constraints and in certain products for up to 1 million mating cycles.

This makes the MULTILAM Technology the best choice for applications with demanding requirements:

- Reliable and longlife operation due to constantly high performance
- Safe operation under highest environmental demands on temperature, vibration and shock
- Suitable for data and signal contacts as well as high-current connectors
- Automated solutions with a high number of mating cycles



General Information

Length and color code

For items that are available in more than one color or lead length, write the desired lengths and color codes after the order number instead of the spaces and * used in the catalog.

| | | | |
|----|--------------|----|-------------|
| 20 | green-yellow | 26 | violet |
| 21 | black | 27 | brown |
| 22 | red | 28 | grey |
| 23 | blue | 29 | white |
| 24 | yellow | 33 | transparent |
| 25 | green | | |

Lead length

The lead length of all standard leads in this catalog refers to the visible length of the cable.

Standard items/special items

The length and color combinations listed in the catalog are available as standard items. Other length and/or color combinations that are not listed in the catalog are available on request. We are happy to provide you with more information regarding the price, delivery times and, where applicable, minimum order quantities for our special items on request.

Changes/provisos

All data, illustrations, and drawings in the catalog have been carefully checked. They are in accordance with our experience to date, but no responsibility can be accepted for errors. We also reserve the right to make modifications for design and safety reasons. When designing equipment incorporating our components, it is therefore advisable not to rely solely on the data in the catalog but to consult us to make sure this information is up to date. We shall be pleased to advise you.

Copyright

The use of this catalog for any other purpose, in whatever form, without our prior written consent is not permitted.

RoHS ready

Directive 2011/65/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Surfaces

| | |
|-----|---------------|
| Au | Gold-plated |
| Ni | Nickel-plated |
| Ag | Silver-plated |
| Sn | Tin-plated |
| PVC | PVC |
| SIL | Silicone |
| TPE | TPE |

Symbols



Accessories or special tools exist for this product.



Before use, please read the enclosed rating sheet RZ000.



The assembly instruction MA000 is available for this product.

Portfolio overhaul

Stäubli has to carry out an overhaul of its portfolio. If you cannot find the items you are looking for in this catalog, please refer to pages

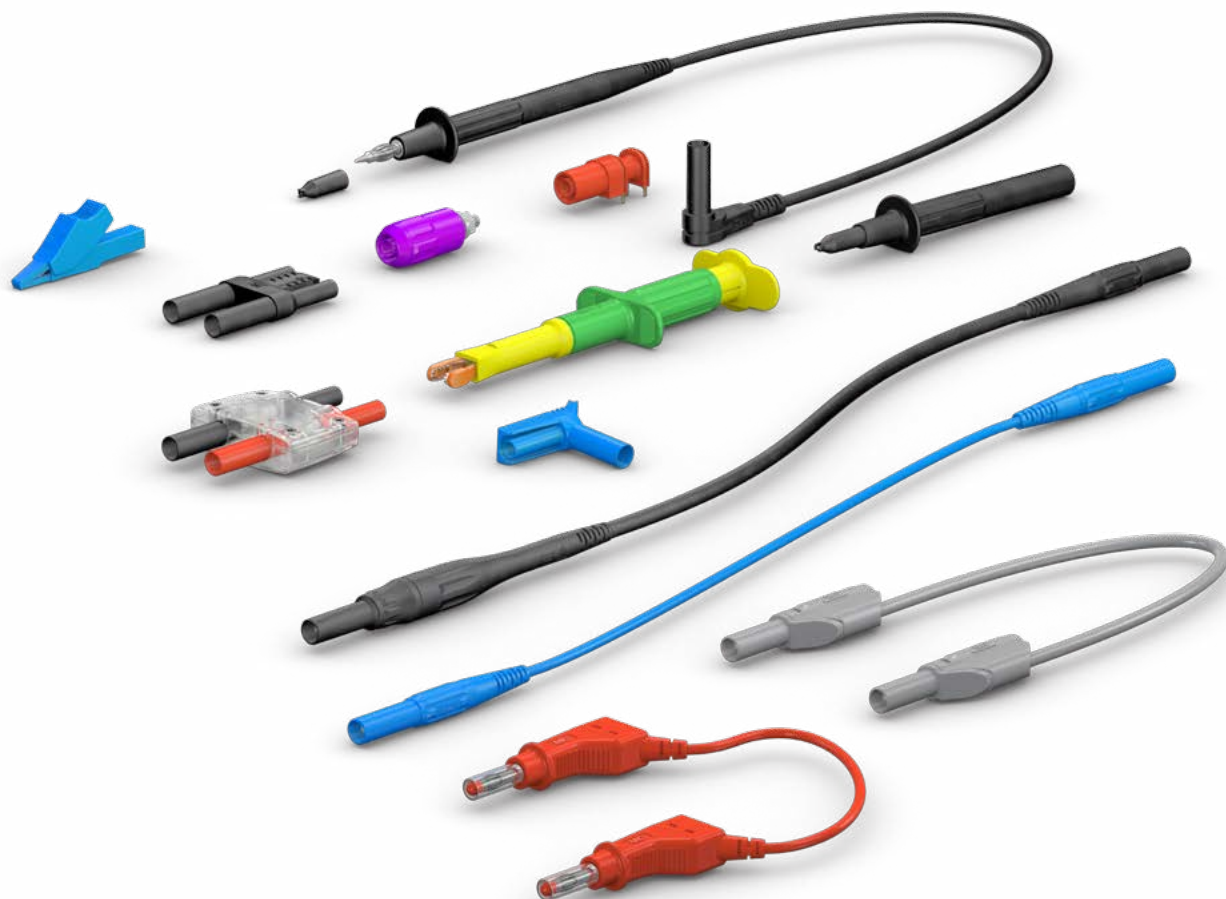
113 – 117 where you will find a comprehensive list of all items affected by this overhaul. Wherever possible, an alternative is listed next to the affected item.

In case of any questions please contact our field sales team.

Our Special-area Catalogs

To provide the various target groups with an overview of the accessories adapted to their specific needs, we have divided the range

into a number of specialized catalogs in line with the measurement categories of IEC/EN 61010-031.



Measurement Categories according to IEC/EN 61010-031:2008

To facilitate the assignment of test accessories to the appropriate applications, standard IEC/EN 61010-031 has established a number of categories which define where they can be used in the power supply network and to lay down appropriate requirements for each category.

Formerly (until 2002), the measurement categories now defined in standard IEC/EN 61010-031 were designated as overvoltage categories. This term origi-

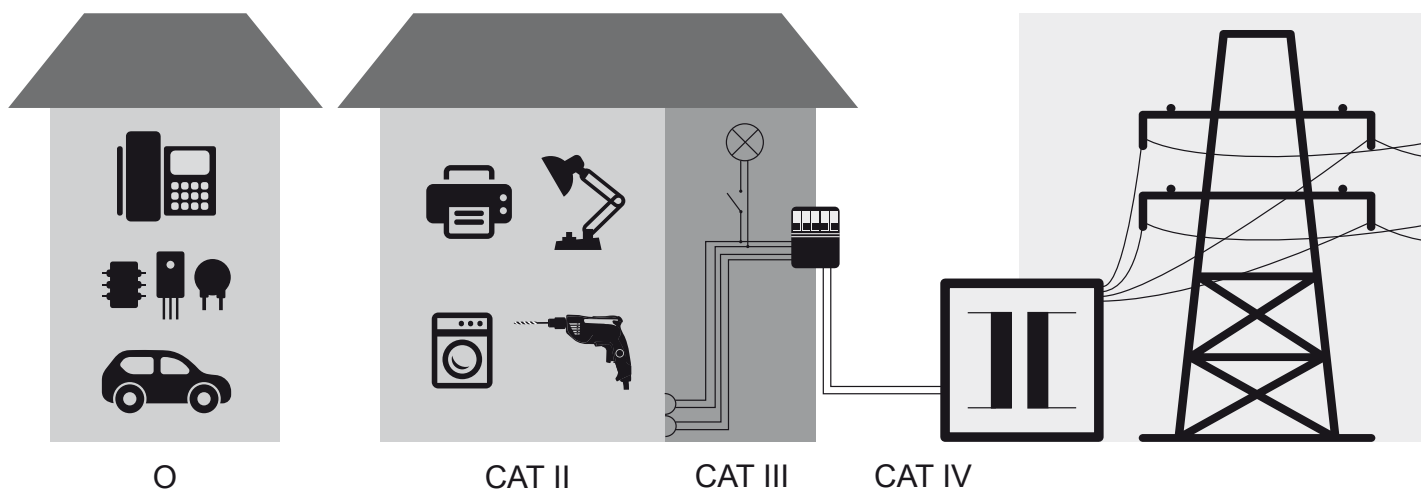
nated from the fact that the classification was based primarily upon the overvoltages (surges) that were likely to occur in the power grid.

Actually the measurement categories differ not so much in the level of the expected transient values as with regard to the available energy in each test category in the event of a short circuit.

In a higher measurement category more energy can be released than in a lower one,

with results that may even have an explosive-like character with very serious consequences for the user.

In standard EN 61010-031 there are four different test categories, abbreviated "CAT". The category CAT followed by a number from I to IV is stated in our catalogs with the rated voltage, and also marked on the products. As a general rule, the higher the CAT rating, the higher the safety requirement that applies to the product.



O Other circuits that are not directly connected to mains.

CAT II applies to measurements on equipment that is connected to the grid or supplied from the grid without constituting a part of the grid installation.

CAT III applies to measurements inside the house or building installation.

CAT IV applies to measurements at the supply source of the installation (input side).

Ø 2 MM SYSTEM

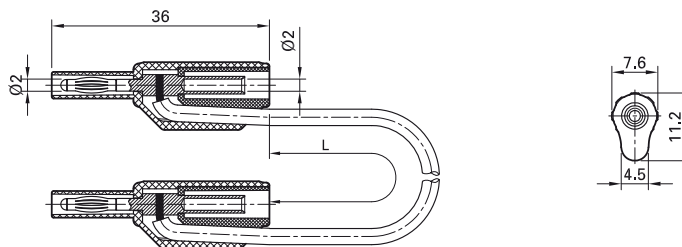
Ø 2 mm Test Leads

Test Lead SLK205-K...

Highly flexible, with insulation in PVC or silicone with assembled stackable Ø 2 mm

MULTILAM plugs with rigid insulating sleeve on both ends.

SLK205-K...

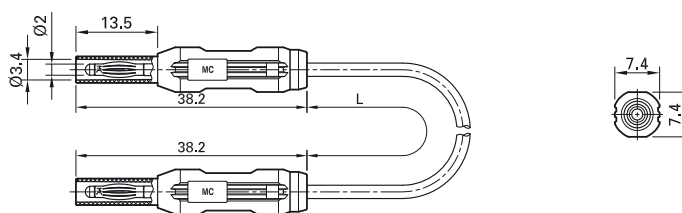


| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|--------------|-----------------------|-------------------------|---------------|-----------------------------------|-----------------------|
| 65.9179-□* | SLK205-K | 600 V, CAT II / 10 A | PVC 0,5 mm ² | Au CE c UL US | 030 060 100 | 21 22 23 |
| 65.9180-□* | SLK205-K/SIL | 600 V, CAT II / 10 A | SIL 0,5 mm ² | Au CE c UL US | 100 | 21 22 23 |

Test Lead SLK205-LA

Highly flexible, with insulation in PVC with assembled in-line Ø 2 mm MULTILAM plugs with rigid insulating sleeve on both ends.

SLK205-LA



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|-----------|-----------------------|-------------------------|-------|-----------------------------------|-----------------------|
| 65.3307-□* | SLK205-LA | 600 V, CAT II / 10 A | PVC 0,5 mm ² | Au CE | 100 | 21 22 23 |

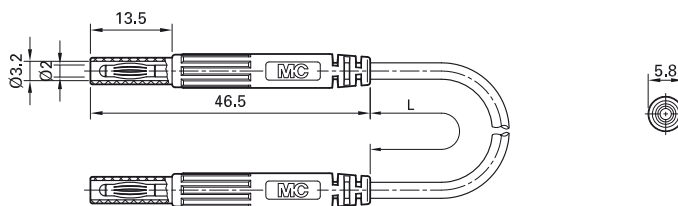
¹⁾ Other color and/or length combinations available on request.

Test Lead SLK205-L...

Highly flexible, with insulation in PVC or silicone with molded in-line Ø 2 mm MULTILAM

plugs with rigid insulating sleeve on both ends.

SLK205-L...



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|--------------|-----------------------|-------------------------|---------------|-----------------------------------|-----------------------|
| 65.9173-□* | SLK205-L | 600 V, CAT III / 10 A | PVC 0,5 mm ² | Au CE c UL US | 100 | 21 22 |
| 65.9174-□* | SLK205-L/SIL | 600 V, CAT III / 10 A | SIL 0,5 mm ² | Au CE c UL US | 100 | 21 22 |

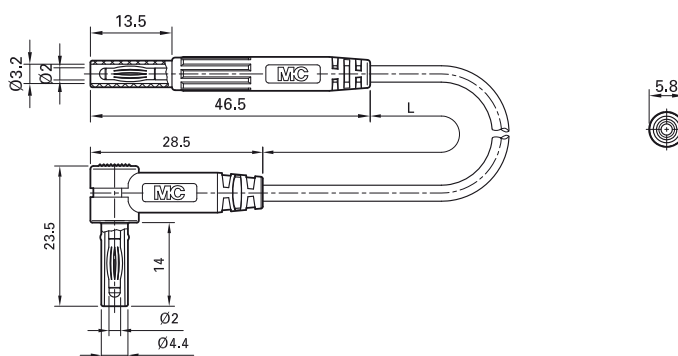
Test Lead SLK205-W/L...

Highly flexible, with insulation in PVC or silicone. One end with molded in-line Ø 2 mm

MULTILAM plug with rigid insulating sleeve. The other end with molded right-angled

Ø 2 mm MULTILAM plug with rigid insulating sleeve.

SLK205-W/L...



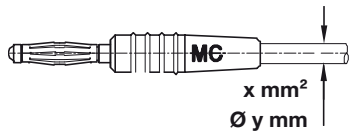
| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|----------------|-----------------------|-------------------------|-------|-----------------------------------|-----------------------|
| 65.9577-□* | SLK205-W/L | 600 V, CAT III / 10 A | PVC 0,5 mm ² | Au CE | 100 | 21 22 |
| 65.9578-□* | SLK205-W/L/SIL | 600 V, CAT III / 10 A | SIL 0,5 mm ² | Au CE | 100 | 21 22 |

¹⁾ Other color and/or length combinations available on request.

Ø 2 mm Plugs and Sockets

This section contains plugs and sockets for self-assembled test leads. The information about each item includes details regarding connectable conductor

cross-sections and diameters, as well as regarding the available assembly instructions.



In the production of our test leads we use only high-quality multi-stranded cables of our own production. If you are interested

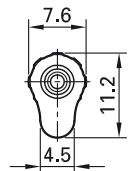
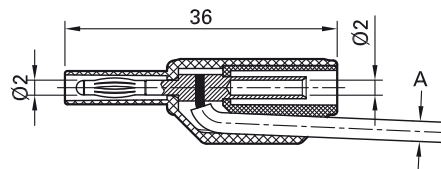
in our full range of stranded cables, please order the main catalog "Cables and Multistrand Wires".

Plug SL205-K

Stackable, Ø 2 mm, with spring-loaded MULTILAM, for self-assembly of test leads.

With rigid insulating sleeve. **Solder connection.**

SL205-K



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors ¹⁾ | | | | | |
|-----------|----------|-----------------------|---|-----|-----------------------|---------------------|-----|----------|----|-------------|
| 65.9182-* | SL205-K | 600 V, CAT II / 10 A | <table border="1"> <tr> <td>PVC</td> <td>Ø 2,3 mm</td> <td rowspan="2">0,5 mm²</td> </tr> <tr> <td>SIL</td> <td>Ø 2,7 mm</td> </tr> </table> | PVC | Ø 2,3 mm | 0,5 mm ² | SIL | Ø 2,7 mm | Au | 21 22 23 24 |
| PVC | Ø 2,3 mm | 0,5 mm ² | | | | | | | | |
| SIL | Ø 2,7 mm | | | | | | | | | |

¹⁾ Other colors available on request.



Assembly instructions MAH500

www.staubli.com/electrical

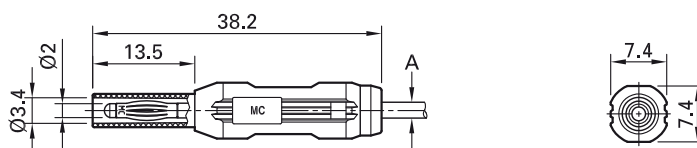
Plug SL205-LA

In-line, Ø 2 mm, with spring-loaded MULTILAM, for self-assembly of test leads.

With rigid insulating sleeve.

Crimp or solder connection.

SL205-LA



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors ¹⁾ |
|-----------|----------|-----------------------|-----------------------------------|----|-----------------------|
| 65.3309-* | SL205-LA | 600 V, CAT II / 10 A | max. Ø 2,7 mm 0,5 mm ² | Au | 21 22 23 24 25 |

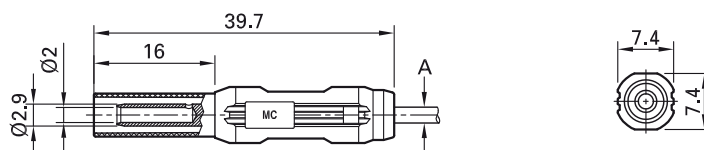
Socket SL205-BA

In-line, rigid, accepting spring-loaded Ø 2 mm plugs with rigid insulating sleeve,

for self-assembly of test leads.

Crimp or solder connection.

SL205-BA



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors ¹⁾ |
|-----------|----------|-----------------------|-----------------------------------|----|-----------------------|
| 65.3319-* | SL205-BA | 600 V, CAT II / 10 A | max. Ø 2,7 mm 0,5 mm ² | Au | 21 22 23 |

¹⁾ Other colors available on request.



Assembly instructions MAH544

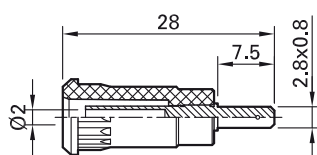
www.staubli.com/electrical

Press-in Socket SEB2-...

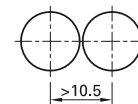
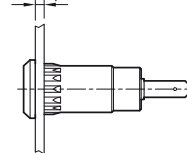
Insulated, rigid, accepting spring-loaded \varnothing 2 mm plugs with rigid insulating sleeve. The socket is pressed into pre-drilled panels of plastic, metal, etc.

Connection: Flat connecting tab 2.8 mm x 0.8 mm or round connecting pin \varnothing 1.9 mm.

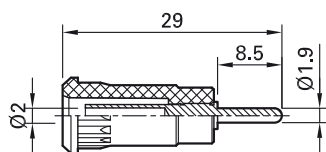
SEB2-F2,8



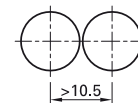
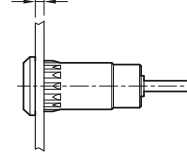
min. 1,5



SEB2-R



min. 1,5



| Order No. | Type | Rated voltage/current | Connection | | *Colors |
|-----------|-----------|-----------------------|--|------------|----------------------|
| 65.9099-* | SEB2-F2,8 | 600 V, CAT III / 10 A | Flat connecting tab 2.8 mm x 0.8 mm | Au | 21 22 23 24 25 29 |
| 65.9193-* | SEB2-R | 600 V, CAT III / 10 A | Round connecting pin \varnothing 1.9 mm | Au c RU us | 21 22 23 24 25 29 |



Flat connecting receptacle FSH2,8x0,8:

page 107

Press-in tool MB2-S: page 108



Assembly instructions MAH510

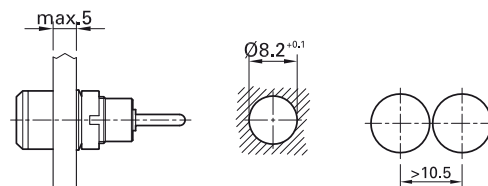
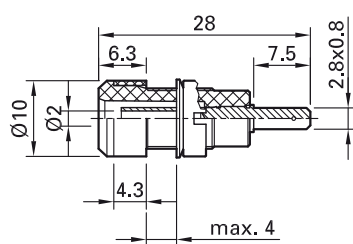
www.staubli.com/electrical

Panel-mount Socket SLB2-...

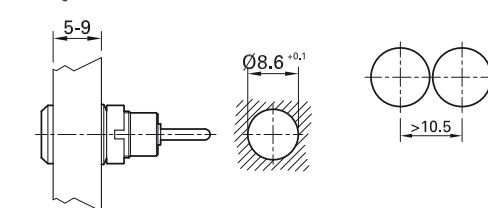
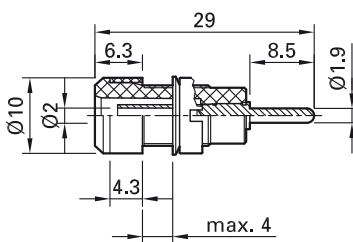
Insulated, rigid, accepting spring-loaded Ø 2 mm plugs with rigid insulating sleeve. The socket is surface-mounted or assembled flush into pre-drilled panels of plastic, metal, etc.

Connection: Flat connecting tab 2.8 mm x 0.8 mm or round connecting pin Ø 1.9 mm.

SLB2-F2,8



SLB2-R



| Order No. | Type | Rated voltage/current | Connection | | *Colors |
|-----------|-----------|-----------------------|--|------------|----------------------|
| 65.9098-* | SLB2-F2,8 | 600 V, CAT III / 10 A | Flat connecting tab 2.8 mm x 0.8 mm | Au | 21 22 23 24 25 29 |
| 65.9194-* | SLB2-R | 600 V, CAT III / 10 A | Round connecting pin Ø 1.9 mm | Au c RU us | 21 22 23 24 25 29 |

Supplied assembly material

| | | | |
|----------|------------|-------------------|-------------------|
| | | Spacer sleeve for | SLB2-F2,8, SLB2-R |
| Page 104 | MUR/M8x0,5 | Round nut for | SLB2-F2,8, SLB2-R |
| Page 104 | SP4 | Washer for | SLB2-F2,8, SLB2-R |



Flat connecting receptacle FSH2,8x0,8:

page 107

Tube spanners SS4, SS2-S: page 107



Assembly instructions MAH511

www.staubli.com/electrical

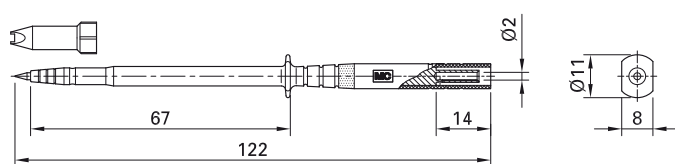
Ø 2 mm Test Probes and Test Clips, Test Clip Leads

Test Probe SPP2-S

With tapered, stainless steel rigid needle. Handle guard chamfered on both sides. Ø 2 mm rigid socket in handle accepting

spring-loaded Ø 2 mm plugs with rigid insulating sleeve. Supplied with protective cap.

SPP2-S



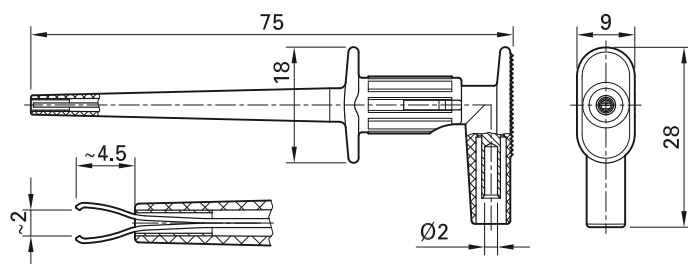
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|-----------------------|----|---------|
| 24.0239-* | SPP2-S | 1000 V, CAT III / 1 A | CE | 21 22 |

Test Clip MicroGrip-XB

With hardened spring wire grabber with gold-plated contact area. Ø 2 mm rigid

socket in handle accepting spring-loaded Ø 2 mm plugs with rigid insulating sleeve.

MicroGrip-XB



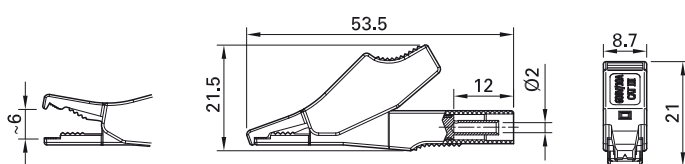
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------------|-----------------------|---------------|---------|
| 65.9187-* | MicroGrip-XB | 300 V, CAT II / 1 A | Au CE c UL us | 21 22 |

Test Clip XKK-200

Made of brass, with all-round insulation. Toothed gripping jaws with fine-wire clamping surface. Ø 2 mm rigid socket in insulator

accepting spring-loaded Ø 2 mm plugs with rigid insulating sleeve.

XKK-200



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|---------|-----------------------|---------------|---------|
| 65.9188-* | XKK-200 | 600 V, CAT III / 10 A | Ni CE c UL us | 21 22 |

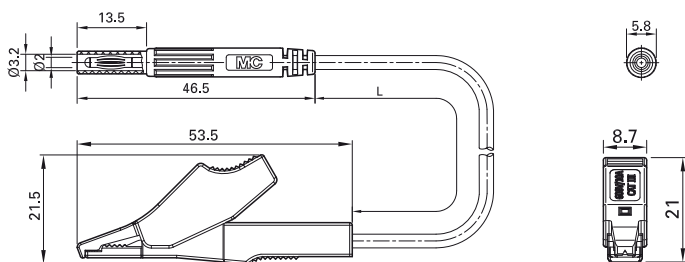


Test Clip Lead XALF

Highly flexible, with insulation in PVC. One end with test clip with all-round insulation and toothed gripping jaws with fine-

wire clamping surface. The other end with Ø 2 mm MULTILAM plug with rigid insulating sleeve.

XALF



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] | *Colors |
|------------|------|-----------------------|--------------------------|---------------|---------------------|---------|
| 65.9185-□* | XALF | 600 V, CAT III / 10 A | PVC 0,75 mm ² | Ni CE c UL us | 100 | 21 22 |

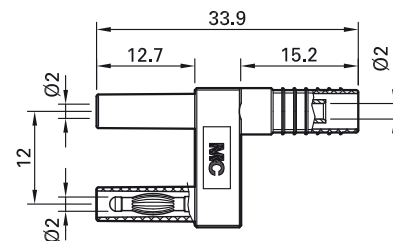
Ø 2 mm Jumper Plug

Connecting Plug SKS2-12L/1SA/N

Insulated, made of brass and with rigid insulating sleeves. Equipped with spring-loaded MULTILAM to ensure vibration-proof contacts – ideal, for instance, in the auto-

motive field for test drives and servicing. Ø 2 mm rigid socket in insulator accepting spring-loaded Ø 2 mm plugs with rigid insulating sleeve.

SKS2-12L/1SA/N



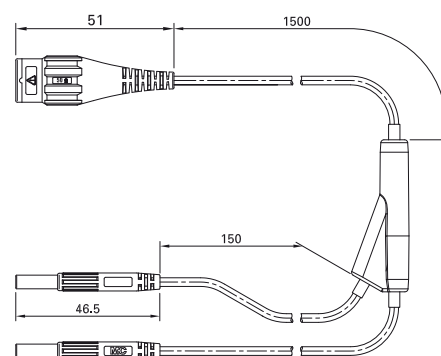
| Order No. | Type | Rated voltage/current | Plug spacing | | Color |
|------------|----------------|-----------------------|--------------|----|-------|
| 65.9866-21 | SKS2-12L/1SA/N | 600 V, CAT II / 10 A | 12 mm | Ni | 21 |

Ø 2 mm / BNC Adapter Lead

Adapter Lead XLAM-205L

Highly flexible. One end with coaxial cable with touch-protected BNC male connector,

other end with in-line Ø 2 mm MULTILAM plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage | Cable type | | Lead length L [cm] |
|-------------|-----------|---------------------------------|-------------------------------------|--------|--------------------|
| 67.9565-150 | XLAM-205L | 600 V, CAT II 300 V, CAT III | PVC RG174 2x 0,5 mm ² | cUL US | 150 |



Rating sheet RZ013

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Ø 4 MM SYSTEM

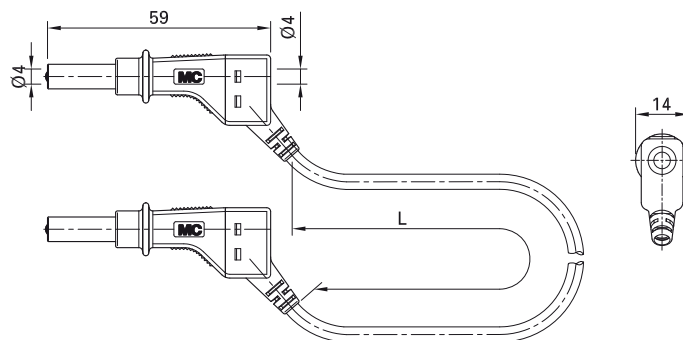
Ø 4 mm Test Leads

Test Lead XZG4...

Highly flexible, with insulation in PVC or silicone especially suitable for connecting electrical devices not (yet) equipped with safety sockets. With stackable Ø 4 mm

MULTILAM plugs on both ends with protective collar and retractable sleeve to prevent accidental touching.

XZG...



| Order No. | Type | Rated voltage/ current | Lead | Rating sheet | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|------------|---------------------------|-------------------------|--------------|-------|--------------------------------------|-------------------------------|
| 66.9405-□* | XZG410 | 600 V, CAT II / 19 A | PVC 1,0 mm ² | RZ073 | Ni CE | 050 100 150 200 | 21 22 23 |
| 66.9406-□* | XZG410/SIL | 600 V, CAT II / 19 A | SIL 1,0 mm ² | RZ073 | Ni CE | 050 100 150 200 | 21 22 23 |
| 66.9407-□* | XZG425 | 600 V, CAT II / 32 A | PVC 2,5 mm ² | RZ074 | Ni CE | 050 100 150 200 | 20 21 22 23 24 25 26 27 28 |
| 66.9408-□* | XZG425/SIL | 600 V, CAT II / 32 A | SIL 2,5 mm ² | RZ074 | Ni CE | 050 100 150 200 | 20 21 22 23 24 25 26 27 28 |

¹⁾ Other color and/or length combinations available on request.



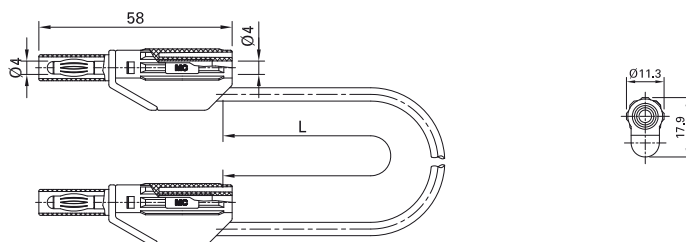
Rating sheets RZ073, RZ074

www.staubli.com/electrical

Test Lead XV...-44...

Highly flexible, with insulation in PVC or silicone with stackable Ø4 mm MULTILAM plugs with rigid insulating sleeve on both ends.

XV...-44...



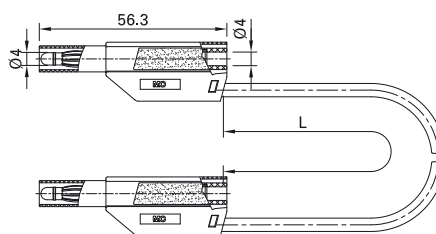
| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|---------|-----------------------|-------------------------|---------------|-----------------------------------|-----------------------|
| 66.9738-□* | XVF-446 | 600 V, CAT II / 19 A | PVC 1,0 mm ² | Ni CE c UL US | 025 050 100 200 | 21 22 23 |
| 66.9739-□* | XVS-446 | 600 V, CAT II / 19 A | SIL 1,0 mm ² | Ni CE c UL US | 025 100 200 | 21 22 23 |
| 66.9736-□* | XVF-448 | 600 V, CAT II / 32 A | PVC 2,5 mm ² | Ni CE c UL US | 025 100 150 200 | 21 22 23 |
| 66.9737-□* | XVS-448 | 600 V, CAT II / 32 A | SIL 2,5 mm ² | Ni CE c UL US | 025 050 100 200 | 21 22 23 |

¹⁾ Other color and/or length combinations available on request.

Test Lead SLK4...-E...

Highly flexible, with insulation in PVC or silicone with stackable Ø 4 mm MULTILAM plugs with rigid insulating sleeve on both ends.

SLK4...-E...



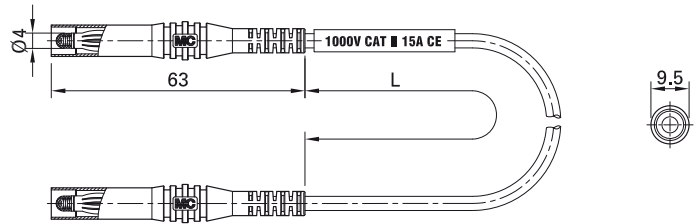
| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|----------------|--|--------------------------|---------------|-----------------------------------|----------------------------------|
| 28.0127-□* | SLK4075-E/N | 1000 V, CAT II / 15 A 600 V, CAT III / 15 A | PVC 0,75 mm ² | Ni CE c UL us | 025 050 075 100 150 200 | 20 21 22 23 24 25 26 27 28 29 |
| 49.0126-□* | SLK410-E/N | 1000 V, CAT II / 19 A 600 V, CAT III / 19 A | PVC 1,0 mm ² | Ni CE c UL us | 025 050 075 100 150 200 | 20 21 22 23 24 25 26 27 28 29 |
| 28.0126-□* | SLK410-E/SIL | 1000 V, CAT II / 19 A 600 V, CAT III / 19 A | SIL 1,0 mm ² | Au CE c UL us | 025 050 075 100 150 200 | 21 22 23 |
| 49.0079-□* | SLK410-E/N SIL | 1000 V, CAT II / 19 A 600 V, CAT III / 19 A | SIL 1,0 mm ² | Ni CE c UL us | 025 050 075 100 150 200 | 20 21 22 23 24 25 26 27 28 29 |
| 28.0124-□* | SLK425-E | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | PVC 2,5 mm ² | Au CE c UL us | 025 050 075 100 150 200 | 20 21 22 23 24 25 26 27 28 29 |
| 28.0125-□* | SLK425-E/N | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | PVC 2,5 mm ² | Ni CE c UL us | 025 050 075 100 150 200 | 20 21 22 23 24 25 26 27 28 29 |

¹⁾ Other color and/or length combinations available on request.

Test Lead XM...-402

Highly flexible, with insulation in PVC or silicone with in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve on both ends.

XM...-402



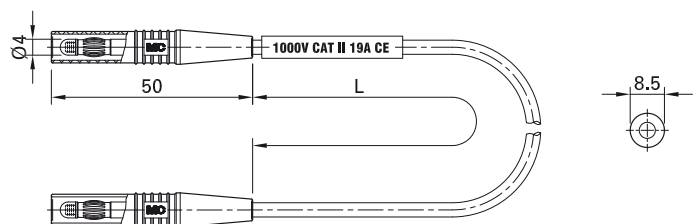
| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|---------|-----------------------|--------------------------|---------|-----------------------------------|-----------------------|
| 66.9634-□* | XMF-402 | 1000 V, CAT II / 15 A | PVC 0,75 mm ² | Ni US | 100 200 | 21 22 23 |
| 66.9635-□* | XMS-402 | 1000 V, CAT II / 15 A | SIL 0,75 mm ² | Ni US | 100 200 | 21 22 23 |

¹⁾ Other color and/or length combinations available on request.

Test Lead SLK4...-L...

Highly flexible, with in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve on both ends.

SLK...-L...

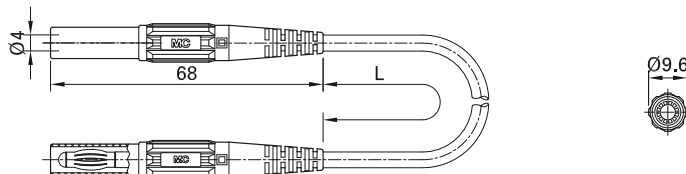


| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] | *Colors |
|------------|------------|-----------------------|-------------------------|----|----------------------------|----------------------|
| 28.0083-□* | SLK410-L | 1000 V, CAT II / 19 A | PVC 1,0 mm ² | Au | 025 050 075 100 150 200 | 21 22 23 24 25 27 |
| 28.0103-□* | SLK425-L | 1000 V, CAT II / 32 A | PVC 2,5 mm ² | Au | 025 050 075 100 150 200 | 21 22 23 24 25 27 |
| 49.0105-□* | SLK425-L/N | 1000 V, CAT II / 32 A | PVC 2,5 mm ² | Ni | 025 050 075 100 150 200 | 21 22 23 24 25 27 |

Test Lead XM...-41...

Highly flexible, with insulation in PVC or silicone with in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve on both ends.

XM...-41...



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|---------|------------------------|-------------------------|---------------|-----------------------------------|-----------------------|
| 66.9013-□* | XMF-414 | 1000 V, CAT III / 19 A | PVC 1,0 mm ² | Ni CE c UL US | 050 100 150 200 | 21 22 23 |
| 66.9014-□* | XMS-414 | 1000 V, CAT III / 19 A | SIL 1,0 mm ² | Ni CE c UL US | 050 100 150 200 | 21 22 23 |
| 66.9303-□* | XMF-418 | 1000 V, CAT III / 32 A | PVC 2,5 mm ² | Ni CE | 100 200 | 21 22 23 |
| 66.9304-□* | XMS-418 | 1000 V, CAT III / 32 A | SIL 2,5 mm ² | Ni CE | 100 200 | 21 22 23 |

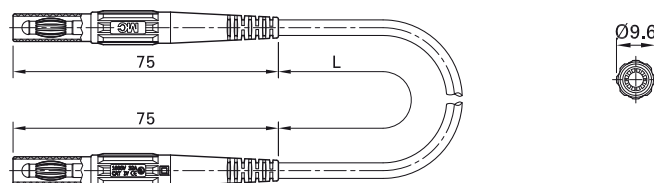
Test Lead XM...-419

Highly flexible, with insulation in PVC, TPE, or silicone with in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve on both

ends. Due to the very high insulation resistance of the TPE insulation, the test lead

XMT-419 is excellently suited for measuring high resistances.

XM...-419



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|---------|-----------------------|-------------------------|---------------|-----------------------------------|-----------------------|
| 66.9391-□* | XMF-419 | 1000 V, CAT IV / 32 A | PVC 2,5 mm ² | Ni CE c UL US | 100 200 | 21 22 23 27 28 |
| 66.9393-□* | XMT-419 | 1000 V, CAT IV / 32 A | TPE 2,5 mm ² | Ni CE | 100 | 21 22 23 |
| 66.9392-□* | XMS-419 | 1000 V, CAT IV / 32 A | SIL 2,5 mm ² | Ni CE c UL US | 100 150 200 | 21 22 23 27 28 |

¹⁾ Other color and/or length combinations available on request.

Fused Test Lead XSM...-419

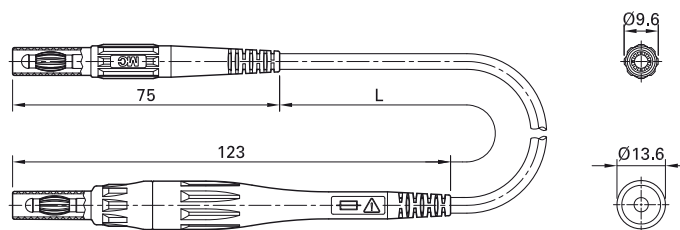
The test leads with integrated high breaking capacity fuses are designed for 1000 V, CAT IV in accordance with IEC/EN 61010-031 and allow for the use of Ø 4 mm standard safety probes and test clips for fuse-protected measurements.

To change the fuse, the two-part fused connector can be easily unscrewed.

Highly flexible, with insulation in PVC or silicone. With in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve on both ends. The two-part screw connector accepts a high breaking capacity fuse measuring 6.3 x 32 mm.

The fuse is not supplied.

XSM...-419



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] | *Colors | | | | | | | | | | |
|------------|----------|---|-------------------------|---------------|---------------------|---|----|----|----|----|----|----|----|----|--|--|
| 66.9394-□* | XSMF-419 | 1000 V, CAT IV / max. 8 A ¹⁾ | PVC 1,0 mm ² | Ni CE c UL US | 100 150 200 | <table border="1"> <tr> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td>26</td> <td>27</td> <td>28</td> <td></td> <td></td> </tr> </table> | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | | |
| 21 | 22 | 23 | 24 | 25 | | | | | | | | | | | | |
| 26 | 27 | 28 | | | | | | | | | | | | | | |
| 66.9395-□* | XSMS-419 | 1000 V, CAT IV / max. 8 A ¹⁾ | SIL 1,0 mm ² | Ni CE c UL US | 100 150 200 | <table border="1"> <tr> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td>26</td> <td>27</td> <td>28</td> <td></td> <td></td> </tr> </table> | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | | |
| 21 | 22 | 23 | 24 | 25 | | | | | | | | | | | | |
| 26 | 27 | 28 | | | | | | | | | | | | | | |

¹⁾ Depends on the fuse used.



High breaking capacity fuse: page 110



Rating sheet RZ091

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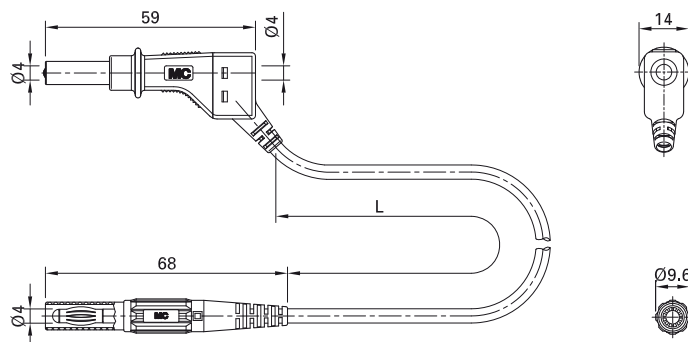
Test Lead XZG410-L

Highly flexible, with insulation in PVC. One end with stackable Ø 4 mm MULTILAM plug with protective collar and retractable sleeve

to prevent accidental touching especially suitable for connecting to electrical devices not (yet) equipped with safety sockets. The

other end with in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve, e.g. for connecting probes or test clips.

XZG410-L



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|----------|-----------------------|-------------------------|-------|-----------------------------------|-----------------------|
| 66.9411-□* | XZG410-L | 600 V, CAT II / 19 A | PVC 1,0 mm ² | Ni CE | 100 200 | 21 22 23 |



Rating sheet RZ073

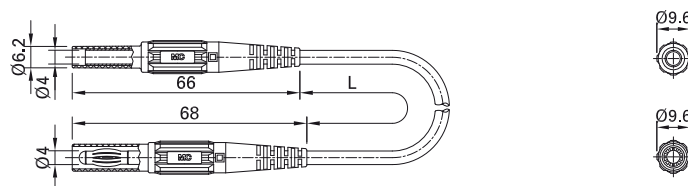
www.staubli.com/electrical

Extension Lead XK...-414

Highly flexible, with insulation in PVC or silicone. One end with Ø 4 mm MULTILAM plug

with rigid insulating sleeve, the other end with Ø 4 mm rigid socket with rigid insulating sleeve.

XK...-414



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|---------|------------------------|-------------------------|---------------|-----------------------------------|-----------------------|
| 66.9011-□* | XKF-414 | 1000 V, CAT III / 19 A | PVC 1,0 mm ² | Ni CE c UL US | 050 100 150 200 | 21 22 23 24 |
| 66.9012-□* | XKS-414 | 1000 V, CAT III / 19 A | SIL 1,0 mm ² | Ni CE c UL US | 050 100 200 | 21 22 23 |

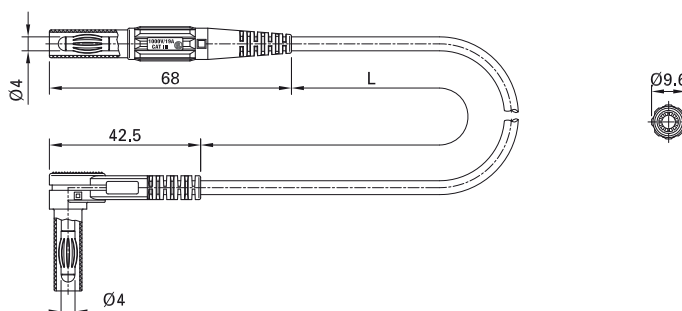
¹⁾ Other color and/or length combinations available on request.

Test Lead XM...-484

Highly flexible, with insulation in PVC or silicone. One end with in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve.

The other end with right-angled Ø 4 mm MULTILAM plug with rigid insulating sleeve.

XM...-484



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|---------|------------------------|-------------------------|---------------|-----------------------------------|-----------------------|
| 66.9005-□* | XMF-484 | 1000 V, CAT III / 19 A | PVC 1,0 mm ² | Ni CE c UL US | 100 150 200 | 21 22 23 24 25 |
| 66.9006-□* | XMS-484 | 1000 V, CAT III / 19 A | SIL 1,0 mm ² | Ni CE c UL US | 100 150 200 | 21 22 23 24 25 |

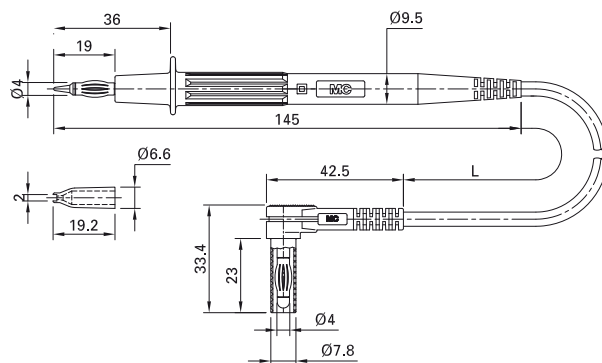
¹⁾ Other color and/or length combinations available on request.

Test Lead XP...-484

Highly flexible, with insulation in PVC or silicone. One end with Ø 4 mm test probe with spring-loaded MULTILAM, the other end

with right angled Ø 4 mm MULTILAM plug with rigid insulating sleeve. Supplied with protective cap.

XP...-484



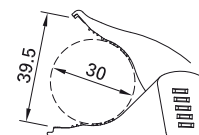
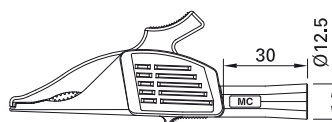
| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] | *Colors |
|------------|---------|-----------------------|-------------------------|---------------|---------------------|----------|
| 66.9008-□* | XPF-484 | 1000 V, CAT II / 20 A | PVC 1,0 mm ² | Ni CE c UL US | 100 150 | 21 22 23 |
| 66.9007-□* | XPS-484 | 1000 V, CAT II / 20 A | SIL 1,0 mm ² | Ni CE c UL US | 100 150 200 | 21 22 23 |



Pluggable accessories XDK-1033P, see below

Accessories

XDK-1033P



Dolphin Clip made of brass with all-round insulation. Toothed jaws for wide grip with surface for fine wire.

Note: Longer version especially designed to plug onto the Ø 4 mm probes of test leads XPF-484 and XPS-484, see above.

| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|-----------|-----------------------|---------------|---------|
| 66.9521-* | XDK-1033P | 1000 V, CAT II / 19 A | Ni CE c UL US | 21 22 |

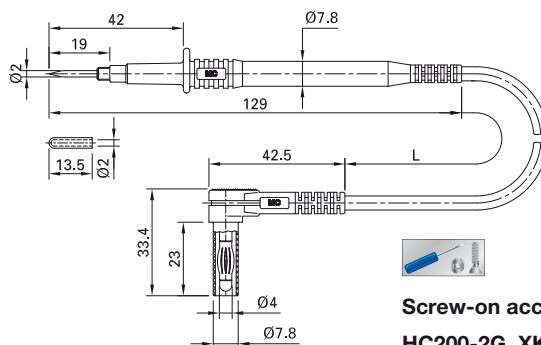
Test Lead XPF-480/2G

Highly flexible test leads. One end with Ø 2 mm test probe made of stainless steel with a thread for use with screw-on acces-

sories, offering various contacting possibilities. The other end with in-line or right angled

Ø 4 mm MULTILAM plug with rigid insulating sleeve. Supplied with protective cap.

XPF-480/2G

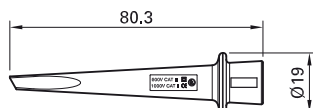


Screw-on accessories
HC200-2G, XKK-200-2G, see below

| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] | *Colors |
|------------|------------|-----------------------|--------------------------|---------------|---------------------|---------|
| 66.9645-□* | XPF-480/2G | 1000 V, CAT II / 15 A | PVC 0,75 mm ² | Ni CE c UL US | 100 150 | 21 22 |

Accessories

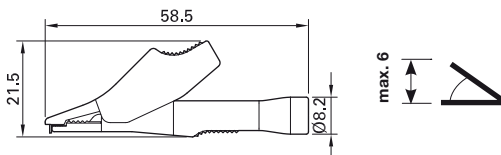
HC200-2G



Hook Clip with rigid hook. Grasped objects are pressed against the tip of the insulator under spring pressure. Internal thread for

attachment to the probes of the test leads XPF-480/2G, see above.

XKK-200-2G



Test Clip with all-round insulation. Toothed gripping jaws with fine-wire clamping surface.

Internal thread for attachment to the probes of the test leads XPF-480/2G, see above.

| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|------------|-----------------------|-------|---------|
| 66.9473-* | HC200-2G | 1000 V, CAT II / 5 A | Ni CE | 21 22 |
| 66.9091-* | XKK-200-2G | 600 V, CAT II / 10 A | Ni CE | 21 22 |

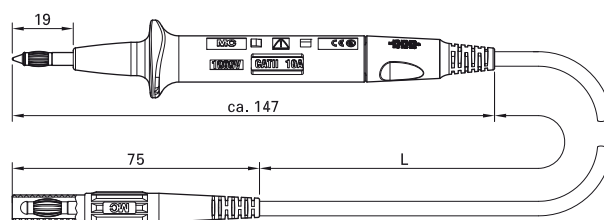
Ø 4 mm Test Leads with Test Probes

Test Lead XSPP-419...

Highly flexible, with PVC or silicone insulation. One end Ø 4 mm test probe with

spring-loaded MULTILAM, adjustable for use in different measurement categories,

other end in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve.



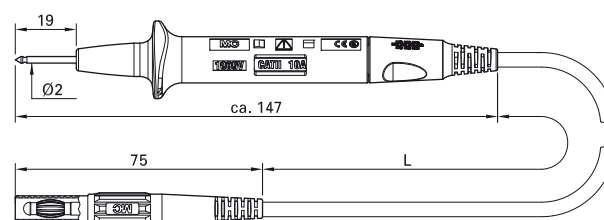
| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] ¹⁾ | *Colors ¹⁾ |
|------------|--------------|---|-------------------------|---------------|-----------------------------------|-----------------------|
| 66.9315-□* | XSPP-419 | 1000 V, CAT II / 32 A 1000 V, CAT IV / 1 A | PVC 2,5 mm ² | Ni CE c UL US | 100 150 | 21 22 23 |
| 66.9320-□* | XSPP-419/SIL | 1000 V, CAT II / 32 A 1000 V, CAT IV / 1 A | SIL 2,5 mm ² | Ni CE c UL US | 100 150 | 21 22 23 |

Test Lead XSPP-2R-419...

Highly flexible, with PVC or silicone insulation. One end Ø 2 mm test probe made of Monel®, adjustable for use in different

measurement categories, other end in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve.

Monel® is a registered trademark of Special Metals Corporation.



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] | *Colors |
|------------|-----------------|---|-------------------------|----|---------------------|----------|
| 66.9335-□* | XSPP-2R-419 | 1000 V, CAT II / 10 A 1000 V, CAT IV / 1 A | PVC 2,5 mm ² | CE | 100 150 | 21 22 23 |
| 66.9336-□* | XSPP-2R-419/SIL | 1000 V, CAT II / 10 A 1000 V, CAT IV / 1 A | SIL 2,5 mm ² | CE | 100 150 | 21 22 23 |

¹⁾ Other color and/or length combinations available on request.



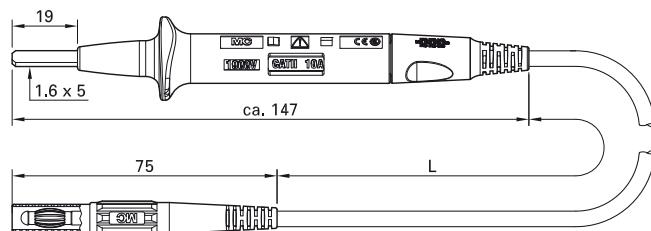
Rating sheet RZ106

www.staubli.com/electrical

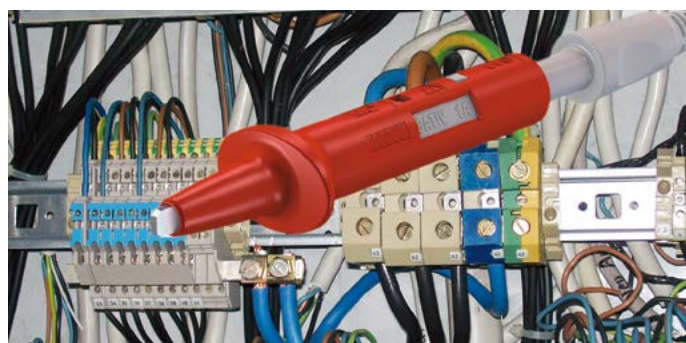
Test Lead XSP-2F-419...

Highly flexible, with PVC or silicone insulation. One end test probe with flat tip 1,6 mm x 5 mm, made of nickel-plated brass, for contact to US power sockets,

etc., adjustable for use in different measurement categories, other end in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] | *Colors |
|------------|----------------|---|-------------------------|-------|---------------------|----------|
| 66.9338-□* | XSP-2F-419 | 1000 V, CAT II / 10 A 1000 V, CAT IV / 1 A | PVC 2,5 mm ² | Ni CE | 100 150 | 21 22 23 |
| 66.9339-□* | XSP-2F-419/SIL | 1000 V, CAT II / 10 A 1000 V, CAT IV / 1 A | SIL 2,5 mm ² | Ni CE | 100 150 | 21 22 23 |



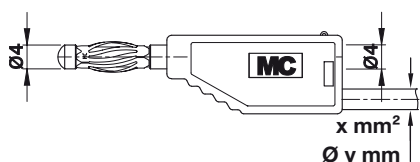
Rating sheet RZ106

www.staubli.com/electrical

Ø 4 mm Plugs and Sockets

This section contains plugs and sockets for self-assembled test leads. The information about each item includes details regarding connectable conductor

cross-sections and diameters, as well as regarding the available assembly instructions.



In the production of our test leads we use only high-quality multi-stranded cables of our own production. If you are interested in

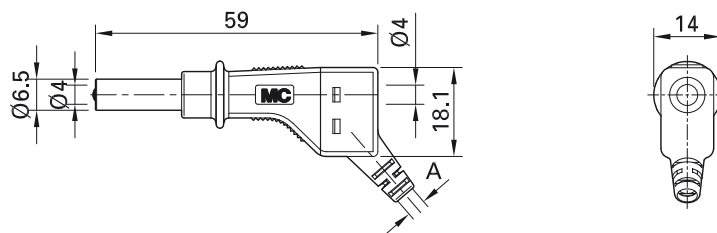
our full range of stranded cables, please ask for a copy of our main catalog "Cables and Multistrand Wires".

Plug XZGL-...

Stackable, Ø 4 mm, with spring-loaded MULTILAM, for self-assembly of test leads. With retractable sleeve to prevent accidental touching. As a result of the protective collar,

the clearances and creepage distances allow test leads equipped with this plug also to be safely connected to older test instruments not yet fitted with safety sockets up to 600 V,

CAT II in accordance with the standards. **Screw connection.**



| Order No. | Type | Rated voltage/current | Cable (A) | Assembly instructions | | *Colors ¹⁾ |
|-----------|----------|-----------------------|--------------------------------|-----------------------|--------|-------------------------------------|
| 66.9327-* | XZGL-410 | 600 V, CAT II / 19 A | min. Ø 3,4 mm max. Ø 3,9 mm | 1,0 mm ² | MAH557 | Ni 20 21 22 23 24 25 |
| 66.9328-* | XZGL-425 | 600 V, CAT II / 32 A | min. Ø 3,4 mm max. Ø 3,9 mm | 2,5 mm ² | MAH558 | Ni 20 21 22 23 24 25 26 27 28 |

¹⁾ Other colors available on request.



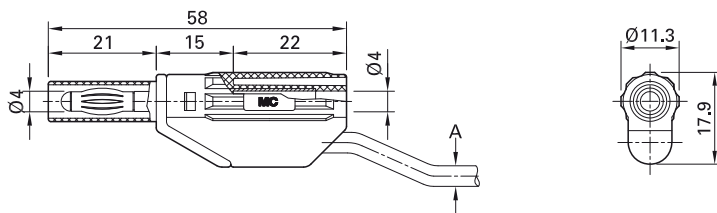
Assembly instructions MAH557, MAH558

www.staubli.com/electrical

Plug XL-446

Stackable, Ø 4 mm, with spring-loaded MULTILAM, for self-assembly of test leads.
With rigid insulating sleeve.

Screw connection.



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors | | | | | | | | | | |
|-----------|--------|-----------------------|---|----|---|----|----|----|----|----|----|----|----|----|--|
| 66.9706-* | XL-446 | 600 V, CAT II / 32 A | max. Ø 3,9 mm max. 2,5 mm ² | Ni | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>29</td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 29 | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 29 | | | | | | | | | | | | |



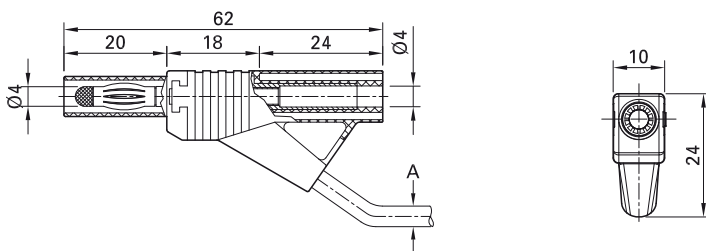
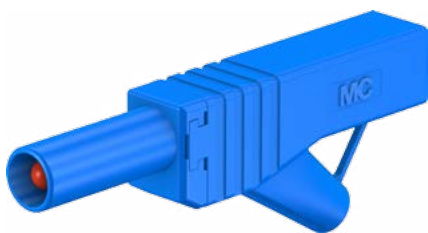
Assembly instructions MAH501

www.staubli.com/electrical

Plug XL-459/30

Stackable, Ø 4 mm, with spring-loaded MULTILAM, for self-assembly of test leads.
With rigid insulating sleeve. With 30° cable outlet.

Screw connection.



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors | | | | | | | | | | |
|-----------|-----------|--|---|----|---|----|----|----|----|----|----|----|--|--|--|
| 66.9649-* | XL-459/30 | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | max. Ø 3,9 mm max. 2,5 mm ² | Ni | <table border="1"> <tr> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td>26</td> <td>27</td> <td></td> <td></td> <td></td> </tr> </table> | 21 | 22 | 23 | 24 | 25 | 26 | 27 | | | |
| 21 | 22 | 23 | 24 | 25 | | | | | | | | | | | |
| 26 | 27 | | | | | | | | | | | | | | |



Assembly instructions MAH502

www.staubli.com/electrical

Plug SLS425-SE...

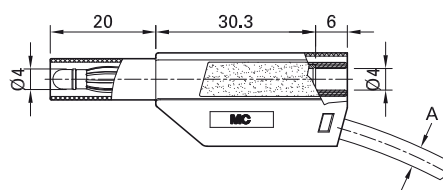
Stackable, Ø 4 mm, with spring-loaded MULTILAM, for self-assembly of test leads. With rigid insulating sleeve. Nickel-plated and gold-plated versions available.

Various types of connection:

SLS425-SE/M: Screw connection

SLS425-SE(/N): Cylindrical soldering surface

SLS425-SE/Q(/N): Cross hole for solder connection



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors | | | | | | | | | | |
|-----------|---------------|--|--|----|---|----|----|----|----|----|----|----|----|----|----|
| 22.2656-* | SLS425-SE/M | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | ~ Ø 3,9 mm 0,75 ... 2,5 mm ² | Au | <table border="1"> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |
| 22.2655-* | SLS425-SE | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | ~ Ø 3,9 mm 0,75 ... 2,5 mm ² | Au | <table border="1"> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |
| 22.2654-* | SLS425-SE/N | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | ~ Ø 3,9 mm 0,75 ... 2,5 mm ² | Ni | <table border="1"> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |
| 22.2658-* | SLS425-SE/Q | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | ~ Ø 3,9 mm 0,75 ... 2,5 mm ² | Au | <table border="1"> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |
| 22.2657-* | SLS425-SE/Q/N | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | ~ Ø 3,9 mm 0,75 ... 2,5 mm ² | Ni | <table border="1"> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |

Component parts

| | | |
|-----------|--------------|--------------------------------------|
| 22.2380-* | KT425-SE | Insulator (*Colors see: SLS425-SE/M) |
| 22.1027 | LS425-SE/M | Plug suitable for: SLS425-SE/M |
| 22.1047 | LS425-SE | Plug suitable for: SLS425-SE |
| 22.1048 | LS425-SE/N | Plug suitable for: SLS425-SE/N |
| 22.1203 | LS425-SE/Q | Plug suitable for: SLS425-SE/Q |
| 22.1204 | LS425-SE/Q/N | Plug suitable for: SLS425-SE/Q/N |



Assembly instructions MA161

www.staubli.com/electrical

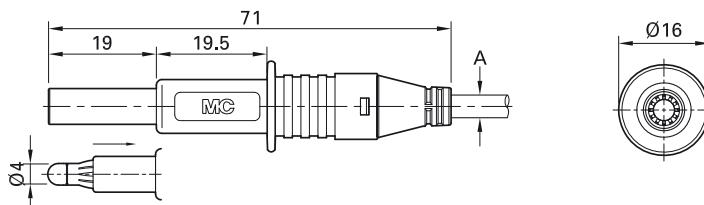
Plug X-GL-438

In-line, Ø 4 mm, with spring-loaded MULTILAM, for self-assembly of test leads. With retractable sleeve to prevent accidental touching. As a result of the protective col-

lar, the clearances and creepage distances allow test leads equipped with this plug also to be safely connected to older instruments not yet fitted with safety sockets

up to 600 V, CAT II in accordance with the standards.

Screw connection.



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors |
|-----------|----------|-----------------------|---|----|----------|
| 66.9584-* | X-GL-438 | 600 V, CAT II / 32 A | max. Ø 3,9 mm max. 2,5 mm ² | Ni | 21 22 23 |



Assembly instructions MAH547

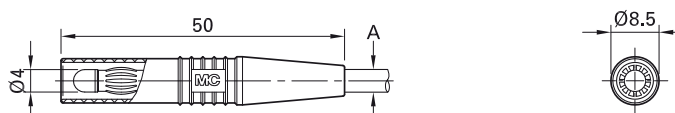
www.staubli.com/electrical

Plug SLS425-SL...

In-line, Ø 4 mm, with spring-loaded MULTILAM, for self-assembly of test leads.

With rigid insulating sleeve. Nickel-plated and gold-plated versions available.

Solder connection.



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors |
|-----------|-------------|-----------------------|--------------------------------------|----|----------|
| 22.2663-* | SLS425-SL | 1000 V, CAT II / 32 A | max. Ø 4,1 mm 2,5 mm ² | Au | 21 22 23 |
| 22.2665-* | SLS425-SL/N | 1000 V, CAT II / 32 A | max. Ø 4,1 mm 2,5 mm ² | Ni | 21 22 23 |

Component parts

| | | |
|---------|------------|-----------------------------------|
| 22.2260 | KT425-SL | Insulator (*Colors see SLS425-SL) |
| 22.1025 | LS425-SL | Plug suitable for: SLS425-SL |
| 22.1032 | LS425-SL/N | Plug suitable for: SLS425-SL/N |



Assembly instructions MA106

www.staubli.com/electrical



Recommended mounting tool

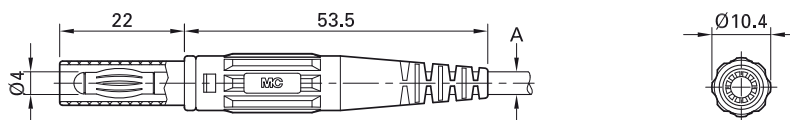
Crimping pliers PZK3, page 109

Plug XL-410

In-line, Ø 4 mm, with spring-loaded MULTILAM, for self-assembly of test leads.

With rigid insulating sleeve.

Screw connection.



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors | | | | | | | | | | |
|-----------|--------|--|---|----|---|----|----|----|----|----|----|----|----|--|--|
| 66.9196-* | XL-410 | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | max. Ø 3,9 mm max. 2,5 mm ² | Ni | <table border="1"> <tr> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td>26</td> <td>27</td> <td>29</td> <td></td> <td></td> </tr> </table> | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 29 | | |
| 21 | 22 | 23 | 24 | 25 | | | | | | | | | | | |
| 26 | 27 | 29 | | | | | | | | | | | | | |



Assembly instructions MAH503

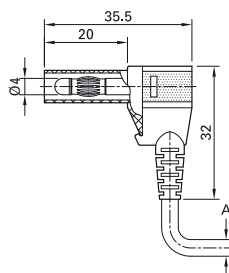
www.staubli.com/electrical

Plug SLS425-SW...

Right-angled, Ø 4 mm, with spring-loaded MULTILAM, for self-assembly of test leads. With rigid insulating sleeve. Nickel-plat-

ed and gold-plated versions available.

Solder connection.



| Order No. | Type | Rated voltage/current | Cable (A) | | *Colors | | | | | | | | | | |
|-----------|-------------|-----------------------|---|----|---|----|----|----|----|----|----|----|--|--|--|
| 22.2667-* | SLS425-SW | 500 V, CAT II / 32 A | max. 3,9 mm max. 2,5 mm ² | Ni | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td></td> <td></td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | | | | | | | | | | | | | | |
| 22.2668-* | SLS425-SW/A | 500 V, CAT II / 32 A | max. 3,9 mm max. 2,5 mm ² | Au | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td></td> <td></td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | | | | | | | | | | | | | | |

Component parts

| | | |
|-----------|------------|-----------------------------------|
| 22.2370-* | KT425-SW | Insulator (*Colors see SLS425-SW) |
| 22.1042 | LS425-SW | Plug suitable for: SLS425-SW |
| 22.1045 | LS425-SW/A | Plug suitable for: SLS425-SW/A |



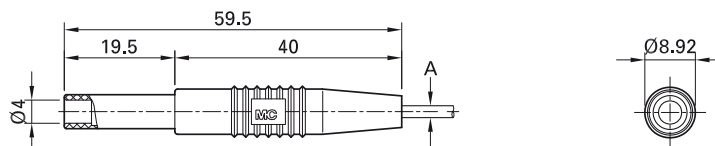
Assembly instructions MA107

www.staubli.com/electrical

Socket SLS410-BK

In-line, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve, for self-assembly of test leads.

Solder connection.



| Order No. | Type | Rated voltage/current | Cable (A) | | | *Colors |
|-----------|-----------|-----------------------|-----------|---------------------|----|---------|
| 22.2672-* | SLS410-BK | 600 V, CAT II / 19 A | Ø 2,9 mm | 1,0 mm ² | Au | 21 22 |

Component parts

| | | |
|-----------|------------|-----------------------------------|
| 22.2250-* | KT410-BK | Insulator (*Colors see SLS410-BK) |
| 22.1037 | LS410-BK-I | Socket suitable for: SLS410-BK |



Assembly instructions MA129

www.staubli.com/electrical



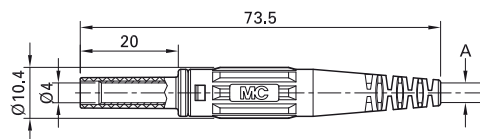
Rating sheet RZ200

www.staubli.com/electrical

Socket XK-410

In-line, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve, for self-assembly of test leads.

Screw connection.



| Order No. | Type | Rated voltage/current | Cable (A) | | | *Colors |
|-----------|--------|--|---------------|--------------------------|----|----------------------|
| 66.9155-* | XK-410 | 1000 V, CAT II / 32 A 600 V, CAT III / 32 A | max. Ø 3,9 mm | max. 2,5 mm ² | Ni | 21 22 23 24 25 26 |



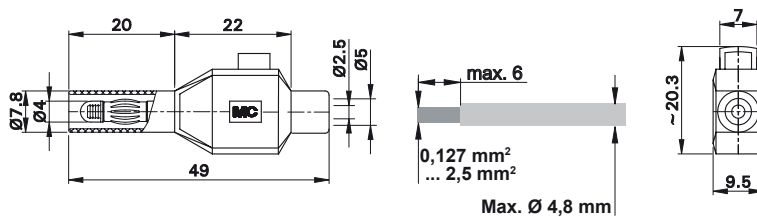
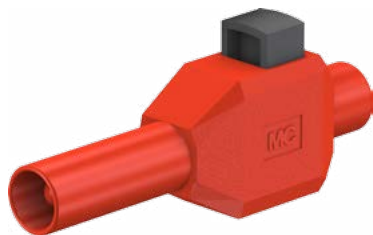
Assembly instructions MAH548

www.staubli.com/electrical

Plug SKLS4

Ø 4 mm, with spring-loaded MULTILAM, for clamp-connecting stranded wires. With rigid insulating sleeve.

Clamp connection.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|-------|------------------------------------|----|---------|
| 22.3007-* | SKLS4 | 600 V, CAT II / 10 A ¹⁾ | Ni | 21 22 |

¹⁾ During installation of this clip-on plug, the terminal must not be connected to the supply.



Rating sheet RZ005

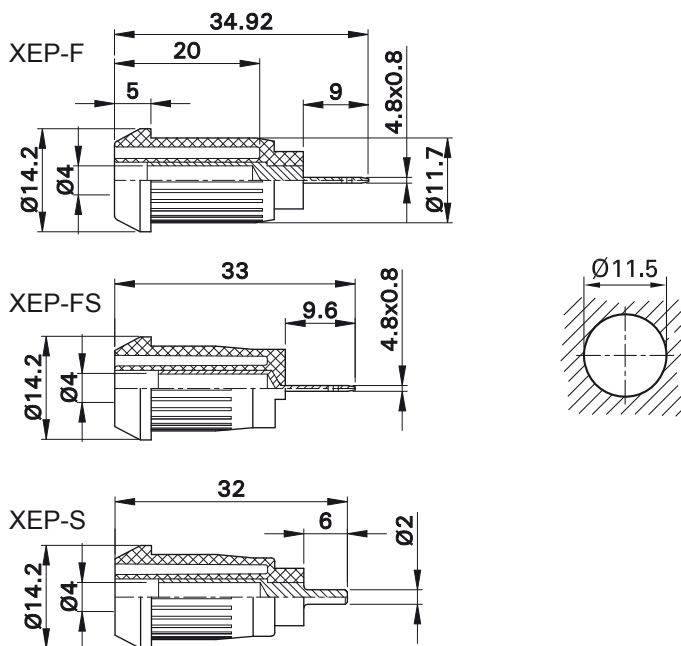
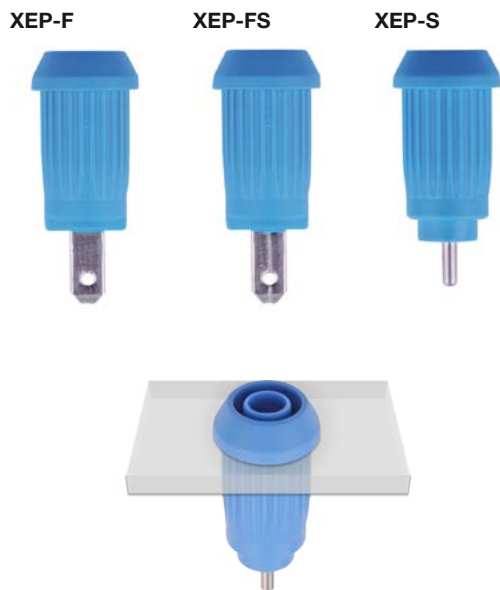
www.staubli.com/electrical

Press-in Socket XEP-...

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. The socket is pressed into

pre-drilled panels of plastic, metal, etc.

Various metal parts/connections.



| Order No. | Type | Rated voltage/current | Connection | | *Colors ¹⁾ |
|-----------|--------|------------------------|--|------------|-----------------------|
| 66.9682-* | XEP-F | 1000 V, CAT III / 20 A | Machined brass/Flat connecting tab 4.8 mm × 0.8 mm | Ni c RU us | 21 22 23 24 |
| 66.9685-* | XEP-FS | 1000 V, CAT III / 20 A | Brass sheet, rolled/Flat connecting tab 4.8 mm × 0.8 mm | Ni c RU us | 21 22 23 |
| 66.9681-* | XEP-S | 1000 V, CAT III / 20 A | Machined brass/Solder pin Ø 2.0 mm | Ni c RU us | 21 22 23 |

¹⁾ Other colors available on request.



**Flat connecting receptacles FSH4,8x0,8,
page 107**

Press-in tool MB4-S, page 108



Assembly instructions MAH505

www.staubli.com/electrical

Press-in Socket SEB4-F...

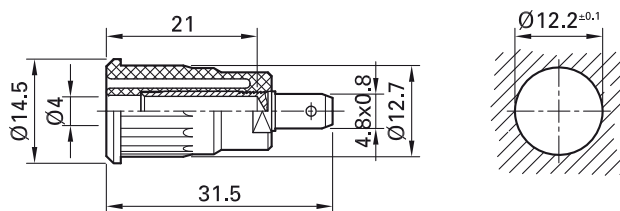
Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Machined brass. The socket

is pressed into pre-drilled panels of plastic, metal, etc.

Connection: Flat connecting tab.

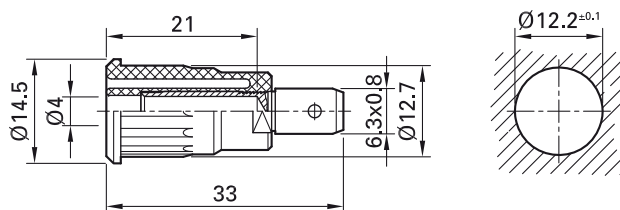
SEB4-F

SEB4-F/N



SEB4-F6,3

SEB4-F6,3/N



| Order No. | Type | Rated voltage/current | Connection | | *Colors |
|-----------|-------------|------------------------|--|----------|---------|
| 23.3120-* | SEB4-F | 1000 V, CAT III / 24 A | Flat connecting tab 4,8 mm × 0,8 mm | Au c US | |
| 49.7079-* | SEB4-F/N | 1000 V, CAT III / 24 A | Flat connecting tab 4,8 mm × 0,8 mm | Ni c US | |
| 23.3150-* | SEB4-F6,3 | 1000 V, CAT III / 32 A | Flat connecting tab 6,3 mm × 0,8 mm | Au c US | |
| 49.7073-* | SEB4-F6,3/N | 1000 V, CAT III / 32 A | Flat connecting tab 6,3 mm × 0,8 mm | Ni c US | |



Flat connecting receptacles FSH...,

page 107

Press-in tool MB4-S, page 108



Assembly instructions MA104

www.staubli.com/electrical

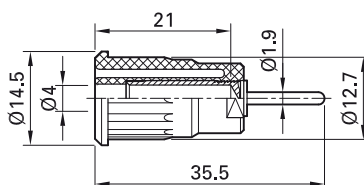
Press-in Socket SEB4-...

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid in-

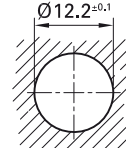
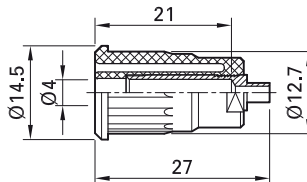
insulating sleeve. Machined brass. The socket is pressed into pre-drilled panels of plastic, metal, etc. **Connection: Various.**

SEB4-R

SEB4-R/N

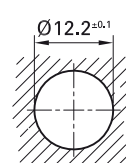
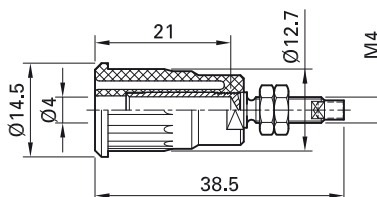


SEB4-E



SEB4-G

SEB4-G/N-X



| Order No. | Type | Rated voltage/current | Connection | | *Colors |
|-----------|------------|------------------------|--|----------|----------------------------|
| 23.3130-* | SEB4-R | 1000 V, CAT III / 24 A | Round connecting pin Ø 1.9 mm | Au c us | 20 21 22 23 24 25 27 28 |
| 49.7080-* | SEB4-R/N | 1000 V, CAT III / 24 A | Round connecting pin Ø 1.9 mm | Ni c us | 20 21 22 23 24 25 27 28 |
| 49.7091-* | SEB4-E | 1000 V, CAT III / 24 A | Solder connection | Ni c us | 20 21 22 23 24 25 27 28 |
| 23.3140-* | SEB4-G | 1000 V, CAT III / 24 A | Threaded bolt M4 and soldering hole | Au c us | 20 21 22 23 24 25 27 28 |
| 49.7092-* | SEB4-G/N-X | 1000 V, CAT III / 24 A | Threaded bolt M4 and soldering hole | Ni c us | 20 21 22 23 24 25 27 |

Supplied assembly material

| | | | |
|----------|-----------|--------------------|--------|
| Page 103 | MU0,8D/M4 | 2 hexagon nuts for | SEB4-G |
| Page 104 | U/M4 | 2 washers for | SEB4-G |
| Page 105 | FS/M4 | Spring washer for | SEB4-G |



Assembly instructions MA104

www.staubli.com/electrical



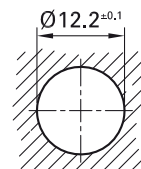
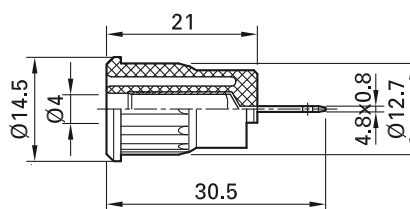
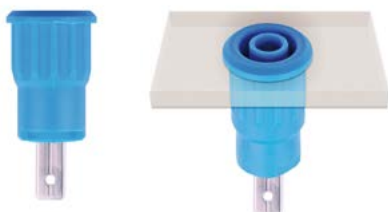
Press-in tool MB4-S, page 108

Press-in Socket SEB4-F/A

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Brass sheet. The socket is

pressed into pre-drilled panels of plastic, metal, etc.

Connection: Flat connecting tab 4.8 mm × 0.8 mm, can be bent to 90°, once only.



| Order No. | Type | Rated voltage/current | | *Colors | | | | | | | | | | |
|-----------|----------|------------------------|----------|---|----|----|----|----|----|----|--|--|--|--|
| 23.3160-* | SEB4-F/A | 1000 V, CAT III / 24 A | Ni c us | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | | | | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |



Assembly instructions MA104

www.staubli.com/electrical



Flat connecting receptacles FSH4,8x0,8,

page 107

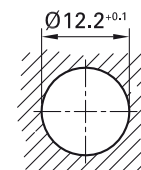
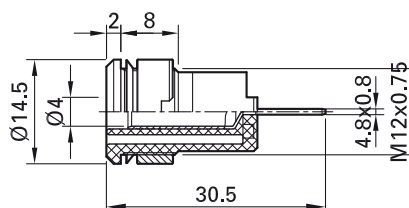
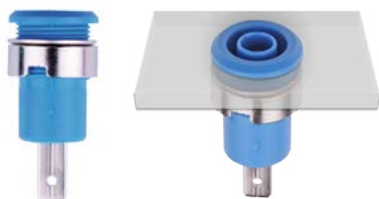
Press-in tool MB4-S, page 108

Panel-mount Socket SLB4-F/A

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Brass sheet. The socket is

screwed into pre-drilled panels of plastic, metal, etc.

Connection: Flat connecting tab 4.8 mm × 0.8 mm, can be bent to 90°, once only.



| Order No. | Type | Rated voltage/current | | *Colors | | | | | | | | | | |
|-----------|----------|------------------------|----------|---|----|----|----|----|----|----|----|----|----|----|
| 23.3070-* | SLB4-F/A | 1000 V, CAT III / 24 A | Ni c us | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |

Supplied assembly material

| | | |
|----------|--------------|-----------|
| Page 104 | MUR/M12x0,75 | Round nut |
| Page 104 | SSP4 | Washer |



Assembly instructions MA152

www.staubli.com/electrical



Flat connecting receptacles FSH4,8x0,8, page 107

Tube spanners SS2, SS425, page 107

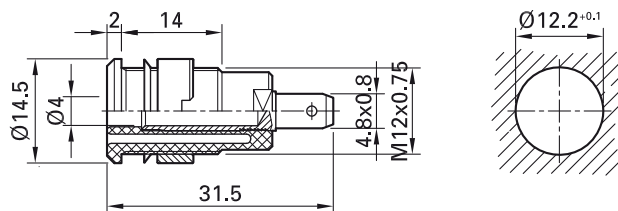
Panel-mount Socket SLB4-F...

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Machined brass. The socket

is screwed into pre-drilled panels of plastic, metal, etc. **Connection: Flat connecting tab.**

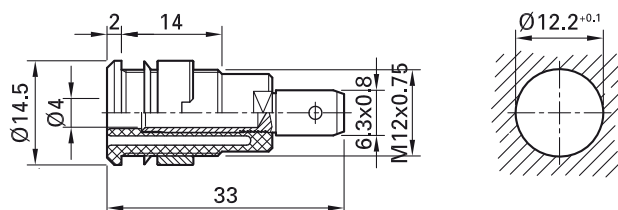
SLB4-F

SLB4-F/N-X



SLB4-F6,3

SLB4-F6,3/N-X



| Order No. | Type | Rated voltage/current | Connection | | *Colors | | | | | | | | | | |
|-----------|---------------|------------------------|--|------|---|----|----|----|----|----|----|----|----|----|----|
| 23.3000-* | SLB4-F | 1000 V, CAT III / 24 A | Flat connecting tab 4.8 mm × 0.8 mm | Au c | <table border="1"> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |
| 49.7044-* | SLB4-F/N-X | 1000 V, CAT III / 24 A | Flat connecting tab 4.8 mm × 0.8 mm | Ni c | <table border="1"> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |
| 23.3060-* | SLB4-F6,3 | 1000 V, CAT III / 32 A | Flat connecting tab 6.3 mm × 0.8 mm | Au c | <table border="1"> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |
| 49.7046-* | SLB4-F6,3/N-X | 1000 V, CAT III / 32 A | Flat connecting tab 6.3 mm × 0.8 mm | Ni c | <table border="1"> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |

Supplied assembly material

| | | | |
|----------|--------------|-------------------------|--|
| Page 104 | MUR/M12x0,75 | Round nut, suitable for | SLB4-F, SLB4-F/N-X, SLB4-F6,3, SLB4-F6,3/N-X |
| Page 104 | SSP4 | Washer, suitable for | SLB4-F, SLB4-F6,3 |



Assembly instructions MA152

www.staubli.com/electrical



Flat connecting receptacles FSH..., page 107

Tube spanners SS2, SS425, page 107

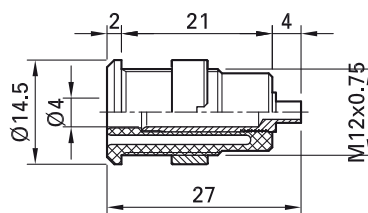
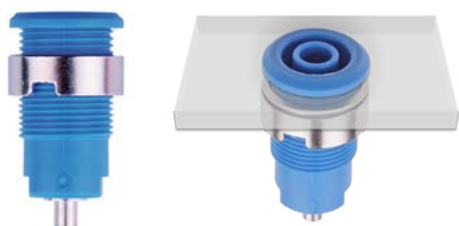
Panel-mount Socket SLB4-...

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Machined brass. The socket

is screwed into pre-drilled panels of plastic, metal, etc.

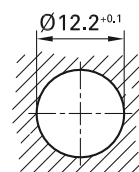
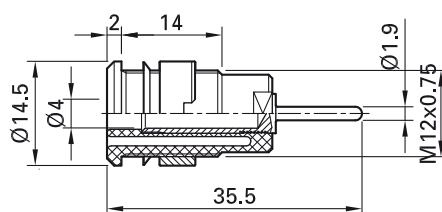
Connection: Various.

SLB4-E



SLB4-R

SLB4-R/N-X



| Order No. | Type | Rated voltage/current | Connection | | *Colors |
|-----------|------------|------------------------|----------------------------------|----------|----------------------------------|
| 49.7049-* | SLB4-E | 1000 V, CAT III / 24 A | Solder connection | Ni | 20 21 22 23 24 25 26 27 28 29 |
| 23.3010-* | SLB4-R | 1000 V, CAT III / 24 A | Round connecting pin Ø 1.9 mm | Au c US | 20 21 22 23 24 25 26 27 28 29 |
| 49.7048-* | SLB4-R/N-X | 1000 V, CAT III / 24 A | Round connecting pin Ø 1.9 mm | Ni c US | 20 21 22 23 24 25 |

Supplied assembly material

| | | | |
|----------|--------------|---------------|----------------------------|
| Page 104 | MUR/M12x0,75 | Round nut for | SLB4-E, SLB4-R, SLB4-R/N-X |
| Page 104 | SSP4 | Washer | SLB4-R |



Tube spanners SS2, SS425, page 107



Assembly instructions MA152

www.staubli.com/electrical

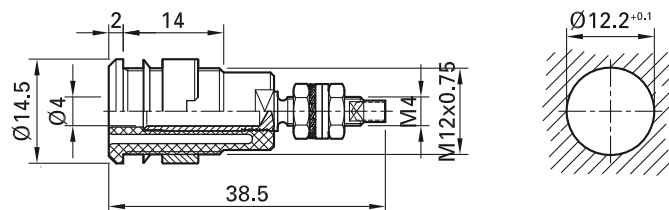
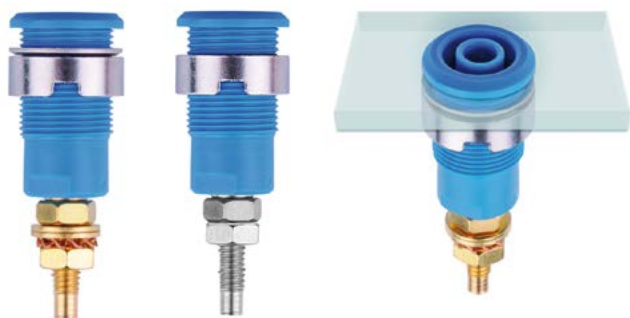
Panel-mount Socket SLB4-G...

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Machined brass. The socket

is screwed into pre-drilled panels of plastic, metal, etc. **Connection: Threaded bolt M4 and soldering hole.**

SLB4-G

SLB4-G/N-X



| Order No. | Type | Rated voltage/current | | *Colors | | | | | | | | | | |
|-----------|------------|------------------------|----------|---|----|----|----|----|----|----|----|----|----|----|
| 23.3020-* | SLB4-G | 1000 V, CAT III / 32 A | Au c US | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |
| 49.7043-* | SLB4-G/N-X | 1000 V, CAT III / 32 A | Ni c US | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |

Supplied assembly material

| | | | |
|----------|--------------|------------------------------|--------------------|
| Page 103 | MU0,8D/M4 | 2 hexagon nuts, suitable for | SLB4-G |
| Page 103 | MU0,8D/M4N | 2 hexagon nuts, suitable for | SLB4-G/N-X |
| Page 104 | MUR/M12x0,75 | Round nut, suitable for | SLB4-G, SLB4-G/N-X |
| Page 104 | SSP4 | Washer, suitable for | SLB4-G |
| Page 104 | U/M4 | 2 washers, suitable for | SLB4-G |
| Page 105 | FS/M4 | Spring washer, suitable for | SLB4-G |



Tube spanners SS2, SS425, page 107



Assembly instructions MA152

www.staubli.com/electrical

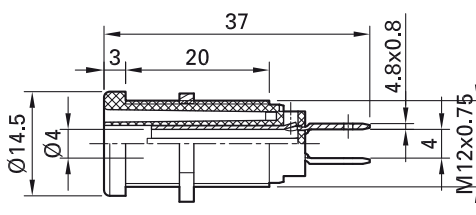
Panel-mount Socket XEB-1...

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Brass sheet. The socket consists of two insulated, semi-circular

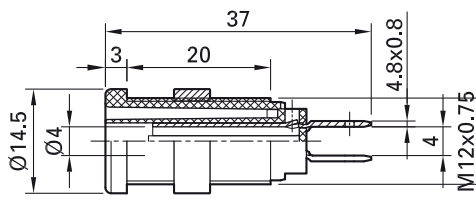
contacts, which are connected to each other when a plug is inserted (switch function). The socket is screwed into pre-drilled panels of plastic, metal, etc.

Connection: 2 × Flat connecting tab 4.8 mm × 0.8 mm.

XEB-1R



XEB-1RR



| Order No. | Type | Rated voltage/current | Connection | | *Colors ¹⁾ |
|-----------|---------|-----------------------|--|----------|-------------------------|
| 66.9131-* | XEB-1R | 1000 V, CAT IV / 20 A | 2 × Flat connecting tab 4,8 mm × 0,8 mm | Ni c us | 20 21 22 23 24 25 26 |
| 66.9850-* | XEB-1RR | 1000 V, CAT IV / 20 A | 2 × Flat connecting tab 4,8 mm × 0,8 mm | Ni c us | 21 22 23 |

Supplied assembly material

| | | |
|----------|---------------|------------------------|
| Page 103 | GEW.12-MUTTER | Hexagon nut for XEB-1R |
| Page 104 | MUR/M12x0,75 | Round nut for XEB-1RR |

¹⁾ Other colors available on request.



**Flat connecting receptacles FSH4,8x0,8,
page 107**

Tube spanners SS2, SS425, page 107



Assembly instructions MAH506, MAH509

www.staubli.com/electrical

Panel-mount Socket XE...-1...

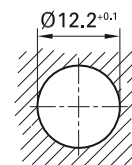
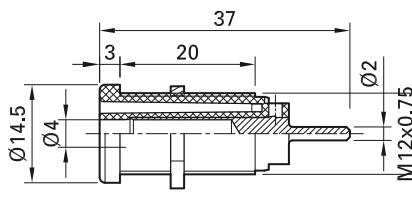
Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid

id insulating sleeve. Machined brass. The sockets are screwed into pre-

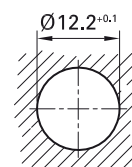
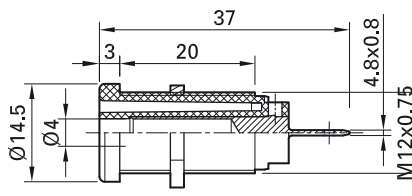
drilled panels of plastic, metal, etc.

Various metal parts/connections.

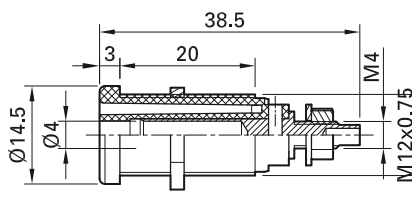
XES-1R



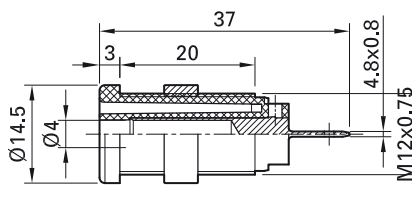
XEF-1R



XEG-1R



XEF-1RR



| Order No. | Type | Rated voltage/current | Connection | | *Colors ¹⁾ |
|-----------|---------|-----------------------|--|------|-----------------------|
| 66.9661-* | XES-1R | 1000 V, CAT IV / 24 A | Solder pin Ø 2,0 mm | Ni c | 21 22 23 |
| 66.9665-* | XEF-1R | 1000 V, CAT IV / 24 A | Flat connecting tab 4.8 mm x 0.8 mm | Ni c | 20 21 22 23 24 |
| 66.9136-* | XEG-1R | 1000 V, CAT IV / 20 A | Threaded bolt M4 | Ni c | 20 21 22 23 |
| 66.9854-* | XEF-1RR | 1000 V, CAT IV / 24 A | Flat connecting tab 4.8 mm x 0.8 mm | Ni c | 21 22 23 |

Supplied assembly material

| | | | |
|----------|---------------|-----------------|------------------------|
| Page 103 | GEW.12-MUTTER | Hexagon nut for | XES-1R, XEF-1R, XEG-1R |
| Page 104 | MUR/M12x0,75 | Round nut for | XEF-1RR |



Assembly instructions MAH506, MAH509

www.staubli.com/electrical



Flat connecting receptacles FSH4,8x0,8, page 107

Tube spanners SS2, SS425, page 107

¹⁾ Other colors available on request.

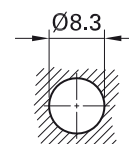
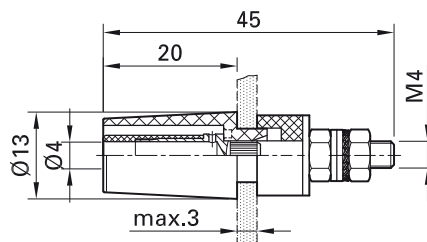
Mounting Socket SAB4-G...

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Machined brass. The socket

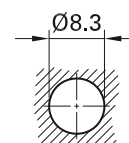
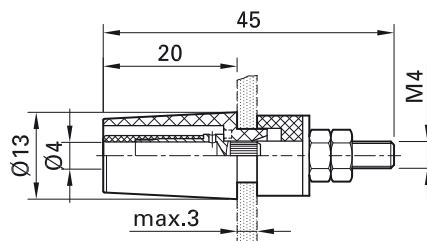
is surface-mounted in pre-drilled panels of plastic, metal, etc.

Connection: Threaded bolt M4.

SAB4-G



SAB4-G/N-X



| Order No. | Type | Rated voltage/current | | *Colors | | | | | | | | | | |
|-----------|------------|-----------------------|------------|---|----|----|----|----|----|----|----|----|----|----|
| 23.3050-* | SAB4-G | 600 V, CAT II / 32 A | Au c RU US | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |
| 49.7042-* | SAB4-G/N-X | 600 V, CAT II / 32 A | Ni | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |

Supplied assembly material

| | | | |
|----------|------------|--------------------|--------------------|
| Page 103 | MU0,8D/M4 | 2 hexagon nuts for | SAB4-G |
| Page 103 | MU0,8D/M4N | 2 hexagon nuts for | SAB4-G/N-X |
| Page 104 | U/M4 | 2 washers for | SAB4-G |
| Page 104 | U/4,3x12 | Washer for | SAB4-G, SAB4-G/N-X |
| Page 105 | FS/M4 | Spring washer | SAB4-G |
| Page 106 | ID-SAB4-G | Spacer sleeve for | SAB4-G, SAB4-G/N-X |



Tube spanner SS2, page 107



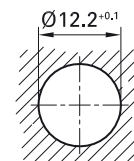
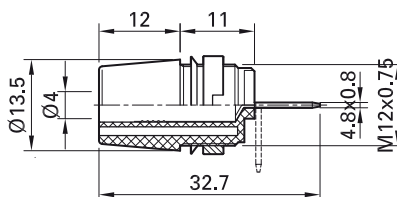
Assembly instructions MA153

www.staubli.com/electrical

Mounting Socket SAB4-F/A

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Brass sheet. The socket is surface-mounted in pre-drilled panels of plastic,

metal, etc. **Flat connecting tab 4.8 mm x 0.8 mm**, can be bent to 90°, once only.



| Order No. | Type | Rated voltage/current | | *Colors | | | | | | | | | | |
|-----------|----------|-----------------------|----------|---|----|----|----|----|----|----|--|--|--|--|
| 23.3110-* | SAB4-F/A | 1000 V, CAT II / 20 A | Ni c us | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | | | | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |

Supplied assembly material

| | | |
|----------|----------------|-----------|
| Page 104 | MUR-S/M12x0,75 | Round nut |
| Page 104 | SSP4 | Washer |



Flat connecting receptacle FSH4,8x0,8,
page 107

Tube spanners SS2, SS425, page 107



Assembly instructions MA152

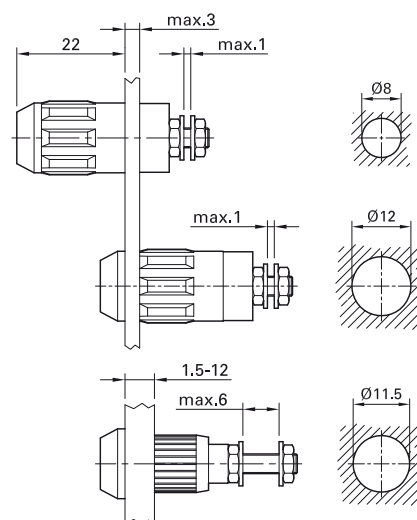
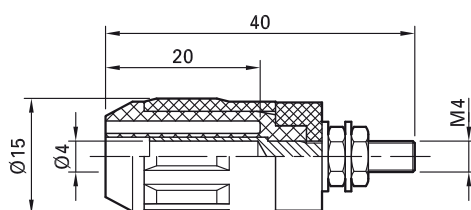
www.staubli.com/electrical

Universal Socket XUB-G

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Machined brass. The socket is surface-mounted, assembled flush, or

pressed into pre-drilled panels of plastic, metal, etc. **Connection: Threaded bolt M4.**

Optional: Protective cap SD-XUB to cover up unplugged, unused sockets (Protection degree IP67).



| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ | | | | | | | | | | |
|-----------|-------|---|----------|---|----|----|----|----|----|----|----|--|--|--|
| 66.9684-* | XUB-G | 600 V ²⁾ , CAT II / 20 A 1000 V ³⁾ , CAT II / 20 A | Ni c us | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>29</td> <td></td> <td></td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 29 | | | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 29 | | | | | | | | | | | | | |

¹⁾ Other colors available on request.

²⁾ Surface-mounted

³⁾ Assembled flush or pressed in



Protective cap SD-XUB, page 105

Press-in tool MB4-S, page 108



Assembly instructions MAH507

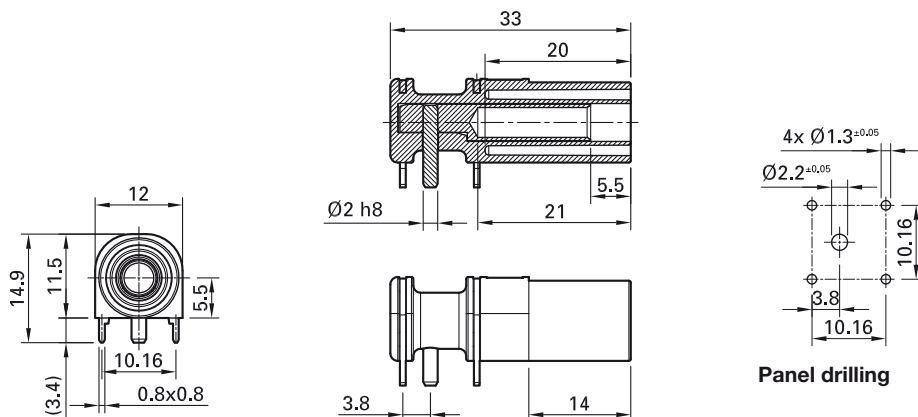
www.staubli.com/electrical

Angled Socket XELW-4

For mounting on printed circuit boards, touch-protected according to IEC/EN 61010-1. The socket is directly soldered onto printed circuit boards.

The right-angled configuration minimizes the force transmitted to the printed circuit board through the plugged-in test lead. Right-angled Ø 4 mm rigid socket accept-

ing spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Machined brass. **Connection: Ø 2 mm round pin and contacts for mounting on printed circuit boards.**



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|--|----------|----------|
| 66.9040-* | XELW-4 | 1000 V, CAT III / 24 A 600 V, CAT IV / 24 A | Au c us | 21 22 23 |



Assembly instructions MAH561

www.staubli.com/electrical

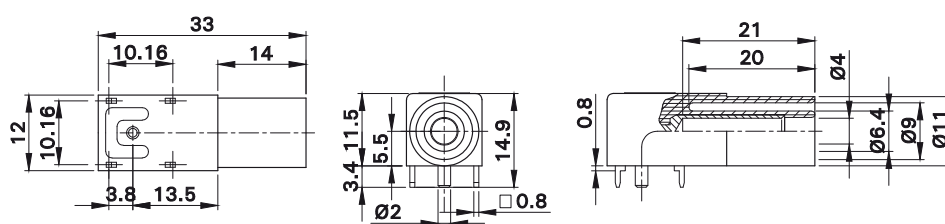
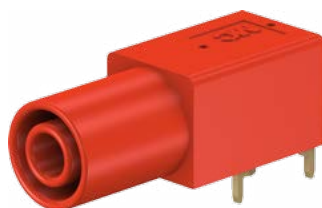
Angled Socket SLB4-I/90

Insulated, right-angled Ø 4 mm rigid socket accepting spring-loaded Ø 4 mm plugs with

rigid insulating sleeve. Machined brass.

Connection: Ø 2 mm round pin and con-

tacts for mounting on printed circuit boards.



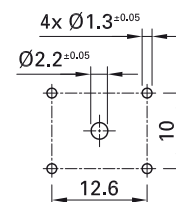
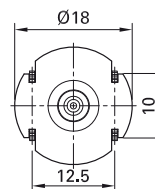
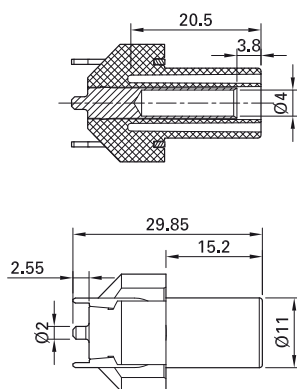
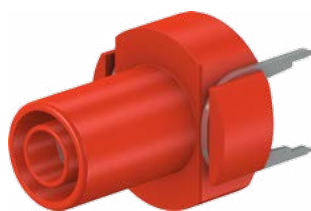
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|-----------|------------------------|----|---------|
| 23.3200-* | SLB4-I/90 | 1000 V, CAT III / 24 A | Au | 21 22 |

In-line Socket XELA-4

For mounting on vertical printed circuit boards, touch-protected and insulated according to IEC/EN61010-1. The socket is directly soldered

onto printed circuit boards. Fixed \varnothing 4 mm socket, to fit spring-loaded \varnothing 4 mm plugs with rigid insulating sleeve. Machined brass.

Connection: \varnothing 2 mm round pin and contacts for mounting on printed circuit boards.



Panel drilling

| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|--|----|---------|
| 66.9032-* | XELA-4 | 1000 V, CAT III / 24 A 600 V, CAT IV / 24 A | Au | 21 22 |



Assembly instructions MAH565

www.staubli.com/electrical

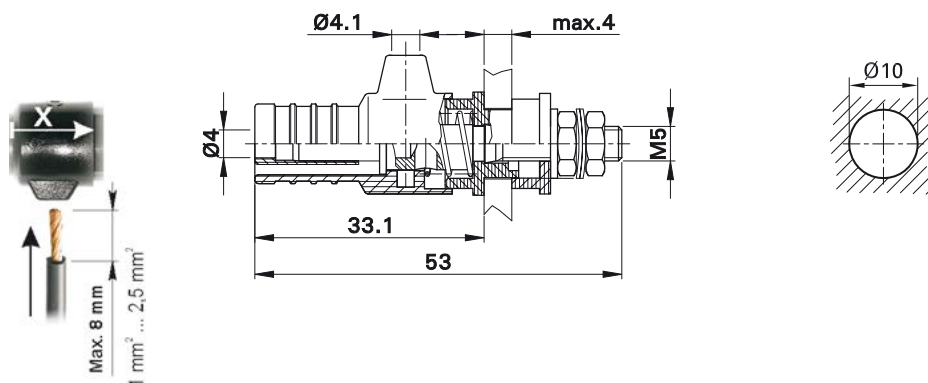
Ø 4 mm Binding Posts

Binding Post SPK4

Insulated, with Ø 4 mm rigid socket accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Ø 3.2 mm cross hole for quick wire connection. Brass. The binding

post is screwed into pre-drilled panels of plastic, metal, etc.

Connection: Threaded bolt M5.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|------|-----------------------|----|---------|
| 23.0410-* | SPK4 | 600 V, CAT II / 32 A | Au | 21 22 |



Assembly instructions MA153

www.staubli.com/electrical

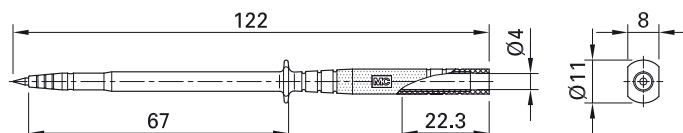
Ø 4 mm Test Probes

Test Probe SPP4-S

Test probe with tapered, stainless steel rigid needle and with handle guard chamfered on

both sides. Ø 4 mm rigid socket in handle accepting spring-loaded Ø 4 mm plugs with

rigid insulating sleeve. Supplied with protective cap.



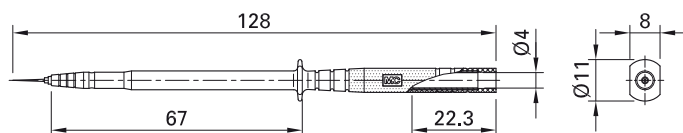
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|-----------------------|----|---------|
| 24.0235-* | SPP4-S | 1000 V, CAT III / 1 A | CE | 21 22 |

Test Probe SPP4-S/F

Spring-loaded stainless steel needle which reacts resiliently under light pressure. Specially suited for sensitive printed circuits.

Test probe with handle guard chamfered on both sides. Ø 4 mm rigid socket in handle accepting spring-loaded Ø 4 mm plugs with

rigid insulating sleeve. Supplied with protective cap.



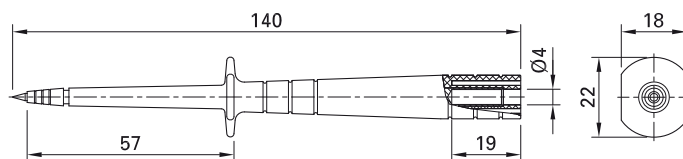
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|----------|-----------------------|----|---------|
| 24.0238-* | SPP4-S/F | 1000 V, CAT II / 1 A | CE | 21 22 |

Test Probe SPP4

Test probe with tapered, stainless steel rigid needle. Handle guard chamfered on both

sides. Ø 4 mm rigid socket in handle accepting spring-loaded Ø 4 mm plugs with

rigid insulating sleeve. Supplied with protective cap.



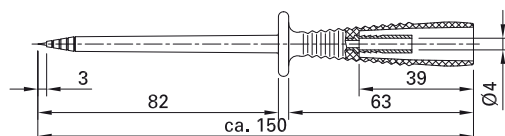
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|------|--|----|---------|
| 24.0231-* | SPP4 | 1000 V, CAT III / 1 A 600 V, CAT IV / 1 A | CE | 21 22 |

Test Probe HP-150/A

With sharply pointed stainless steel tip, e.g. for piercing insulation and paint. Ø 4 mm rigid socket in handle accepting spring-loaded

Ø 4 mm plugs with rigid insulating sleeve. For increased safety the Ø 4 mm rigid socket of HP-150/A is sunk into the handle, ac-

cepting in-line Ø 4 mm plugs. Supplied with protective cap.



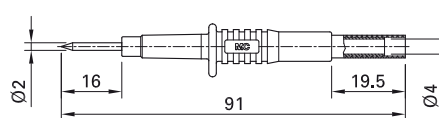
| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|----------|--|------------|-----------------------|
| 66.9113-* | HP-150/A | 1000 V, CAT III / 1 A 600 V, CAT IV / 1 A | CE c UL US | 21 22 |

Test Probe XPP-80/2-16

Polished Ø 2 mm stainless steel tips. Handle guard flattened on one side to prevent rolling. Also allows for close side-by-side

plugging of probes. Ø 4 mm rigid socket in insulator accepting spring-loaded Ø 4 mm

plugs with rigid insulating sleeve. Supplied with protective cap.



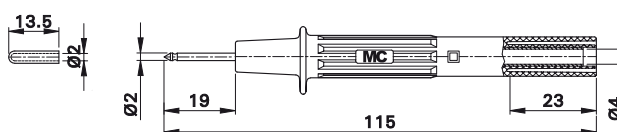
| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|-------------|-----------------------|------------|-----------------------|
| 66.9640-* | XPP-80/2-16 | 1000 V, CAT II / 10 A | CE c UL US | 21 22 |

Test Probe PP-115/2

Polished Ø 2 mm stainless steel tip. Handle guard flattened on one side to prevent rolling. Also allows for close side-by-side

plugging of probes. Ø 4 mm rigid socket in insulator accepting spring-loaded Ø 4 mm

plugs with rigid insulating sleeve. Supplied with protective cap.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|----------|-----------------------|------------|----------|
| 66.9115-* | PP-115/2 | 1000 V, CAT II / 10 A | CE c UL US | 21 22 23 |

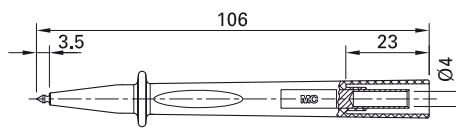
¹⁾ Other colors available on request.

Test Probe BT400

Ø 2 mm, made of Monel®. Ø 4 mm rigid socket in insulator accepting spring-loaded

Ø 4 mm plugs with rigid insulating sleeve.

Monel® is a registered trademark of Special Metals Corporation.

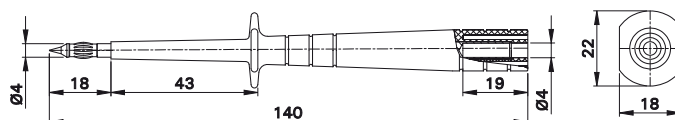


| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|-------|-----------------------|------------|-----------------------|
| 66.9390-* | BT400 | 1000 V, CAT IV / 1 A | CE c UL US | 21 22 23 |

Test Probe SPP4-L

Ø 4 mm, with spring-loaded MULTILAM. Handle guard chamfered on both sides. Ø 4 mm rigid socket in handle accepting

spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Supplied with protective cap.



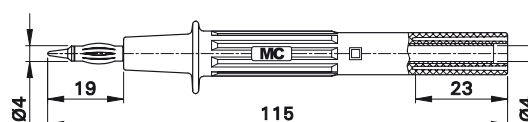
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|-----------------------|----|----------|
| 24.0232-* | SPP4-L | 1000 V, CAT II / 32 A | CE | 21 22 23 |

Test Probe PP-115/4

Ø 4 mm, with spring-loaded MULTILAM. Handle guard flattened on one side to prevent rolling. Also allows for close side-

by-side plugging of probes. Ø 4 mm rigid socket in insulator accepting spring-loaded

Ø 4 mm plugs with rigid insulating sleeve. Supplied with protective cap.



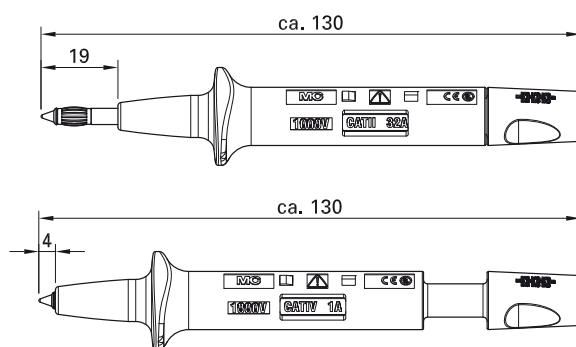
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|----------|-----------------------|------------|-------------|
| 66.9112-* | PP-115/4 | 1000 V, CAT II / 32 A | CE c UL US | 21 22 23 24 |

¹⁾ Other colors available on request.

Test Probe XSAP-4

Ø 4 mm, with spring-loaded MULTILAM, adjustable for use in different measurement categories. Fixed Ø 4 mm socket in insulator,

to fit spring-loaded Ø 4 mm plug with rigid insulating sleeve.



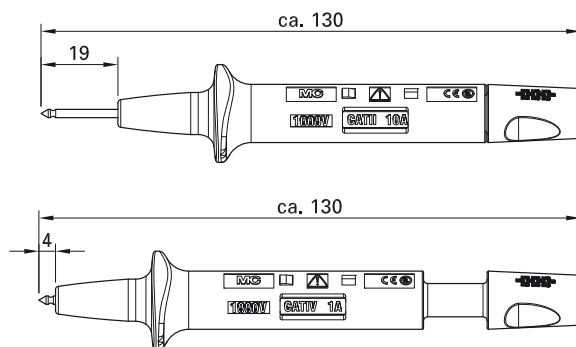
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|---|---------------|----------|
| 66.9313-* | XSAP-4 | 1000 V, CAT II / 32 A 1000 V, CAT IV / 1 A | Ni CE c UL US | 21 22 23 |

Test Probe XSAP-2R

Ø 2 mm, made of Monel®, adjustable for use in different measurement categories. Fixed Ø 4 mm socket in insulator, to fit

spring-loaded Ø 4 mm plug with rigid insulating sleeve.

Monel® is a registered trademark of Special Metals Corporation.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|---------|---|----|----------|
| 66.9330-* | XSAP-2R | 1000 V, CAT II / 10 A 1000 V, CAT IV / 1 A | CE | 21 22 23 |



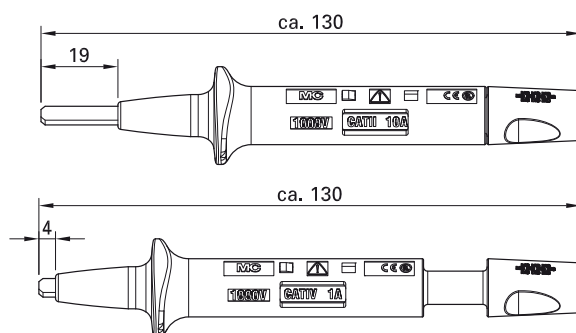
Rating sheet RZ106

www.staubli.com/electrical

Test Probe XSAP-2F

Test probe with flat tip 1,6 mm × 5 mm, made of nickel-plated brass, for contact to US power sockets, etc., adjustable for use in different measurement categories. Fixed

Ø 4 mm socket in insulator, to fit spring-loaded
Ø 4 mm plug with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|---------|---|-------|----------|
| 66.9332-* | XSAP-2F | 1000 V, CAT II / 10 A 1000 V, CAT IV / 1 A | Ni CE | 21 22 23 |



Rating sheet RZ106

www.staubli.com/electrical

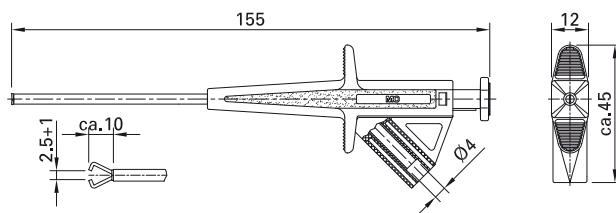
Ø 4 mm Test Clips

Test Clip SKPS-4

With flexible shaft and spring wire grabber (stainless steel) for a good contact to pins and wires in inaccessible places. Especially suitable for measuring voltages. The shaft is

silicone insulated and guarantees good heat resistance and flexibility even at low temperatures. Ø 4 mm rigid socket in handle

accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



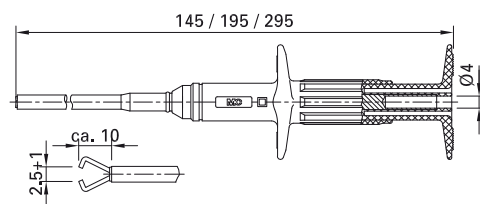
| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|--------|-----------------------|------------|-----------------------|
| 24.0224-* | SKPS-4 | 1000 V, CAT III / 4 A | CE c UL US | 21 22 23 |

Test Clip GRIP-B...

With flexible shaft and spring wire grabber (stainless steel) for a good contact to pins and wires in inaccessible places. Especially suitable for measuring voltages. The shaft

is silicone insulated and guarantees good heat resistance and flexibility even at low temperatures. Ø 4 mm rigid socket in handle accepting spring-loaded Ø 4 mm plugs

with rigid insulating sleeve. Versions with different shaft lengths are available.



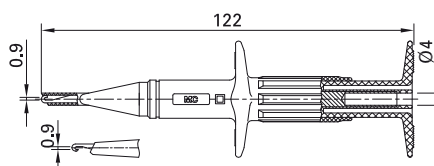
| Order No. | Type | Rated voltage/current | Length of shaft / clip | | *Colors ¹⁾ |
|-----------|------------|-----------------------|------------------------|------------|-----------------------|
| 66.9120-* | GRIP-B/50 | 1000 V, CAT III / 1 A | 50 mm / 145 mm | CE c UL US | 21 22 23 |
| 66.9117-* | GRIP-B/100 | 1000 V, CAT III / 1 A | 100 mm / 195 mm | CE c UL US | 21 22 23 |
| 66.9118-* | GRIP-B/200 | 1000 V, CAT III / 1 A | 200 mm / 295 mm | CE c UL US | 21 22 23 |

¹⁾ Other colors available on request.

Test Clip GRIP-A

With rigid hook clip made of steel for hooking onto wires. Ø 4 mm rigid socket in handle

accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



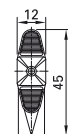
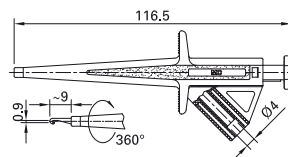
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|-----------------------|------------|----------|
| 66.9116-* | GRIP-A | 1000 V, CAT III / 3 A | CE c UL us | 21 22 23 |

Test Clip SKPS-4/A

With rigid hook clip made of steel for hooking onto wires. Rotatable through

360° around the longitudinal axis of the test probe. Ø 4 mm rigid socket in handle

accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



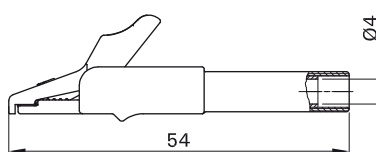
| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|----------|-----------------------|---------------|-----------------------|
| 66.9416-* | SKPS-4/A | 1000 V, CAT III / 4 A | Ni CE c UL us | 21 22 23 |

Crocodile Clip SAGK4-K

Small, slim, made of brass with all-round insulation. Toothed jaws for wide grip with

surface for fine wire. Ø 4 mm rigid socket in insulator accepting spring-loaded Ø 4 mm

plugs with rigid insulating sleeve.



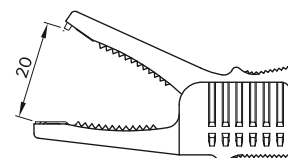
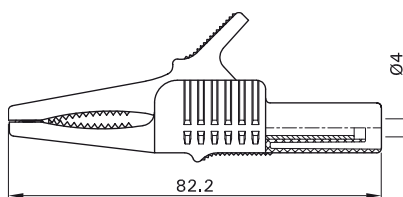
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|---------|-----------------------|-------|----------|
| 24.0157-* | SAGK4-K | 300 V, CAT II / 15 A | Ni CE | 21 22 23 |

¹⁾ Other colors available on request.

Crocodile Clip XKK-1001

Made of brass with all-round insulation. Toothed jaws for wide grip with surface for fine wire. Ø 4 mm rigid socket in insulator

accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

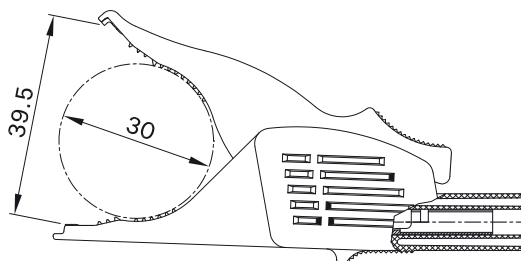
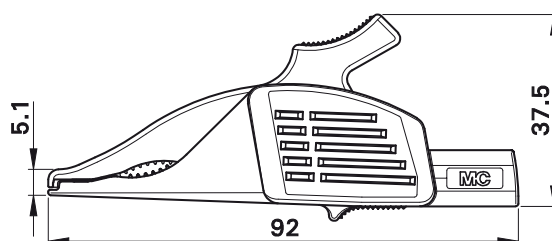


| Order No. | Type | Rated voltage/current | | *Colors | | | | | | | | | | |
|-----------|----------|-----------------------|---------------|---|----|----|----|----|----|----|----|----|----|--|
| 66.9755-* | XKK-1001 | 1000 V, CAT II / 32 A | Ni CE c UL US | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>29</td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 29 | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 29 | | | | | | | | | | | |

Dolphin Clip XDK-1033

Made of brass with all-round insulation. Toothed jaws for wide grip with surface for fine wire. Ø 4 mm rigid socket in insulator

accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

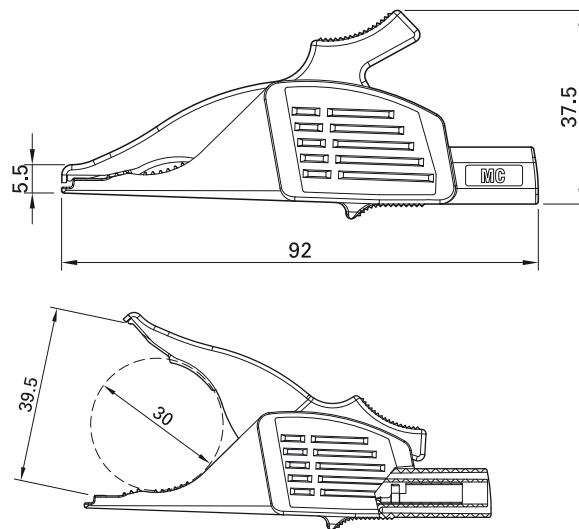


| Order No. | Type | Rated voltage/current | | *Colors | | | | | | | | | | |
|-----------|----------|------------------------|---------------|---|----|----|----|----|----|----|----|----|----|--|
| 66.9575-* | XDK-1033 | 1000 V, CAT III / 32 A | Ni CE c UL US | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>29</td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 29 | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 29 | | | | | | | | | | | |

Dolphin Clip XDK-1033/I-2

With all-round insulation. The upper jaw is non-conductive to prevent accidental short-circuits on contact with the mouth open. This development of our established dolphin clip features a soft TPE inlay in the top jaw, facilitating an especially strong

adhesion grip. The insulation in this version also allows it to be used in the measurement category CAT IV.



| Order No. | Type | Rated voltage/current | | *Colors | | | | | | | | | | |
|-----------|--------------|--|---------------|---|----|----|----|----|----|----|----|----|----|--|
| 66.9561-* | XDK-1033/I-2 | 1000 V, CAT III / 19 A 600 V, CAT IV / 19 A | Ni CE c UL US | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>29</td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 29 | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 29 | | | | | | | | | | | |

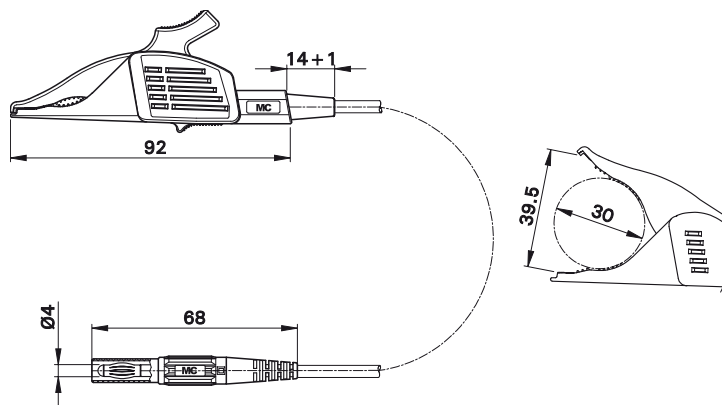


The varied grip options for our dolphin clips.

Test Clip Lead XDLS-418

Highly flexible. One end with dolphin clip with all-round insulation, toothed jaws for wide grip and surface for fine wire. The other

end with Ø 4 mm MULTILAM plug with rigid insulating sleeve.

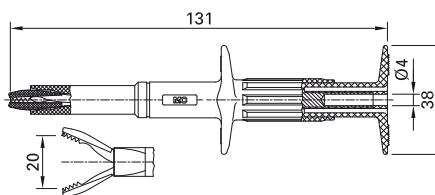
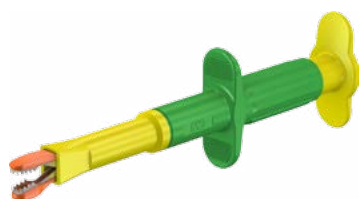


| Order No. | Type | Rated voltage/current | Lead | | Lead length [cm] | *Colors |
|--------------|----------|------------------------|-------------------------|-------|------------------|----------------------|
| 66.9531-150* | XDLS-418 | 1000 V, CAT III / 32 A | PVC 2,5 mm ² | Ni CE | 150 | 20 21 22 23 24 25 |

Test Clip GRIP-CI

With steel jaws especially for connections to ground rails and thick cables. For increased safety when making connections, the jaws

are insulated on the outside. Ø 4 mm rigid socket in handle accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | | *Colors ¹⁾ |
|-----------|---------|------------------------|--|---------------|-----------------------|
| 66.9121-* | GRIP-CI | 1000 V, CAT III / 16 A | | Ni CE c UL US | 20 21 22 23 24 25 |

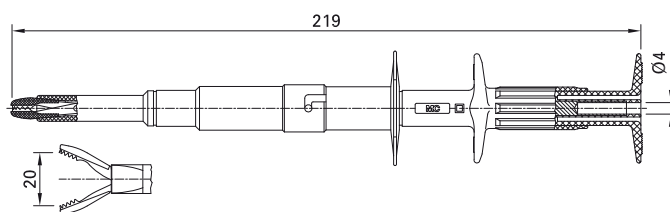
¹⁾ Other colors available on request.

Test Clip GRIP-DI

With steel jaws especially for connections to ground rails and thick cables. For increased safety when making connections, the jaws are insulated on the outside. Ø 4 mm rigid socket in handle accepting spring-loaded

Ø 4 mm plugs with rigid insulating sleeve. Transparent fuse holder sleeve to accept a high-rating fuse 10 mm x 38 mm.

The fuse is not supplied.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|---------|---|-----------------------------|----------------------|
| 66.9266-* | GRIP-DI | 1000 V, CAT III / max. 16 A ¹⁾ | Ni CE c UL ²⁾ US | 21 22 23 24 25 26 |



¹⁾ Depends on the fuse used.

²⁾ Only if used with UL approved fuses.



High breaking capacity fuse: page 110



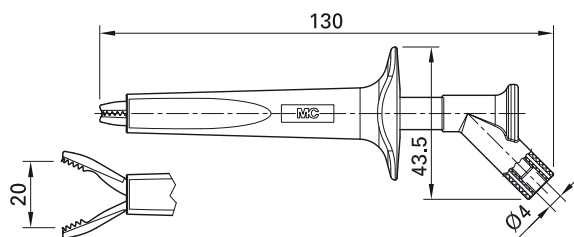
Rating sheet RZ068

www.staubli.com/electrical

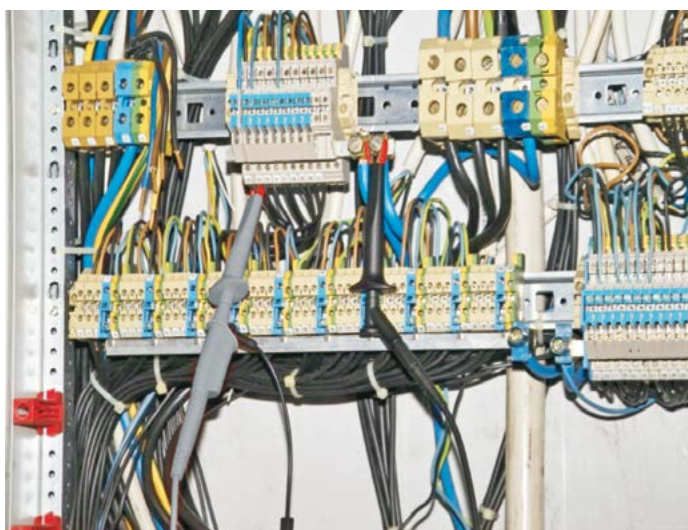
Test Clip AB200

With steel jaws especially for connections to ground rails and thick cables. For increased safety when making contacts, the jaws

are insulated on the outside. Ø 4 mm rigid socket in handle accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|-------|-----------------------|---------------|-----------------------|
| 66.9474-* | AB200 | 1000 V, CAT IV / 16 A | Ni CE c UL US | 21 22 23 |



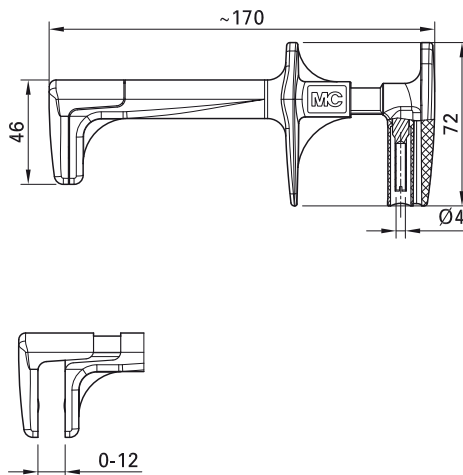
¹⁾ Other colors available on request.

Flat Test Clip GRIP-FMA

For fast and safe contacting on busbars, for example for the synchronization for stand-by power units. Powerful contacting on the

front and rear of the busbars by means of our established MULTILAM. Fixed Ø 4 mm socket in the pressure grip handle section,

to fit spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

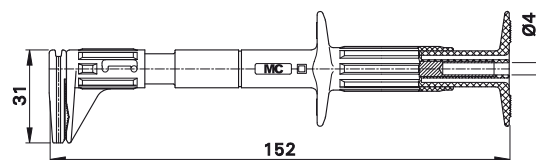
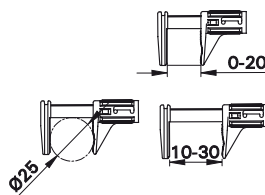


| Order No. | Type | Rated voltage/current | | Color |
|------------|----------|-----------------------|----|-------|
| 66.9435-21 | GRIP-FMA | 1000 V, CAT IV / 32 A | CE | 21 |

Flat Test Clip GRIP-F

For making quick, secure contact during voltage measurements. With adjustable stop. Ø 4 mm rigid socket in handle accept-

ing spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



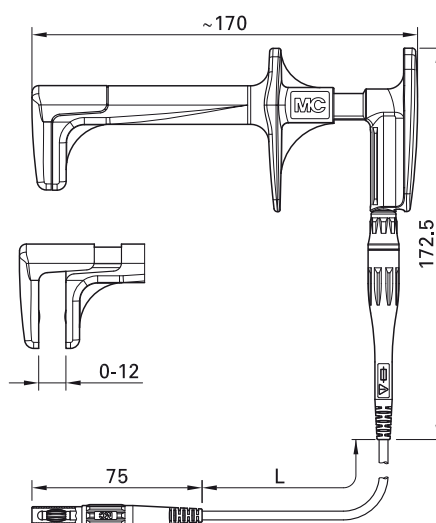
| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|-----------------------|---------------|----------------------|
| 66.9829-* | GRIP-F | 600 V, CAT III / 5 A | Ni CE c UL US | 21 22 23 24 25 26 |

Fused Test Clip Lead GRIP-FMA/XSM...-419

Highly flexible, with insulation in PVC or silicone, on one end with a flat test clip for quick and safe contacting, on the other end an in-line Ø 4 mm MULTILAM plug with rigid insulation sleeve.

The two-part screw connector accepts a high breaking capacity fuse measuring 6.3 x 32 mm.

The fuse is not supplied, see page 110.



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] | Color |
|---------------|-------------------|---|-------------------------|----|---------------------|-------|
| 66.9429-15021 | GRIP-FMA/XSMF-419 | 1000 V, CAT IV / max. 8 A ¹⁾ | PVC 1,0 mm ² | CE | 150 | 21 |
| 66.9430-15021 | GRIP-FMA/XSMS-419 | 1000 V, CAT IV / max. 8 A ¹⁾ | SIL 1,0 mm ² | CE | 150 | 21 |

¹⁾ Depends on the fuse used.



High Breaking Capacity Fuses: page 110



Rating sheet RZ111

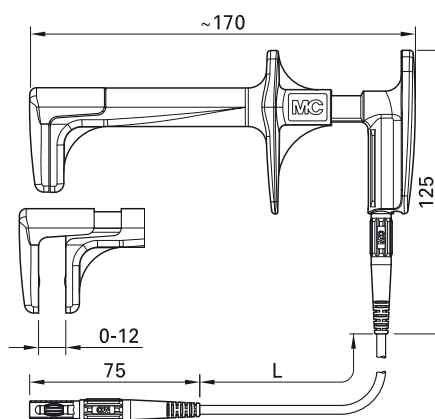
www.staubli.com/electrical



Test Clip Lead GRIP-FMA/XM...-419

Highly flexible, with insulation in PVC or silicone, on one end with a flat test clip for quick and safe contacting, on the other end

an in-line Ø 4 mm MULTILAM plug with rigid insulation sleeve.



| Order No. | Type | Rated voltage/current | Lead | | Lead lengths L [cm] | Color |
|---------------|------------------|-----------------------|-------------------------|----|---------------------|-------|
| 66.9377-15021 | GRIP-FMA/XMF-419 | 1000 V, CAT IV / 32 A | PVC 2,5 mm ² | CE | 150 | 21 |
| 66.9378-15021 | GRIP-FMA/XMS-419 | 1000 V, CAT IV / 32 A | SIL 2,5 mm ² | CE | 150 | 21 |

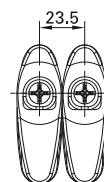
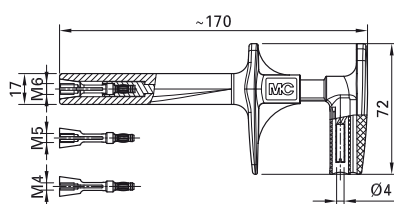
Single-collet Plier GRIP-ESZ...

For fast and safe contacting to M4, M5, or M6 threaded bolts, for example on motor connections (contact depth 3 to 6 mm). Fixed Ø 4 mm socket in the pressure section,

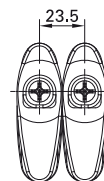
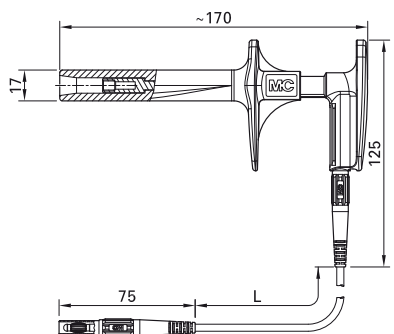
to fit spring-loaded Ø 4 mm plugs with rigid insulating sleeve or as a lead outlet with in-line Ø 4 mm MULTILAM plug and rigid insulating sleeve. Thread inserts are replaceable

and available separately. The current depends on the thread insert.

GRIP-ESZ...



GRIP-ESZ/XM...-419



Rating sheet RZ112

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| Order No. | Type | Rated voltage/current | Plier insert | Thread | Lead lengths L [cm] | | Color |
|---------------|------------------|----------------------------|--------------|--------|---------------------|--------|-------|
| 66.9446-21 | GRIP-ESZ4 | 1000 V, CAT IV / 20 A | Z4 | M4 | – | CE | 21 |
| 66.9447-21 | GRIP-ESZ5 | 1000 V, CAT IV / 30 A | Z5 | M5 | – | CE | 21 |
| 66.9448-21 | GRIP-ESZ6 | 1000 V, CAT IV / 32 A | Z6 | M6 | – | CE | 21 |
| 66.9445-21 | GRIP-ESZ | 1000 V, CAT IV / max. 32 A | without | – | – | CE | 21 |
| 66.9436-15021 | GRIP-ESZ/XMF-419 | 1000 V, CAT IV / max. 32 A | without | – | 150 | PVC CE | 21 |
| 66.9437-15021 | GRIP-ESZ/XMS-419 | 1000 V, CAT IV / max. 32 A | without | – | 150 | SIL CE | 21 |

Individual parts

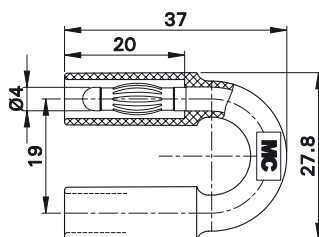


| | | | | |
|---------|--------|------|---------------------------|----|
| 10.0804 | Z4 | 20 A | Plier insert | M4 |
| 10.0805 | Z5 | 30 A | Plier insert | M5 |
| 10.0806 | Z6 | 32 A | Plier insert | M6 |
| 10.0807 | ESZ-WZ | – | Cross-slotted screwdriver | |

Ø 4 mm Connecting Plugs and Sockets

Connecting Plug SKS4-19L

Insulated, Ø 4 mm, made of brass. Plugs with spring-loaded MULTILAM and rigid insulating sleeves.



| Order No. | Type | Rated voltage/current | Plug spacing | | Color |
|------------|----------|-----------------------|--------------|-------|-------|
| 24.0023-21 | SKS4-19L | 1000 V, CAT II / 32 A | 19 mm | Au CE | 21 |

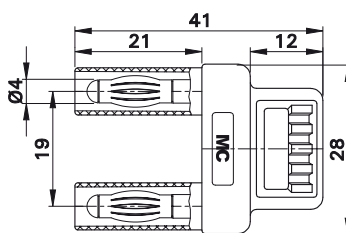


Rating sheet RZ006

www.staubli.com/electrical

Connecting Plug XVB-4/19

Insulated Ø 4 mm, made of brass. Plugs with spring-loaded MULTILAM and rigid insulating sleeves. With insulated grip.



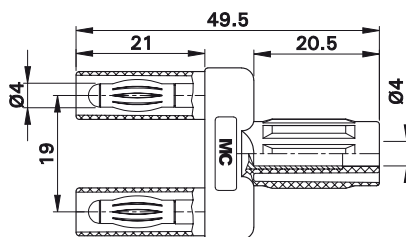
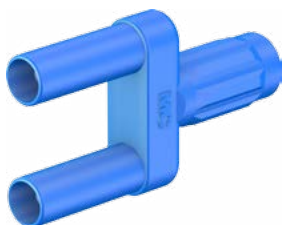
| Order No. | Type | Rated voltage/current | Plug spacing | | *Colors |
|-----------|----------|-----------------------|--------------|-------|----------|
| 66.9171-* | XVB-4/19 | 1000 V, CAT II / 32 A | 19 mm | Ni CE | 21 22 23 |

Connecting Plug XVBB-4/19

Insulated, Ø 4 mm, made of brass. Plugs with spring-loaded MULTILAM and rigid

insulating sleeves. Insulated grip with integrated Ø 4 mm rigid socket accepting

spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

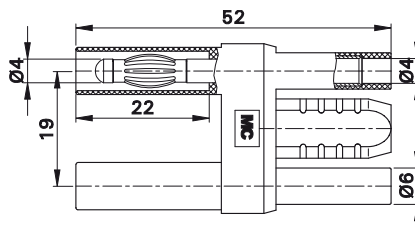


| Order No. | Type | Rated voltage/current | Plug spacing | | *Colors |
|-----------|-----------|-----------------------|--------------|-------|----------|
| 66.9172-* | XVBB-4/19 | 1000 V, CAT II / 32 A | 19 mm | Ni CE | 21 22 23 |

Connecting Plug SKS4-19L/1

Insulated, Ø 4 mm, made of brass. Plugs with spring-loaded MULTILAM and rigid insulating sleeves. With insulated grip and

with two in-line Ø 4 mm rigid sockets accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | Plug spacing | | Color |
|------------|------------|-----------------------|--------------|-------|-------|
| 24.0028-21 | SKS4-19L/1 | 1000 V, CAT II / 32 A | 19 mm | Ni CE | 21 |



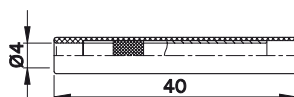
Rating sheet RZ006

www.staubli.com/electrical



Lead Coupler KK4/4

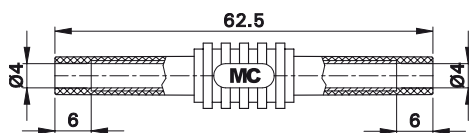
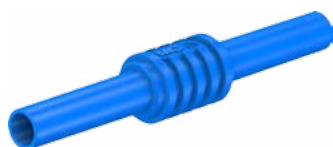
Insulated, made of brass. Both ends suitable for accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|-------|-----------------------|-------|-------------|
| 24.0142-* | KK4/4 | 1000 V, CAT II / 32 A | Au CE | 21 22 23 24 |

Lead Coupler XHK

Insulated, made of brass. Both ends suitable for accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|------|-----------------------|------------|-----------------------|
| 66.9123-* | XHK | 1000 V, CAT II / 32 A | CE c UL US | 21 22 23 24 25 |

¹⁾ Other colors available on request.



Rating sheet RZ006

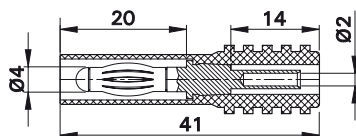
www.staubli.com/electrical

Ø 4 mm Adapters

Reducer Adapter XA-2/4

Ø 4 mm plug, made of brass, with spring-loaded MULTILAM and with rigid insulating sleeve. Ø 2 mm rigid socket in insu-

lator accepting spring-loaded Ø 2 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|-----------------------|-------|----------|
| 65.9192-* | XA-2/4 | 600 V, CAT III / 10 A | Ni CE | 21 22 23 |



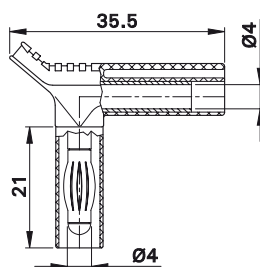
Rating sheet RZ001

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Right-angle Plug Adapter XWA-4/19

Insulated, made of brass. Ø 4 mm plug with spring-loaded MULTILAM and with rigid insulating sleeve and Ø 4 mm rigid socket accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. This right-angle

plug adapter is suitable in particular for instruments with front panel sockets where the lead can be fitted with the maximum of convenience.



| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|----------|--|-------|-----------------------|
| 66.9694-* | XWA-4/19 | 1000 V, CAT II / 20 A 600 V, CAT III / 20 A | Ni CE | 21 22 23 |

¹⁾ Other colors available on request.

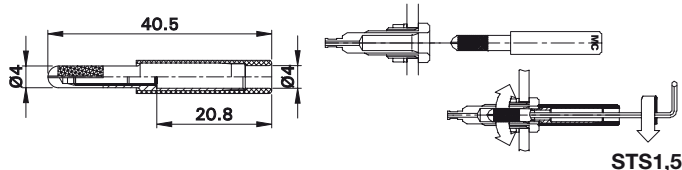
Screw-clamping Adapter A-SLK4...

Adapter, made of brass can be screw-mounted into Ø 4 mm sockets. The expandable Ø 4 mm plug of this adapter can be locked

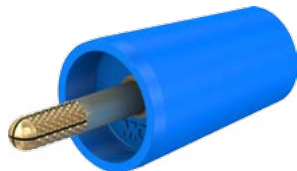
into the socket by tightening the grub screw. Assembled, the adapter offers complete touch-proof protection. Ø 4 mm rigid

socket in insulator accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

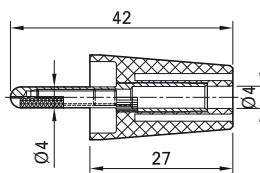
A-SLK4-S



A-SLK4



A-SLK4-N



| Order No. | Type | Rated voltage/current | Rating sheet | | *Colors |
|-----------|----------|-----------------------|--------------|----|----------------------------------|
| 24.0163-* | A-SLK4-S | 1000 V, CAT II / 25 A | RZ011 | Ni | 21 22 23 24 |
| 24.0160-* | A-SLK4 | 1000 V, CAT II / 32 A | RZ010 | Au | 20 21 22 23 24 25 26 27 28 29 |
| 24.0161-* | A-SLK4-N | 1000 V, CAT II / 32 A | RZ010 | Ni | 20 21 22 23 24 25 26 27 28 29 |



Hexagon wrench STS1,5: page 108



Rating sheet RZ010, RZ011

www.staubli.com/electrical



Assembly instructions MA115

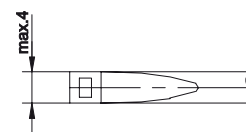
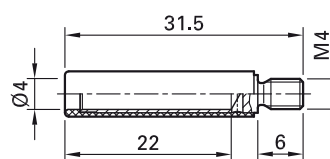
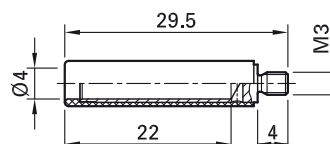
www.staubli.com/electrical

Screw-in Adapter B4-E-M...

Insulated, with external thread for screw connection to threaded holes. Machined brass.

Ø 4 mm rigid socket in insulator accepting spring-loaded Ø 4 mm plugs with rigid

insulating sleeve. Socket with internal slot for screwdriver.



Screwdriver

| Order No. | Type | Rated voltage/current | Thread | | *Colors |
|-----------|-----------|-----------------------|--------|----|-------------|
| 23.1031-* | B4-E-M3-I | 600 V, CAT II / 32 A | M3 | Ni | 21 22 23 24 |
| 23.1033-* | B4-E-M4-I | 600 V, CAT II / 32 A | M4 | Ni | 21 22 23 24 |

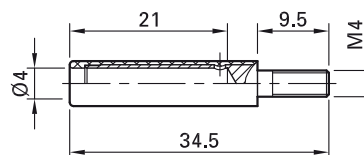
Component parts

| | | |
|-----------|---------|-----------------------------------|
| 24.5012-* | I-A2/4 | Insulator (*Colors see B4-E-M...) |
| 23.5076 | B4-E-M3 | Socket suitable for: B4-E-M3-I |
| 23.5082 | B4-E-M4 | Socket suitable for: B4-E-M4-I |

Screw-in Adapter LB4-G/M4

Insulated, with external thread for screw connection to threaded holes. Machined brass. Ø 4 mm rigid socket in insulator

accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | Thread | | *Colors |
|-----------|----------|-----------------------|--------|----|-------------|
| 23.0280-* | LB4-G/M4 | 600 V, CAT II / 32 A | M4 | Ni | 21 22 23 24 |



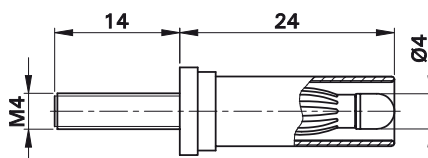
Rating sheet RZ119

www.staubli.com/electrical

Screw-in Adapter SA400-VI

Insulated, with M4 threaded bolt for screw connection to threaded holes. Machined brass. Ø 4 mm MULTILAM plug with rigid

insulating sleeve. The adapter is supplied without fastening material.

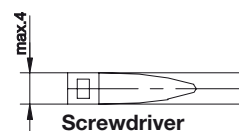
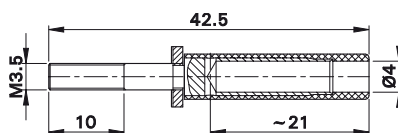


| Order No. | Type | Rated voltage/current | | *Colors | | | | | | | | | | |
|-----------|----------|-----------------------|----|---|----|----|----|----|----|----|----|----|----|--|
| 24.0117-* | SA400-VI | 600 V, CAT II / 32 A | Au | <table border="1"> <tr> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td></td> </tr> </table> | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | |
| 21 | 22 | 23 | 24 | 25 | | | | | | | | | | |
| 26 | 27 | 28 | 29 | | | | | | | | | | | |

Screw-in Adapter A-SLK4-RS

Insulated, with M3.5 external thread for connecting to rail mounted terminals with M3.5 threaded holes. Machined brass. Ø 4 mm rigid socket in insulator accepting

spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Socket with internal slot for screwdriver.



| Order No. | Type | Rated voltage/current | | *Colors | | | | |
|-----------|-----------|-----------------------|----|--|----|----|----|----|
| 24.0168-* | A-SLK4-RS | 1000 V, CAT II / 25 A | Ni | <table border="1"> <tr> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> </table> | 21 | 22 | 23 | 24 |
| 21 | 22 | 23 | 24 | | | | | |



Rating sheet RZ009

www.staubli.com/electrical

Adapter A-SLK4-R

Insulated flexible copper conductor, suitable for many types of screw clamp connections, e.g. rail mounted terminals. Ø 4 mm rigid

socket in insulator, made of brass, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | Color |
|------------|----------|-----------------------|----|-------|
| 24.0162-21 | A-SLK4-R | 1000 V, CAT II / 32 A | Ni | 21 |

Adapter XRKA

Insulated flexible copper conductor, suitable for many types of screw clamp connections, e.g. rail mounted terminals. Ø 4 mm rigid

socket in insulator, made of brass, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|------|-----------------------|----|----------------------------|
| 66.9135-* | XRKA | 1000 V, CAT II / 32 A | Ni | 21 22 23 24 25 26 27 29 |



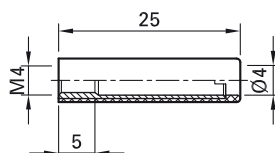
Rating sheet RZ010

www.staubli.com/electrical

Screw-on Adapter B4-E-IM4-I

Insulated, with M4 internal thread for screw connection to threaded bolts. Machined brass. Ø 4 mm rigid socket in insulator accepting spring-loaded Ø 4 mm plugs with

rigid insulating sleeve. Socket with slotted head for screwdriver.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|------------|-----------------------|----|-------------|
| 23.1035-* | B4-E-IM4-I | 600 V, CAT II / 32 A | Ni | 21 22 23 24 |

Component parts

| | | |
|-----------|----------|-----------------------------------|
| 24.5012-* | I-A2/4 | Insulator (*Colors see B4-E-M...) |
| 23.5088 | B4-E-IM4 | Uninsulated adapter |



Rating sheet RZ119

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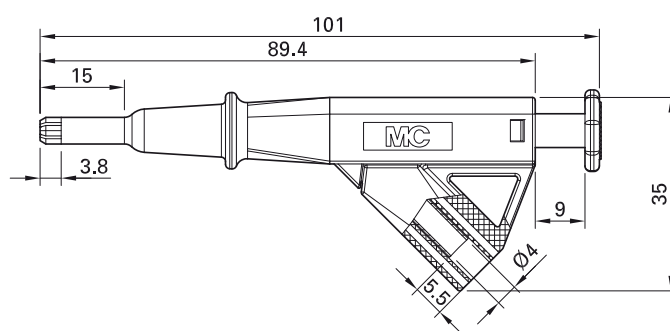
Screw-clamping Adapter VARIOGRIP-...

For fast, safe connection to screws/bolts with internal hexagon. Twisting the button on the back of the handle spreads the hexagonal tip so that the adapter fits firmly into internal hexagons with 5 mm or 6 mm wrench size. This results in multiple contact

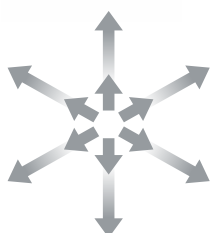
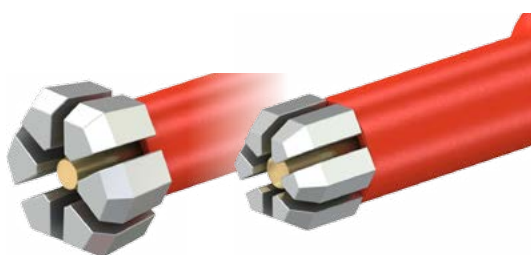
points that enable low contact resistance. The adapter can also be operated by hand when under load. The fixed Ø 4 mm socket in insulator is suitable for fitting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

Two different designs:

- 5 mm design with gray button
- 6 mm design with black button



| Order No. | Type | Rated voltage/current | Internal hexagon | | *Colors |
|-----------|-------------|-----------------------|------------------|-------|----------|
| 66.9055-* | VARIOGRIP-5 | 600 V, CAT IV / 24 A | 5 mm | Ni CE | 21 22 23 |
| 66.9056-* | VARIOGRIP-6 | 600 V, CAT IV / 24 A | 6 mm | Ni CE | 21 22 23 |

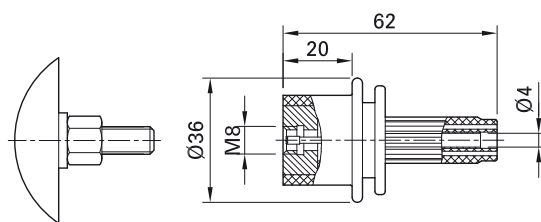


Screw-on Adapters GBSA/M...

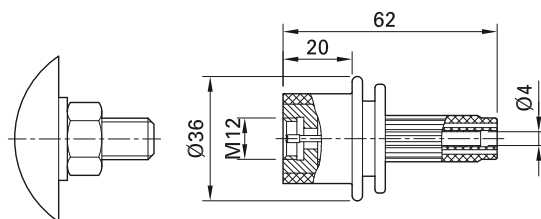
Insulated, with internal thread for rapid and safe contact to threaded bolts. Contact is made by a spring-loaded tip. Ø 4 mm rigid socket in insulator accepting spring-loaded

Ø 4 mm plugs with rigid insulating sleeve. Machined brass. Body nickel-plated, connecting socket and contact tip gold-plated.

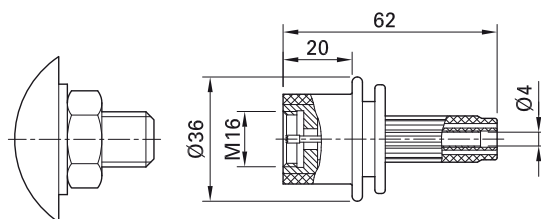
GBSA/M8



GBSA/M12



GBSA/M16

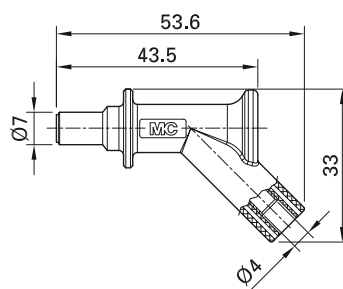


| Order No. | Type | Rated voltage/current | Thread | | *Colors (only color ring) | | | | | | | | | | |
|-----------|----------|-----------------------|--------|----------|---|----|----|----|----|----|----|----|----|----|----|
| 20.2040-* | GBSA/M8 | 1000 V, CAT IV / 1 A | M8 | Au Ni CE | <table border="1"> <tr> <td>20</td><td>21</td><td>22</td><td>23</td><td>24</td> </tr> <tr> <td>25</td><td>26</td><td>27</td><td>28</td><td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |
| 20.2000-* | GBSA/M12 | 1000 V, CAT IV / 1 A | M12 | Au Ni CE | <table border="1"> <tr> <td>20</td><td>21</td><td>22</td><td>23</td><td>24</td> </tr> <tr> <td>25</td><td>26</td><td>27</td><td>28</td><td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |
| 20.2010-* | GBSA/M16 | 1000 V, CAT IV / 1 A | M16 | Au Ni CE | <table border="1"> <tr> <td>20</td><td>21</td><td>22</td><td>23</td><td>24</td> </tr> <tr> <td>25</td><td>26</td><td>27</td><td>28</td><td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | | |

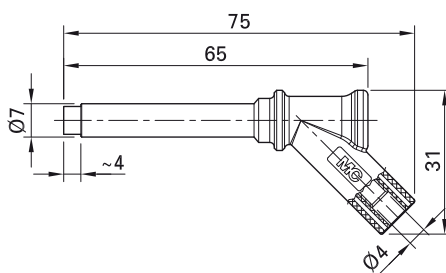
Magnetic Adapter XMA-...

For connection of screw heads with rigid Ø 4 mm socket in insulator, suitable for mating with spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

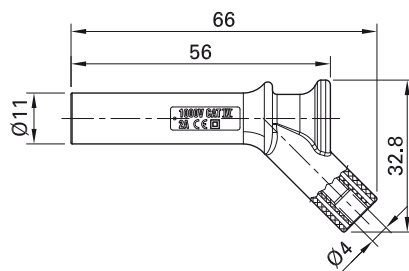
XMA-7



XMA-7L



XMA-11

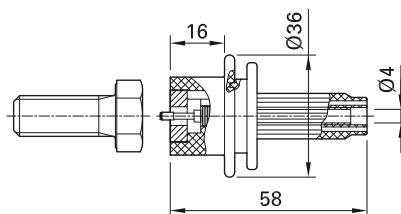


| Order No. | Type | Rated voltage/current | Diameter of magnet | | *Colors |
|-----------|--------|--|--------------------|-------|----------|
| 66.9516-* | XMA-7 | 1000 V, CAT III / 2 A 600 V, CAT IV / 2 A | Ø 7 mm | Ni CE | 21 22 23 |
| 66.9509-* | XMA-7L | 1000 V, CAT IV / 2 A | Ø 7 mm | Ni CE | 21 22 23 |
| 66.9515-* | XMA-11 | 1000 V, CAT IV / 2 A | Ø 11 mm | Ni CE | 21 22 23 |

Magnetic Adapter MSA

Magnetic contact with spring-loaded tip to be used with magnetic steel bolts. Ø 4 mm rigid socket in insulator, made of brass, ac-

cepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Connecting socket and contact tip are gold-plated.



| Order No. | Type | Rated voltage/current | | *Colors (only color ring) | | | | | | | | | | |
|-----------|------|-----------------------|-------|---|----|----|----|----|----|----|----|----|----|----|
| 20.2020-* | MSA | 1000 V, CAT IV / 1 A | Au CE | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |



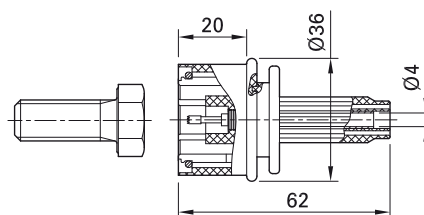
Rating sheet RZ034

www.staubli.com/electrical

Self-gripping Adapter GKSA/M12

With spring-loaded tip for M12 hex. screw heads. Ø 4 mm rigid socket in insulator,

made of brass, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

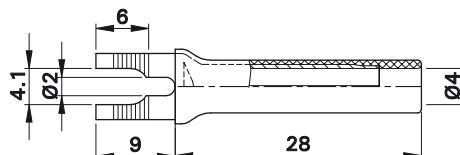


| Order No. | Type | Rated voltage/current | | *Colors (only color ring) | | | | | | | | | | |
|-----------|----------|-----------------------|-------|---|----|----|----|----|----|----|----|----|----|----|
| 20.2030-* | GKSA/M12 | 1000 V, CAT IV / 1 A | Au CE | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |

Cable Lug Adapter B4-I/KS

Made of brass for permanent installation, e.g. for connecting screw terminals. \varnothing 4 mm rigid socket in insulator accepting

spring-loaded \varnothing 4 mm plugs with rigid insulating sleeve. Fork lug can be bent once to 90° .



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|---------|-----------------------|----|-------------|
| 23.0480-* | B4-I/KS | 1000 V, CAT II / 20 A | Ni | 21 22 23 24 |



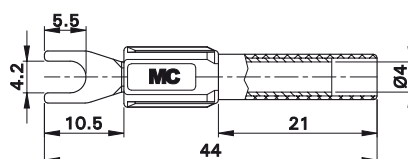
Rating sheet RZ011


www.staubli.com/electrical

Cable Lug Adapter XKS-4

Made of brass. Fork is made of tin-plated copper. For permanent installation, e.g. for connecting screw terminals. \varnothing 4 mm rigid

socket in insulator accepting spring-loaded \varnothing 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|-------|-----------------------|--|-----------------------|
| 66.9690-* | XKS-4 | 1000 V, CAT II / 20 A | Sn  ²⁾ | 21 22 23 |

¹⁾ Other colors available on request.

²⁾ UL-Listing up to 10 A!



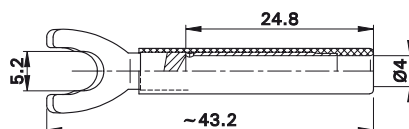
Rating sheet RZ011

www.staubli.com/electrical

Cable Lug Adapter B4-I/KA

Made of brass for permanent installation, e.g. for connecting screw terminals. Ø 4 mm rigid socket in insulator accepting

spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Fork lug bent to an angle of 45°.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|---------|-----------------------|----|-------------|
| 23.0440-* | B4-I/KA | 1000 V, CAT II / 20 A | Au | 21 22 23 24 |



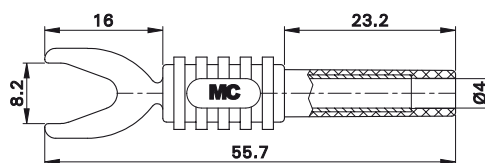
Rating sheet RZ011

www.staubli.com/electrical

Cable Lug Adapter XKS-A

Made of brass for permanent installation, e.g. for connecting screw terminals. Ø 4 mm rigid socket in insulator accepting

spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Fork lug can be bent once to 45°.



| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|-------|-----------------------|----|-----------------------|
| 66.9126-* | XKS-A | 1000 V, CAT II / 20 A | Ni | 21 22 23 |

¹⁾ Other colors available on request.



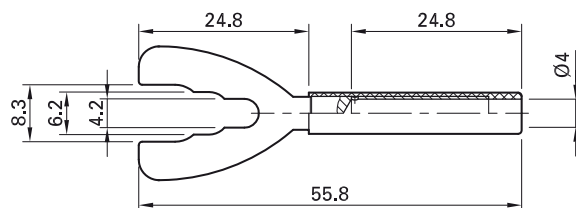
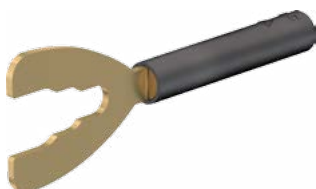
Rating sheet RZ011

www.staubli.com/electrical

Cable Lug Adapter B4-I/K

Made of brass for permanent installation, e.g. for connecting screw terminals. Ø 4 mm rigid socket in insulator accepting

spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|--------|-----------------------|----|-------------|
| 23.5065-* | B4-I/K | 1000 V, CAT II / 32 A | Au | 21 22 23 24 |



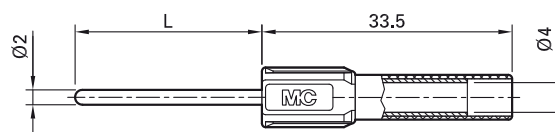
Rating sheet RZ010

www.staubli.com/electrical

Round Brass Pin ZPS-20/...

Solid, especially suitable for the screw connection to electricity meter clips. Ø 4 mm rigid socket in insulator, accepting spring-loaded Ø 4 mm plugs with rigid

insulating sleeve. Available in different pin diameters D and lengths L.



| Order No. | Type | Rated voltage/current | Length (L) | | *Colors |
|-----------|-----------|-----------------------|------------|----|-------------------------|
| 66.9076-* | ZPS-20/25 | 600 V, CAT II / 19 A | 25 mm | Ni | 21 22 23 24 25 26 27 |
| 66.9082-* | ZPS-20/40 | 600 V, CAT II / 19 A | 40 mm | Ni | 21 22 23 24 25 26 27 |



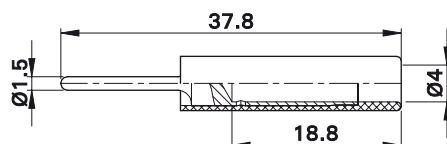
Rating sheet RZ004

www.staubli.com/electrical

Round Brass Pin B4-I/S1,5

Solid, especially suitable for the screw connection to electricity meter clips. Can be bent once to 90°. Ø 4 mm rigid socket in

insulator, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|-----------|-----------------------|----|-------------|
| 23.0240-* | B4-I/S1,5 | 1000 V, CAT II / 20 A | Ni | 21 22 23 24 |



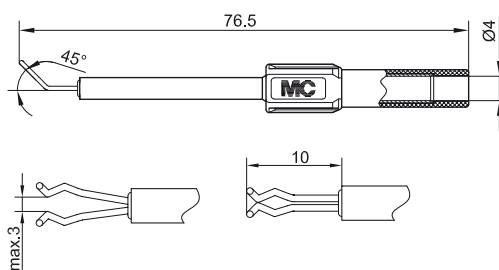
Rating sheet RZ011

www.staubli.com/electrical

Spring Clip ZPK-45

For the quick connection to electricity meter clips. Spring clip bent to an angle of 45°. The shaft is insulated by a shrink-on sleeve.

Ø 4 mm rigid socket in insulator, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | *Colors ¹⁾ |
|-----------|--------|-----------------------|----|-----------------------|
| 66.9044-* | ZPK-45 | 600 V, CAT II / 1 A | Ni | 21 22 |

¹⁾ Other colors available on request.



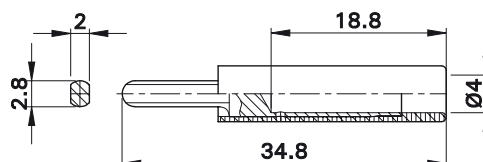
Rating sheet RZ018

www.staubli.com/electrical

Brass Pin B4-I/S2,8x2

Solid, especially suitable for connecting to narrow-type relays. Ø 4 mm rigid socket in insulator, accepting spring-loaded Ø 4 mm

plugs with rigid insulating sleeve.
Connecting pin: 2.8 mm x 2 mm.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|-------------|-----------------------|----|-------------|
| 20.0010-* | B4-I/S2,8x2 | 1000 V, CAT II / 20 A | Ni | 21 22 23 24 |



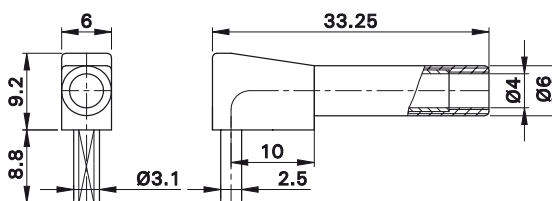
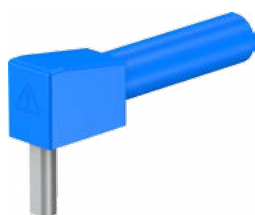
Rating sheet RZ011

www.staubli.com/electrical

Connecting Pin SLB4-I/90-S

Rigid, right-angled to screw on to relay housings, distributor boxes etc. Conforms to protection class IP2X when installed. Ø 4 mm rigid socket in insulator, accept-

ing spring-loaded Ø 4 mm plugs with rigid insulating sleeve.
Connecting pin: Ø 3.1 mm x 2.5 mm.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|-------------|-----------------------|----|----------|
| 49.7093-* | SLB4-I/90-S | 1000 V, CAT II / 32 A | Ni | 21 22 23 |



Rating sheet RZ010

www.staubli.com/electrical



Fuse Adapter PF/S4-...

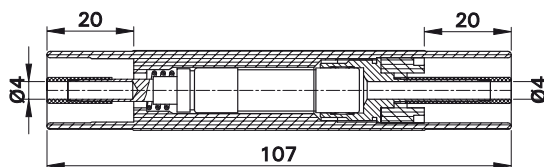
For voltage measurement and for protection of electrical equipment in high energy low voltage systems. The adapter can be equipped with an efficient low voltage fuse which reliably isolates the circuit from the power grid in the event of excessively high-current load. Transparent fuse holder sleeve to accept a high-rating fuse 10 x 38 mm.

The fuse is not supplied.

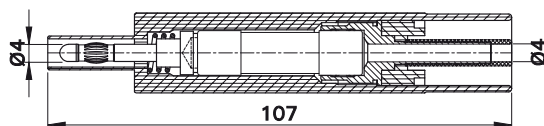
PF/S4-10x38-S: Two Ø 4 mm rigid sockets as terminal connection, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

PF/S4-BS-10x38-S: One Ø 4 mm plug with rigid insulating sleeve and one rigid Ø 4 mm socket, to accept spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

PF/S4-10x38-S



PF/S4-BS-10x38-S



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|------------------|-------------------------------------|----|---------|
| 50.0295-* | PF/S4-10x38-S | 600 V, CAT III / 20 A ¹⁾ | CE | 21 22 |
| 50.0296-* | PF/S4-BS-10x38-S | 600 V, CAT III / 20 A ¹⁾ | CE | 21 22 |

¹⁾ Depends on the fuse used.



High breaking capacity fuse: page 110



Rating sheet RZ069

www.staubli.com/electrical



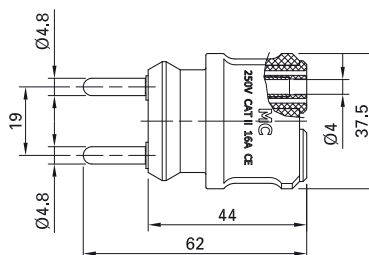
Assembly instructions MA114

www.staubli.com/electrical

Adapter A-NETZ/SLK4

For connecting standard power sockets. For connecting phase and neutral conductor, this adapter has two Ø 4 mm rigid sockets at

rear, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type | Rated voltage/current | | Color |
|------------|-------------|-----------------------|----|-------|
| 24.0145-28 | A-NETZ/SLK4 | 250 V, CAT II / 16 A | CE | 28 |

Ø 4 mm Adapters Component Holders

SKP4-...P/38

Component holders for safe use in the laboratory and in education. The system consists of the experimental circuit board SET4 for mounting the component holders SKP4-... The components are visible

in the transparent housing of the component holders.

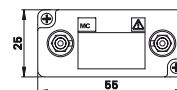
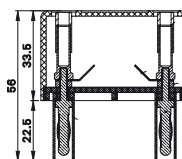
- Ø 4 mm plug connection system
- Protection degree IP2X
- Simple assembly

Component Holder SKP4-2P/38

Two-pole, to plug onto the experimental board SET4 (socket spacing: 38 mm). With Ø 4 mm sockets at the rear. The individual components are soldered in place. Printed circuit boards made by the customer can

also be screw-mounted (for dimensions see assembly instructions). Simple assembly with standard tool.

Touch protection IP2X.



| Order No. | Type | Rated voltage/current | | Color |
|------------|------------|-----------------------|----|-------|
| 50.0031-33 | SKP4-2P/38 | 600 V, CAT II / 5 A | Ni | 33 |



Assembly instructions MA551

www.staubli.com/electrical

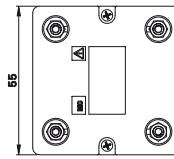
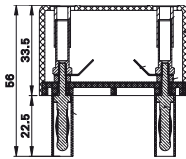
Component Holder SKP4-4P/38

Four-pole, to plug onto the experimental board SET4 (socket spacing: 38 mm). With Ø 4 mm sockets at the rear. The individual

components are soldered in place. Printed circuit boards made by the customer can also be screw-mounted (for dimensions see

assembly instructions). Simple assembly with standard tool.

Touch protection IP2X.



Assembly instructions MA551

www.staubli.com/electrical

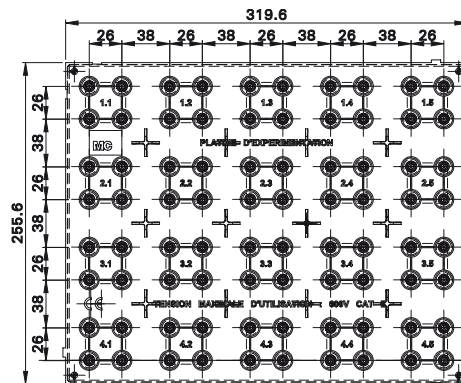
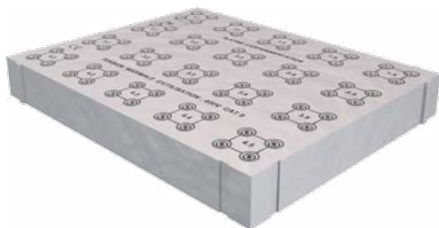
| Order No. | Type | Rated voltage/current | | Color |
|------------|------------|-----------------------|----|-------|
| 50.0032-33 | SKP4-4P/38 | 600 V, CAT II / 5 A | Ni | 33 |

Safety Experimental Circuit Board SET4

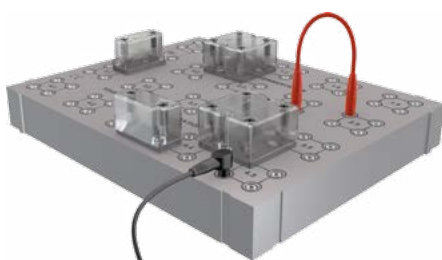
With 80 Ø 4 mm sockets (20 contacts, each with 4 sockets) for mounting the component holders SKP4-...P/38 or for plugging-in test leads with spring-loaded Ø 4 mm plugs with

rigid insulating sleeve. Several boards can be mounted together.

Touch protection IP2X.



| Order No. | Type | Rated voltage/current | | Color |
|------------|------|-----------------------|-------|-------|
| 50.0033-29 | SET4 | 600 V, CAT II / 5 A | Ni CE | 29 |

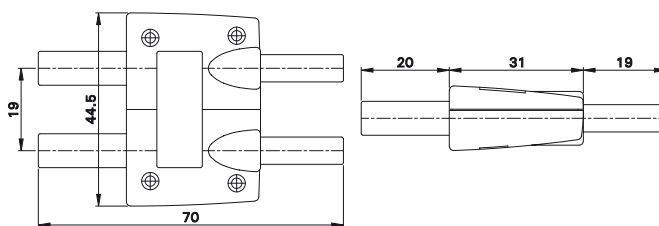


Component Holder XKH-4/19/...

To connect individual components with Ø 4 mm test leads. The components are clearly visible in the transparent adapter housing, which is therefore ideally suited for

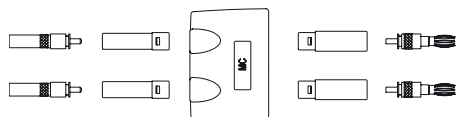
instructional use. The components in the adapter casing are provided with soldered connections, and the casing is screwed together. Available in various versions with

combinations of Ø 4 mm plugs and sockets. Metal parts made of brass.



Component Holder XKH-4/19/A

Version with two spring-loaded Ø 4 mm plugs with rigid insulating sleeve and two rigid sockets.



| Order No. | Type | Rated voltage/current | | Color |
|------------|------------|-------------------------------|----|-------|
| 66.9045-33 | XKH-4/19/A | 600 V, CAT II / ¹⁾ | Ni | 33 |

¹⁾ Dependent on the component inserted.

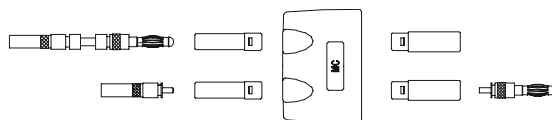


Assembly instructions MA524

www.staubli.com/electrical

Component Holder XKH-4/19/B

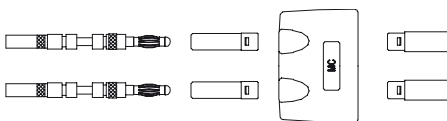
Version with one spring-loaded Ø 4 mm plug with rigid insulating sleeve, one rigid socket, and one combined plug-socket.



| Order No. | Type | Rated voltage/current | | Color |
|------------|------------|-------------------------------|----|-------|
| 66.9046-33 | XKH-4/19/B | 600 V, CAT II / ¹⁾ | Ni | 33 |

Component Holder XKH-4/19/C

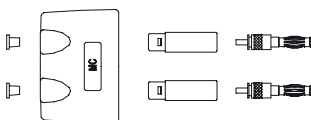
Version with two plug sockets, each consisting of a spring-loaded Ø 4 mm plug with rigid insulating sleeve and a Ø 4 mm rigid socket at rear.



| Order No. | Type | Rated voltage/current | | Color |
|------------|------------|-------------------------------|----|-------|
| 66.9047-33 | XKH-4/19/C | 600 V, CAT II / ¹⁾ | Ni | 33 |

Component Holder XKH-4/19/D

Version with two spring-loaded Ø 4 mm plugs with rigid insulating sleeve and two stoppers.



| Order No. | Type | Rated voltage/current | | Color |
|------------|------------|-------------------------------|----|-------|
| 66.9049-33 | XKH-4/19/D | 600 V, CAT II / ¹⁾ | Ni | 33 |



Assembly instructions MA524

www.staubli.com/electrical

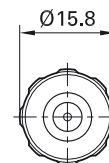
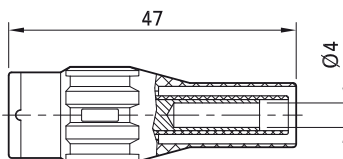
¹⁾ Dependent on the component inserted.

Ø 4 mm / BNC Adapters

Adapter XM-B

One-pole, with touch-protected BNC male connector linked to a Ø 4 mm rigid socket, accepting spring-loaded Ø 4 mm plugs with

rigid insulating sleeve. The contact pin of the BNC plug connector is in gold-plated brass.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|------|---------------------------------|----------|---------|
| 67.9799-* | XM-B | 600 V, CAT II 300 V, CAT III | Au Ni CE | 21 22 |



Rating sheet RZ013

www.staubli.com/electrical

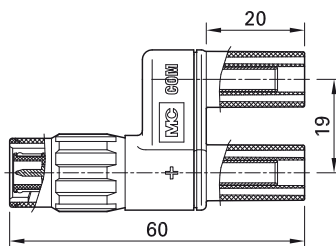
Adapter X.../4

Two-pole touch-protected adapters with Ø 4 mm connectors linked to the BNC system. Versions with BNC male or female

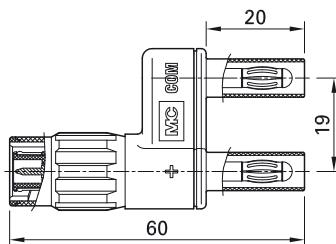
connector and rigid Ø 4 mm sockets or Ø 4 mm MULTILAM plugs with rigid insulating sleeve. The contact pins and sockets of

the inner conductor of the BNC plug connector are in gold-plated brass.

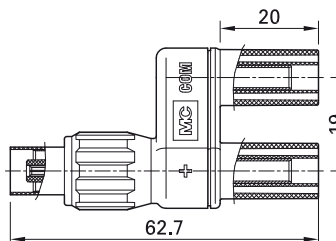
XM-BB/4



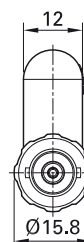
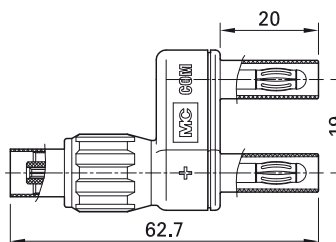
XM-SS/4



XF-BB/4



XF-SS/4



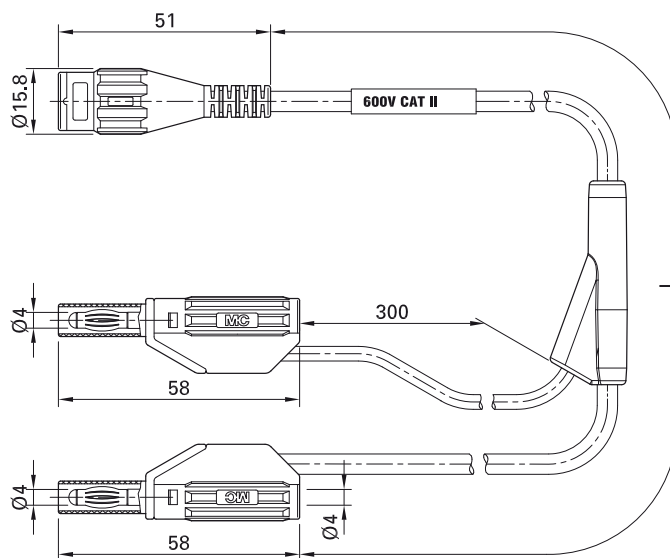
| Order No. | Type | Rated voltage | BNC connectors | Ø 4 mm connectors | | Color |
|------------|---------|----------------------------------|----------------------|-------------------|-------------|-------|
| 67.9536-21 | XM-BB/4 | 1000 V, CAT II 600 V, CAT III | BNC male connector | Ø 4 mm sockets | Au Ni CE UL | 21 |
| 67.9535-21 | XM-SS/4 | 1000 V, CAT II 600 V, CAT III | BNC male connector | Ø 4 mm plugs | Au Ni CE UL | 21 |
| 67.9538-21 | XF-BB/4 | 1000 V, CAT II 600 V, CAT III | BNC female connector | Ø 4 mm sockets | Au Ni CE UL | 21 |
| 67.9537-21 | XF-SS/4 | 1000 V, CAT II 600 V, CAT III | BNC female connector | Ø 4 mm plugs | Au Ni CE UL | 21 |

Ø 4 mm / BNC Leads

Adapter Lead XLAM-446/SC...

Highly flexible, fully shielded adapter leads. One end with coaxial cable with touch-protected BNC male connector, other end with

stackable Ø 4 mm MULTILAM plugs with rigid insulating sleeve.

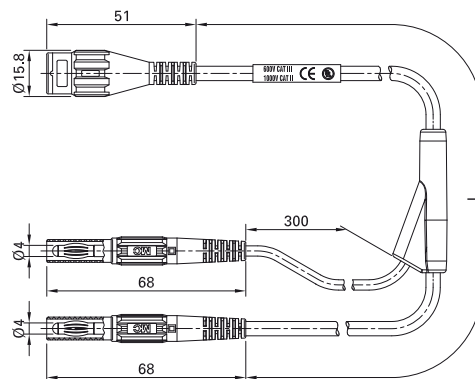


| Order No. | Type | Rated voltage | Lead | | Lead lengths L [cm] |
|-----------|-----------------|---------------------------------|---------------------|-------------|---------------------|
| 67.9800-□ | XLAM-446/SC | 600 V, CAT II 300 V, CAT III | PVC RG58 | Au Ni CE UL | 100 160 |
| 67.9868-□ | XLAM-446/SC/SIL | 600 V, CAT II 300 V, CAT III | SIL SILI-SC 0,5/1,0 | Au Ni CE UL | 100 160 |

Adapter Lead XLAM-414/SC...

Highly flexible, fully shielded adapter leads. One end with coaxial cable with touch-protected BNC male connector, other end with

in-line Ø 4 mm MULTILAM plugs with rigid insulating sleeve.

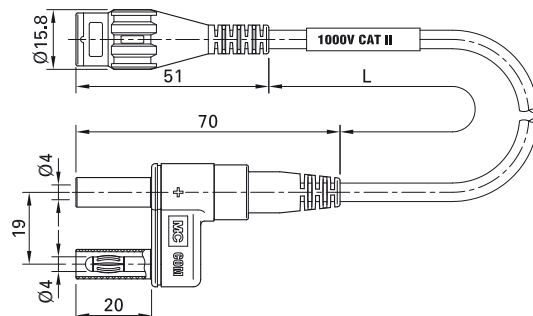


| Order No. | Type | Rated voltage | Lead | | Lead lengths L [cm] |
|-----------|-----------------|----------------------------------|---------------------|-------------|---------------------|
| 67.9842-□ | XLAM-414/SC | 1000 V, CAT II 600 V, CAT III | PVC RG58 | Au Ni CE UL | 100 160 |
| 67.9867-□ | XLAM-414/SC/SIL | 1000 V, CAT II 600 V, CAT III | SIL SILI-SC 0,5/1,0 | Au Ni CE UL | 100 160 |

Adapter Lead XDS-BS/...

Highly flexible, fully shielded adapter leads. One end with coaxial cable with touch-protected BNC male connector, other end with

Ø 4 mm MULTILAM plugs with rigid insulating sleeve, two-pole version.



| Order No. | Type | Rated voltage | Lead | | Lead lengths L [cm] | Color |
|-------------|------------|----------------------------------|---------------------|----------|---------------------|-------|
| 67.9539-□21 | XDS-BS/58 | 1000 V, CAT II 600 V, CAT III | PVC RG58 | Au Ni CE | 100 160 | 21 |
| 67.9540-□21 | XDS-BS/SIL | 1000 V, CAT II 600 V, CAT III | SIL SILI-SC 0,5/1,0 | Au Ni CE | 100 160 | 21 |

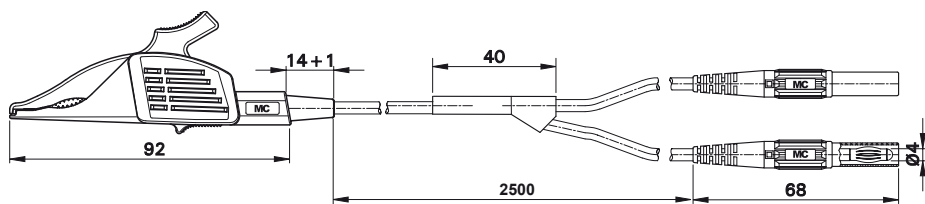
Ø 4 mm Kelvin Test Leads

Kelvin Test Lead XDK-KELVIN

One end with Kelvin dolphin clip with all-round insulation, robust, strong-jawed and

with surface for fine wire, offering a versatile range of connecting possibilities. The other

end with Ø 4 mm MULTILAM plugs with rigid insulating sleeve. Highly flexible, silicone-insulated coaxial cable.

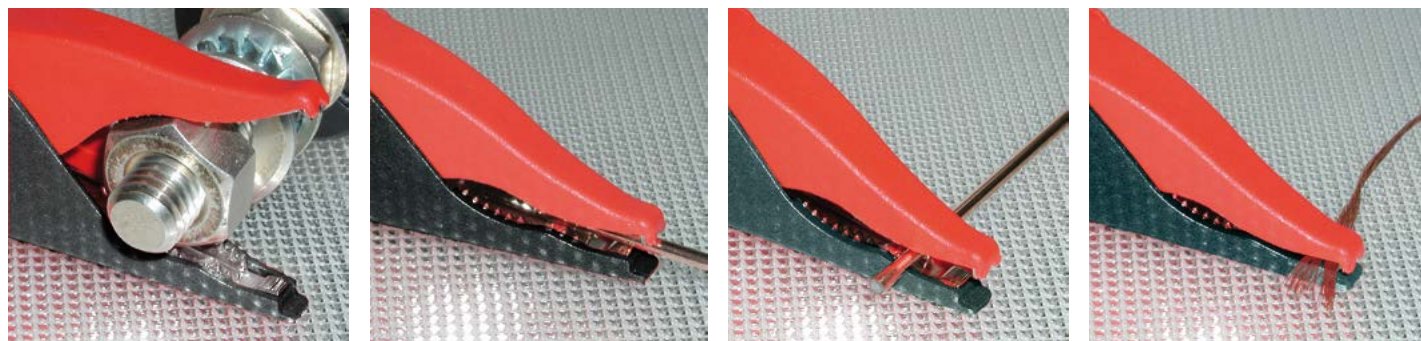


| Order No. | Type | Rated voltage | Lead | | Lead length L [cm] |
|-------------|------------|-----------------------|----------------------------|-------|--------------------|
| 66.9795-250 | XDK-KELVIN | 1000 V, CAT II / 20 A | SIL 2x 1,0 mm ² | Ni CE | 250 |



Rating sheet RZ058

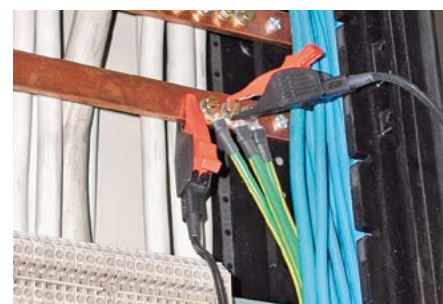
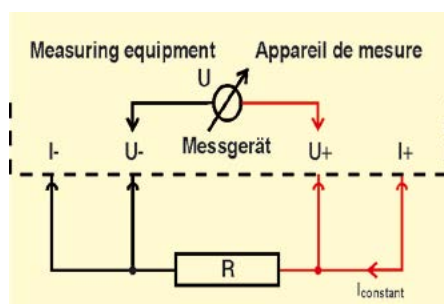
www.staubli.com/electrical



Principle of the Four-wire or Kelvin Measurement

A defined current I_{constant} flows through the resistance R , coming from a constant current source. The voltage U over the resistance R can be very accurately measured,

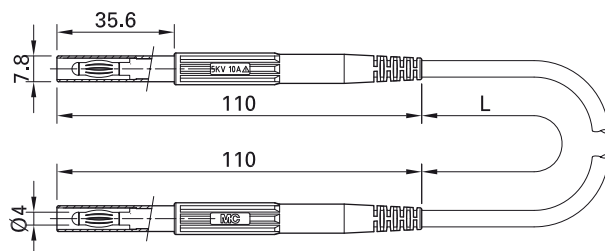
as due to the high inner resistance of the voltmeter, the voltage drop on the circuits can be disregarded (see sketch). According to Ohm's law $R = U / I_{\text{constant}}$.



Special Test Accessories for Use with Insulation Testing Instruments up to 5 kV

Test Lead XHM-5000

Highly flexible, with in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve on both ends.



| Order No. | Type | Rated voltage/current | Lead | | Lead length [cm] | *Colors |
|--------------|----------|--|-------------------------|-------|------------------|----------|
| 66.9425-150* | XHM-5000 | 1000 V, CAT IV 5 kV ¹⁾ / 10 A | TPE 0,5 mm ² | Ni CE | 150 | 21 22 23 |

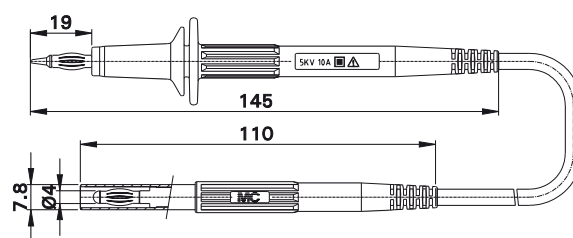


Rating sheet RZ079

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Test Lead XHL-5000

Highly flexible. One end with Ø 4 mm test probe with spring-loaded MULTILAM, the other end with in-line Ø 4 mm MULTILAM plug with rigid insulating sleeve. Supplied with protective cap.



| Order No. | Type | Rated voltage/current | Lead | | Lead length [cm] | *Colors |
|--------------|----------|---------------------------|-------------------------|-------|------------------|----------|
| 66.9426-150* | XHL-5000 | 5 kV ¹⁾ / 10 A | TPE 0,5 mm ² | Ni CE | 150 | 21 22 23 |

¹⁾ Output voltage of test instruments, e.g. insulation testers



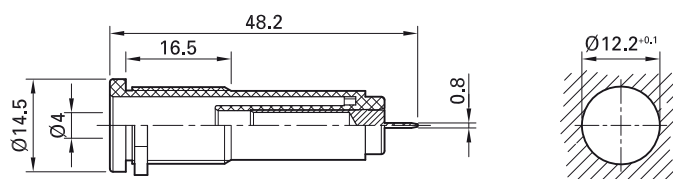
Rating sheet RZ109

www.staubli.com/electrical

Socket XHB-5000

Insulated, rigid, Ø 4 mm for high voltages, to accept test leads XHM-5000 and XHL-5000. For safety reasons, the socket is not compat-

ible with any other Ø 4 mm plugs in our range.
Flat connecting tab 4.8 mm x 0.8 mm.



| Order No. | Type | Rated voltage/current | | *Colors |
|-----------|----------|---|----|----------|
| 66.9427-* | XHB-5000 | 1000 V, CAT IV 5 kV ¹⁾ / 10 A | Au | 21 22 23 |

¹⁾ Output voltage of test instruments, e.g. insulation testers



Rating sheet RZ079

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Ø 6 MM SYSTEM

Ø 6 mm Test Accessories

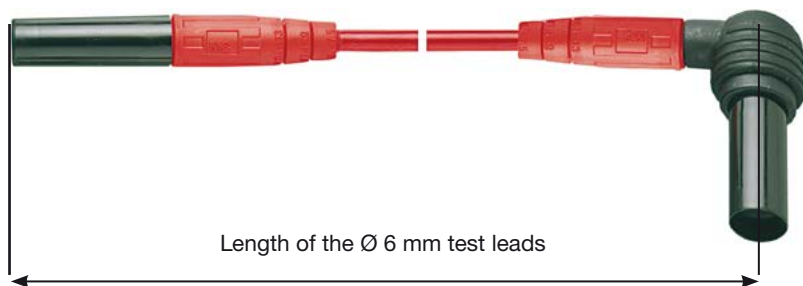
The Ø 6 mm product range is designed for high-current use up to a maximum of 125 A (depending on the cable cross section). It can be used in applications where the Ø 4 mm range is not large enough for the transmission of electrical energy.

Particular emphasis must be given to the level of protection against electric shock of this Ø 6 mm safety range which plays a crucial factor in accident prevention.

The following Ø 6 mm plug connections have the proven Stäubli Locking System (AR). This "Push-Pull Quick Release System" has considerable safety advantages over the screw or binding post connectors

with cable lugs (see below). The following selection illustrates just a small extract from our high-current range. In addition to these touch-protected connectors we can offer a multitude of high-current connectors for use in special applications.

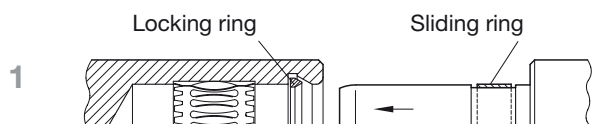
For further information, please order the main catalog "Round Connectors, 1-pole, insulated, 6 mm".



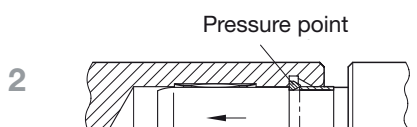
Please note that the length of the Ø 6 mm test leads is the overall length, including the connectors!

Stäubli Locking System

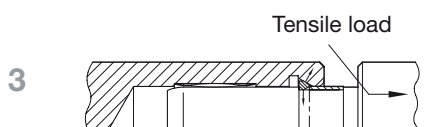
Lock



1 Insert plug into socket...

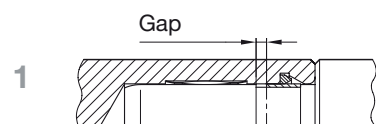


2 ...and lock.

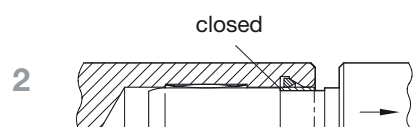


3 The connection can be placed under a tensile load.

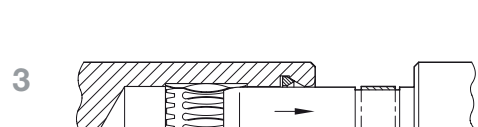
Release



1 To release, push plug further in...



2 ... and pull.



3 The connection is released.

Ø 6 mm Test Leads

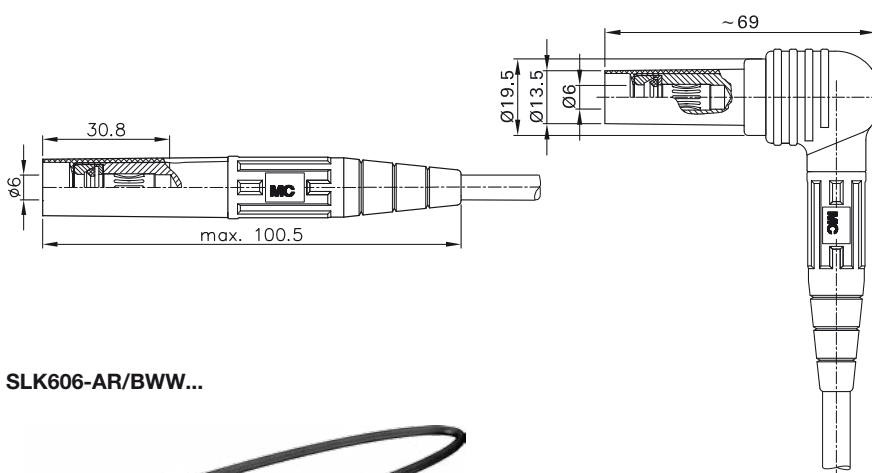
Test Lead SLK606-AR...

Highly flexible, with insulation in PVC or silicone, lead cross section 6.0 mm². On both ends with Ø 6 mm sockets with spring-loaded MULTILAM and with rigid insulating

sleeve. Contact parts made of silver-plated brass with gold-plated MULTILAM. A locked connection can be made when used together, for example, with the Ø 6 mm plug

panel receptacle type ID/S6AR..S, which has an Stäubli locking system (page 99). Leads available with in-line or right-angled plug connectors.

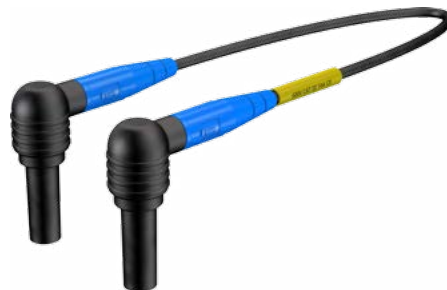
SLK606-AR/BGG...



SLK606-AR/BGW...



SLK606-AR/BWW...



| Order No. | Type | Rated voltage/current | Plug connectors | | Cable length [cm] | *Colors |
|--------------|-------------------|-----------------------|-------------------|-----------|-------------------|----------|
| 15.2500-100* | SLK606-AR/BGG | 600 V, CAT III / 54 A | in-line / in-line | Ag PVC CE | 100 | 21 22 23 |
| 15.2504-100* | SLK606-AR/BGG/SIL | 600 V, CAT III / 54 A | in-line / in-line | Ag SIL CE | 100 | 21 22 23 |
| 15.2516-100* | SLK606-AR/BGW | 600 V, CAT III / 54 A | in-line / 90° | Ag PVC CE | 100 | 21 22 23 |
| 15.2520-100* | SLK606-AR/BGW/SIL | 600 V, CAT III / 54 A | in-line / 90° | Ag SIL CE | 100 | 21 22 23 |
| 15.2508-100* | SLK606-AR/BWW | 600 V, CAT III / 54 A | 90° / 90° | Ag PVC CE | 100 | 21 22 23 |
| 15.2512-100* | SLK606-AR/BWW/SIL | 600 V, CAT III / 54 A | 90° / 90° | Ag SIL CE | 100 | 21 22 23 |

Ø 6 mm Panel Receptacles

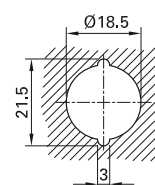
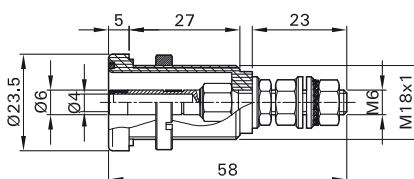
Panel Receptacles ID/S6AR-N-B4S

Insulated, with Ø 6 mm pin, made of silver-plated brass, accepting Ø 6 mm sockets with spring-loaded MULTILAM and rigid insulating sleeve. With the integrated Ø 4 mm socket, the terminal mates alternatively with

spring-loaded Ø 4 mm plugs with rigid insulating sleeve. The terminal has a black housing and is fitted with a colored ring on the front side. In combination with the test leads SLK6..-AR/B.., a locked connection

can be made. The terminal is screwed into pre-drilled panels of plastic, metal, etc.

Connection: Threaded bolt M6.



| Order No. | Type | Rated voltage/current | | *Colors (only color ring) | | | | | | | | | | |
|-----------|---------------|-----------------------|------------|---|----|----|----|----|----|----|----|----|----|----|
| 14.0034-* | ID/S6AR-N-B4S | 600 V, CAT III / 80 A | Ag c RL US | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |



Tube spanner SS6, page 107



Assembly instructions MA038

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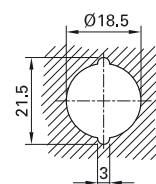
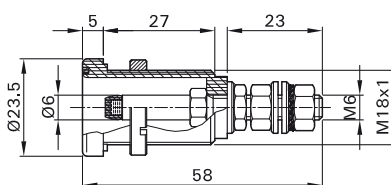
Panel Receptacles ID/S6NB

Insulated, with Ø 6 mm pin, made of silver-plated brass, accepting Ø 6 mm sockets with spring-loaded MULTILAM and rigid

insulating sleeve. The terminal has a black housing and is fitted with a colored ring on the front side. The terminal is screwed into

pre-drilled panels of plastic, metal, etc.

Connection: Threaded bolt M6.



| Order No. | Type | Rated voltage/current | | *Colors (only color ring) | | | | | | | | | | |
|-----------|---------|------------------------|----------|---|----|----|----|----|----|----|----|----|----|----|
| 14.0006-* | ID/S6NB | 600 V, CAT III / 125 A | Ag c US | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |

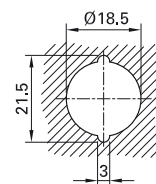
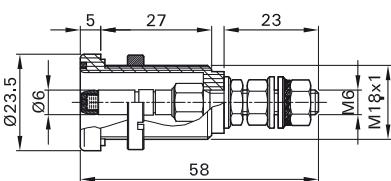
Panel Receptacles ID/S6AR-N-S

Insulated, with Ø 6 mm pin, made of silver-plated brass, accepting Ø 6 mm sockets with spring-loaded MULTILAM and rigid insulating sleeve. The terminal has a black

housing and is fitted with a colored ring on the front side. In combination with the test leads SLK6..-AR/B.., a locked connection can be made. The terminal is screwed into

pre-drilled panels of plastic, metal, etc.

Connection: Threaded bolt M6.



| Order No. | Type | Rated voltage/current | | *Colors (only color ring) | | | | | | | | | | |
|-----------|-------------|------------------------|----------|---|----|----|----|----|----|----|----|----|----|----|
| 14.0004-* | ID/S6AR-N-S | 600 V, CAT III / 125 A | Ag c US | <table border="1"> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | |
| 25 | 26 | 27 | 28 | 29 | | | | | | | | | | |



Assembly instructions MA038

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Tube spanner SS6, page 107

ASSEMBLY MATERIAL AND ACCESSORIES

Assembly Material and Accessories

Hexagonal Nuts MU.../M... GEW.12-MUTTER

For installing and connecting our panel-mount sockets and terminals.

MU0,5D/M4N



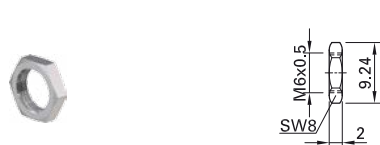
MU0,8D/M4 MU0,8D/M4N



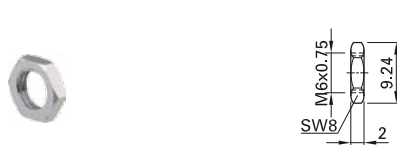
MU/M5



MU/M6x0,5



MUE/M6x0,75



MU/M8x0,5



MU/M12x0,75



GEW.12-MUTTER

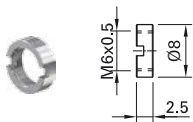


| Order No. | Type | Wrench size | Thread | |
|-----------|---------------|-------------|----------|----|
| 22.6610 | MU0,5D/M4N | SW7 | M4 | Ni |
| 22.6509 | MU0,8D/M4 | SW7 | M4 | Au |
| 22.6539 | MU0,8D/M4N | SW7 | M4 | Ni |
| 23.5103 | MU/M5 | SW6 | M5 | Ni |
| 23.5104 | MU/M6x0,5 | SW8 | M6x0,5 | Ni |
| 50.2008 | MUE/M6x0,75 | SW8 | M6x0,75 | Ni |
| 23.5112 | MU/M8x0,5 | SW10 | M8x0,5 | Ni |
| 23.5118 | MU/M12x0,75 | SW15 | M12x0,75 | Ni |
| 66.9679 | GEW.12-MUTTER | SW14 | Gew. 12 | Ni |

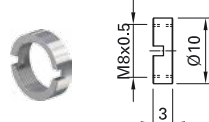
Round Nuts MUR...

For installing and connecting our panel-mount sockets and terminals.

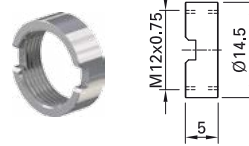
MUR/M6x0,5



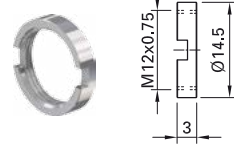
MUR/M8x0,5



MUR/M12x0,75



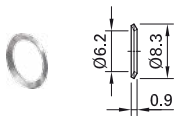
MUR-S/M12x0,75



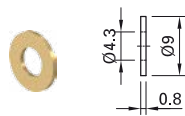
| Order No. | Type | Suitable tube spanner | Thread | |
|-----------|----------------|-----------------------|----------|----|
| 23.5100 | MUR/M6x0,5 | SS2 | M6x0,5 | Ni |
| 23.5110 | MUR/M8x0,5 | SS4 | M8x0,5 | Ni |
| 23.5120 | MUR/M12x0,75 | SS425 | M12x0,75 | Ni |
| 23.5116 | MUR-S/M12x0,75 | SS425 | M12x0,75 | Ni |

Washers SP2 U/M4 U/4,3x12 SSP4 SP4

SP2



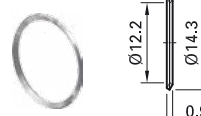
U/M4



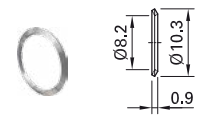
U/4,3x12



SSP4



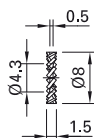
SP4



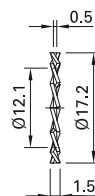
| Order No. | Type | |
|-----------|----------|----|
| 23.5105 | SP2 | Ni |
| 22.6511 | U/M4 | Au |
| 22.6516 | U/4,3x12 | Sn |
| 23.5108 | SSP4 | Ni |
| 23.5107 | SP4 | Ni |

Spring Washers FS/M...

FS/M4



FS/M12

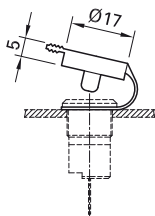


| Order No. | Type | |
|-----------|--------|----|
| 22.6533 | FS/M4 | |
| 23.5117 | FS/M12 | Ni |

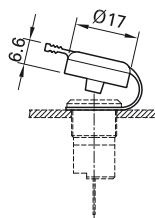
Protective Cap SCHUDE-SLB SD-XUB

To cover up unplugged, unused sockets.

SCHUDE-SLB



SD-XUB



| Order No. | Type | Suitable for socket types | Protection degree | Color |
|------------|------------|------------------------------|-------------------|-------|
| 23.5140-33 | SCHUDE-SLB | SEB4..., SLB4..., XE..-1R(R) | IP65 | 33 |
| 66.1020-21 | SD-XUB | XUB-G, XEP... | IP67 | 21 |

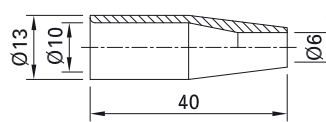


Assembly instructions MAH560 (SD-XUB)

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Safety Hood SCHUKA-SLB

Designed for a touch-protected cover-up of connecting parts of sockets.

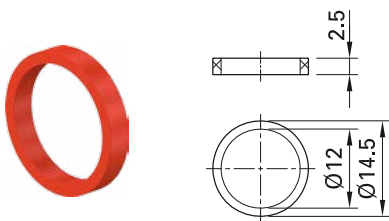


| Order No. | Type | Suitable for socket types | Color |
|------------|------------|-------------------------------|-------|
| 23.5142-33 | SCHUKA-SLB | SEB4..., SLB4..., XE...-1R(R) | 33 |

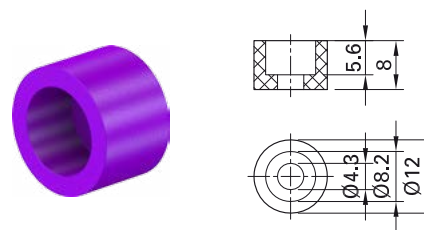
Spacer Sleeves XAS-1R ID-SAB4-G

To increase the height of the mounting position of sockets and terminals.

XAS-1R



ID-SAB4-G

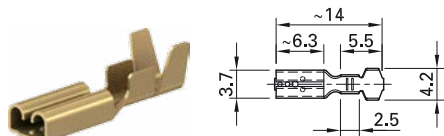


| Order No. | Type | Suitable for socket types | *Colors |
|-----------|-----------|-------------------------------|-------------------------------|
| 66.9151-* | XAS-1R | SEB4..., SLB4..., XE...-1R(R) | 21 22 23 24 |
| 23.5039-* | ID-SAB4-G | SAB4-G | 21 22 23 24 25 26 27 28 29 |

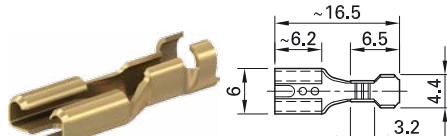
Flat Connecting Receptacles FSH...

Gold-plated, for sockets with flat connecting tabs.

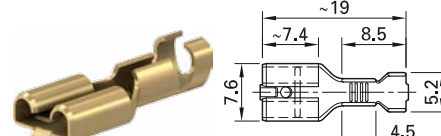
FSH2,8x0,8



FSH4,8x0,8



FSH6,3x0,8



| Order No. | Type | Suitable for flat connecting tab | Connectable conductor cross-section | |
|-----------|------------|----------------------------------|---|----|
| 23.5200 | FSH2,8x0,8 | 2,8 mm × 0,8 mm | 0,5 mm ² ... 1,0 mm ² | Au |
| 23.5201 | FSH4,8x0,8 | 4,8 mm × 0,8 mm | 0,5 mm ² ... 1,0 mm ² | Au |
| 23.5203 | FSH6,3x0,8 | 6,3 mm × 0,8 mm | 1,0 mm ² ... 2,5 mm ² | Au |

Tube Spanners SS...

Special wrench for tightening and unscrewing round nuts or for use as anti-twist wrench for our touch-protected sockets.

SS2



SS6



SS425



| Order No. | Type | To fit round nuts / socket |
|-----------|-------|------------------------------|
| 25.0022 | SS2 | XEB-..., SLB4-..., SAB4-... |
| 25.0020 | SS425 | MUR/M12x0,75, MUR-S/M12x0,75 |
| 25.0023 | SS2-S | SLB2-... |
| 25.0021 | SS4 | MUR/M8x0,5 |
| 14.5008 | SS6 | M18x1 |

Hexagonal Wrenches STS1,5

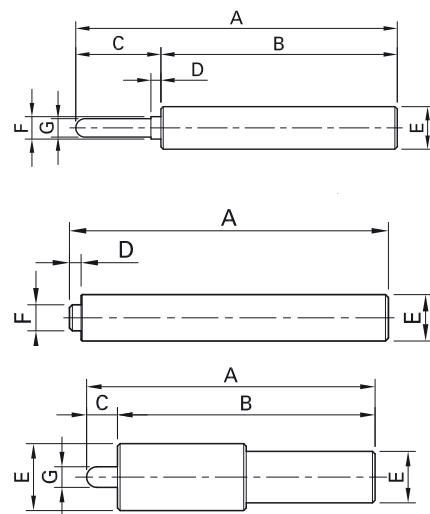
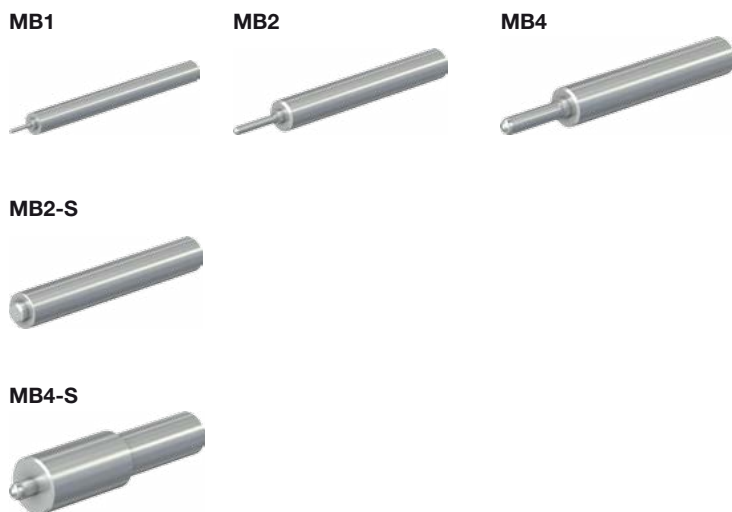
Uninsulated type (hexagonal 1.5 mm).



| Order No. | Type | Version |
|-----------|--------|-------------|
| 25.0035 | STS1,5 | uninsulated |

Press-in Tools MB...

Steel assembly mandrels for our press-fit sockets.



| Order No. | Type | Suitable for socket types | Dimensions (mm) | | | | | | |
|-----------|-------|---------------------------|-----------------|----|------|-----|---------|--------|-------|
| | | | A | B | C | D | E | F | G |
| 25.0030 | MB1 | EB1 | 56,9 | 50 | 6,9 | 0,9 | Ø 5 | Ø 2,4 | Ø 1 |
| 25.0031 | MB2 | LB2, EPB-2N/S, EB2, EB2-A | 63,5 | 50 | 13,5 | 1,6 | Ø 7 | Ø 3 | Ø 1,9 |
| 25.0028 | MB2-S | SEB2-... | 55 | 53 | - | 2 | Ø 8 | Ø 4,5 | - |
| 25.0032 | MB4 | EB4-... | 68 | 50 | 18 | 2,1 | Ø 9 | Ø 4,75 | Ø 3,9 |
| 25.0033 | MB4-S | XEP..., SEB4-..., XUB-G | 56 | 50 | 6 | - | Ø 10/13 | - | Ø 4 |

Insulation Stripping Pincers STRIPAX

With automatic adaptation to wire cross-section and with wire-cutter for cross-sections up to 4 mm².



| Order No. | Type | Wire cross-section range | Overall length | Weight |
|-----------|---------|---|----------------|--------|
| 25.0015 | STRIPAX | 0,5 mm ² ... 4 mm ² (AWG 20 - 11) | 200 mm | 145 g |

Accessories

| | | | | |
|---------|-----------|-------------|--|--|
| 25.5015 | STRIPAX/M | Spare blade | | |
|---------|-----------|-------------|--|--|

Crimping Pliers PZK3

For end-sleeves from 0.5 mm² up to 16 mm². Suitable specially for LS425-SL or LS425-SL/N.



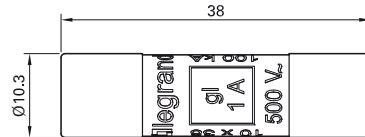
| Order No. | Type | Overall length | Weight |
|-----------|------|----------------|--------|
| 25.0018 | PZK3 | 228 mm | 236 g |

HBC Type Fuses G..A-SV FLU-11 DMI...

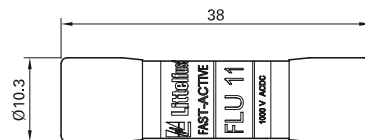
Can safely break extremely high short-circuit currents. The very low internal resistance permits the measurement of resistance and

current. Types FLU-11 and DMI-...A with UL approval.

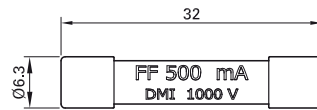
G..A-SV



FLU-11



DMI-...A



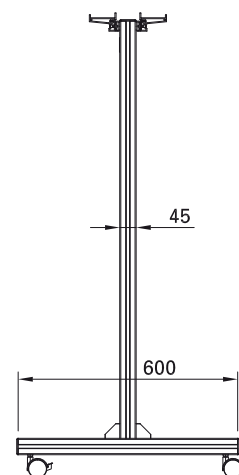
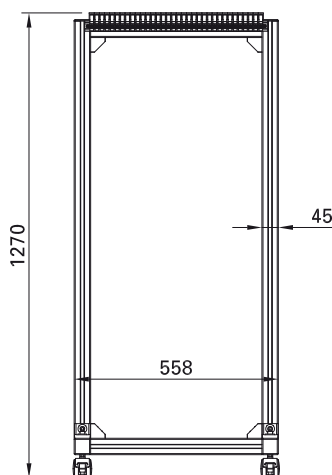
| Order No. | Type | Fuse rating | Fuse dimensions | Breaking capacity | |
|-----------|----------|-------------|-----------------|---------------------|--|
| 51.0011 | G1A-SV | 1 A | 10 x 38 mm | 100 kA (500 VAC) | |
| 51.0012 | G2A-SV | 2 A | 10 x 38 mm | 100 kA (500 VAC) | |
| 51.0013 | G4A-SV | 4 A | 10 x 38 mm | 100 kA (500 VAC) | |
| 51.0014 | G6A-SV | 6 A | 10 x 38 mm | 100 kA (500 VAC) | |
| 51.0016 | G10A-SV | 10 A | 10 x 38 mm | 100 kA (500 VAC) | |
| 51.0018 | G16A-SV | 16 A | 10 x 38 mm | 100 kA (500 VAC) | |
| 51.0019 | G20A-SV | 20 A | 10 x 38 mm | 100 kA (500 VAC) | |
| 69.0011 | FLU-11 | 11 A | 10 x 38 mm | 20 kA (1000 VAC/DC) | |
| 69.0012 | DMI-0,5A | 0,5 A | 6,3 x 32 mm | 30 kA (1000 VAC/DC) | |
| 69.0013 | DMI-1,6A | 1,6 A | 6,3 x 32 mm | 30 kA (1000 VAC/DC) | |

Test Lead Holders LKW2-N

Trolley made of anodized aluminium square section tube for orderly storage of test leads. 2 lead holders (length: 56 cm), each with 34 plastic brackets. For efficient packing,

the trolley is supplied disassembled.

The test leads are not supplied!



| Order No. | Type |
|-----------|--------|
| 64.9284 | LKW2-N |

Test Lead Holders MH-1/...

Holder for orderly storage of test leads. C-profile rails, made of anodized aluminum of different lengths (type MPS-...) can be used as a carrier for hanger modules MPK-10. Integral spacers maintain a set

spacing of 4 mm. When necessary, the spacers can be taken away easily to store leads with smaller diameters. For thicker leads, the holders can be moved accordingly in the C-profile rail.

MH-1...



MPS-...



| Order No. | Type | Length | Number of hangers |
|-------------|-----------|--------|-------------------|
| 64.9242-020 | MH-1/200 | 20 cm | 12 |
| 64.9243-025 | MH-1/250 | 25 cm | 16 |
| 64.9244-033 | MH-1/330 | 33 cm | 21 |
| 64.9245-050 | MH-1/500 | 50 cm | 34 |
| 64.9246-075 | MH-1/750 | 75 cm | 52 |
| 64.9247-100 | MH-1/1000 | 100 cm | 69 |

Component parts

| | | |
|-------------|----------|--|
| 64.9235 | MPK-10 | Hanger module |
| 64.9236-020 | MPS-200 | C-profile rail suitable for: MH-1/200 |
| 64.9237-025 | MPS-250 | C-profile rail suitable for: MH-1/250 |
| 64.9238-033 | MPS-330 | C-profile rail suitable for: MH-1/330 |
| 64.9239-050 | MPS-500 | C-profile rail suitable for: MH-1/500 |
| 64.9240-075 | MPS-750 | C-profile rail suitable for: MH-1/750 |
| 64.9241-100 | MPS-1000 | C-profile rail suitable for: MH-1/1000 |

APPENDIX

Product range consolidation/Alternative article

If you were unable to find the items you were looking for in this catalog, they may be listed here. In the following list, you can see whether the item you were looking for has been affected by the overhaul to our portfolio, and whether any recommended

alternatives are available. Please note that we cannot offer alternatives for every discontinued item. The suggested alternative items are not always 1 : 1 replacements and could differ slightly from the original items. For this reason it is imperative that you refer

to the properties of the alternative item on the corresponding catalog page.

Sorted by type

| Phased-out article | | Alternative article | | |
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| Type | Order No. | Type | Order No. | Page |
| A-CEE/SLK4 | 50.4800 | | | |
| ALH-200 | 64.9350-* | | | |
| A-NETZ/SLK4-B | 24.0147-28 | | | |
| B2-E-M3,5-I | 50.4801-* | | | |
| B2-I/KS | 50.4804-* | | | |
| B4-E-M3,5 | 23.5079 | | | |
| B4-E-M3,5-I | 23.1032-* | B4-E-M3-I | 23.1031-* | 73 |
| BT200 | 66.9484-* | PP115/2 | 66.9115-* | 53 |
| DLH-200 | 64.9382-090 | | | |
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| ESZ5-B4 | 10.0812 | GRIP-ESZ5 | 66.9447-21 | 67 |
| ESZ6-B4 | 10.0813 | GRIP-ESZ6 | 66.9448-21 | 67 |
| EVU-KO | 20.2090 | | | |
| FMA10/B4 | 10.0910 | | | |
| FMA12-PF | 19.7847-* | | | |
| FMA12-PF/425-E/N | 19.7882-* | | | |
| FMA12-PF/B4 | 10.0911-* | | | |
| HP-150/B | 66.9114-* | HP-150/A | 66.9113-* | 53 |
| KT405-BK | 22.2230-* | KT410-BK | 22.2250-* | 35 |
| KT425-SL/F | 50.1109-* | KT425-SL | 22.2260-* | 33 |
| LB4-G/M3,5 | 23.0270-* | LB4-G/M4 | 23.0280-* | 73 |
| LKW2 | 25.0010 | LKW2-N | 64.9284 | 111 |
| MINIGRIP-XA | 66.9746-* | GRIP-A | 66.9116-* | 58 |
| MINIGRIP-XB/100 | 66.9748-* | GRIP-B/100 | 66.9117-* | 57 |
| MINIGRIP-XB/50 | 66.9747-* | GRIP-B/50 | 66.9120-* | 57 |
| MINIGRIP-XCI | 66.9750-* | GRIP-CI | 66.9121-* | 61 |
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| SKS2-19L/1SA/N | 65.9846-21 | | | |
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| SLK205-LA/BA/SIL | 65.3318-* | | | |

| Phased-out article | | Alternative article | | |
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| Type | Order No. | Type | Order No. | Page |
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| SLK425-E/ESZ | 15.2529-100* | Grip-ESZ/XMF-419 | 66.9436-15021 | 67 |
| SLK425-L/W | 28.0090-100* | XMF-484 | 66.9005-* | 25 |
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| SMK410-AR/W/1000V | 49.0167-120* | XSPP-419 | 66.9315-* | 28 |
| SMK425-AR | 49.0145-100* | XSPP-419 | 66.9315-* | 28 |
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| SPP4-AR/1000V | 49.0166-* | | | |
| SPP4-AR/PF | 49.0168-22 | | | |
| XAKK-446 | 66.9399-150 | | | |
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| XDK-1033P/I | 66.9522-* | | | |
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| XDLS-414/SIL | 66.9526-150* | XDLS-418 | 66.9531-150* | 61 |
| XDLS-414/SIL/I | 66.9530-150* | | | |
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| XF-SS/2 | 67.9543-21 | | | |
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| XGMF-480 | 66.9402-* | | | |
| XGMS-414 | 66.9401-* | | | |
| XGMS-480 | 66.9403-* | | | |
| XKF-402 | 66.9659-* | XKF-414 | 66.9011-* | 24 |
| XKT-459/90 | 66.1008-* | | | |
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| XLDH-200 | 66.9385-090 | | | |
| XLWH-480 | 66.9388-120* | | | |
| XM-BB/2 | 67.9542-21 | | | |
| XM-SS/2 | 67.9541-21 | | | |
| XMT-414 | 66.9420-* | XMF-414 | 66.9013-* | 31 |
| XMT-484 | 66.9421-* | XMF-484 | 66.9005-* | 25 |
| XMZK | 66.9074-* | | | |
| XMZS-15/40 | 66.9085-* | | | |
| XMZS-20/40 | 66.9086-* | | | |
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| Phased-out article | | Alternative article | | |
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| XPF-414 | 66.9023-* | XPF-484 | 66.9008-* | 26 |
| XPP-80/2-19 | 66.9644-* | XPP-80/2-16 | 66.9640-* | 53 |
| XPP-80/4 | 66.9642-* | PP115/4 | 66.9112-* | 54 |
| XPP-80/U | 66.9643-* | | | |
| XPS-414 | 66.9024-* | XPS-484 | 66.9007-* | 26 |
| XPS-482/4 | 66.9628-* | XPS-484 | 66.9007-* | 26 |
| XPT-414 | 66.9422-150* | XPF-484 | 66.9008-* | 26 |
| XPT-484 | 66.9423-150* | XPF-484 | 66.9008-* | 26 |
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| XPZ-4WZW | 66.9104-120 | | | |
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| XVS-4075 | 66.9562-* | XVS-410/EVO | 66.8561-* | 20 |
| XWA-2/4 | 65.9190-* | | | |
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| XZG410-W | 66.9413-* | | | |
| XZG410-W/SIL | 66.9414-* | | | |
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| XZG425-E/SIL | 66.9410-* | | | |
| ZPK | 66.9079-* | | | |
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| ZPS-15/40 | 66.9081-* | ZPS-20/40 | 66.9082-* | 83 |
| ZPS-35/25 | 66.9077-* | ZPS-20/25 | 66.9076-* | 83 |

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| Phased-out article | | Alternative article | | |
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| 10.0811 | ESZ4-B4 | 66.9446-21 | GRIP-ESZ4 | 67 |
| 10.0812 | ESZ5-B4 | 66.9447-21 | GRIP-ESZ5 | 67 |
| 10.0813 | ESZ6-B4 | 66.9448-21 | GRIP-ESZ6 | 67 |
| 10.0910 | FMA10/B4 | | | |
| 10.0911-* | FMA12-PF/B4 | | | |
| 15.2529-100* | SLK425-E/ESZ | 66.9436-15021 | Grip-ESZ/XMF-419 | 67 |
| 19.7847-* | FMA12-PF | | | |
| 19.7882-* | FMA12-PF/425-E/N | | | |
| 20.2090 | EVU-KO | | | |
| 22.2230-* | KT405-BK | 22.2250-* | KT410-BK | 35 |
| 22.2660-* | SLS405-BK | 22.2672-* | SLS410-BK | 35 |

| Phased-out article | | Alternative article | | |
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| Order No. | Type | Order No. | Type | Page |
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| 22.2666-* | SLS425-SL/N/F | 22.2665-* | SLS425-SL/N | 33 |
| 23.0270-* | LB4-G/M3,5 | 23.0280-* | LB4-G/M4 | 73 |
| 23.1032-* | B4-E-M3,5-I | 23.1031-* | B4-E-M3-I | 73 |
| 23.5079 | B4-E-M3,5 | | | |
| 24.0147-28 | A-NETZ/SLK4-B | | | |
| 25.0010 | LKW2 | 64.9284- | LKW2-N | 111 |
| 28.0090-100* | SLK425-L/W | 66.9005-* | XMF-484 | 25 |
| 49.0031-* | SLK410-L/N | 28.0083-* | SLK410-L | 21 |
| 49.0145-100* | SMK425-AR | 66.9315-* | XSP4-419 | 28 |
| 49.0165-150* | SMK410-AR/1000V | 66.9315-* | XSP4-419 | 28 |
| 49.0166-* | SPP4-AR/1000V | | | |
| 49.0167-120* | SMK410-AR/W/1000V | 66.9315-* | XSP4-419 | 28 |
| 49.0168-22 | SPP4-AR/PF | | | |
| 50.1109-* | KT425-SL/F | 22.2260-* | KT425-SL | 33 |
| 50.4510-* | SPP4-AR | | | |
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| 50.4801-* | B2-E-M3,5-I | | | |
| 50.4804-* | B2-I/KS | | | |
| 64.9350-* | ALH-200 | | | |
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| 65.3308-* | SLK205-LA/SIL | 65.3307-* | SLK205-LA | 9 |
| 65.3317-* | SLK205-LA/BA | | | |
| 65.3318-* | SLK205-LA/BA/SIL | | | |
| 65.9186-* | XALS | 65.9185-* | XALF | 16 |
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| 65.9846-21 | SKS2-19L/1SA/N | | | |
| 65.9849-21 | SKS2-19L/1SA/A | | | |
| 66.1008-* | XKT-459/90 | | | |
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| 66.9024-* | XPS-414 | 66.9007-* | XPS-484 | 26 |
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| 66.9399-150 | XAKK-446 | | | |
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| 66.9401-* | XGMS-414 | | | |
| 66.9402-* | XGMF-480 | | | |
| 66.9403-* | XGMS-480 | | | |
| 66.9409-* | XZG425-E | | | |
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| 66.9414-* | XZG410-W/SIL | | | |
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