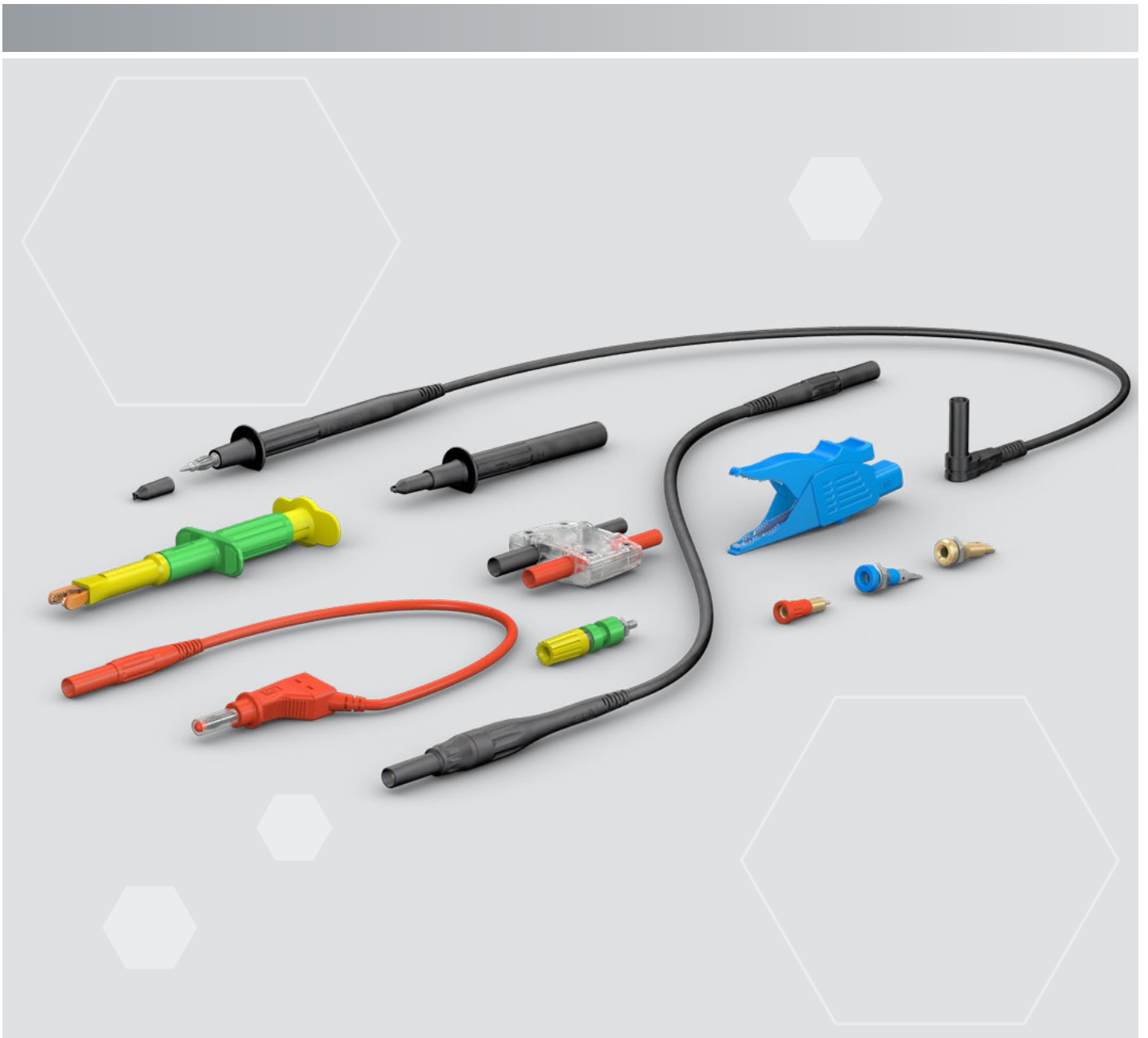


# Test accessories Main catalog

Test & Measureline | Test & Measurement



## STÄUBLI ELECTRICAL CONNECTORS

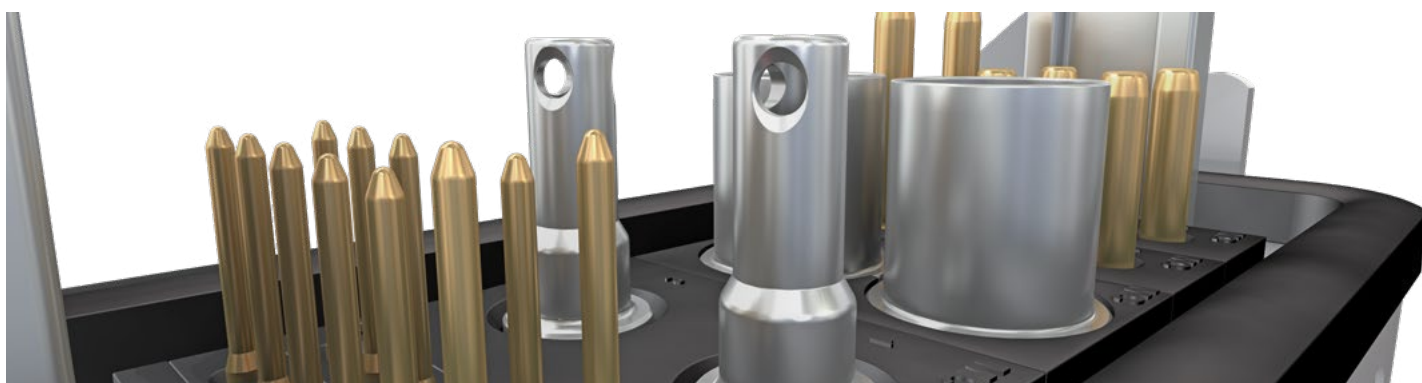
## Long-term solutions – Expert connections



**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 to IEC/EN 61010-031. Alongside accessories for service technicians 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 our 30 V AC / 60 V DC program (O). The testing accessories program is complete with secure connection sockets for testing and measurement equipment in accordance with IEC/EN 61010-1.**

Further information concerning product portfolio, special features as well as exemplary videos can be found at <https://www.staubli-test-measurement.com/>

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UNLIMITED POSSIBILITIES FOR CONTACT SOLUTIONS

MULTILAM Technology



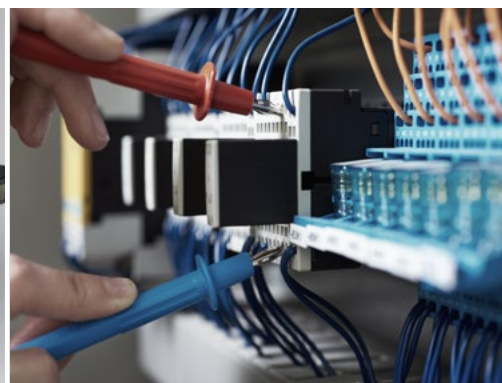
**MULTILAM** are specially formed and resilient contact elements. All Stäubli Electrical Connectors products benefit from the unique and outstanding performance of the **MULTILAM Technology**.

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.

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

## Lead length

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

## Standard items

The colors specified in the catalog or color/length combinations are available as standard items without minimum order quantity.

## Variants

### Optional colors

The catalog also indicates optional colors in addition to standard colors for the various items.

These color variants can be order starting from 100 pieces.

### Optional lengths

You can order 10 to 100 pieces depending on the product if your application requires a non-standard measurement lead.

Feel free to contact us regarding the prerequisites and availability.

## Special items

As a provider of customized solutions, Stäubli Electrical Connectors also offers color combinations not listed in the catalog. Upon request, we are happy to inform you of prices, delivery times and minimum order quantities for special items.

## 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

|            |                 |
|------------|-----------------|
| <b>Au</b>  | Gold-plated     |
| <b>Ni</b>  | Nickel-plated   |
| <b>Opt</b> | Optalloy®       |
| <b>Ag</b>  | Silver-plated   |
| <b>Sn</b>  | Tin-plated      |
| <b>SST</b> | Stainless steel |
| <b>PVC</b> | PVC             |
| <b>SIL</b> | Silicone        |
| <b>TPE</b> | TPE             |

## Symbols



**Accessories or special tools exist for this product.**



**Before use, please read the enclosed user information i000.**



**The assembly instruction MA000 is available for this product.**



**Optional colors**

**Optional lengths**

# Measurement categories according to IEC/EN 61010-031

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.

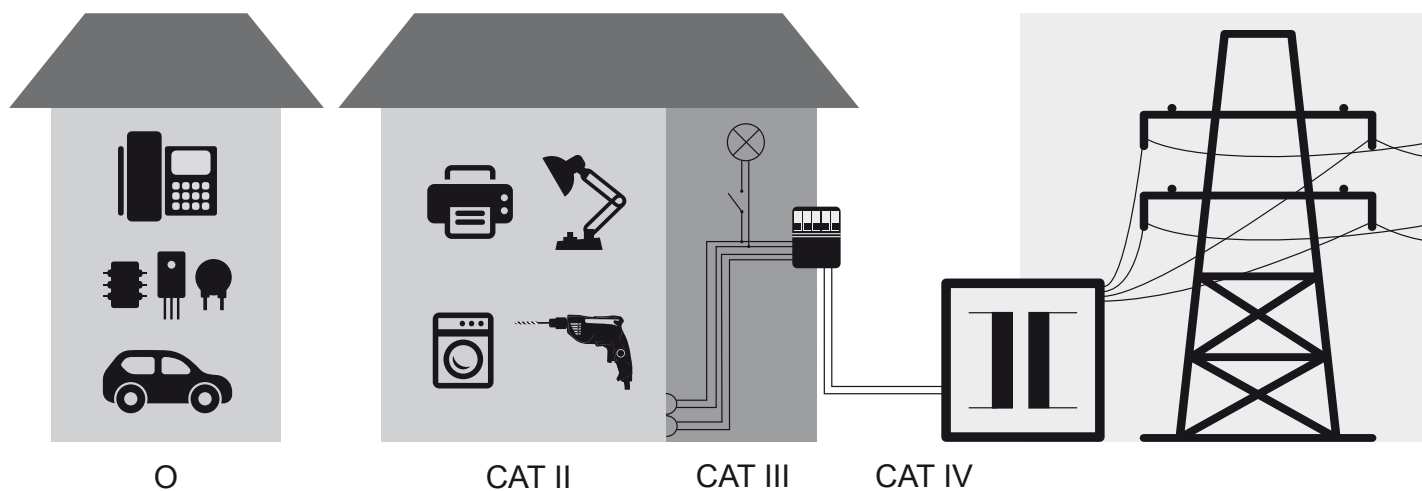
Actually the measurement categories differ not so much in the level of the expected transient values as with regard to the available energy in each test category in the event of a short circuit.

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.

Standard IEC/EN 61010-031 has various measurement categories, abbreviated to "CAT". The declared CAT category followed by a number is given in our catalogs with the rated voltage, and 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 1 MM SYSTEM

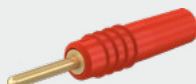
# Overview

|  | Rated voltage | Rated current | Lead insulation | Contact surface | Page |
|--|---------------|---------------|-----------------|-----------------|------|
|--|---------------|---------------|-----------------|-----------------|------|


Measurement leads

|  |                 |       |     |    |   |
|--|-----------------|-------|-----|----|---|
|  | 30 VAC / 60 VDC | 3-6 A | PVC | Au | 9 |
|--|-----------------|-------|-----|----|---|


User configurable plugs and sockets

|  |                 |     |  |    |    |
|--|-----------------|-----|--|----|----|
|  | 30 VAC / 60 VDC | 6 A |  | Au | 10 |
|--|-----------------|-----|--|----|----|

Press-in sockets

|  |                 |      |  |    |    |
|--|-----------------|------|--|----|----|
|  | 30 VAC / 60 VDC | 20 A |  | Au | 11 |
|--|-----------------|------|--|----|----|

Clips

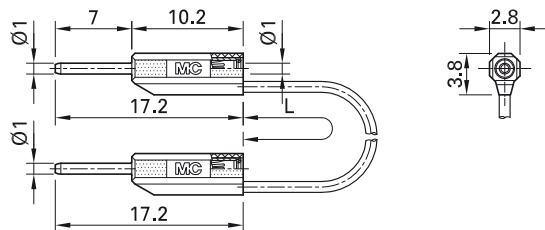
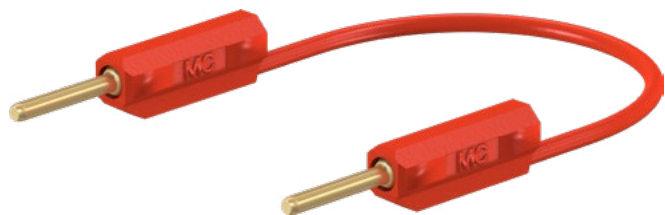
|  |                 |     |  |    |    |
|--|-----------------|-----|--|----|----|
|  | 30 VAC / 60 VDC | 1 A |  | Au | 12 |
|--|-----------------|-----|--|----|----|



# Test leads

## Test lead LK1-A

Highly flexible, with stackable Ø 1 mm rigid plugs on both ends.



| Order No.  | Type  | Rated voltage/current        | Lead                      |    | Lead lengths L [cm] | *Standard colors |
|------------|-------|------------------------------|---------------------------|----|---------------------|------------------|
| 28.0026-□* | LK1-A | 30 VAC / 3 A<br>60 VDC / 3 A | PVC 0.127 mm <sup>2</sup> | Au | 015 030             | 21 22            |



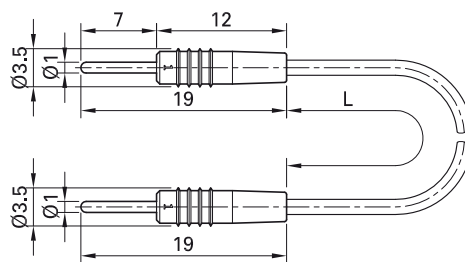
Optional colors [23](#)

Optional lengths on demand

Further information, page 6

## Test lead LK1-S

Highly flexible, with in-line Ø 1 mm rigid plugs on both ends.



| Order No.  | Type  | Rated voltage/current        | Lead                     |    | Lead lengths L [cm] | *Standard colors |
|------------|-------|------------------------------|--------------------------|----|---------------------|------------------|
| 28.0028-□* | LK1-S | 30 VAC / 6 A<br>60 VDC / 6 A | PVC 0.25 mm <sup>2</sup> | Au | 030                 | 21 22            |



Optional colors [23](#) [24](#) [25](#) [26](#) [29](#)

Optional lengths on demand

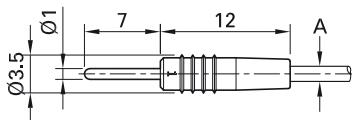
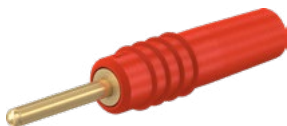
Further information, page 6

# User configurable plugs and sockets

## Plug SLS1-S

Ø 1 mm rigid for self-assembly of test leads.

**Solder connection.**



| Order No. | Type   | Rated voltage/current        | Cable (A)                             |    | *Standard colors |
|-----------|--------|------------------------------|---------------------------------------|----|------------------|
| 22.2602-* | SLS1-S | 30 VAC / 6 A<br>60 VDC / 6 A | max. Ø 1.7 mm<br>0.25 mm <sup>2</sup> | Au | 21 22            |

### Component parts

|           |       |           |
|-----------|-------|-----------|
| 22.2070-* | KT1-S | Insulator |
| 22.1007   | LS1-S | Plug      |



Assembly instructions MA144

[www.staubli.com/electrical](http://www.staubli.com/electrical)



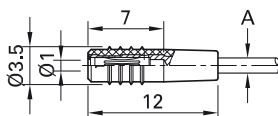
Optional colors 23 24 25 26 27 28 29

Further information, page 6

## Socket SLS1-B

Ø 1 mm with spring-loaded MULTILAM for self-assembly of test leads.

**Solder connection.**



| Order No. | Type   | Rated voltage/current        | Cable (A)                             |    | *Standard colors |
|-----------|--------|------------------------------|---------------------------------------|----|------------------|
| 22.2603-* | SLS1-B | 30 VAC / 6 A<br>60 VDC / 6 A | max. Ø 1.7 mm<br>0.25 mm <sup>2</sup> | Au | 21 22            |

### Component parts

|           |       |           |
|-----------|-------|-----------|
| 22.2070-* | KT1-S | Insulator |
| 22.1008   | LS1-B | Socket    |



Assembly instructions MA145

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 23 24 25 29

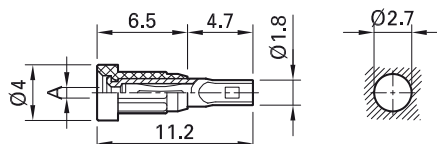
Further information, page 6

# Press-in sockets

## Press-in socket EB1

Insulated, Ø 1 mm, spring-loaded with MULTILAM. Brass. The socket is pressed into predrilled panels.

**Solder connection.**



| Order No. | Type | Rated voltage/current          | Socket diameter (A) |    | *Standard colors |
|-----------|------|--------------------------------|---------------------|----|------------------|
| 23.1010-* | EB1  | 30 VAC / 20 A<br>60 VDC / 20 A | Ø 1.0 mm            | Au | 21 22 23 24      |

### Component parts

|           |       |           |
|-----------|-------|-----------|
| 23.5000-* | I-EB1 | Insulator |
| 41.0010   | LB1   | Socket    |



Optional colors 20 25 26 27 28 29

Further information, page 6



**Press-in tool MB1, page 171**



**Assembly instructions MA102**

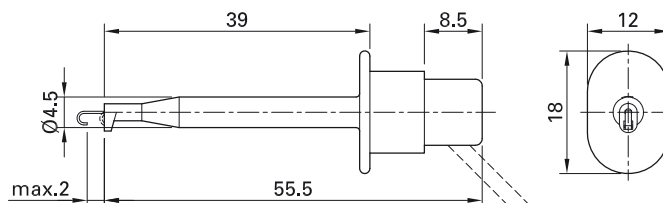
[www.staubli.com/electrical](http://www.staubli.com/electrical)

# Clips

## Test clip KPS1

Made of hard-drawn copper alloy for grasping IC legs, plug pins and bare wire connections. Grasped objects are pressed against the tip of the insulator under spring pres-

sure. The low weight of the clip imposes hardly any load even on critical contacts. Solder connection for wires.



| Order No. | Type | Rated voltage/current        | Clamping limit |    | *Standard colors |
|-----------|------|------------------------------|----------------|----|------------------|
| 24.0135-* | KPS1 | 30 VAC / 1 A<br>60 VDC / 1 A | max. 2 mm      | Au | 21               |


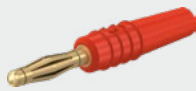







Optional colors 22

Further information, page 6

Ø 2 MM SYSTEM

Overview

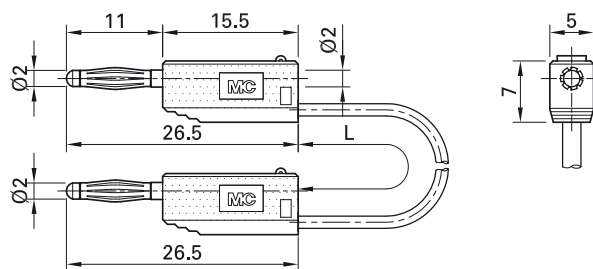
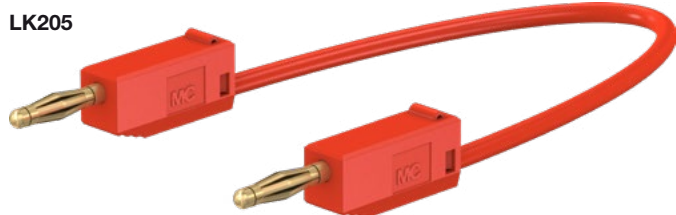
|  | Rated voltage                                     | Rated current | Lead insulation | Contact surface | Page |
|--|---|---------------|-----------------|-----------------|------|
| Measurement leads  |   |               |                 |                 |      |
|    | 30 VAC / 60 VDC<br>600 V, CAT II – 600 V, CAT III | 10 A          | PVC SIL         | Au Ni           | 14   |
| User configurable plugs and sockets  |   |               |                 |                 |      |
|    | 30 VAC / 60 VDC<br>600 V, CAT II                  | 10 A          |                 | Au Ni           | 18   |
| Solder-in / press-in / built-in socket   |   |               |                 |                 |      |
|   | 30 VAC / 60 VDC<br>600 V, CAT III                 | 10-15 A       |                 | Au Ni Opt       | 27   |
| Connection plug  |   |               |                 |                 |      |
|  | 30 VAC / 60 VDC<br>600 V, CAT II                  | 10 A          |                 | Au Ni           | 37   |
| Test probes  |   |               |                 |                 |      |
|  | 1000 V, CAT III                                   | 1 A           |                 | SST             | 40   |
| Clips  |   |               |                 |                 |      |
|  | 30 VAC / 60 VDC<br>300 V, CAT II – 600 V, CAT III | 1-10 A        | PVC             | Au Ni Sn        | 41   |
| Adapter  |   |               |                 |                 |      |
|  | 30 VAC / 60 VDC<br>600 V, CAT II – 300 V, CAT III | 10 A          | PVC             | Au              | 44   |

Ø 2 MM SYSTEM

# Test leads

## Test lead LK205...

Highly flexible with stackable Ø 2 mm MULTILAM plugs on both ends.



| Order No.  | Type    | Rated voltage/current          | Lead                    |    | Lead lengths L [cm]             | *Standard colors           |
|------------|---------|--------------------------------|-------------------------|----|---------------------------------|----------------------------|
| 28.0115-□* | LK205-X | 30 VAC / 10 A<br>60 VDC / 10 A | PVC 0.5 mm <sup>2</sup> | Ni | 007 (7.5 cm)<br>015 030 045 060 | 21 22 23 24                |
| 28.0039-□* | LK205   | 30 VAC / 10 A<br>60 VDC / 10 A | PVC 0.5 mm <sup>2</sup> | Au | 015 030 045 060                 | 21 22 23 24 25<br>27 28 29 |



User information **i093**

[www.staubli.com/electrical](http://www.staubli.com/electrical)



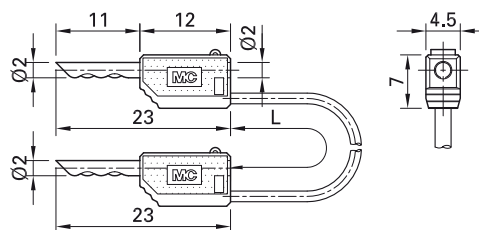
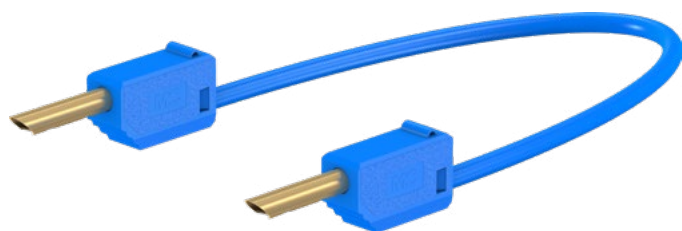
Optional colors 25 26 27 28 29

Optional lengths on demand

Further information, page 6

## Test lead LK2-F

Highly flexible with stackable Ø 2 mm hollow plugs on both ends.



| Order No.  | Type  | Rated voltage/current          | Lead                    |    | Lead lengths L [cm] | *Standard colors |
|------------|-------|--------------------------------|-------------------------|----|---------------------|------------------|
| 28.0033-□* | LK2-F | 30 VAC / 10 A<br>60 VDC / 10 A | PVC 0.5 mm <sup>2</sup> | Au | 030 060             | 21 22 23         |



User information **i093**

[www.staubli.com/electrical](http://www.staubli.com/electrical)



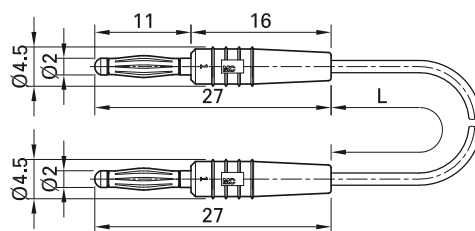
Optional colors 24 25 27 28 29

Optional lengths on demand

Further information, page 6

## Test lead LK205-L

Highly flexible with in-line Ø 2 mm  
MULTILAM plugs on both ends.



| Order No.  | Type    | Rated voltage/current          | Lead                    |    | Lead lengths L [cm] | *Standard colors |
|------------|---------|--------------------------------|-------------------------|----|---------------------|------------------|
| 28.0047-□* | LK205-L | 30 VAC / 10 A<br>60 VDC / 10 A | PVC 0.5 mm <sup>2</sup> | Au | 007 (7.5 cm)        | 21 22            |



### User information i093

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 23 24 25 26 28 29

Optional lengths on demand

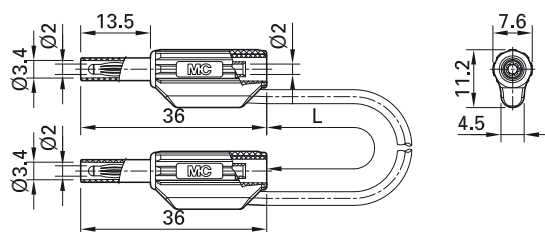
Further information, page 6

## 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] | *Standard colors  |
|------------|--------------|-----------------------|-------------------------|---------------|---------------------|-------------------|
| 65.9179-□* | SLK205-K     | 600 V, CAT II / 10 A  | PVC 0.5 mm <sup>2</sup> | Au CE c UL US | 030 060 100         | 21 22 23<br>24 25 |
| 65.9180-□* | SLK205-K/SIL | 600 V, CAT II / 10 A  | SIL 0.5 mm <sup>2</sup> | Au CE c UL US | 100                 | 21 22             |



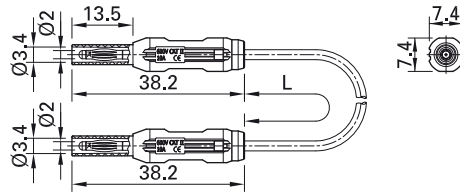
Optional colors 23 24 25 29

Optional lengths on demand

Further information, page 6

## 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.



| Order No.  | Type      | Rated voltage/current | Lead                    |       | Lead lengths L [cm] | *Standard colors |
|------------|-----------|-----------------------|-------------------------|-------|---------------------|------------------|
| 65.3307-□* | SLK205-LA | 600 V, CAT II / 10 A  | PVC 0.5 mm <sup>2</sup> | Au CE | 100                 | 21 22            |



Optional colors 23 24 25 29

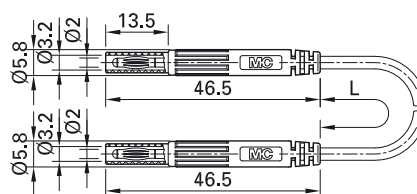
Optional lengths on demand

Further information, page 6

## 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] | *Standard colors |
|------------|--------------|-----------------------|-------------------------|---------------|---------------------|------------------|
| 65.9173-□* | SLK205-L     | 600 V, CAT III / 10 A | PVC 0.5 mm <sup>2</sup> | Au CE c UL US | 100                 | 21 22            |
| 65.9174-□* | SLK205-L/SIL | 600 V, CAT III / 10 A | SIL 0.5 mm <sup>2</sup> | Au CE c UL US | 100                 | 21 22            |



Optional colors 23 24 25 29

Optional lengths on demand

Further information, page 6



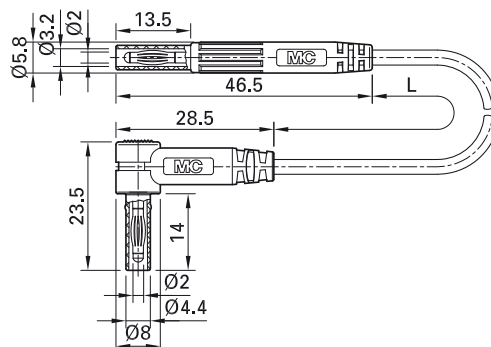
## Test lead SLK205-W/L...

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] | *Standard colors |
|------------|----------------|-----------------------|-------------------------|-------|---------------------|------------------|
| 65.9577-□* | SLK205-W/L     | 600 V, CAT III / 10 A | PVC 0.5 mm <sup>2</sup> | Au CE | 100                 | 21 22            |
| 65.9578-□* | SLK205-W/L/SIL | 600 V, CAT III / 10 A | SIL 0.5 mm <sup>2</sup> | Au CE | 100                 | 21 22            |



Optional colors 23 24 25 29

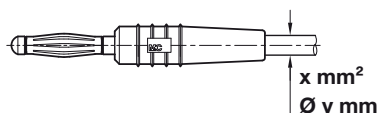
Optional lengths on demand

Further information, page 6

# User configurable 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".

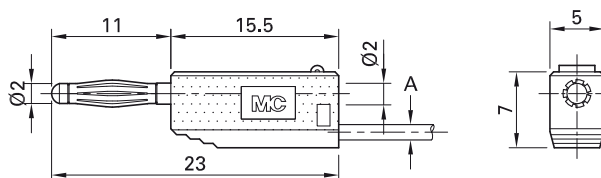
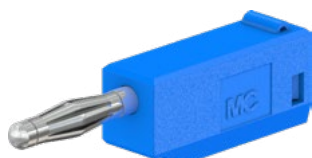
## Plug SLS205...

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

**Solder connection.**

SLS205

SLS205-X



| Order No. | Type     | Rated voltage/current          | Cable (A)  |     | *Standard colors |          |                     |     |  |          |    |          |
|-----------|----------|--------------------------------|--|-----|------------------|----------|---------------------|-----|--|----------|----|----------|
| 22.2616-* | SLS205   | 30 VAC / 10 A<br>60 VDC / 10 A | <table border="1"> <tr> <td>PVC</td> <td>TPE</td> <td>Ø 2.1 mm</td> <td rowspan="2">0.5 mm<sup>2</sup></td> </tr> <tr> <td>SIL</td> <td></td> <td>Ø 2.3 mm</td> </tr> </table> | PVC | TPE              | Ø 2.1 mm | 0.5 mm <sup>2</sup> | SIL |  | Ø 2.3 mm | Au | 21 22    |
| PVC       | TPE      | Ø 2.1 mm                       | 0.5 mm <sup>2</sup>  |     |                  |          |                     |     |  |          |    |          |
| SIL       |          | Ø 2.3 mm                       |  |     |                  |          |                     |     |  |          |    |          |
| 22.2617-* | SLS205-X | 30 VAC / 10 A<br>60 VDC / 10 A | <table border="1"> <tr> <td>PVC</td> <td>TPE</td> <td>Ø 2.1 mm</td> <td rowspan="2">0.5 mm<sup>2</sup></td> </tr> <tr> <td>SIL</td> <td></td> <td>Ø 2.3 mm</td> </tr> </table> | PVC | TPE              | Ø 2.1 mm | 0.5 mm <sup>2</sup> | SIL |  | Ø 2.3 mm | Ni | 21 22 23 |
| PVC       | TPE      | Ø 2.1 mm                       | 0.5 mm <sup>2</sup>  |     |                  |          |                     |     |  |          |    |          |
| SIL       |          | Ø 2.3 mm                       |  |     |                  |          |                     |     |  |          |    |          |

### Component parts

|           |        |                   |
|-----------|--------|-------------------|
| 22.2030-* | KT205  | Insulator         |
| 22.1004   | LS205  | Plug for SLS205   |
| 22.5006   | LS205N | Plug for SLS205-X |



Assembly instructions MA134

[www.staubli.com/electrical](http://www.staubli.com/electrical)



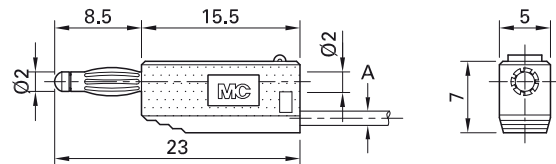
Optional colors 20 23 24 25 26 27 28 29

Further information, page 6

## Plug SLS205-A

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

**Solder connection.**



| Order No. | Type     | Rated voltage/current          | Cable (A)  | *Standard colors |     |          |                     |     |  |          |  |    |    |    |
|-----------|----------|--------------------------------|--|------------------|-----|----------|---------------------|-----|--|----------|--|----|----|----|
| 22.2615-* | SLS205-A | 30 VAC / 10 A<br>60 VDC / 10 A | <table border="0"> <tr> <td>PVC</td> <td>TPE</td> <td>Ø 2.1 mm</td> <td rowspan="2">0.5 mm<sup>2</sup></td> </tr> <tr> <td>SIL</td> <td></td> <td>Ø 2.3 mm</td> </tr> </table> | PVC              | TPE | Ø 2.1 mm | 0.5 mm <sup>2</sup> | SIL |  | Ø 2.3 mm | <table border="0"> <tr> <td>Au</td> <td>21</td> <td>22</td> </tr> </table> | Au | 21 | 22 |
| PVC       | TPE      | Ø 2.1 mm                       | 0.5 mm <sup>2</sup>  |                  |     |          |                     |     |  |          |  |    |    |    |
| SIL       |          | Ø 2.3 mm                       |  |                  |     |          |                     |     |  |          |  |    |    |    |
| Au        | 21       | 22                             |  |                  |     |          |                     |     |  |          |  |    |    |    |

### Component parts

|           |         |           |
|-----------|---------|-----------|
| 22.2030-* | KT205   | Insulator |
| 22.5014   | LS205-A | Plug      |



Optional colors 20 23 24 25 26 27 28 29

Further information, page 6



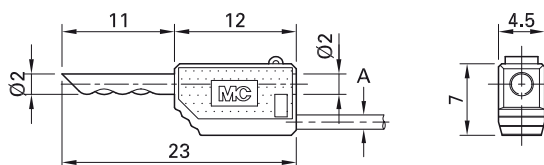
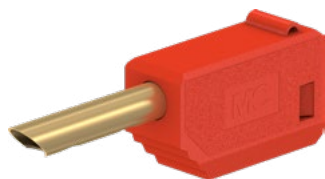
**Assembly instructions MA135**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug SLS2-F

Stackable, Ø 2 mm hollow plugs for self-assembly of test leads.

**Solder connection.**



| Order No. | Type   | Rated voltage/current          | Cable (A)  | *Standard colors |     |          |                     |     |  |          |  |    |    |    |
|-----------|--------|--------------------------------|--|------------------|-----|----------|---------------------|-----|--|----------|--|----|----|----|
| 22.2611-* | SLS2-F | 30 VAC / 10 A<br>60 VDC / 10 A | <table border="0"> <tr> <td>PVC</td> <td>TPE</td> <td>Ø 2.1 mm</td> <td rowspan="2">0.5 mm<sup>2</sup></td> </tr> <tr> <td>SIL</td> <td></td> <td>Ø 2.3 mm</td> </tr> </table> | PVC              | TPE | Ø 2.1 mm | 0.5 mm <sup>2</sup> | SIL |  | Ø 2.3 mm | <table border="0"> <tr> <td>Au</td> <td>21</td> <td>22</td> </tr> </table> | Au | 21 | 22 |
| PVC       | TPE    | Ø 2.1 mm                       | 0.5 mm <sup>2</sup>  |                  |     |          |                     |     |  |          |  |    |    |    |
| SIL       |        | Ø 2.3 mm                       |  |                  |     |          |                     |     |  |          |  |    |    |    |
| Au        | 21     | 22                             |  |                  |     |          |                     |     |  |          |  |    |    |    |

### Component parts

|           |       |           |
|-----------|-------|-----------|
| 22.2020-* | KT2-F | Insulator |
| 22.1006   | LS2-F | Plug      |



Optional colors 23 24 25 27 29

Further information, page 6



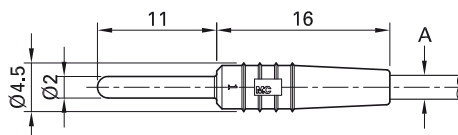
**Assembly instructions MA133**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug SLS2-S

In-line, rigid, Ø 2 mm for self-assembly of test leads.

**Solder connection.**



| Order No. | Type   | Rated voltage/current          | Cable (A)                            |    | *Standard colors |
|-----------|--------|--------------------------------|--------------------------------------|----|------------------|
| 22.2609-* | SLS2-S | 30 VAC / 10 A<br>60 VDC / 10 A | max. Ø 2.1 mm<br>0.5 mm <sup>2</sup> | Au | 21 22 23         |

### Component parts

|           |       |           |
|-----------|-------|-----------|
| 22.2010-* | KT2-S | Insulator |
| 22.1002   | LS2-S | Plug      |



Assembly instructions MA132

[www.staubli.com/electrical](http://www.staubli.com/electrical)



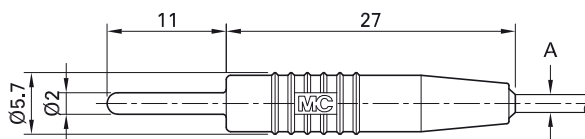
Optional colors 24 25 26 27 28 29

Further information, page 6

## Plug SLS205-U

In-line, rigid, Ø 2 mm for self-assembly of test leads. Soft insulator.

**Solder connection.**



| Order No. | Type     | Rated voltage/current          | Cable (A)                            |    | *Standard colors |
|-----------|----------|--------------------------------|--------------------------------------|----|------------------|
| 22.2608-* | SLS205-U | 30 VAC / 10 A<br>60 VDC / 10 A | max. Ø 2.3 mm<br>0.5 mm <sup>2</sup> | Au | 21 22 23         |

### Component parts

|           |         |           |
|-----------|---------|-----------|
| 22.2360-* | KT205-S | Insulator |
| 22.1041   | LS205-U | Plug      |



Assembly instructions MA137

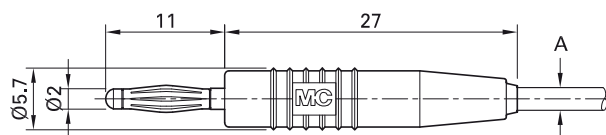
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug SLS205-S

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

Soft insulator.

**Solder connection.**



| Order No. | Type     | Rated voltage/current          | Cable (A)     |                     |    | *Standard colors |
|-----------|----------|--------------------------------|---------------|---------------------|----|------------------|
| 22.2620-* | SLS205-S | 30 VAC / 10 A<br>60 VDC / 10 A | max. Ø 2.3 mm | 0.5 mm <sup>2</sup> | Au | 21 22 23         |

### Component parts

|           |         |           |
|-----------|---------|-----------|
| 22.2360-* | KT205-S | Insulator |
| 22.1040   | LS205-S | Plug      |



**Assembly instructions MA137**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug SLS205-L...

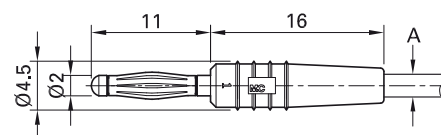
In-line, Ø 2 mm with spring-loaded MULTILAM for self-assembly of test leads.

**Solder connection.**

SLS205-L



SLS205-L/N



| Order No. | Type       | Rated voltage/current          | Cable (A)                            |    | *Standard colors |
|-----------|------------|--------------------------------|--------------------------------------|----|------------------|
| 22.2618-* | SLS205-L   | 30 VAC / 10 A<br>60 VDC / 10 A | max. Ø 2.1 mm<br>0.5 mm <sup>2</sup> | Au | 21 22 23 24 25   |
| 22.2619-* | SLS205-L/N | 30 VAC / 10 A<br>60 VDC / 10 A | max. Ø 2.1 mm<br>0.5 mm <sup>2</sup> | Ni | 21 22            |

### Component parts

|           |           |                     |
|-----------|-----------|---------------------|
| 22.2010-* | KT2-S     | Insulator           |
| 22.1009   | LS205-L   | Plug for SLS205-L   |
| 22.5029   | LS205-L/N | Plug for SLS205-L/N |



Optional colors 23 24 25 26 27 28 29

Further information, page 6



**Assembly instructions MA136**

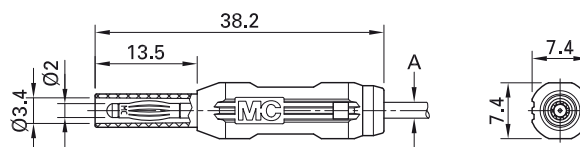
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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.**



| Order No. | Type     | Rated voltage/current | Cable (A)                         |    | *Standard colors |
|-----------|----------|-----------------------|-----------------------------------|----|------------------|
| 65.3309-* | SL205-LA | 600 V, CAT II / 10 A  | max. Ø 2.7 mm 0.5 mm <sup>2</sup> | Au | 21 22            |



Optional colors 23 24 25 29

Further information, page 6



**Assembly instructions MAH544**

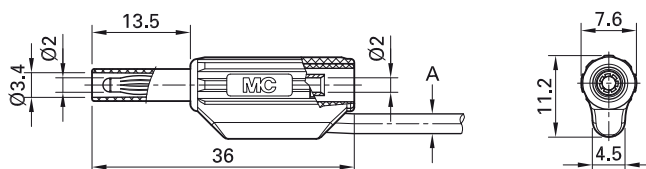
[www.staubli.com/electrical](http://www.staubli.com/electrical)



## Plug SL205-K

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

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



| Order No. | Type     | Rated voltage/current | Cable (A)   |     | *Standard colors |                     |     |          |    |             |
|-----------|----------|-----------------------|---|-----|------------------|---------------------|-----|----------|----|-------------|
| 65.9182-* | SL205-K  | 600 V, CAT II / 10 A  | <table border="0"> <tr> <td>PVC</td> <td>Ø 2.3 mm</td> <td rowspan="2">0.5 mm<sup>2</sup></td> </tr> <tr> <td>SIL</td> <td>Ø 2.7 mm</td> </tr> </table> | PVC | Ø 2.3 mm         | 0.5 mm <sup>2</sup> | SIL | Ø 2.7 mm | Au | 21 22 23 24 |
| PVC       | Ø 2.3 mm | 0.5 mm <sup>2</sup>   |   |     |                  |                     |     |          |    |             |
| SIL       | Ø 2.7 mm |                       |   |     |                  |                     |     |          |    |             |



Assembly instructions MAH500

[www.staubli.com/electrical](http://www.staubli.com/electrical)



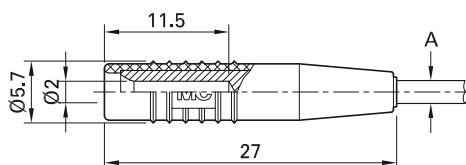
Optional colors 25 29

Further information, page 6

## Socket SLS205-B

Ø 2 mm rigid for self-assembly of test leads.  
Soft insulator.

**Solder connection.**



| Order No. | Type     | Rated voltage/current          | Cable (A)                            |    | *Standard colors |
|-----------|----------|--------------------------------|--------------------------------------|----|------------------|
| 22.2621-* | SLS205-B | 30 VAC / 10 A<br>60 VDC / 10 A | max. Ø 2.3 mm<br>0.5 mm <sup>2</sup> | Au | 21 22            |

### Component parts

|           |         |           |
|-----------|---------|-----------|
| 22.2360-* | KT205-S | Insulator |
| 22.1038   | LS205-B | Socket    |



Assembly instructions MA138

[www.staubli.com/electrical](http://www.staubli.com/electrical)



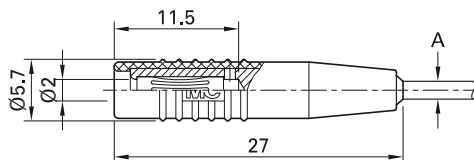
Optional colors 23

Further information, page 6

## Socket SLS205-BF

Ø 2 mm with spring-loaded MULTILAM for self-assembly of test leads. Soft insulator.

**Solder connection.**



| Order No. | Type      | Rated voltage/current          | Cable (A)                            |    | *Standard colors |
|-----------|-----------|--------------------------------|--------------------------------------|----|------------------|
| 22.2622-* | SLS205-BF | 30 VAC / 10 A<br>60 VDC / 10 A | max. Ø 2.3 mm<br>0.5 mm <sup>2</sup> | Au | 21               |

### Component parts

|           |          |           |
|-----------|----------|-----------|
| 22.2360-* | KT205-S  | Insulator |
| 22.1039   | LS205-BF | Socket    |



Assembly instructions MA138

[www.staubli.com/electrical](http://www.staubli.com/electrical)



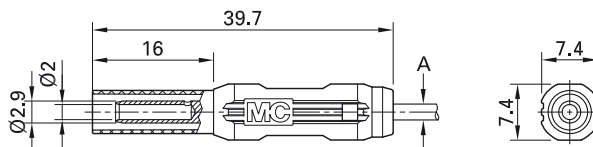
Optional colors 22 23

Further information, page 6

## 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.**



| Order No. | Type     | Rated voltage/current | Cable (A)                            |    | *Standard colors |
|-----------|----------|-----------------------|--------------------------------------|----|------------------|
| 65.3319-* | SL205-BA | 600 V, CAT II / 10 A  | max. Ø 2.7 mm<br>0.5 mm <sup>2</sup> | Au | 21 22            |



Assembly instructions MAH544

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 23 24 25 29

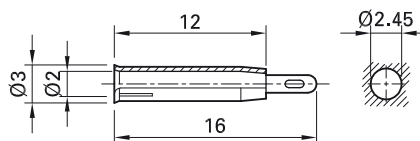
Further information, page 6

# Solder-in / press-in / built-in socket

## Press-in socket LB2

Uninsulated  $\varnothing$  2 mm rigid, made of rolled brass sheet. Mounting by pressing or soldering into holes drilled in printed circuit boards or housings.

### Solder connection.



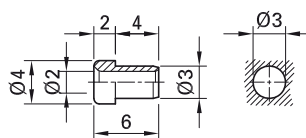
| Order No. | Type | Rated voltage/current          |    |  |
|-----------|------|--------------------------------|----|--|
| 23.1001   | LB2  | 30 VAC / 10 A<br>60 VDC / 10 A | Au |  |



Press-in tool MB2, page 171

## Solder-in socket LB2-A

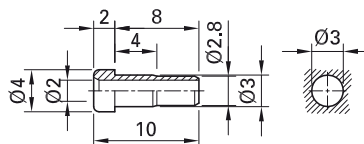
Uninsulated  $\varnothing$  2 mm rigid. Machined brass. The socket is soldered into predrilled panels.



| Order No. | Type  | Rated voltage/current          |    |  |
|-----------|-------|--------------------------------|----|--|
| 23.1000   | LB2-A | 30 VAC / 10 A<br>60 VDC / 10 A | Au |  |

## Solder-in socket LB2-D

Uninsulated Ø 2 mm rigid. Machined brass.  
The socket is soldered into predrilled panels.

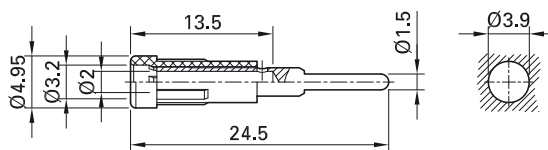


| Order No. | Type  | Rated voltage/current          |    |  |
|-----------|-------|--------------------------------|----|--|
| 49.7512   | LB2-D | 30 VAC / 10 A<br>60 VDC / 10 A | Au |  |

## Press-in socket EPB-2N/S

Insulated Ø 2 mm rigid. Machined brass.  
The socket is pressed into predrilled panels

of plastic, metal etc. **Connection: Solder**  
**pin Ø 1.5 mm.**



| Order No. | Type     | Rated voltage/current          |    | *Standard colors  |    |    |    |    |    |    |    |    |  |  |
|-----------|----------|--------------------------------|----|---|----|----|----|----|----|----|----|----|--|--|
| 63.9318-* | EPB-2N/S | 30 VAC / 10 A<br>60 VDC / 10 A | 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                             |    |   |    |    |    |    |    |    |    |    |  |  |

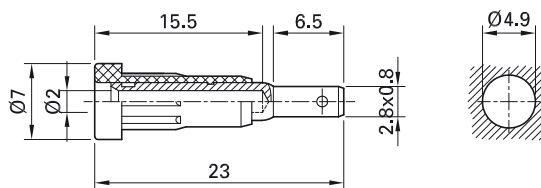


Press-in tool MB2, page 171

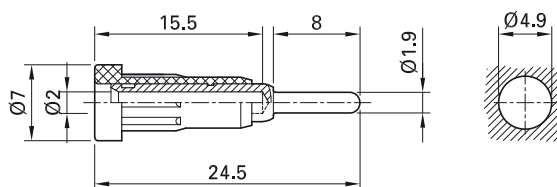
## Press-in socket EB2...

Insulated Ø 2 mm rigid made of machined brass. The socket is pressed into predrilled panels of plastic, metal etc.

### EB2



### EB2-A



| Order No. | Type  | Rated voltage/current          | Connection                             |    | *Standard colors              |
|-----------|-------|--------------------------------|--|----|-------------------------------|
| 23.1011-* | EB2   | 30 VAC / 10 A<br>60 VDC / 10 A | Flat connecting tab<br>2.8 mm x 0.8 mm | Au | 21 22 23 24 25<br>26 27 28 29 |
| 23.1012-* | EB2-A | 30 VAC / 10 A<br>60 VDC / 10 A | Round connecting pin Ø 1.9 mm          | Au | 21 22 23                      |

### Component parts

|           |         |                  |
|-----------|---------|------------------|
| 23.5011-* | I-EB2   | Insulator        |
| 23.5010   | B-EB2   | Socket for EB2   |
| 23.5002   | B-EB2-A | Socket for EB2-A |



Optional colors 20 24 25 26 27 28 29

Further information, page 6



Press-in tool MB2, page 171

Flat connecting receptacle FSH2,8x0,8:  
page 170



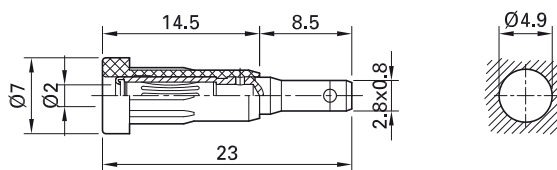
Assembly instructions MA102

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Press-in socket EB2-F

Insulated, Ø 2 mm, spring-loaded with MULTILAM. Machined brass. The socket is pressed into predrilled panels of plastic, metal etc.

**Flat connecting tab 2.8 mm x 0.8 mm.**



| Order No. | Type  | Rated voltage/current          |     | *Standard colors |
|-----------|-------|--------------------------------|-----|------------------|
| 23.1021-* | EB2-F | 30 VAC / 10 A<br>60 VDC / 10 A | Opt | 21 22            |

### Component parts

|           |         |           |
|-----------|---------|-----------|
| 23.5011-* | I-EB2   | Insulator |
| 23.5005   | B-EB2-F | Socket    |



Optional colors 20 23 24 25 26 27 28 29

Further information, page 6



**Press-in tool MB2, page 171**

**Flat connecting receptacle FSH2,8x0,8,  
page 170**



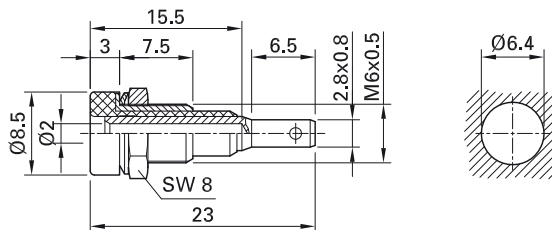
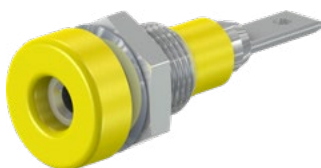
**Assembly instructions MA102**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Panel-mount socket LB-I2R

Insulated Ø 2 mm rigid. Machined brass. Metal thread jacket on the insulation. The socket can be screw-mounted in predrilled panels.

**Flat connecting tab 2.8 mm x 0.8 mm.**



| Order No. | Type   | Rated voltage/current          |     | *Standard colors  |    |    |    |    |    |    |    |    |    |    |
|-----------|--------|--------------------------------|-----|---|----|----|----|----|----|----|----|----|----|----|
| 23.0030-* | LB-I2R | 30 VAC / 10 A<br>60 VDC / 10 A | Opt | <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

|           |           |             |
|-----------|-----------|-------------|
| 23.5059-* | BI-LB-I2R | Socket      |
| Page 166  | MU/M6x0,5 | Hexagon nut |
| Page 167  | SP2       | Washer      |

Also available under order No. 23.0040-\* with round nut MUR/M6x0,5 (Tube spanner: SS2).

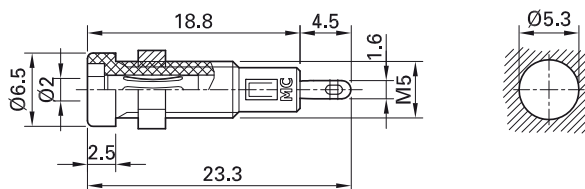


**Flat connecting receptacle FSH2,8x0,8, page 170**

## Panel-mount socket LB2-IF

Insulated, Ø 2 mm with spring-loaded MULTILAM. The socket can be screw-mounted in predrilled panels.

**Solder connection.**



| Order No. | Type   | Rated voltage/current          |    | *Standard colors   |    |    |    |    |    |
|-----------|--------|--------------------------------|----|--|----|----|----|----|----|
| 23.0050-* | LB2-IF | 30 VAC / 10 A<br>60 VDC / 10 A | Au | <table border="1"> <tr> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> </table> | 21 | 22 | 23 | 24 | 25 |
| 21        | 22     | 23                             | 24 | 25   |    |    |    |    |    |

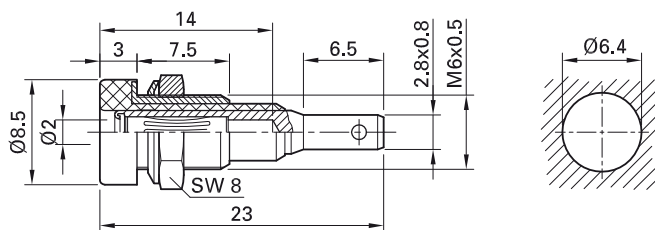
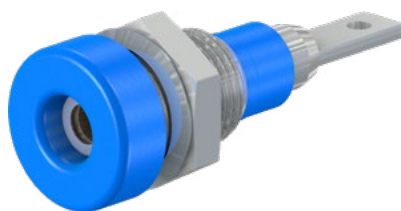
### Component parts

|           |           |             |
|-----------|-----------|-------------|
| 23.5062-* | BI-LB2-IF | Socket      |
| Page 166  | MU/M5     | Hexagon nut |

## Panel-mount socket LB-IF2R

Insulated, Ø 2 mm with spring-loaded MULTILAM. Machined brass. Metal thread jacket on the insulation. The socket can be screw-mounted in predrilled panels.

**Flat connecting tab 2.8 mm x 0.8 mm.**



| Order No. | Type    | Rated voltage/current          |     | *Standard colors |
|-----------|---------|--------------------------------|-----|------------------|
| 23.0060-* | LB-IF2R | 30 VAC / 10 A<br>60 VDC / 10 A | Opt | 21 22 23 24 25   |

### Component parts

|           |            |             |
|-----------|------------|-------------|
| 23.5021-* | BI-LB-IF2R | Socket      |
| Page 166  | MU/M6x0,5  | Hexagon nut |
| Page 167  | SP2        | Washer      |

Also available under order No. 23.0020-  
with round nut MUR/M6x0,5 (Tube spanner:  
SS2).



Optional colors 20 26 27 28 29

Further information, page 6



**Flat connecting receptacle FSH2,8x0,8,**  
page 170



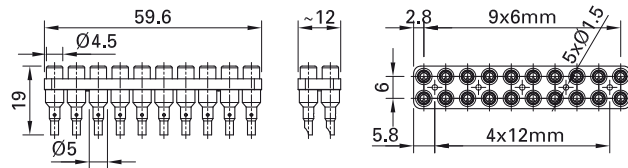
## Socket strip BL2-.../20...

20-pole socket strips, consisting of 2 rows of 10 rigid sockets with solder connection. No need for individual mounting of sockets:

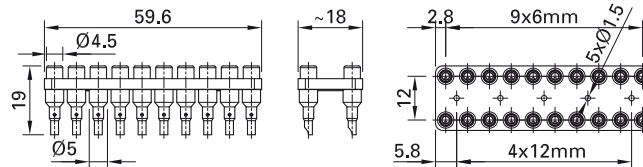
Simplified panel drilling, orientation of solder connections and compact mounting with

only 5 screws. Available with socket spacings of 6 mm and 12 mm.

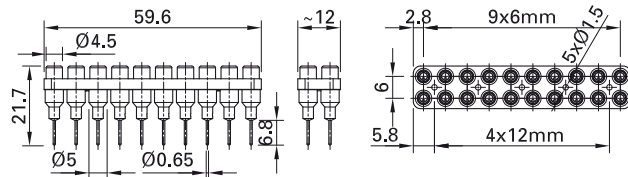
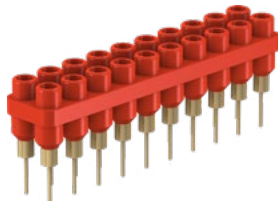
### BL2-6/20/A



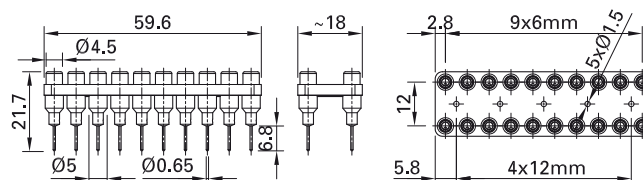
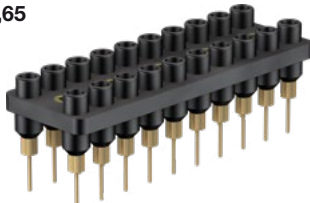
### BL2-12/20/A



### BL2-6/20-0,65



### BL2-12/20-0,65



| Order No. | Type           | Rated voltage/current          | Number of sockets | Plug spacing | Assembly instructions |    | *Standard colors |
|-----------|----------------|--------------------------------|-------------------|--------------|-----------------------|----|------------------|
| 63.9356-* | BL2-6/20/A     | 30 VAC / 10 A<br>60 VDC / 10 A | 2 x 10            | 6 mm         | MAH559A               | Au | 21 22            |
| 63.9358-* | BL2-12/20/A    | 30 VAC / 10 A<br>60 VDC / 10 A | 2 x 10            | 12 mm        | MAH559B               | Au | 21 22            |
| 63.9364-* | BL2-6/20-0,65  | 30 VAC / 10 A<br>60 VDC / 10 A | 2 x 10            | 6 mm         | MAH559D               | Au | 21 22            |
| 63.9363-* | BL2-12/20-0,65 | 30 VAC / 10 A<br>60 VDC / 10 A | 2 x 10            | 12 mm        | MAH559C               | Au | 21 22            |



Assembly instructions MAH559...

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 23 24 25 29

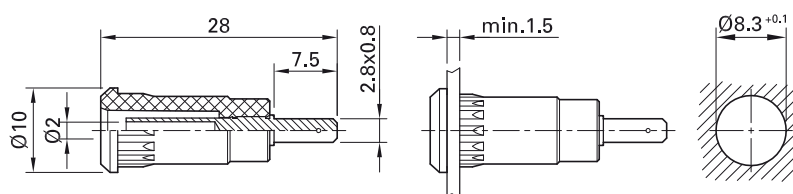
Further information, page 6

## Press-in socket SEB2-...

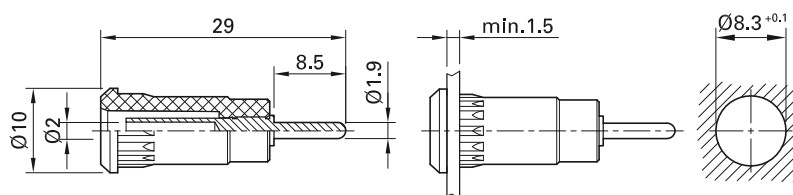
Insulated, rigid, accepting spring-loaded  $\varnothing$  2 mm plugs with rigid insulating sleeve. The socket is pressed into pre-drilled panels of plastic, metal, etc.

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

### SEB2-F2,8



### SEB2-R



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



Optional colors 23 24 25 29

Further information, page 6



**Flat connecting receptacle FSH2,8x0,8:**

page 170

**Press-in tool MB2-S:** page 171



**Assembly instructions MAH510**

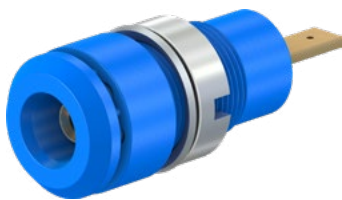
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Panel-mount socket SLB2-...

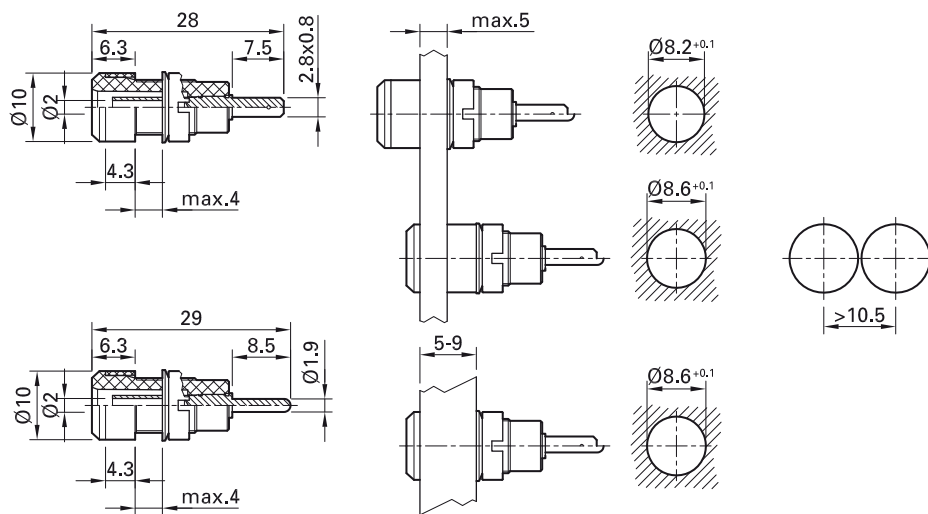
Insulated, rigid, accepting spring-loaded Ø 2 mm plugs with rigid insulating sleeve. The socket is surface-mounted or assembled flush into pre-drilled panels of plastic, metal, etc.

**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                             |          | *Standard colors     |
|-----------|-----------|-----------------------|--|----------|----------------------|
| 65.9098-* | SLB2-F2,8 | 600 V, CAT III / 10 A | Flat connecting tab<br>2.8 mm x 0.8 mm | Au       | 21 22 23 24 25<br>29 |
| 65.9194-* | SLB2-R    | 600 V, CAT III / 10 A | Round connecting pin<br>Ø 1.9 mm       | Au c  us | 21 22 23             |

### Supplied assembly material

|          |            |                   |                   |
|----------|------------|-------------------|-------------------|
|          |            | Spacer sleeve for | SLB2-F2,8, SLB2-R |
| Page 167 | MUR/M8x0,5 | Round nut for     | SLB2-F2,8, SLB2-R |
| Page 167 | SP4        | Washer for        | SLB2-F2,8, SLB2-R |



Optional colors 24 25 29

Further information, page 6



**Flat connecting receptacle FSH2,8x0,8:**

page 170

**Tube spanners SS4, SS2-S:** page 170



**Assembly instructions MAH511**

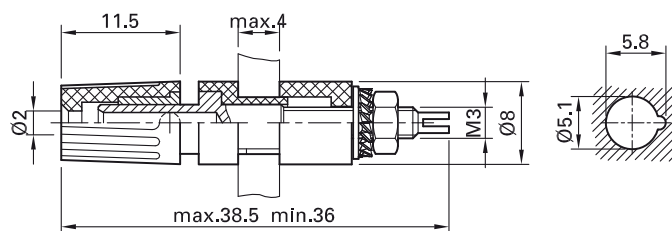
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Binding post PK2-T

Insulated, with  $\varnothing$  2 mm rigid socket and insulated head undetachable. With  $\varnothing$  2 mm cross hole for quick wire connection. Ma-

chined brass. For mounting, with anti-rotation lug, in front panels up to 4 mm thick.

**Connection: Threaded bolt M3.**



| Order No. | Type  | Rated voltage/current          |    | *Standard colors |
|-----------|-------|--------------------------------|----|------------------|
| 23.0290-* | PK2-T | 30 VAC / 15 A<br>60 VDC / 15 A | Ni | 21 22            |

# Connecting plugs

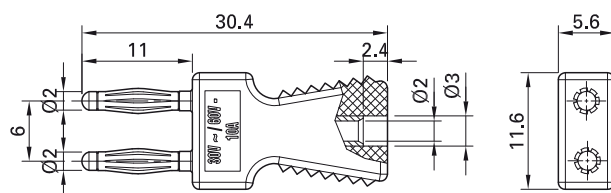
## Connecting plug KS2-...

Insulated, Ø 2 mm, with rigid Ø 2 mm socket in handling part.

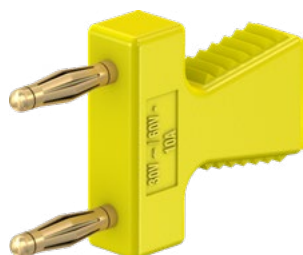
KS2-6L/A



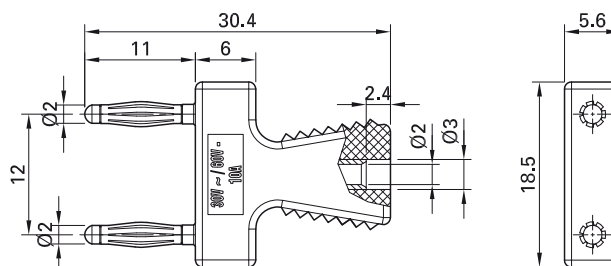
KS2-6L/N



KS2-12L/A



KS2-12L/N



| Order No. | Type      | Rated voltage/current          | Plug spacing | Suitable for |    | *Standard colors |
|-----------|-----------|--------------------------------|--------------|--------------|----|------------------|
| 63.9352-* | KS2-6L/A  | 30 VAC / 10 A<br>60 VDC / 10 A | 6 mm         | BL2-6/20/A   | Au | 21 22            |
| 63.9353-* | KS2-6L/N  | 30 VAC / 10 A<br>60 VDC / 10 A | 6 mm         | BL2-6/20/A   | Ni | 21 22            |
| 63.9354-* | KS2-12L/A | 30 VAC / 10 A<br>60 VDC / 10 A | 12 mm        | BL2-12/20/A  | Au | 21 22 24         |
| 63.9355-* | KS2-12L/N | 30 VAC / 10 A<br>60 VDC / 10 A | 12 mm        | BL2-12/20/A  | Ni | 21 22            |

Our Ø 2 mm connecting plugs KS2-..L.. are equipped with the tried and tested MULTILAM, and make a vibration-proof contact. Together with the socket strips BL2-... (page 33), they are ideally suited

for the saving of space in applications such as panels for testing and servicing in the aviation industry. The gold-plated versions offer a very low contact resistance and extremely high resistance to corrosion.



Optional colors 23 24 25 28 29

Further information, page 6

## Connecting plug KS2-...

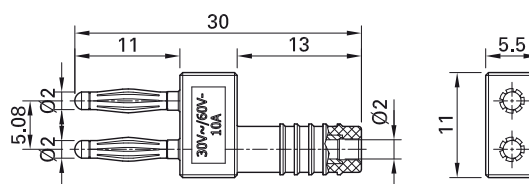
Insulated, Ø 2 mm, made of brass. Equipped with spring-loaded MULTILAM to ensure vibration-proof contacts – ideal use is in the automotive field for test drives and servic-

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

KS2-5,08L/1A/N



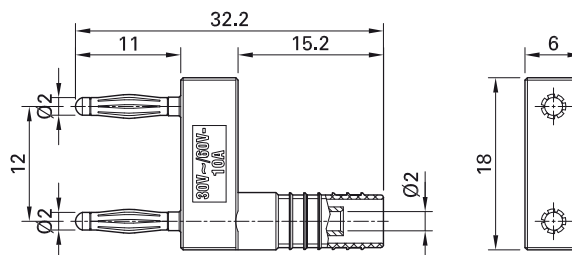
KS2-5,08L/1A/A



KS2-12L/1SA/N



KS2-12L/1SA/A

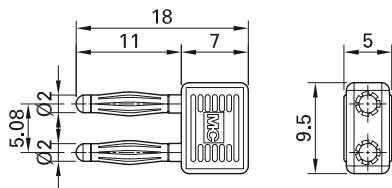


| Order No.  | Type           | Rated voltage/current          | Plug spacing |    | Standard colors |
|------------|----------------|--------------------------------|--------------|----|-----------------|
| 63.9844-21 | KS2-5,08L/1A/N | 30 VAC / 10 A<br>60 VDC / 10 A | 5.08 mm      | Ni | 21              |
| 63.9847-21 | KS2-5,08L/1A/A | 30 VAC / 10 A<br>60 VDC / 10 A | 5.08 mm      | Au | 21              |
| 63.9845-21 | KS2-12L/1SA/N  | 30 VAC / 10 A<br>60 VDC / 10 A | 12 mm        | Ni | 21              |
| 63.9848-21 | KS2-12L/1SA/A  | 30 VAC / 10 A<br>60 VDC / 10 A | 12 mm        | Au | 21              |

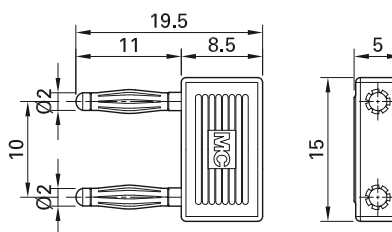
## Connecting plug KS2-...

Insulated, Ø 2 mm, made of brass, one piece and with spring-loaded MULTILAM.

### KS2-5,08L



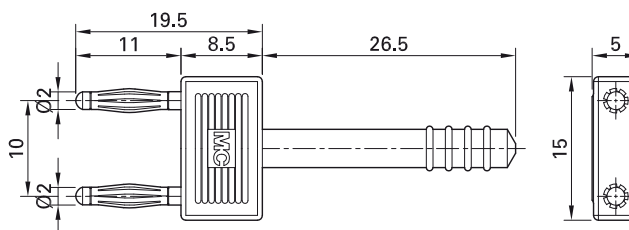
### KS2-10L/1



| Order No.  | Type      | Rated voltage/current          | Plug spacing |    | Standard colors |
|------------|-----------|--------------------------------|--------------|----|-----------------|
| 24.0040-29 | KS2-5,08L | 30 VAC / 10 A<br>60 VDC / 10 A | 5.08 mm      | Au | 29              |
| 24.0043-29 | KS2-10L/1 | 30 VAC / 10 A<br>60 VDC / 10 A | 10 mm        | Au | 29              |

## Connecting plug KS2-10L

Insulated, Ø 2 mm, made of brass, one piece and with spring-loaded MULTILAM.  
With insulating grip.

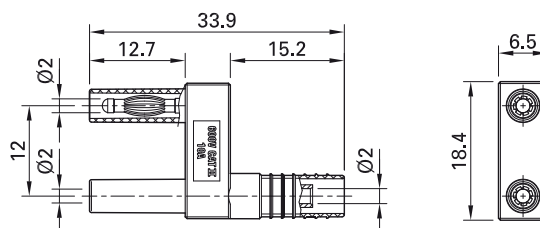


| Order No.  | Type    | Rated voltage/current          | Plug spacing |    | Standard colors |
|------------|---------|--------------------------------|--------------|----|-----------------|
| 24.0042-29 | KS2-10L | 30 VAC / 10 A<br>60 VDC / 10 A | 10 mm        | Au | 29              |

## 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-

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



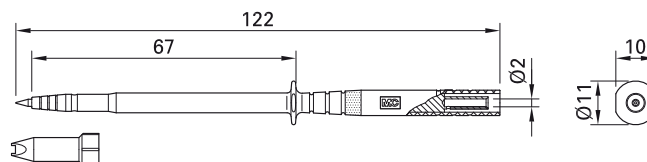
| Order No.  | Type           | Rated voltage/current | Plug spacing |       | Standard colors |
|------------|----------------|-----------------------|--------------|-------|-----------------|
| 65.9866-21 | SKS2-12L/1SA/N | 600 V, CAT II / 10 A  | 12 mm        | Ni CE | 21              |

## Test probes

### 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.



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

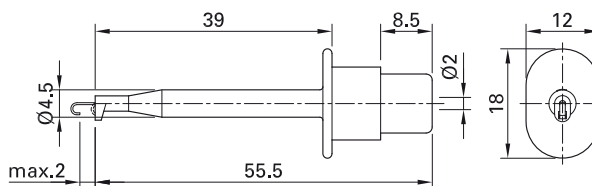


# Clips

## Test clip KPS1/B2

Made of hard-drawn copper alloy for grasping IC legs, plug pins and bare wire connections. Grasped objects are pressed against the tip of the insulator under spring pres-

sure. The low weight of the clip imposes hardly any load even on critical contacts. Ø 2 mm rigid socket in insulator.



| Order No. | Type    | Rated voltage/current        | Clamping limit |           | *Standard colors |
|-----------|---------|------------------------------|----------------|-----------|------------------|
| 24.0139-* | KPS1/B2 | 30 VAC / 1 A<br>60 VDC / 1 A | max. 2 mm      | <b>Au</b> | <b>21</b>        |



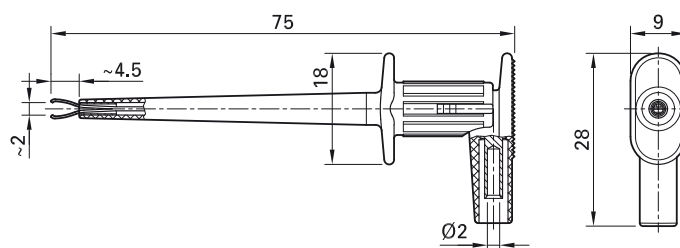
Optional colors **22**

Further information, page 6

## 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.



| Order No. | Type         | Rated voltage/current |   | *Standard colors    |
|-----------|--------------|-----------------------|---|---------------------|
| 65.9187-* | MicroGrip-XB | 300 V, CAT II / 1 A   | <b>Au</b> <b>CE</b> <b>UL</b> <b>us</b> | <b>21</b> <b>22</b> |

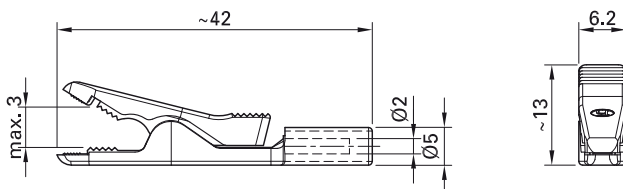


Optional colors **23**

Further information, page 6

## Test clip AGK40

With unbreakable insulation. Fine-wire gripping surface, made of brass. Ø 2 mm rigid socket in insulator.

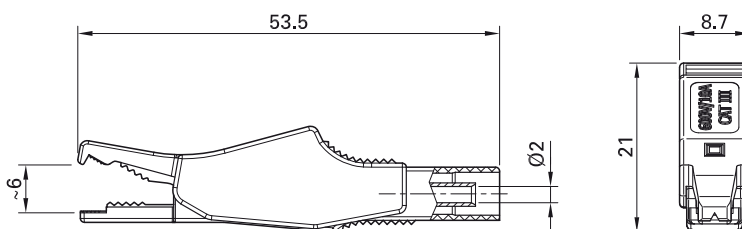


| Order No. | Type  | Rated voltage/current        | Clamping limit |    | *Standard colors |
|-----------|-------|------------------------------|----------------|----|------------------|
| 24.0154-* | AGK40 | 30 VAC / 6 A<br>60 VDC / 6 A | max. 3 mm      | Sn | 21 22            |

## 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.



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



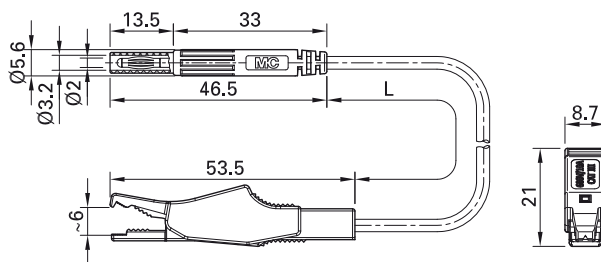
Optional colors [23](#)

Further information, page 6

## 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.



| Order No.  | Type | Rated voltage/current | Lead                     |               | Lead lengths L [cm] | *Standard colors |
|------------|------|-----------------------|--------------------------|---------------|---------------------|------------------|
| 65.9185-□* | XALF | 600 V, CAT III / 10 A | PVC 0.75 mm <sup>2</sup> | Ni CE c UL US | 100                 | 21 22            |



Optional colors [23](#)

Optional lengths on demand

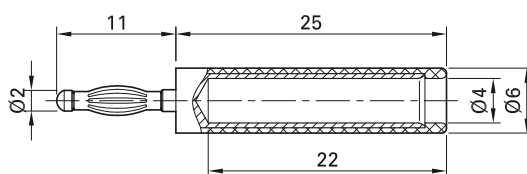
Further information, page 6

# Adapter

## Adapter A2/4

Ø 2 mm, made of brass, with spring-loaded MULTILAM. Ø 4 mm rigid socket in insulator

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



| Order No. | Type | Rated voltage/current          |    | *Standard colors |
|-----------|------|--------------------------------|----|------------------|
| 24.0115-* | A2/4 | 30 VAC / 10 A<br>60 VDC / 10 A | Au | 21 22            |



### User information i093

[www.staubli.com/electrical](http://www.staubli.com/electrical)

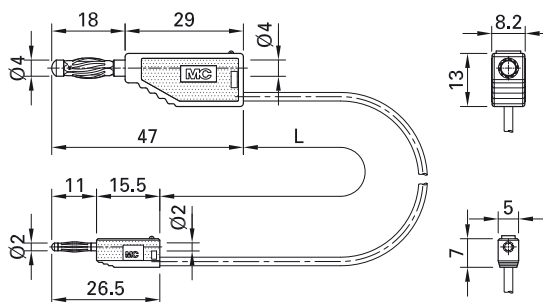


Optional colors 23 24

Further information, page 6

## Adapter lead AK205/410

Highly flexible. One end with Ø 2 mm stackable MULTILAM plug, the other end with Ø 4 mm stackable MULTILAM plug.



| Order No.  | Type      | Rated voltage/current          | Lead                    |    | Lead lengths L [cm] | *Standard colors |
|------------|-----------|--------------------------------|-------------------------|----|---------------------|------------------|
| 28.0011-□* | AK205/410 | 30 VAC / 10 A<br>60 VDC / 10 A | PVC 0.5 mm <sup>2</sup> | Au | 060                 | 21 22 23         |



### User information i093

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 20 24 25 26 27 28 29

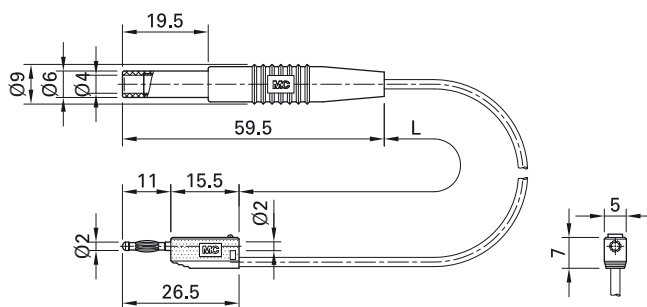
Optional lengths on demand

Further information, page 6

## Adapter lead AK205/405-BK

Highly flexible. One end with Ø 2 mm stackable MULTILAM plug, the other end with

Ø 4 mm rigid socket with rigid insulating sleeve.



| Order No.    | Type         | Rated voltage/current          | Lead                    |    | Lead length L [cm] | *Standard colors |
|--------------|--------------|--------------------------------|-------------------------|----|--------------------|------------------|
| 28.0012-015* | AK205/405-BK | 30 VAC / 10 A<br>60 VDC / 10 A | PVC 0.5 mm <sup>2</sup> | Au | 015                | 21 22            |



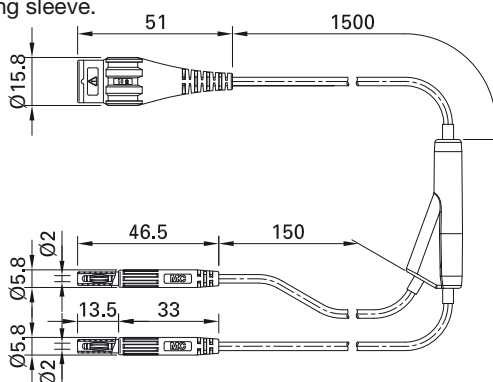
### User information i093

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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<br>300 V, CAT III | PVC RG174<br>2x 0.5 mm <sup>2</sup> | CE c UL US | 150                |



### User information i013


[www.staubli.com/electrical](http://www.staubli.com/electrical)

Ø 4 MM SYSTEM


# Overview

|  | Rated voltage | Rated current | Lead insulation | Contact surface | Page |
|--|---------------|---------------|-----------------|-----------------|------|
|--|---------------|---------------|-----------------|-----------------|------|


Measurement leads

|  |   |        |         |       |    |
|--|---|--------|---------|-------|----|
|  | 30 VAC / 60 VDC<br>600 V, CAT II – 1000 V, CAT IV | 8-32 A | PVC SIL | Au Ni | 48 |
|--|---|--------|---------|-------|----|


User configurable plugs and sockets

|  |   |         |  |       |    |
|--|---|---------|--|-------|----|
|  | 30 VAC / 60 VDC<br>500 V, CAT II – 600 V, CAT III | 10-32 A |  | Au Ni | 65 |
|--|---|---------|--|-------|----|


Solder-in / press-in / built-in socket

|  |  |         |  |           |    |
|--|--|---------|--|-----------|----|
|  | 30 VAC / 60 VDC<br>1000 V, CAT II – 1000 V, CAT IV | 20-40 A |  | Au Ni Opt | 82 |
|--|--|---------|--|-----------|----|

Connection plug


|  |                                   |         |  |       |     |
|--|-----------------------------------|---------|--|-------|-----|
|  | 30 VAC / 60 VDC<br>1000 V, CAT II | 25-32 A |  | Au Ni | 110 |
|--|-----------------------------------|---------|--|-------|-----|

Test probes


|  |  |        |         |        |     |
|--|--|--------|---------|--------|-----|
|  | 30 VAC / 60 VDC<br>1000 V, CAT II – 1000 V, CAT IV | 1-32 A | PVC SIL | SST Ni | 115 |
|--|--|--------|---------|--------|-----|

|  | Rated voltage | Rated current | Lead insulation | Contact surface | Page |
|--|---------------|---------------|-----------------|-----------------|------|
|--|---------------|---------------|-----------------|-----------------|------|


Clips

|  |   |        |  |        |     |
|--|---|--------|--|--------|-----|
|  | 30 VAC / 60 VDC<br>300 V, CAT II – 1000 V, CAT IV | 1-32 A |  | SST Ni | 122 |
|--|---|--------|--|--------|-----|

Adapter

|  |   |        |         |          |     |
|--|---|--------|---------|----------|-----|
|  | 30 VAC / 60 VDC<br>600 V, CAT II – 1000 V, CAT IV | 1-32 A | PVC SIL | Au Ni Sn | 134 |
|--|---|--------|---------|----------|-----|


Component holder

|  |               |     |  |    |     |
|--|---------------|-----|--|----|-----|
|  | 600 V, CAT II | 5 A |  | Ni | 159 |
|--|---------------|-----|--|----|-----|

Kelvin measurement cable

|  |                |      |     |    |     |
|--|----------------|------|-----|----|-----|
|  | 1000 V, CAT II | 20 A | SIL | Ni | 163 |
|--|----------------|------|-----|----|-----|

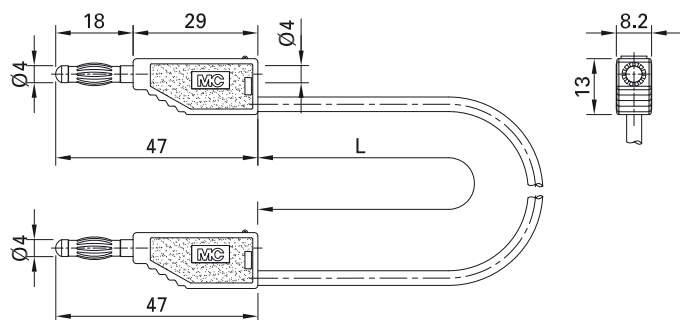
Special measurement accessories for insulation test device up to 5 kV

|  |                        |      |     |       |     |
|--|------------------------|------|-----|-------|-----|
|  | 1000 V, CAT IV<br>5 kV | 10 A | TPE | Au Ni | 164 |
|--|------------------------|------|-----|-------|-----|

# Test leads

## Test lead LK4...X

Highly flexible, with stackable Ø 4 mm MULTILAM plugs on both ends.



| Order No.  | Type      | Rated voltage/<br>current      | Lead                    | User<br>information |    | Lead lengths L [cm] | *Standard colors     |
|------------|-----------|--------------------------------|-------------------------|---------------------|----|---------------------|----------------------|
| 28.0116-□* | LK410-X   | 30 VAC / 19 A<br>60 VDC / 19 A | PVC 1.0 mm <sup>2</sup> | i096                | Ni | 025 050             | 20 21 22 23 24<br>25 |
| 28.0119-□* | LK425-A/X | 30 VAC / 32 A<br>60 VDC / 32 A | PVC 2.5 mm <sup>2</sup> | i099                | Ni | 025 050             | 20 21 22 23 24<br>25 |



Optional colors 26 27 28 29

Optional lengths on demand

Further information, page 6



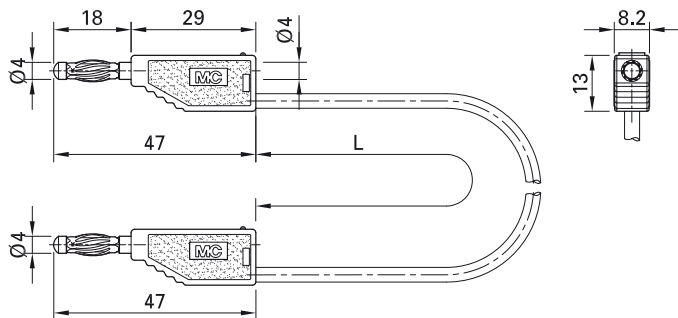
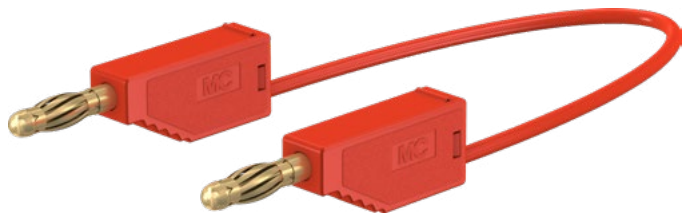
User information **i096**, **i099**

[www.staubli.com/electrical](http://www.staubli.com/electrical)



## Test lead LK4...

Highly flexible, with stackable Ø 4 mm MULTILAM plugs on both ends.



| Order No.  | Type        | Rated voltage/current          | Lead                    | User information |    | Lead lengths L [cm] | *Standard colors |
|------------|-------------|--------------------------------|-------------------------|------------------|----|---------------------|------------------|
| 28.0060-□* | LK410       | 30 VAC / 19 A<br>60 VDC / 19 A | PVC 1.0 mm <sup>2</sup> | i096             | Au | 100                 | 21 22            |
| 28.0061-□* | LK410/SIL   | 30 VAC / 19 A<br>60 VDC / 19 A | SIL 1.0 mm <sup>2</sup> | i096             | Au | 050                 | 21 22            |
| 28.0073-□* | LK425-A     | 30 VAC / 32 A<br>60 VDC / 32 A | PVC 2.5 mm <sup>2</sup> | i099             | Au | 050 100 200         | 21 22 23         |
| 28.0074-□* | LK425-A/SIL | 30 VAC / 32 A<br>60 VDC / 32 A | SIL 2.5 mm <sup>2</sup> | i099             | Au | 100                 | 21 22            |



Optional colors 20 23 24 25 26 27 28 29

Optional lengths on demand

Further information, page 6

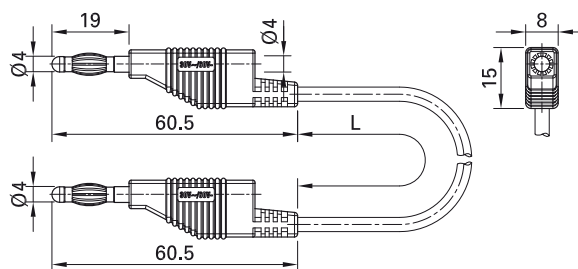
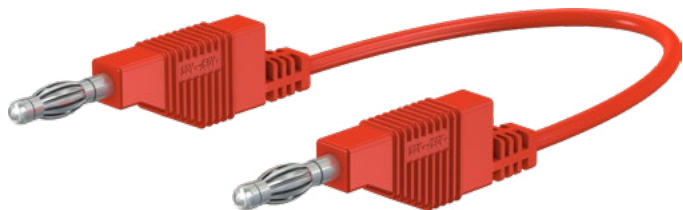


User information **i096, i099**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Test lead FML SML

Highly flexible, with moulded stackable  
 Ø 4 mm MULTILAM plugs on both ends.



| Order No.  | Type | Rated voltage/current          | Lead                     |    | Lead length L [cm] | *Standard colors |
|------------|------|--------------------------------|--------------------------|----|--------------------|------------------|
| 64.7289-□* | FML  | 30 VAC / 15 A<br>60 VDC / 15 A | PVC 0.75 mm <sup>2</sup> | Ni | 100                | 21 22            |
| 64.7288-□* | SML  | 30 VAC / 15 A<br>60 VDC / 15 A | SIL 0.75 mm <sup>2</sup> | Ni | 050 100 200        | 21 22            |



Optional colors 23 24 25 26 29

Optional lengths on demand

Further information, page 6

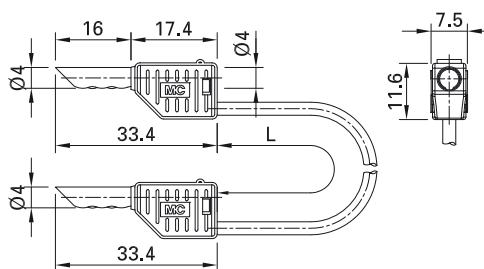
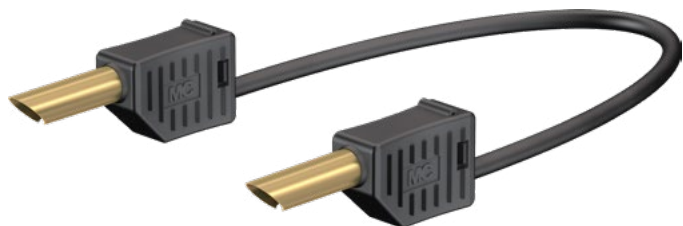


User information **i002**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Test lead LK4-B

Highly flexible, with stackable Ø 4 mm hollow plugs on both ends.



| Order No.  | Type      | Rated voltage/current          | Lead                    |    | Lead length L [cm] | *Standard colors |
|------------|-----------|--------------------------------|-------------------------|----|--------------------|------------------|
| 28.0055-□* | LK4-B     | 30 VAC / 19 A<br>60 VDC / 19 A | PVC 1.0 mm <sup>2</sup> | Au | 050                | 21 22 23 24      |
| 28.0056-□* | LK4-B/SIL | 30 VAC / 19 A<br>60 VDC / 19 A | SIL 1.0 mm <sup>2</sup> | Au | 050                | 21 22            |



Optional colors 23 24 25 26 29

Optional lengths on demand

Further information, page 6

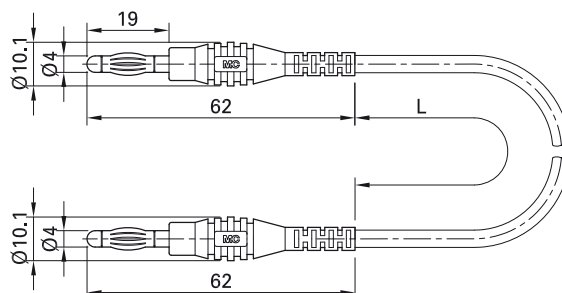


User information **i096**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Test lead FAL

Highly flexible, with in-line Ø 4 mm  
MULTILAM plugs on both ends.



| Order No.  | Type | Rated voltage/current          | Lead                     |    | Lead lengths L [cm] | *Standard colors |
|------------|------|--------------------------------|--------------------------|----|---------------------|------------------|
| 64.9289-□* | FAL  | 30 VAC / 15 A<br>60 VDC / 15 A | PVC 0.75 mm <sup>2</sup> | Ni | 100 200             | 21 22            |



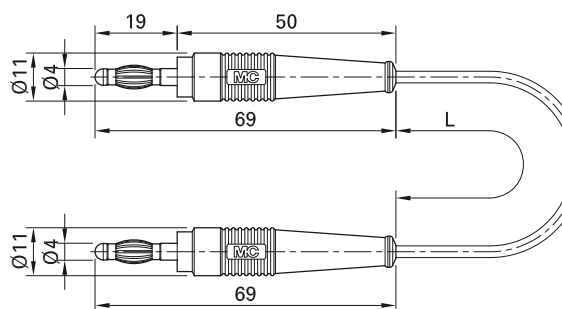
Optional colors 23 24 25

Optional lengths on demand

Further information, page 6

## Test lead LK410L-41/A

Highly flexible, with in-line Ø 4 mm  
MULTILAM plugs on both ends.



| Order No.  | Type        | Rated voltage/current          | Lead                    |    | Lead lengths L [cm] | *Standard colors |
|------------|-------------|--------------------------------|-------------------------|----|---------------------|------------------|
| 64.1025-□* | LK410L-41/A | 30 VAC / 19 A<br>60 VDC / 19 A | PVC 1.0 mm <sup>2</sup> | Au | 050 100             | 21 22            |



User information **i096**

[www.staubli.com/electrical](http://www.staubli.com/electrical)



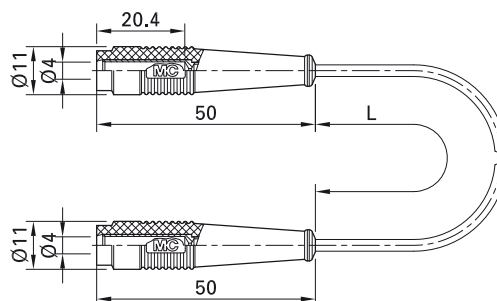
Optional colors 20 23 24 25 26 27 28 29

Optional lengths on demand

Further information, page 6

## Coupling lead LK4...K-41/A

Highly flexible, with Ø 4 mm rigid sockets on both ends.



| Order No.  | Type        | Rated voltage/current          | Lead                   | User information |    | Lead lengths L [cm] | *Standard colors |
|------------|-------------|--------------------------------|------------------------|------------------|----|---------------------|------------------|
| 64.1023-□* | LK410K-41/A | 30 VAC / 19 A<br>60 VDC / 19 A | PVC 1.0mm <sup>2</sup> | i096             | Au | 100                 | 21 22            |
| 64.1024-□* | LK425K-41/A | 30 VAC / 32 A<br>60 VDC / 32 A | PVC 2.5mm <sup>2</sup> | i099             | Au | 100                 | 21 22            |



User information **i096, i099**

[www.staubli.com/electrical](http://www.staubli.com/electrical)



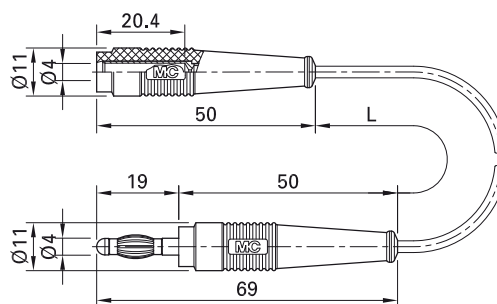
Optional colors 23 24 25 27 28 29

Optional lengths on demand

Further information, page 6

## Extension lead AK410-L/B-41/A

Highly flexible. One end with Ø 4 mm MULTILAM plug, the other end with Ø 4 mm rigid socket.



| Order No.  | Type           | Rated voltage/current          | Lead                    |    | Lead lengths L [cm] | *Standard colors |
|------------|----------------|--------------------------------|-------------------------|----|---------------------|------------------|
| 64.1022-□* | AK410-L/B-41/A | 30 VAC / 19 A<br>60 VDC / 19 A | PVC 1.0 mm <sup>2</sup> | Au | 025                 | 21 22 23         |



User information **i096**

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 20 24 25 26 27 28 29

Optional lengths on demand

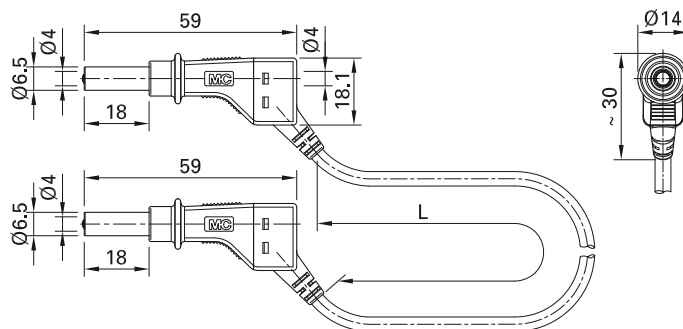
Further information, page 6

## 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/<br>current | Lead                    | User<br>information |       | Lead lengths<br>L [cm] | *Standard colors        |
|------------|------------|---------------------------|-------------------------|---------------------|-------|------------------------|-------------------------|
| 66.9405-□* | XZG410     | 600 V, CAT II / 19 A      | PVC 1.0 mm <sup>2</sup> | i073                | Ni CE | 100 150 200            | 21 22                   |
| 66.9406-□* | XZG410/SIL | 600 V, CAT II / 19 A      | SIL 1.0 mm <sup>2</sup> | i073                | Ni CE | 100                    | 21 22 23                |
| 66.9407-□* | XZG425     | 600 V, CAT II / 32 A      | PVC 2.5 mm <sup>2</sup> | i074                | Ni CE | 025 050                | 21 22 23 24<br>25 27 28 |
| 66.9408-□* | XZG425/SIL | 600 V, CAT II / 32 A      | SIL 2.5 mm <sup>2</sup> | i074                | Ni CE | 050 100 150            | 21 22 23 24<br>25 27 28 |



Optional colors 20 23 24 25 26 27 28 29

Optional lengths on demand

Further information, page 6



User information i073, i074

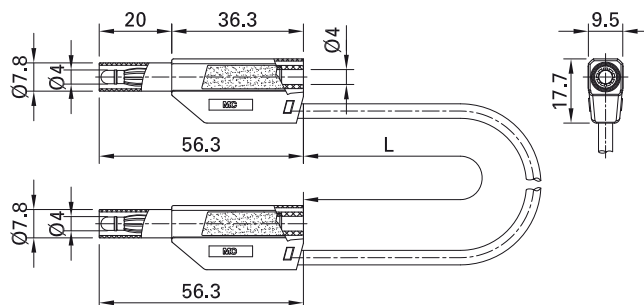
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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]        | *Standard colors                 |
|------------|----------------|--|--------------------------|---------------|----------------------------|----------------------------------|
| 28.0127-□* | SLK4075-E/N    | 1000 V, CAT II / 15 A<br>600 V, CAT III / 15 A | PVC 0.75 mm <sup>2</sup> | Ni CE c UL US | 025 050 100<br>200         | 20 21 22 23 24<br>25             |
| 49.0126-□* | SLK410-E/N     | 1000 V, CAT II / 19 A<br>600 V, CAT III / 19 A | PVC 1.0 mm <sup>2</sup>  | Ni CE c UL US | 025 050 100<br>200         | 21 22 23 24<br>25                |
| 28.0126-□* | SLK410-E/SIL   | 1000 V, CAT II / 19 A<br>600 V, CAT III / 19 A | SIL 1.0 mm <sup>2</sup>  | Au CE c UL US | 050 100 150<br>200         | 21 22 23                         |
| 49.0079-□* | SLK410-E/N SIL | 1000 V, CAT II / 19 A<br>600 V, CAT III / 19 A | SIL 1.0 mm <sup>2</sup>  | Ni CE c UL US | 025 050 100<br>200         | 21 22 23 24<br>25                |
| 28.0124-□* | SLK425-E       | 1000 V, CAT II / 32 A<br>600 V, CAT III / 32 A | PVC 2.5 mm <sup>2</sup>  | Au CE c UL US | 025 075 100<br>150 200     | 20 21 22 23 24<br>25 26 27 28 29 |
| 28.0125-□* | SLK425-E/N     | 1000 V, CAT II / 32 A<br>600 V, CAT III / 32 A | PVC 2.5 mm <sup>2</sup>  | Ni CE c UL US | 025 050 075<br>100 150 200 | 20 21 22 23 24<br>25 26 27 28 29 |



Optional colors 20 24 25 26 27 28 29

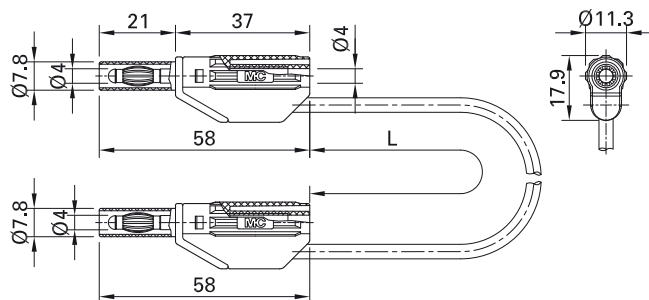
Optional lengths on demand

Further information, page 6

## 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] | *Standard colors |
|------------|---------|-----------------------|-------------------------|---------------|---------------------|------------------|
| 66.9738-□* | XVF-446 | 600 V, CAT II / 19 A  | PVC 1.0 mm <sup>2</sup> | Ni CE c UL US | 050 100 200         | 21 22            |
| 66.9739-□* | XVS-446 | 600 V, CAT II / 19 A  | SIL 1.0 mm <sup>2</sup> | Ni CE c UL US | 100                 | 21 22            |
| 66.9736-□* | XVF-448 | 600 V, CAT II / 32 A  | PVC 2.5 mm <sup>2</sup> | Ni CE c UL US | 030 060 100<br>150  | 21 22 24 25      |
| 66.9737-□* | XVS-448 | 600 V, CAT II / 32 A  | SIL 2.5 mm <sup>2</sup> | Ni CE c UL US | 050 100 200         | 21 22 23         |



Optional colors 20 23 24 25 26 27 29

Optional lengths on demand

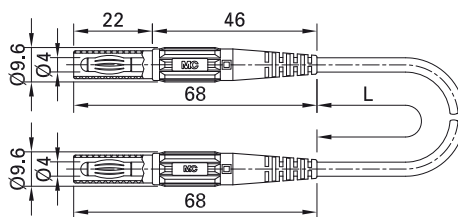
Further information, page 6



## 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] | *Standard colors |
|------------|---------|------------------------|-------------------------|---------------|---------------------|------------------|
| 66.9013-□* | XMF-414 | 1000 V, CAT III / 19 A | PVC 1.0 mm <sup>2</sup> | Ni CE c UL US | 100 150 200         | 21 22            |
| 66.9014-□* | XMS-414 | 1000 V, CAT III / 19 A | SIL 1.0 mm <sup>2</sup> | Ni CE c UL US | 050 100 150<br>200  | 21 22            |
| 66.9303-□* | XMF-418 | 1000 V, CAT III / 32 A | PVC 2.5 mm <sup>2</sup> | Ni CE         | 100 150 200         | 21 22            |
| 66.9304-□* | XMS-418 | 1000 V, CAT III / 32 A | SIL 2.5 mm <sup>2</sup> | Ni CE         | 100                 | 21 22            |



Optional colors 20 23 24 25 26 27 29

Optional lengths on demand

Further information, page 6

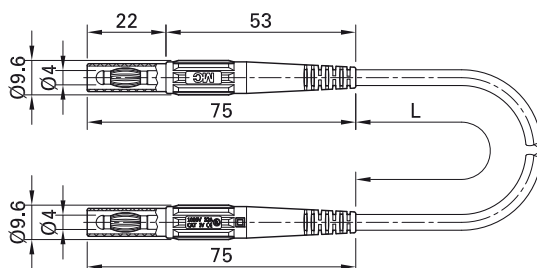
## Test lead XM...-419

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] | *Standard colors |
|------------|---------|-----------------------|-------------------------|---------------|---------------------|------------------|
| 66.9391-□* | XMF-419 | 1000 V, CAT IV / 32 A | PVC 2.5 mm <sup>2</sup> | Ni CE c UL US | 100 150 200         | 21 22 23 27 28   |
| 66.9393-□* | XMT-419 | 1000 V, CAT IV / 32 A | TPE 2.5 mm <sup>2</sup> | Ni CE         | 100                 | 21               |
| 66.9392-□* | XMS-419 | 1000 V, CAT IV / 32 A | SIL 2.5 mm <sup>2</sup> | Ni CE c UL US | 100 150 200         | 21 22 23         |



Optional colors 22 23 24 25 27 28

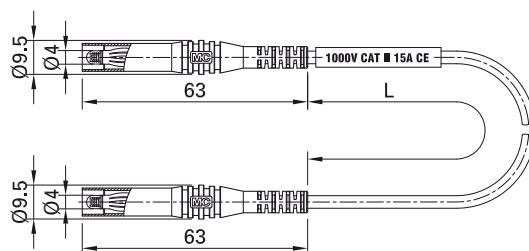
Optional lengths on demand

Further information, page 6

## 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] | *Standard colors |
|------------|---------|-----------------------|--------------------------|---------------|---------------------|------------------|
| 66.9634-□* | XMF-402 | 1000 V, CAT II / 15 A | PVC 0.75 mm <sup>2</sup> | Ni CE c UL US | 100 200             | 21 22 23         |
| 66.9635-□* | XMS-402 | 1000 V, CAT II / 15 A | SIL 0.75 mm <sup>2</sup> | Ni CE c UL US | 100                 | 21 22            |



Optional colors 20 23 24 25 26

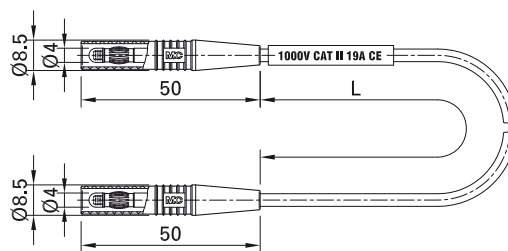
Optional lengths on demand

Further information, page 6

## 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] | *Standard colors |
|------------|------------|-----------------------|-------------------------|-------|---------------------|------------------|
| 28.0083-□* | SLK410-L   | 1000 V, CAT II / 19 A | PVC 1.0 mm <sup>2</sup> | Au CE | 100 200             | 21 22            |
| 28.0103-□* | SLK425-L   | 1000 V, CAT II / 32 A | PVC 2.5 mm <sup>2</sup> | Au CE | 100 150 200         | 21 22            |
| 49.0105-□* | SLK425-L/N | 1000 V, CAT II / 32 A | PVC 2.5 mm <sup>2</sup> | Ni CE | 050                 | 21 22            |



Optional colors [23](#) [24](#) [25](#) [27](#)

Optional lengths on demand

Further information, page 6

## Fused test lead XSM...-419

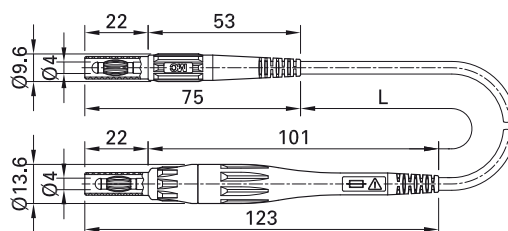
The test leads with integrated high breaking capacity fuses are designed for 1000 V, CAT IV in accordance with IEC/EN 61010-031 and allow for the use of Ø 4 mm standard safety probes and test clips for fuse-protected measurements.

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] | *Standard colors |
|------------|----------|---|-------------------------|---------------|---------------------|------------------|
| 66.9394-□* | XSMF-419 | 1000 V, CAT IV / max. 8 A <sup>1)</sup> | PVC 1.0 mm <sup>2</sup> | Ni CE c UL US | 100 150 200         | 21 22 23         |
| 66.9395-□* | XSMS-419 | 1000 V, CAT IV / max. 8 A <sup>1)</sup> | SIL 1.0 mm <sup>2</sup> | Ni CE c UL US | 100 200             | 21 22 23         |

<sup>1)</sup> Depends on the fuse used.



Optional colors 20 24 25 26 27 28 29

Optional lengths on demand

Further information, page 6



High breaking capacity fuse 6.3 x 32 mm:  
page 173



User information **i091**

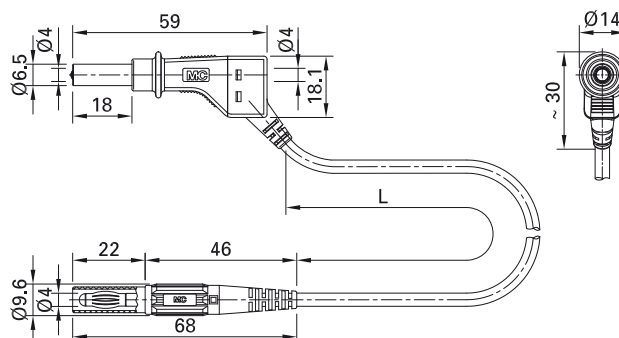
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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.



| Order No.   | Type     | Rated voltage/current | Lead                    |       | Lead lengths L [cm] | *Standard colors |
|-------------|----------|-----------------------|-------------------------|-------|---------------------|------------------|
| 66.9411-□□* | XZG410-L | 600 V, CAT II / 19 A  | PVC 1.0 mm <sup>2</sup> | Ni CE | 100 200             | 21 22 23         |



Optional colors 20 24 25 26 27 28 29

Optional lengths on demand

Further information, page 6



User information **i073**

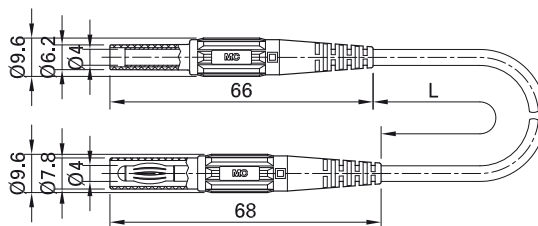
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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] | *Standard colors |
|------------|---------|------------------------|-------------------------|---------------|---------------------|------------------|
| 66.9011-□* | XKF-414 | 1000 V, CAT III / 19 A | PVC 1.0 mm <sup>2</sup> | Ni CE c UL US | 050 100 150<br>200  | 21 22            |
| 66.9012-□* | XKS-414 | 1000 V, CAT III / 19 A | SIL 1.0 mm <sup>2</sup> | Ni CE c UL US | 100                 | 21 22            |



Optional colors 23 24 25 26 27 29

Optional lengths on demand

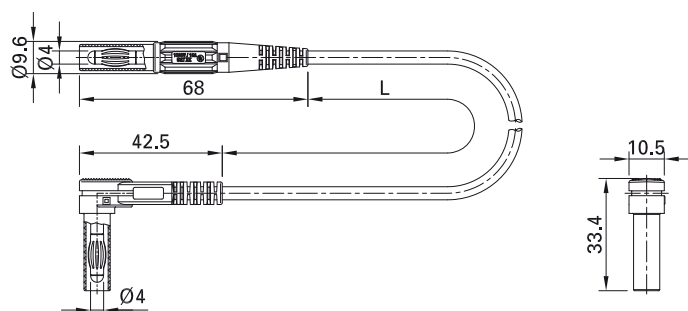
Further information, page 6

## 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] | *Standard colors |
|------------|---------|------------------------|-------------------------|---------------|---------------------|------------------|
| 66.9005-□* | XMF-484 | 1000 V, CAT III / 19 A | PVC 1.0 mm <sup>2</sup> | 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 <sup>2</sup> | Ni CE c UL US | 150 200             | 21 22            |



Optional colors 20 23 24 25 26 27 29

Optional lengths on demand

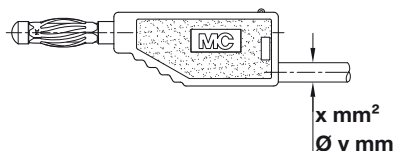
Further information, page 6



# User configurable 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.



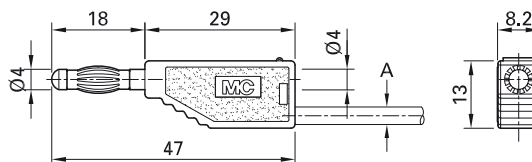
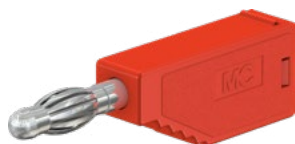
In the production of our test leads we use only high-quality multi-stranded cables of our own production. If you are interested in

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

## Plug SLS425-A/X

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

**Solder connection.**



| Order No. | Type       | Rated voltage/current          | Cable (A)  |     | *Standard colors |          |                     |     |  |          |    |       |
|-----------|------------|--------------------------------|--|-----|------------------|----------|---------------------|-----|--|----------|----|-------|
| 22.2634-* | SLS425-A/X | 30 VAC / 32 A<br>60 VDC / 32 A | <table border="1"> <tr> <td>PVC</td> <td>TPE</td> <td>Ø 3.6 mm</td> <td rowspan="2">2.5 mm<sup>2</sup></td> </tr> <tr> <td>SIL</td> <td></td> <td>Ø 3.9 mm</td> </tr> </table> | PVC | TPE              | Ø 3.6 mm | 2.5 mm <sup>2</sup> | SIL |  | Ø 3.9 mm | Ni | 21 22 |
| PVC       | TPE        | Ø 3.6 mm                       | 2.5 mm <sup>2</sup>  |     |                  |          |                     |     |  |          |    |       |
| SIL       |            | Ø 3.9 mm                       |  |     |                  |          |                     |     |  |          |    |       |

### Component parts

|           |         |           |
|-----------|---------|-----------|
| 22.2160-* | KT425-A | Insulator |
| 22.1202   | LS410-X | Plug      |



Optional colors 20 23 24 25 27 29

Further information, page 6



### Assembly instructions MA110

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug SLS4...

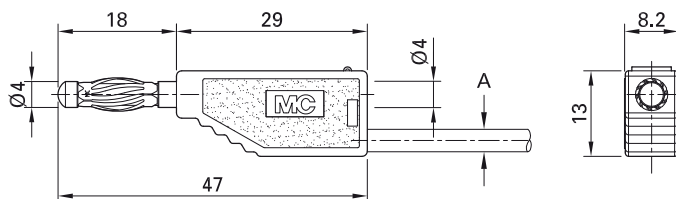
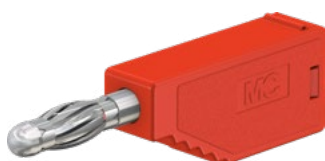
Stackable, Ø 4 mm, with spring-loaded MULTILAM for self-assembly of test leads.

**Solder connection.**

**SLS410**  
**SLS425-A**



**SLS410N**  
**SLS425-A/N**



| Order No. | Type       | Rated voltage/current          | Cable (A)                        |                     | *Standard colors  |
|-----------|------------|--------------------------------|----------------------------------|---------------------|-------------------|
| 22.2626-* | SLS410     | 30 VAC / 19 A<br>60 VDC / 19 A | PVC TPE Ø 2.7 mm<br>SIL Ø 3.0 mm | 1.0 mm <sup>2</sup> | Au 21 22          |
| 22.2627-* | SLS410N    | 30 VAC / 19 A<br>60 VDC / 19 A | PVC TPE Ø 2.7 mm<br>SIL Ø 3.0 mm | 1.0 mm <sup>2</sup> | Ni 21 22          |
| 22.2631-* | SLS425-A   | 30 VAC / 32 A<br>60 VDC / 32 A | PVC TPE Ø 3.6 mm<br>SIL Ø 3.9 mm | 2.5 mm <sup>2</sup> | Au 21 22 23 24 25 |
| 22.2632-* | SLS425-A/N | 30 VAC / 32 A<br>60 VDC / 32 A | PVC TPE Ø 3.6 mm<br>SIL Ø 3.9 mm | 2.5 mm <sup>2</sup> | Ni 21 22          |

### Component parts

|           |         |                                    |
|-----------|---------|------------------------------------|
| 22.2140-* | KT410   | Insulator for SLS410, SLS410N      |
| 22.2160-* | KT425-A | Insulator for SLS425-A, SLS425-A/N |
| 22.1010   | LS410   | Plug for SLS410, SLS425-A          |
| 22.5067   | LS410N  | Plug for SLS410N, SLS425-A/N       |



Optional colors 20 23 24 25 26 27 28 29

Further information, page 6



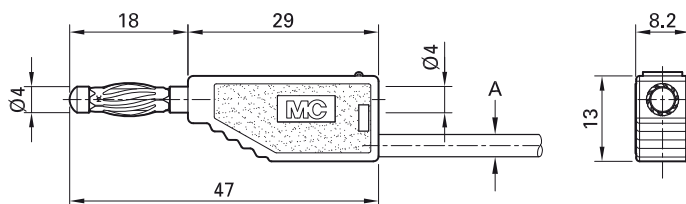
**Assembly instructions MA110**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug SLS425-AM

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

**Screw connection.**



| Order No. | Type      | Rated voltage/current          | Cable (A)                         |    | *Standard colors |
|-----------|-----------|--------------------------------|-----------------------------------|----|------------------|
| 22.2633-* | SLS425-AM | 30 VAC / 32 A<br>60 VDC / 32 A | ~ Ø 4.0 mm<br>2.5 mm <sup>2</sup> | Au | 21 22 23         |

### Component parts

|           |          |           |
|-----------|----------|-----------|
| 22.2160-* | KT425-A  | Insulator |
| 22.1028   | LS425-AM | Plug      |



Optional colors 20 24 25 26 27 28 29

Further information, page 6



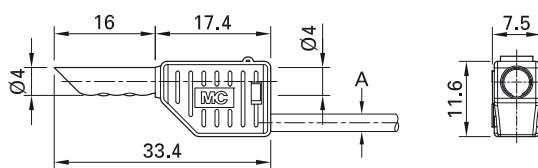
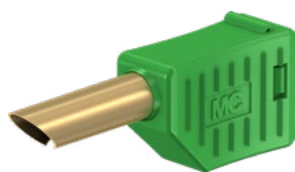
**Assembly instructions MA110**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug SLS4-B

Stackable, Ø 4 mm, for self-assembly of test leads. Nickel-plated and gold-plated versions available.

**Solder connection.**



| Order No. | Type   | Rated voltage/current          | Cable (A)  | *Standard colors |     |          |                     |     |  |          |  |    |    |    |
|-----------|--------|--------------------------------|--|------------------|-----|----------|---------------------|-----|--|----------|--|----|----|----|
| 22.2642-* | SLS4-B | 30 VAC / 19 A<br>60 VDC / 19 A | <table border="0"> <tr> <td>PVC</td> <td>TPE</td> <td>Ø 2.7 mm</td> <td rowspan="2">1.0 mm<sup>2</sup></td> </tr> <tr> <td>SIL</td> <td></td> <td>Ø 3.0 mm</td> </tr> </table> | PVC              | TPE | Ø 2.7 mm | 1.0 mm <sup>2</sup> | SIL |  | Ø 3.0 mm | <table border="0"> <tr> <td>Au</td> <td>21</td> <td>22</td> </tr> </table> | Au | 21 | 22 |
| PVC       | TPE    | Ø 2.7 mm                       | 1.0 mm <sup>2</sup>  |                  |     |          |                     |     |  |          |  |    |    |    |
| SIL       |        | Ø 3.0 mm                       |  |                  |     |          |                     |     |  |          |  |    |    |    |
| Au        | 21     | 22                             |  |                  |     |          |                     |     |  |          |  |    |    |    |

### Component parts

|           |       |           |
|-----------|-------|-----------|
| 22.2060-* | KT4-B | Insulator |
| 22.1005   | LS4   | Plug      |



Optional colors 23 24 25 29

Further information, page 6



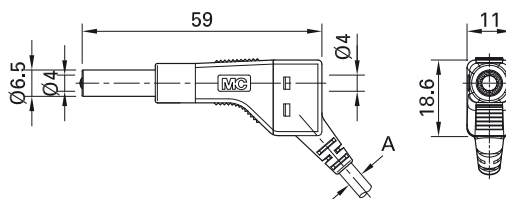
**Assembly instructions MA111**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug ZGL-4...

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

### Screw connection.



| Order No. | Type    | Rated voltage/current          | Cable (A)   | Assembly instructions |    | *Standard colors |
|-----------|---------|--------------------------------|---|-----------------------|----|------------------|
| 64.9325-* | ZGL-410 | 30 VAC / 19 A<br>60 VDC / 19 A | min. Ø 3.4 mm<br>max. Ø 3.9 mm<br>1.0 mm <sup>2</sup> | MAH 555               | Ni | 21 22 23         |
| 64.9326-* | ZGL-425 | 30 VAC / 32 A<br>60 VDC / 32 A | min. Ø 3.4 mm<br>max. Ø 3.9 mm<br>2.5 mm <sup>2</sup> | MAH 556               | Ni | 21 22 23         |



Optional colors 20 24 25 26 27 28

Further information, page 6



### Assembly instructions

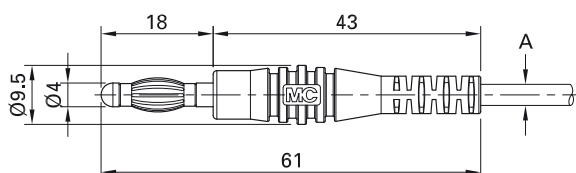
MAH555, MAH556

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug L-400

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

**Solder connection.**



| Order No. | Type  | Rated voltage/current          | Cable (A)                            |    | *Standard colors |
|-----------|-------|--------------------------------|--------------------------------------|----|------------------|
| 64.9294-* | L-400 | 30 VAC / 32 A<br>60 VDC / 32 A | max. Ø 3.9 mm<br>2.5 mm <sup>2</sup> | Ni | 21 22            |



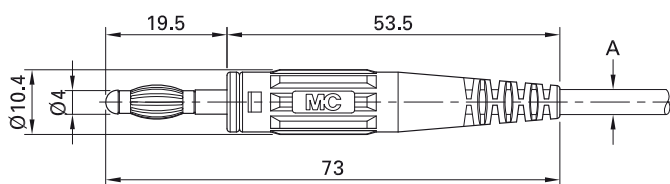
Optional colors 23 24 25

Further information, page 6

## Plug L-409

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

**Screw connection.**



| Order No. | Type  | Rated voltage/current          | Cable (A)                            |    | *Standard colors |
|-----------|-------|--------------------------------|--------------------------------------|----|------------------|
| 64.9195-* | L-409 | 30 VAC / 32 A<br>60 VDC / 32 A | max. Ø 3.9 mm<br>2.5 mm <sup>2</sup> | Ni | 21 22 23 24 25   |



Optional colors 26 27 29

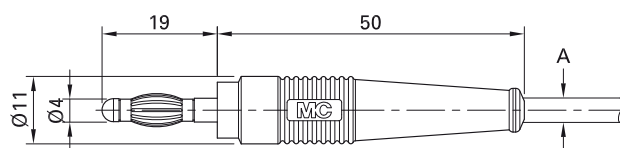
Further information, page 6

## Plug L-41...

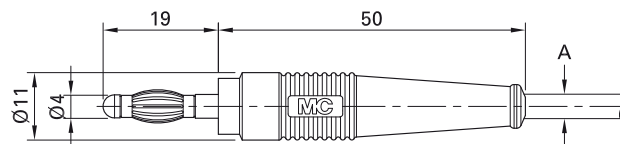
In-line, Ø 4 mm, with spring-loaded MULTILAM for self-assembly of test leads.  
Type L-41Q with Ø 4 mm lateral hole for additional test connection.

**Solder connection.**

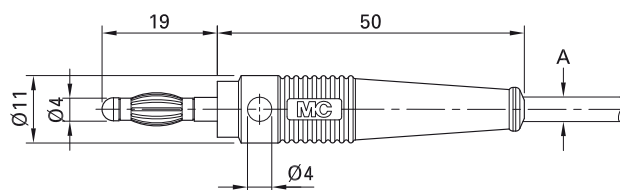
**L-41**



**L-41/A**



**L-41Q**



| Order No. | Type   | Rated voltage/current          | Cable (A)                              |    | *Standard colors           |
|-----------|--------|--------------------------------|--|----|----------------------------|
| 64.9200-* | L-41   | 30 VAC / 32 A<br>60 VDC / 32 A | max. Ø 3.9 mm      2.5 mm <sup>2</sup> | Ni | 21 22 23 24 25             |
| 64.1020-* | L-41/A | 30 VAC / 32 A<br>60 VDC / 32 A | max. Ø 3.9 mm      2.5 mm <sup>2</sup> | Au | 21 22 23 24 25<br>29       |
| 64.9199-* | L-41Q  | 30 VAC / 32 A<br>60 VDC / 32 A | max. Ø 3.9 mm      2.5 mm <sup>2</sup> | Ni | 21 22 23 24 25<br>26 27 29 |



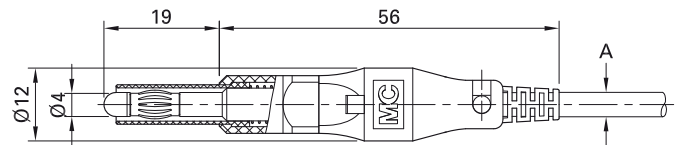
Optional colors 26 27 29

Further information, page 6

## Plug SLS425-ZL...

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

**Various types of connection:**  
 SLS425-ZL: Solder connection  
 SLS425-ZL/M3: Screw connection



| Order No. | Type         | Rated voltage/current          | Cable (A)   |     | *Standard colors |          |                     |    |       |     |  |          |  |  |
|-----------|--------------|--------------------------------|---|-----|------------------|----------|---------------------|----|-------|-----|--|----------|--|--|
| 22.2652-* | SLS425-ZL    | 30 VAC / 32 A<br>60 VDC / 32 A | <table border="0"> <tr> <td>PVC</td> <td>TPE</td> <td>Ø 3.7 mm</td> <td rowspan="2">2.5 mm<sup>2</sup></td> <td rowspan="2">Ni</td> <td rowspan="2">21 22</td> </tr> <tr> <td>SIL</td> <td></td> <td>Ø 3.9 mm</td> </tr> </table> | PVC | TPE              | Ø 3.7 mm | 2.5 mm <sup>2</sup> | Ni | 21 22 | SIL |  | Ø 3.9 mm |  |  |
| PVC       | TPE          | Ø 3.7 mm                       | 2.5 mm <sup>2</sup>   | Ni  | 21 22            |          |                     |    |       |     |  |          |  |  |
| SIL       |              | Ø 3.9 mm                       |   |     |                  |          |                     |    |       |     |  |          |  |  |
| 22.2653-* | SLS425-ZL/M3 | 30 VAC / 32 A<br>60 VDC / 32 A | <table border="0"> <tr> <td>PVC</td> <td>TPE</td> <td>Ø 3.7 mm</td> <td rowspan="2">2.5 mm<sup>2</sup></td> <td rowspan="2">Ni</td> <td rowspan="2">21 22</td> </tr> <tr> <td>SIL</td> <td></td> <td>Ø 3.9 mm</td> </tr> </table> | PVC | TPE              | Ø 3.7 mm | 2.5 mm <sup>2</sup> | Ni | 21 22 | SIL |  | Ø 3.9 mm |  |  |
| PVC       | TPE          | Ø 3.7 mm                       | 2.5 mm <sup>2</sup>   | Ni  | 21 22            |          |                     |    |       |     |  |          |  |  |
| SIL       |              | Ø 3.9 mm                       |   |     |                  |          |                     |    |       |     |  |          |  |  |

### Component parts

|           |             |                       |
|-----------|-------------|-----------------------|
| 50.1138-* | KT425-ZL    | Insulator             |
| 49.2030   | LS425-ZL    | Plug for SLS425-ZL    |
| 49.2029   | LS425-ZL/M3 | Plug for SLS425-ZL/M3 |



Optional colors 23 24 25 29

Further information, page 6



**Assembly instructions MA130**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

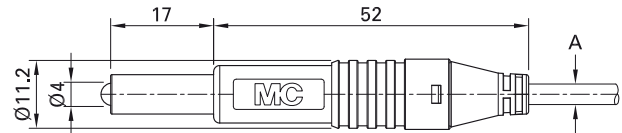


## Plug GL-438

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

With retractable sleeve to prevent accidental touching.

**Screw connection.**



| Order No. | Type   | Rated voltage/current          | Cable (A)                            |    | *Standard colors |
|-----------|--------|--------------------------------|--------------------------------------|----|------------------|
| 64.9701-* | GL-438 | 30 VAC / 32 A<br>60 VDC / 32 A | max. Ø 3.9 mm<br>2.5 mm <sup>2</sup> | Ni | 21 22            |



Assembly instructions MAH522

[www.staubli.com/electrical](http://www.staubli.com/electrical)



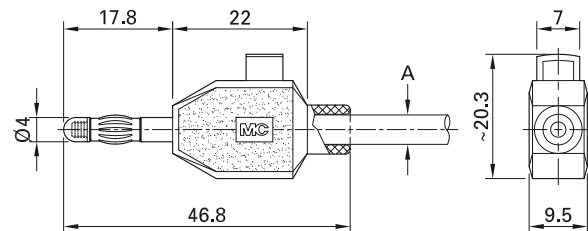
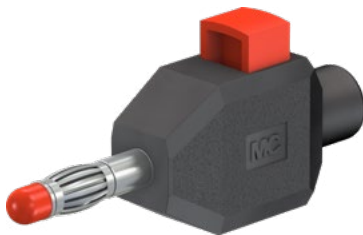
Optional colors 23 24 25 26

Further information, page 6

## Plug KLS4

Ø 4 mm, with spring-loaded MULTILAM for clamp-connecting stranded wires.

**Clamp connection.**



| Order No. | Type | Rated voltage/current          | Cable (A)                                 |    | *Standard colors |
|-----------|------|--------------------------------|---|----|------------------|
| 22.3006-* | KLS4 | 30 VAC / 10 A<br>60 VDC / 10 A | max. Ø 4.8 mm<br>max. 2.5 mm <sup>2</sup> | Ni | 21 22            |



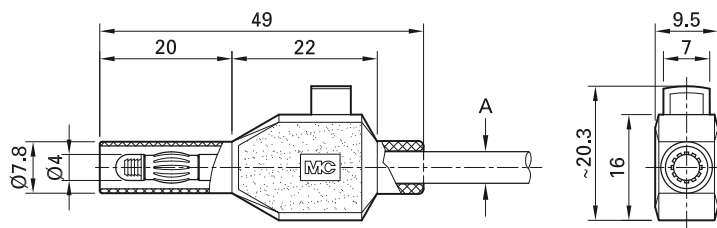
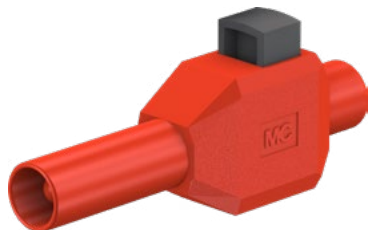
User information i023

[www.staubli.com/electrical](http://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              | Cable (A)     |                          |       | *Standard colors |
|-----------|-------|------------------------------------|---------------|--------------------------|-------|------------------|
| 22.3007-* | SKLS4 | 600 V, CAT II / 10 A <sup>1)</sup> | max. Ø 4.8 mm | max. 2.5 mm <sup>2</sup> | Ni CE | 21 22            |

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



### User information i005

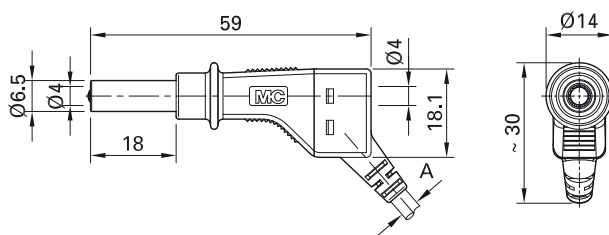
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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 |        | *Standard colors |                               |
|-----------|----------|-----------------------|--------------------------------|-----------------------|--------|------------------|-------------------------------|
| 66.9327-* | XZGL-410 | 600 V, CAT II / 19 A  | min. Ø 3.4 mm<br>max. Ø 3.9 mm | 1.0 mm <sup>2</sup>   | MAH557 | Ni               | 21 22                         |
| 66.9328-* | XZGL-425 | 600 V, CAT II / 32 A  | min. Ø 3.4 mm<br>max. Ø 3.9 mm | 2.5 mm <sup>2</sup>   | MAH558 | Ni               | 20 21 22 23 24<br>25 26 27 28 |



Optional colors 20 23 24 25 26 27 28

Further information, page 6



Assembly instructions MAH557, MAH558

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug SLS425-SE...

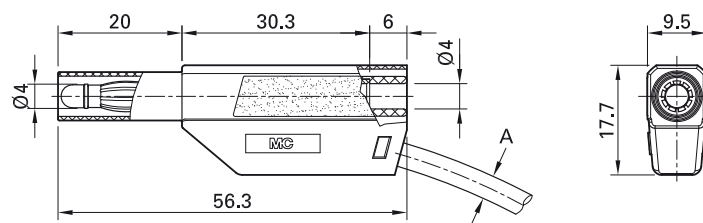
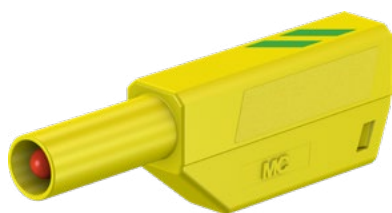
Stackable, Ø 4 mm, with spring-loaded MULTILAM, for self-assembly of test leads. With rigid insulating sleeve. Nickel-plated and gold-plated versions available.

### 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)                                  |    | *Standard colors  |    |    |    |    |    |    |    |    |    |    |
|-----------|---------------|--|--|----|---|----|----|----|----|----|----|----|----|----|----|
| 22.2656-* | SLS425-SE/M   | 1000 V, CAT II / 32 A<br>600 V, CAT III / 32 A | ~ Ø 3.9 mm    0.75 ... 2.5 mm <sup>2</sup> | 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<br>600 V, CAT III / 32 A | ~ Ø 3.9 mm    0.75 ... 2.5 mm <sup>2</sup> | 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<br>600 V, CAT III / 32 A | ~ Ø 3.9 mm    0.75 ... 2.5 mm <sup>2</sup> | 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<br>600 V, CAT III / 32 A | ~ Ø 3.9 mm    0.75 ... 2.5 mm <sup>2</sup> | 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>27</td><td>28</td><td>29</td><td></td></tr> </table>   | 20 | 21 | 22 | 23 | 24 | 25 | 27 | 28 | 29 |    |
| 20        | 21            | 22   | 23   | 24 |   |    |    |    |    |    |    |    |    |    |    |
| 25        | 27            | 28   | 29   |    |   |    |    |    |    |    |    |    |    |    |    |
| 22.2657-* | SLS425-SE/Q/N | 1000 V, CAT II / 32 A<br>600 V, CAT III / 32 A | ~ Ø 3.9 mm    0.75 ... 2.5 mm <sup>2</sup> | 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     |



Optional colors 26

Further information, page 6



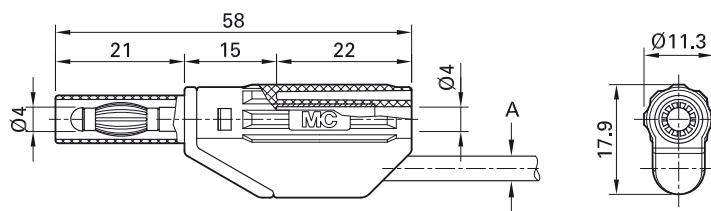
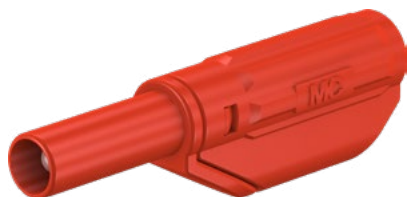
**Assembly instructions MA161**

[www.staubli.com/electrical](http://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)                                 |    | *Standard colors |
|-----------|--------|-----------------------|---|----|------------------|
| 66.9706-* | XL-446 | 600 V, CAT II / 32 A  | max. Ø 3.9 mm    max. 2.5 mm <sup>2</sup> | Ni | 21 22 23 24      |



Assembly instructions MAH501

[www.staubli.com/electrical](http://www.staubli.com/electrical)



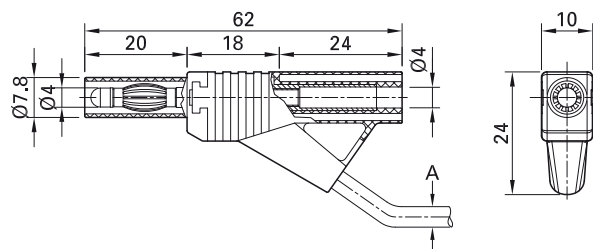
Optional colors 20 25 26 27 29

Further information, page 6

## 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)                                 |    | *Standard colors |
|-----------|-----------|--|---|----|------------------|
| 66.9649-* | XL-459/30 | 1000 V, CAT II / 32 A<br>600 V, CAT III / 32 A | max. Ø 3.9 mm    max. 2.5 mm <sup>2</sup> | Ni | 21 22            |



Assembly instructions MAH502

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 23 24 25 26 27 29

Further information, page 6

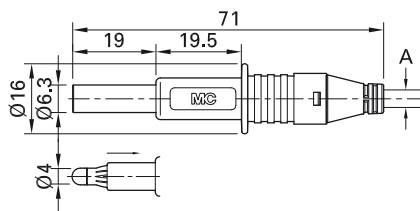
## Plug X-GL-438

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)                                 |    | *Standard colors |
|-----------|----------|-----------------------|---|----|------------------|
| 66.9584-* | X-GL-438 | 600 V, CAT II / 32 A  | max. Ø 3.9 mm    max. 2.5 mm <sup>2</sup> | Ni | 21 22 23         |



Assembly instructions MAH547

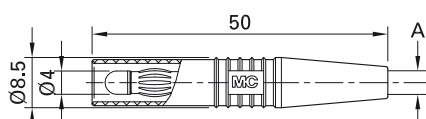
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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)                            |    | *Standard colors |
|-----------|-------------|-----------------------|--------------------------------------|----|------------------|
| 22.2663-* | SLS425-SL   | 1000 V, CAT II / 32 A | max. Ø 4.1 mm    2.5 mm <sup>2</sup> | Au | 21 22            |
| 22.2665-* | SLS425-SL/N | 1000 V, CAT II / 32 A | max. Ø 4.1 mm    2.5 mm <sup>2</sup> | Ni | 21               |

### 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](http://www.staubli.com/electrical)



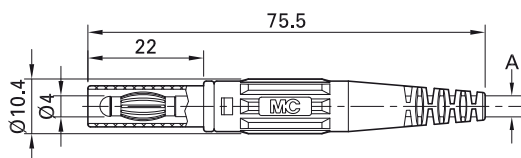
Optional colors 22 23

Further information, page 6

## 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)                                 |    | *Standard colors           |
|-----------|--------|--|---|----|----------------------------|
| 66.9196-* | XL-410 | 1000 V, CAT II / 32 A<br>600 V, CAT III / 32 A | max. Ø 3.9 mm    max. 2.5 mm <sup>2</sup> | Ni | 21 22 23 24 25<br>26 27 29 |



Assembly instructions MAH503

[www.staubli.com/electrical](http://www.staubli.com/electrical)



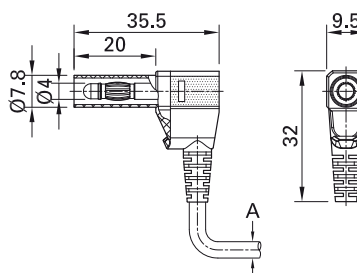
Optional colors 20

Further information, page 6

## 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)                               |    | *Standard colors |
|-----------|-------------|-----------------------|---|----|------------------|
| 22.2667-* | SLS425-SW   | 500 V, CAT II / 32 A  | max. 3.9 mm    max. 2.5 mm <sup>2</sup> | Ni | 21 22            |
| 22.2668-* | SLS425-SW/A | 500 V, CAT II / 32 A  | max. 3.9 mm    max. 2.5 mm <sup>2</sup> | Au | 21 22            |

### Component parts

|           |            |  |
|-----------|------------|--|
| 22.2370-* | KT425-SW   | Insulator (*Standard 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](http://www.staubli.com/electrical)



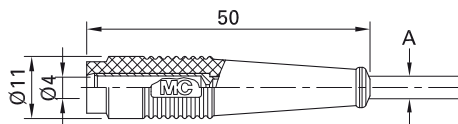
Optional colors 20 23 24 25 26

Further information, page 6

## Socket K-41...

Ø 4 mm rigid, for self-assembly of test leads.

**Solder connection.**



| Order No. | Type   | Rated voltage/current          | Cable (A)                              |    | *Standard colors |
|-----------|--------|--------------------------------|--|----|------------------|
| 64.9201-* | K-41   | 30 VAC / 32 A<br>60 VDC / 32 A | max. Ø 3.9 mm      2.5 mm <sup>2</sup> | Ni | 21 22            |
| 64.1021-* | K-41/A | 30 VAC / 32 A<br>60 VDC / 32 A | max. Ø 3.9 mm      2.5 mm <sup>2</sup> | Au | 21 22            |



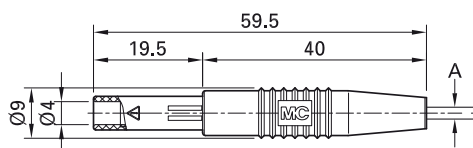
Optional colors 23 24 25 26 27 29

Further information, page 6

## 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)                         |    | *Standard colors |
|-----------|-----------|-----------------------|-----------------------------------|----|------------------|
| 22.2672-* | SLS410-BK | 300 V, CAT II / 19 A  | Ø 2.9 mm      1.0 mm <sup>2</sup> | 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](http://www.staubli.com/electrical)



User information i200

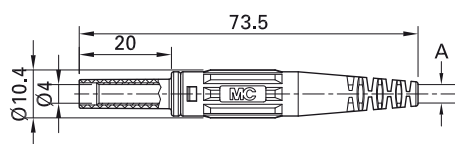
[www.staubli.com/electrical](http://www.staubli.com/electrical)



## 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)     |                          |    | *Standard colors |
|-----------|--------|--|---------------|--------------------------|----|------------------|
| 66.9155-* | XK-410 | 1000 V, CAT II / 32 A<br>600 V, CAT III / 32 A | max. Ø 3.9 mm | max. 2.5 mm <sup>2</sup> | Ni | 21 22 23 24 25   |



Optional colors 20 26 29

Further information, page 6



**Assembly instructions MAH548**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

# Solder-in / press-in / built-in socket

## Press-in socket LB4...

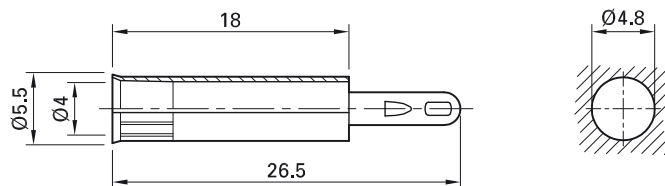
Uninsulated, Ø 4 mm, rigid, made of rolled brass sheet. The socket is pressed into predrilled plastic panels or soldered into

printed circuit boards. Nickel-plated and gold-plated versions available.

**Solder connection.**

LB4

LB4N



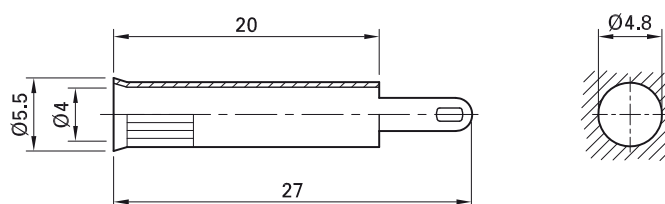
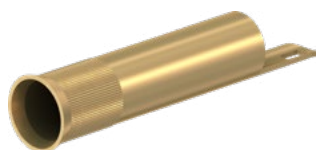
| Order No. | Type | Rated voltage/current          |    |  |
|-----------|------|--------------------------------|----|--|
| 23.1003   | LB4  | 30 VAC / 25 A<br>60 VDC / 25 A | Au |  |
| 23.5326   | LB4N | 30 VAC / 25 A<br>60 VDC / 25 A | Ni |  |

## Press-in socket LB4-A

Uninsulated, Ø 4 mm, rigid, made of punched brass tubing. The socket is pressed into pre-

drilled plastic panels or soldered into printed circuit boards.

**Solder connection.**

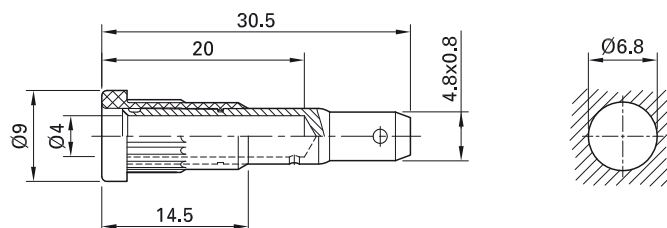
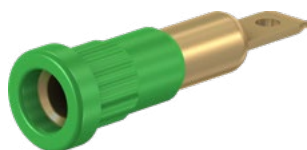


| Order No. | Type  | Rated voltage/current          |    |  |
|-----------|-------|--------------------------------|----|--|
| 23.1004   | LB4-A | 30 VAC / 25 A<br>60 VDC / 25 A | Au |  |

## Press-in socket EB4

Insulated, Ø 4 mm, rigid. Machined brass.  
The socket is pressed into predrilled panels of plastic, metal etc.

**Flat connecting tab 4.8 mm x 0.8 mm.**



| Order No. | Type | Rated voltage/current          |    | *Standard colors  |    |    |    |    |    |    |    |    |    |  |
|-----------|------|--------------------------------|----|---|----|----|----|----|----|----|----|----|----|--|
| 23.1013-* | EB4  | 30 VAC / 25 A<br>60 VDC / 25 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 |   |    |    |    |    |    |    |    |    |    |  |

### Component parts

|           |       |           |
|-----------|-------|-----------|
| 23.5013-* | I-EB4 | Insulator |
| 23.5012   | B-EB4 | Socket    |



Optional colors **20**

Further information, page 6



Press-in tool MB4, page 171

Flat connecting receptacle FSH4,8x0,8, page 170



Assembly instructions MA103

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Press-in socket EB4-A...

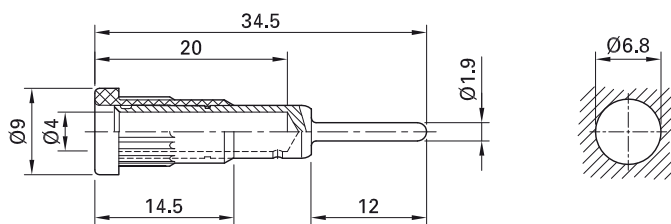
Insulated, Ø 4 mm, rigid. Machined brass.  
The socket is pressed into predrilled panels of plastic, metal etc. Nickel-plated and gold-plated versions available.

**Round connecting pin Ø 1.9 mm.**

EB4-A



EB4-A/N



| Order No. | Type    | Rated voltage/current          |    | *Standard colors |
|-----------|---------|--------------------------------|----|------------------|
| 23.1014-* | EB4-A   | 30 VAC / 25 A<br>60 VDC / 25 A | Au | 21 22 23         |
| 49.7077-* | EB4-A/N | 30 VAC / 25 A<br>60 VDC / 25 A | Ni | 21 22 23 24 28   |

### Component parts

|           |           |                    |
|-----------|-----------|--------------------|
| 23.5013-* | I-EB4     | Insulator          |
| 23.5014   | B-EB4-A   | Socket for EB4-A   |
| 23.5025   | B-EB4-A/N | Socket for EB4-A/N |



Optional colors 20 24 25 26 27 28 29

Further information, page 6



**Press-in tool MB4, page 171**



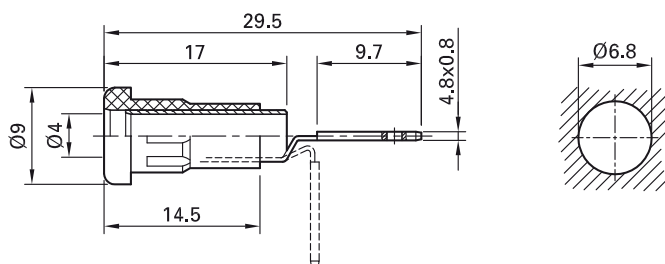
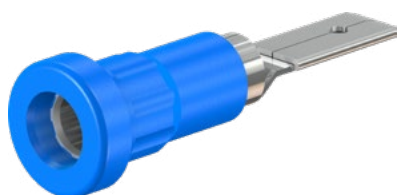
**Assembly instructions MA103**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Press-in socket EB4-B

Insulated, Ø 4 mm, rigid. Brass sheet, punched and rolled. The socket is pressed into predrilled 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          |    | *Standard colors     |
|-----------|-------|--------------------------------|----|----------------------|
| 23.1015-* | EB4-B | 30 VAC / 25 A<br>60 VDC / 25 A | Ni | 21 22 23 24 25<br>29 |

### Component parts

|           |         |           |
|-----------|---------|-----------|
| 23.5019-* | I-EB4-B | Insulator |
| 23.5026   | B-EB4-B | Socket    |



Optional colors 20 26 27 28

Further information, page 6



**Press-in tool MB4, page 171**

**Flat connecting FSH4,8x0,8, page 170**



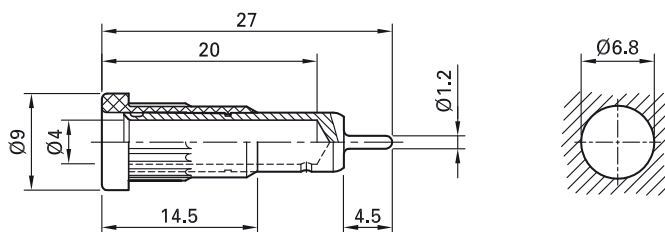
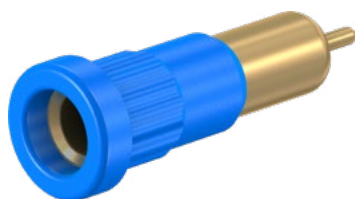
**Assembly instructions MA103**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Press-in socket EB4-C

Insulated, Ø 4 mm, rigid. Machined brass.  
The socket is pressed into predrilled panels of plastic, metal etc.

**Round connecting pin Ø 1.2 mm.**



| Order No. | Type  | Rated voltage/current          |    | *Standard colors |
|-----------|-------|--------------------------------|----|------------------|
| 23.1016-* | EB4-C | 30 VAC / 25 A<br>60 VDC / 25 A | Au | 21 22 23 24 25   |

### Component parts

|           |         |           |
|-----------|---------|-----------|
| 23.5013-* | I-EB4   | Insulator |
| 23.5308   | B-EB4-C | Socket    |



Optional colors 20 26 27 28 29

Further information, page 6



**Press-in tool MB4, page 171**



**Assembly instructions MA103**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Earth socket LB4-R...

Uninsulated, Ø 4 mm, rigid. Machined brass. The sockets can be screw-mounted in pre-

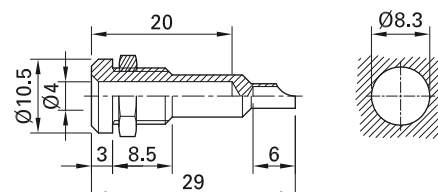
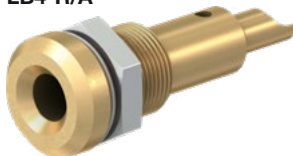
drilled panels.

**Solder connection.**

LB4-R



LB4-R/A



| Order No. | Type    | Rated voltage/current          |    |  |
|-----------|---------|--------------------------------|----|--|
| 23.0090   | LB4-R   | 30 VAC / 40 A<br>60 VDC / 40 A | Ni |  |
| 23.0470   | LB4-R/A | 30 VAC / 40 A<br>60 VDC / 40 A | Au |  |

### Component parts

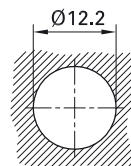
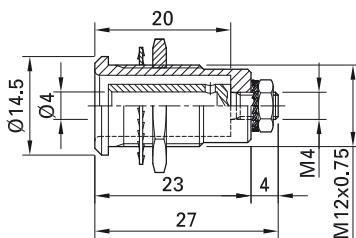
|          |           |                                |
|----------|-----------|--------------------------------|
| 23.5044  | B-LB4-R   | Socket without nut for LB4-R   |
| 23.5339  | B-LB4-R/A | Socket without nut for LB4-R/A |
| Page 166 | MU/M8x0,5 | Hexagonal Nuts                 |
| Page 167 | SP4       | Washer                         |

## Earth socket MSLB4-G

Uninsulated, Ø 4 mm, rigid, accepting spring-loaded Ø 4 mm plugs with rigid insu-

lating sleeve. Machined brass. The socket can directly be mounted in predrilled metal panels.

**Connection: Threaded bolt M4.**



| Order No. | Type    | Rated voltage/current          |    |  |
|-----------|---------|--------------------------------|----|--|
| 23.3090   | MSLB4-G | 30 VAC / 32 A<br>60 VDC / 32 A | Ni |  |

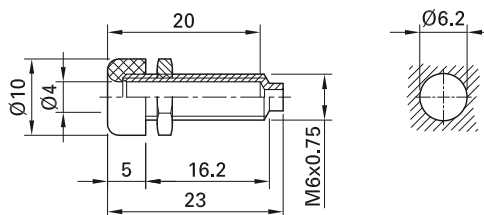
### Supplied assembly material

|          |             |                |
|----------|-------------|----------------|
| Page 166 | MU/M12x0,75 | Hexagonal Nuts |
| Page 166 | MU0,5D/M4N  | Hexagonal Nuts |
| Page 166 | MU/M8x0,5   | Hexagonal Nuts |
| Page 167 | SP4         | Washer         |
| Page 168 | FS/M12      | Spring Washers |
| Page 168 | FS/M4       | Spring Washers |

## Panel-mount socket LB4-R/I

Insulated, Ø 4 mm, rigid. Machined brass.  
The socket can be screw-mounted in pre-drilled panels.

**Solder connection.**



| Order No. | Type    | Rated voltage/current          |    | *Standard colors |
|-----------|---------|--------------------------------|----|------------------|
| 49.7068-* | LB4-R/I | 30 VAC / 20 A<br>60 VDC / 20 A | Ni | 21 22            |

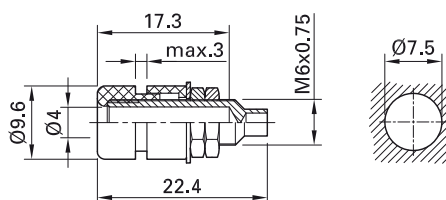
### Component parts

|           |             |                    |
|-----------|-------------|--------------------|
| 49.7090-* | BI-LB4-R/I  | Socket without nut |
| Page 166  | MUE/M6x0,75 | Hexagonal Nuts     |

## Panel-mount socket EBI-40

Insulated, Ø 4 mm, rigid. Machined brass.  
The socket can be screw-mounted in pre-drilled panels.

**Threaded bolt M6x0.75 and solder connection.**



| Order No. | Type   | Rated voltage/current          |    | *Standard colors |
|-----------|--------|--------------------------------|----|------------------|
| 69.8321-* | EBI-40 | 30 VAC / 20 A<br>60 VDC / 20 A | Ni | 21 22 23         |



Optional colors 24 25 29

Further information, page 6

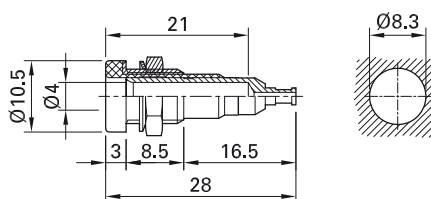


## Panel-mount socket LB-I4R

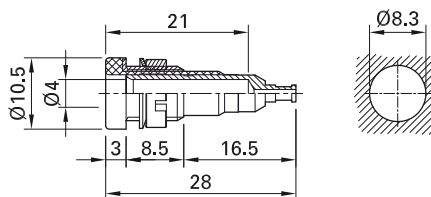
Insulated, Ø 4 mm, rigid. Machined brass. Metal thread jacket on the insulation. The socket can be screw-mounted in predrilled panels. Available with hexagonal or round nut.

**Solder connection.**

### LB-I4R



### LB-I4R



| Order No. | Type   | Rated voltage/current          | Nut           |     | *Standard colors                 |
|-----------|--------|--------------------------------|---------------|-----|----------------------------------|
| 23.0110-* | LB-I4R | 30 VAC / 25 A<br>60 VDC / 25 A | Hexagonal nut | Opt | 20 21 22 23 24<br>25 26 27 28 29 |
| 23.0100-* | LB-I4R | 30 VAC / 25 A<br>60 VDC / 25 A | Round nut     | Opt | 21 22                            |

### Component parts

|           |            |                    |
|-----------|------------|--------------------|
| 23.6111-* | BI-LB-I4R  | Socket without nut |
| Page 166  | MU/M8x0,5  | Hexagonal Nuts     |
| Page 167  | MUR/M8x0,5 | Round Nut          |
| Page 167  | SP4        | Washer             |



Optional colors 20 23 24 25 26 27 28 29

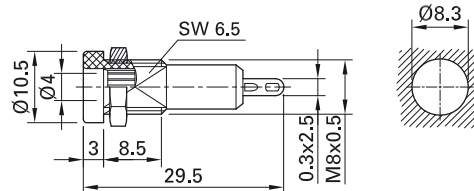
Optional lengths on demand

Further information, page 6

## Panel-mount socket LB-I4R-B

Insulated, Ø 4 mm, rigid. Rolled brass sheet.  
The socket can be screw-mounted in pre-drilled panels.

**Solder connection.**



| Order No. | Type     | Rated voltage/current          |    | *Standard colors     |
|-----------|----------|--------------------------------|----|----------------------|
| 23.0450-* | LB-I4R-B | 30 VAC / 25 A<br>60 VDC / 25 A | Ni | 21 22 23 24 25<br>29 |

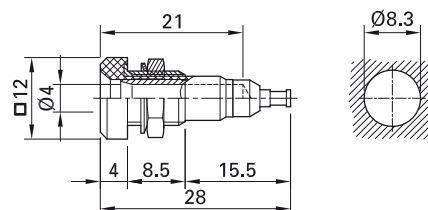
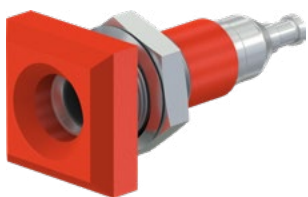
### Component parts

|           |             |                    |
|-----------|-------------|--------------------|
| 23.8111-* | BI-LB-I4R-B | Socket without nut |
| Page 166  | MU/M8x0,5   | Hexagonal Nuts     |

## Panel-mount socket LB-I4Q

Insulated, Ø 4 mm, rigid. Machined brass.  
Metal thread jacket on the insulation. The socket can be screw-mounted in predrilled panels.

**Solder connection.**



Optional colors 23 24 25 26 29

Further information, page 6

| Order No. | Type   | Rated voltage/current          |     | *Standard colors |
|-----------|--------|--------------------------------|-----|------------------|
| 23.0120-* | LB-I4Q | 30 VAC / 25 A<br>60 VDC / 25 A | Opt | 21 22            |

### Component parts

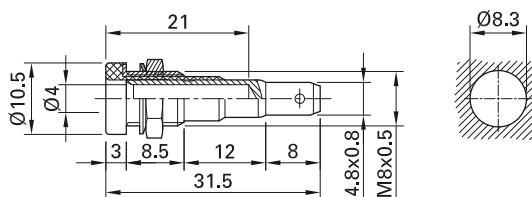
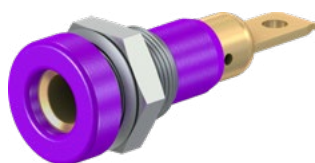
|           |           |                    |
|-----------|-----------|--------------------|
| 23.6222-* | BI-LB-I4Q | Socket without nut |
| Page 166  | MU/M8x0,5 | Hexagonal Nuts     |
| Page 167  | SP4       | Washer             |

## Panel-mount socket LB-I4R-A

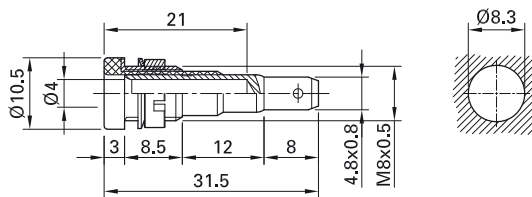
Insulated, Ø 4 mm, rigid. Machined brass.  
Metal thread jacket on the insulation. The socket can be screw-mounted in predrilled panels. Available with hexagonal nut.

**Flat connecting tab 4.8 mm x 0.8 mm.**

LB-I4R-A



LB-I4R-A



| Order No. | Type     | Rated voltage/current          | Nut           |    | *Standard colors  |    |    |    |    |    |    |    |    |    |    |
|-----------|----------|--------------------------------|---------------|----|---|----|----|----|----|----|----|----|----|----|----|
| 23.0190-* | LB-I4R-A | 30 VAC / 25 A<br>60 VDC / 25 A | Hexagonal nut | 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 |   |    |    |    |    |    |    |    |    |    |    |
| 23.0180-* | LB-I4R-A | 30 VAC / 25 A<br>60 VDC / 25 A | Round Nut     | Au | <table border="1"> <tr> <td>21</td> <td>22</td> </tr> </table>  | 21 | 22 |    |    |    |    |    |    |    |    |
| 21        | 22       |                                |               |    |   |    |    |    |    |    |    |    |    |    |    |

### Component parts

|           |             |                    |
|-----------|-------------|--------------------|
| 23.6333-* | BI-LB-I4R-A | Socket without nut |
| Page 166  | MU/M8x0,5   | Hexagonal Nuts     |
| Page 167  | MUR/M8x0,5  | Round Nut          |
| Page 167  | SP4         | Washer             |



Optional colors 20 23 24 25 26 27 28 29

Further information, page 6

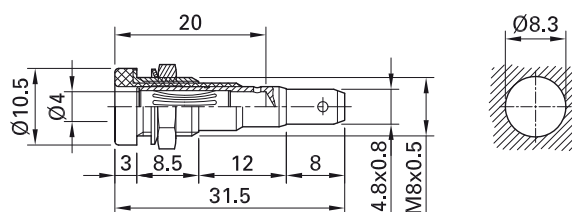


Flat connecting FSH4,8x0,8, page 170

## Panel-mount socket LB-IF4R-A

Insulated, Ø 4 mm, with spring-loaded MULTILAM. Machined brass. Metal thread jacket on the insulation. The socket can be screw-mounted in predrilled panels.

**Flat connecting tab 4.8 mm x 0.8 mm.**



| Order No. | Type      | Rated voltage/current          |     | *Standard colors |
|-----------|-----------|--------------------------------|-----|------------------|
| 23.0210-* | LB-IF4R-A | 30 VAC / 25 A<br>60 VDC / 25 A | Opt | 21 22            |

### Component parts

|           |              |                    |
|-----------|--------------|--------------------|
| 23.6666-* | BI-LB-IF4R-A | Socket without nut |
| Page 166  | MU/M8x0,5    | Hexagonal Nuts     |
| Page 167  | SP4          | Washer             |



Optional colors 20 23 24 25 26 27 28 29

Further information, page 6



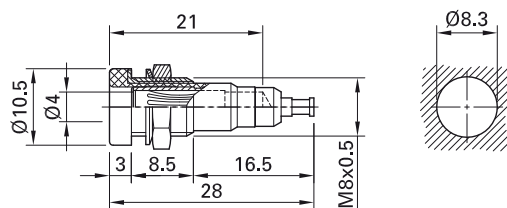
Flat connecting FSH4,8x0,8, page 170

## Panel-mount socket LB-IF4R

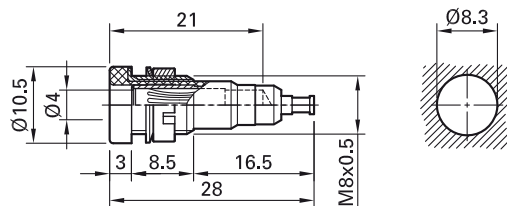
Insulated, Ø 4 mm, with spring-loaded MULTILAM. Machined brass. Metal thread jacket on the insulation. The socket can be screw-mounted in predrilled panels. Available with hexagonal or round nut.

**Solder connection.**

### LB-IF4R



### LB-IF4R



| Order No. | Type    | Rated voltage/current          | Nut           |     | *Standard colors |
|-----------|---------|--------------------------------|---------------|-----|------------------|
| 23.0140-* | LB-IF4R | 30 VAC / 25 A<br>60 VDC / 25 A | Hexagonal nut | Opt | 21 22            |
| 23.0130-* | LB-IF4R | 30 VAC / 25 A<br>60 VDC / 25 A | Round Nut     | Opt | 21 22            |

### Component parts

|           |            |                    |
|-----------|------------|--------------------|
| 23.6444-* | BI-LB-IF4R | Socket without nut |
| Page 166  | MU/M8x0,5  | Hexagonal Nuts     |
| Page 167  | MUR/M8x0,5 | Round Nut          |
| Page 167  | SP4        | Washer             |



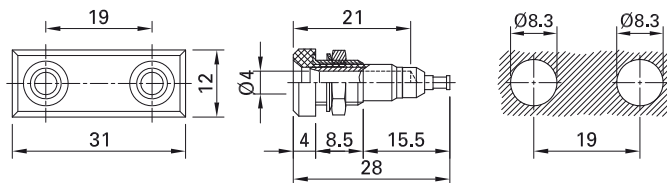
Optional colors 20 23 24 25 26 27 28 29

Further information, page 6

## Panel-mount socket LB-I4/2P

Insulated, Ø 4 mm, rigid. Machined brass.  
The socket can be screw-mounted in pre-drilled panels.

**Solder connection.**



| Order No. | Type     | Rated voltage/current          |     | *Standard colors |
|-----------|----------|--------------------------------|-----|------------------|
| 23.2000-* | LB-I4/2P | 30 VAC / 25 A<br>60 VDC / 25 A | Opt | 21               |

### Component parts

|           |               |                    |
|-----------|---------------|--------------------|
| 23.6777-* | BI-LB-I4/2P   | Socket without nut |
| Page 166  | 2 × MU/M8x0,5 | Hexagonal Nuts     |
| Page 167  | 2 × SP4       | Washer             |



Optional colors 22

Further information, page 6

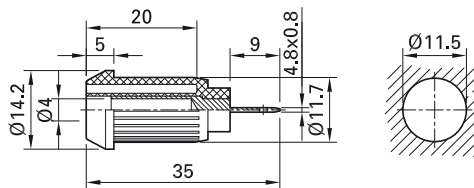
## Press-in socket XEP-...

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

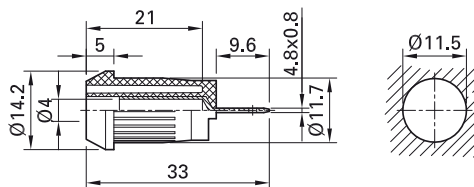
pre-drilled panels of plastic, metal, etc.

**Various metal parts / connections.**

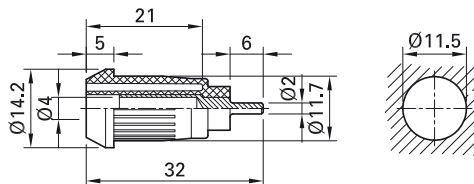
### XEP-F



### XEP-FS



### XEP-S



| Order No. | Type   | Rated voltage/current  | Connection   |            | *Standard colors |
|-----------|--------|------------------------|--|------------|------------------|
| 66.9682-* | XEP-F  | 1000 V, CAT III / 20 A | Machined brass / Flat connecting tab<br>4.8 mm x 0.8 mm      | Ni C RU us | 21 22 24         |
| 66.9685-* | XEP-FS | 1000 V, CAT III / 20 A | Brass sheet, rolled / Flat connecting tab<br>4.8 mm x 0.8 mm | Ni C RU us | 21 22            |
| 66.9681-* | XEP-S  | 1000 V, CAT III / 20 A | Machined brass / Solder pin Ø 2.0 mm                         | Ni C RU us | 21 22            |



Optional colors 20 23 24 25 26 27 29

Further information, page 6



Flat connecting receptacles FSH4,8x0,8, page 170

Press-in tool MB4-S, page 171



Assembly instructions MAH505

[www.staubli.com/electrical](http://www.staubli.com/electrical)

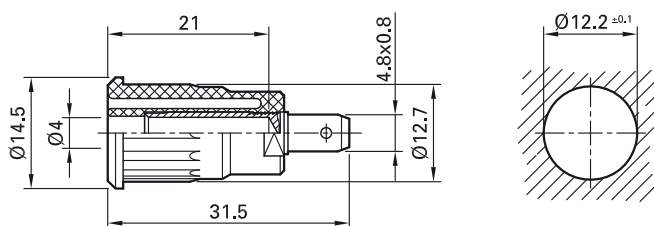
## Press-in socket SEB4-F...

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

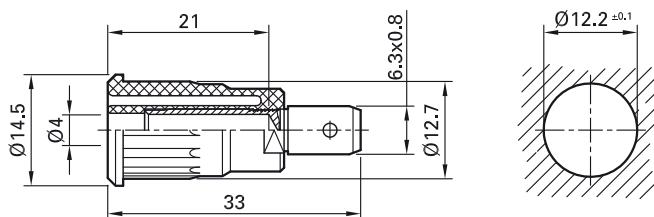
is pressed into pre-drilled panels of plastic, metal, etc.

**Connection: Flat connecting tab.**

### SEB4-F...



### SEB4-F6,3...



| Order No. | Type        | Rated voltage/current  | Connection                             |          | *Standard colors           |
|-----------|-------------|------------------------|--|----------|----------------------------|
| 23.3120-* | SEB4-F      | 1000 V, CAT III / 24 A | Flat connecting tab<br>4.8 mm × 0.8 mm | Au c  US | 20 21 22 23 24<br>25 28    |
| 49.7079-* | SEB4-F/N    | 1000 V, CAT III / 24 A | Flat connecting tab<br>4.8 mm × 0.8 mm | Ni c  US | 20 21 22 23 24<br>25 27 28 |
| 23.3150-* | SEB4-F6,3   | 1000 V, CAT III / 32 A | Flat connecting tab<br>6.3 mm × 0.8 mm | Au c  US | 21 22 25 27                |
| 49.7073-* | SEB4-F6,3/N | 1000 V, CAT III / 32 A | Flat connecting tab<br>6.3 mm × 0.8 mm | Ni c  US | 20 21 22 23 27             |



Optional colors 20 23 24 25 27 28 29

Further information, page 6



**Flat connecting receptacles FSH...,**

**page 170**

**Press-in tool MB4-S, page 171**



**Assembly instructions MA104**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

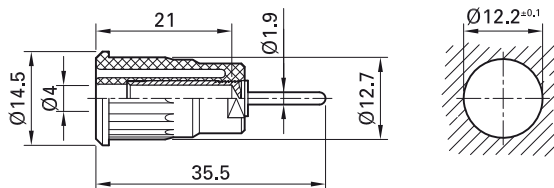


## Press-in socket SEB4-...

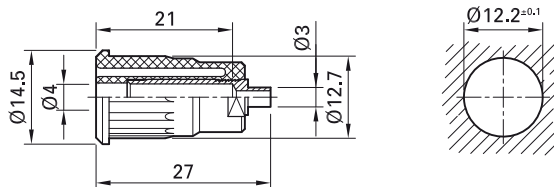
Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid in-

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

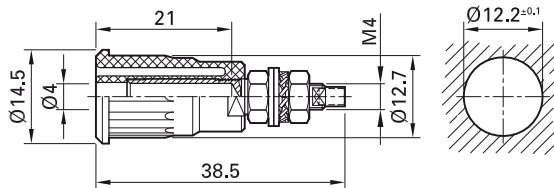
### SEB4-R...



### SEB4-E



### SEB4-G...



| Order No. | Type       | Rated voltage/current  | Connection                             |          | *Standard colors  |
|-----------|------------|------------------------|--|----------|---|
| 23.3130-* | SEB4-R     | 1000 V, CAT III / 24 A | Round connecting pin<br>Ø 1.9 mm       | Au c  us | <span style="background-color: yellow;">20</span> <span style="background-color: black;">21</span> <span style="background-color: red;">22</span> <span style="background-color: blue;">23</span> <span style="background-color: yellow;">24</span><br><span style="background-color: green;">25</span> <span style="background-color: brown;">27</span> <span style="background-color: grey;">28</span> <span style="background-color: white;">29</span> |
| 49.7080-* | SEB4-R/N   | 1000 V, CAT III / 24 A | Round connecting pin<br>Ø 1.9 mm       | Ni c  us | <span style="background-color: black;">21</span> <span style="background-color: red;">22</span> <span style="background-color: grey;">28</span>   |
| 49.7091-* | SEB4-E     | 1000 V, CAT III / 24 A | Solder connection                      | Ni c  us | <span style="background-color: black;">21</span> <span style="background-color: red;">22</span> <span style="background-color: blue;">23</span> <span style="background-color: yellow;">24</span>   |
| 23.3140-* | SEB4-G     | 1000 V, CAT III / 24 A | Threaded bolt M4 and<br>soldering hole | Au c  us | <span style="background-color: black;">21</span> <span style="background-color: red;">22</span> <span style="background-color: blue;">23</span> <span style="background-color: white;">29</span>  |
| 49.7092-* | SEB4-G/N-X | 1000 V, CAT III / 24 A | Threaded bolt M4 and<br>soldering hole | Ni c  us | <span style="background-color: black;">21</span> <span style="background-color: red;">22</span> <span style="background-color: blue;">23</span> <span style="background-color: yellow;">24</span> <span style="background-color: white;">29</span>  |

### Supplied assembly material

|          |           |                    |        |
|----------|-----------|--------------------|--------|
| Page 166 | MU0,8D/M4 | 2 hexagon nuts for | SEB4-G |
| Page 167 | U/M4      | 2 washers for      | SEB4-G |
| Page 168 | FS/M4     | Spring washer for  | SEB4-G |



Assembly instructions MA104

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Press-in tool MB4-S, page 171



Optional colors 20 23 24 25 27 28 29

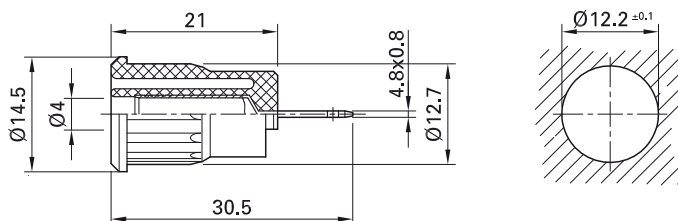
Further information, page 6

## 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  |          | *Standard 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>29</td> <td></td> <td></td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 29 |  |  |  |
| 20        | 21       | 22                     | 23       | 24  |    |    |    |    |    |    |    |  |  |  |
| 25        | 29       |                        |          |   |    |    |    |    |    |    |    |  |  |  |



**Assembly instructions MA104**  
[www.staubli.com/electrical](http://www.staubli.com/electrical)



**Flat connecting receptacles FSH4,8x0,8**,  
 page 170  
**Press-in tool MB4-S**, page 171



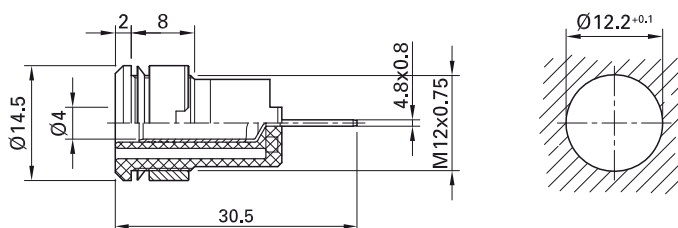
Optional colors **27** **28**  
 Further information, page 6

## 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  |          | *Standard 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>29</td> <td></td> <td></td> </tr> </table> | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 29 |  |  |
| 20        | 21       | 22                     | 23       | 24  |    |    |    |    |    |    |    |    |  |  |
| 25        | 26       | 29                     |          |   |    |    |    |    |    |    |    |    |  |  |

### Supplied assembly material

|          |              |           |
|----------|--------------|-----------|
| Page 167 | MUR/M12x0,75 | Round nut |
| Page 167 | SSP4         | Washer    |



**Assembly instructions MA152**  
[www.staubli.com/electrical](http://www.staubli.com/electrical)



**Flat connecting receptacles FSH4,8x0,8**,  
 page 170  
**Tube spanners SS2, SS425**, page 170



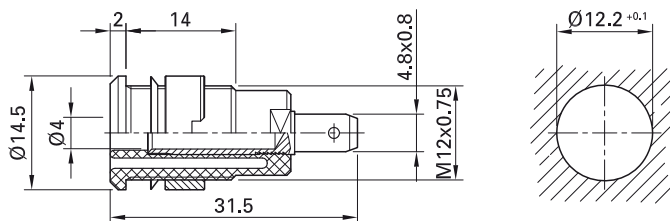
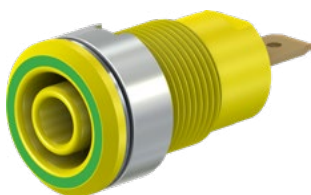
Optional colors **27** **28**  
 Further information, page 6

## Panel-mount socket SLB4-F...

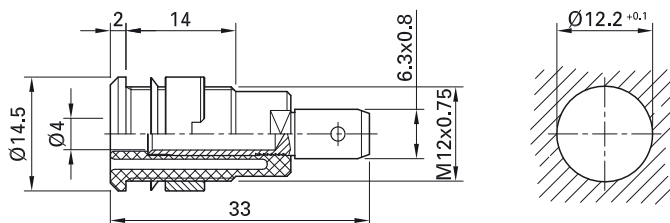
Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Machined brass. The socket

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

### SLB4-F...



### SLB4-F6,3...



| Order No. | Type          | Rated voltage/current  | Connection                             |          | *Standard colors   |    |    |    |    |    |    |    |    |    |    |
|-----------|---------------|------------------------|--|----------|--|----|----|----|----|----|----|----|----|----|----|
| 23.3000-* | SLB4-F        | 1000 V, CAT III / 24 A | Flat connecting tab<br>4.8 mm × 0.8 mm | 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       |  |    |    |    |    |    |    |    |    |    |    |
| 49.7044-* | SLB4-F/N-X    | 1000 V, CAT III / 24 A | Flat connecting tab<br>4.8 mm × 0.8 mm | 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       |  |    |    |    |    |    |    |    |    |    |    |
| 23.3060-* | SLB4-F6,3     | 1000 V, CAT III / 32 A | Flat connecting tab<br>6.3 mm × 0.8 mm | 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       |  |    |    |    |    |    |    |    |    |    |    |
| 49.7046-* | SLB4-F6,3/N-X | 1000 V, CAT III / 32 A | Flat connecting tab<br>6.3 mm × 0.8 mm | 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 167 | MUR/M12x0,75 | Round nut, suitable for | SLB4-F, SLB4-F/N-X, SLB4-F6,3, SLB4-F6,3/N-X |
| Page 167 | SSP4         | Washer, suitable for    | SLB4-F, SLB4-F6,3                            |



Assembly instructions MA152

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Flat connecting receptacles FSH...

page 170

Tube spanners SS2, SS425, page 170

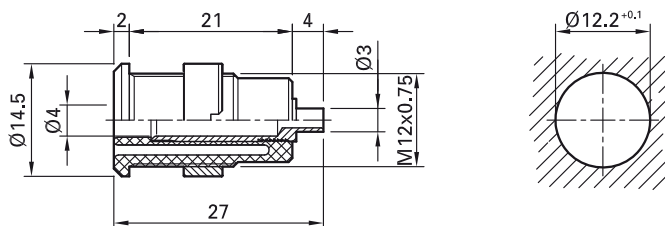
## Panel-mount socket SLB4-...

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

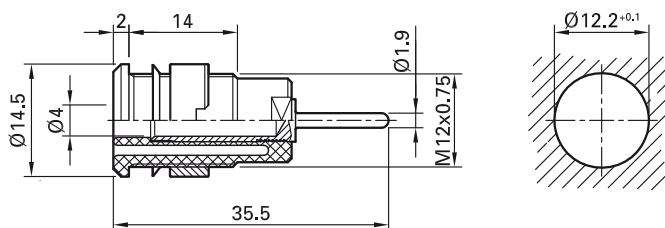
is screwed into pre-drilled panels of plastic, metal, etc.

**Connection: Various.**

### SLB4-E



### SLB4-R...



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

#### Supplied assembly material

|          |              |               |                            |
|----------|--------------|---------------|----------------------------|
| Page 167 | MUR/M12x0,75 | Round nut for | SLB4-E, SLB4-R, SLB4-R/N-X |
| Page 167 | SSP4         | Washer        | SLB4-R                     |



Optional colors 20 23 24 25 26 27 28 29

Further information, page 6



Tube spanners SS2, SS425, page 170



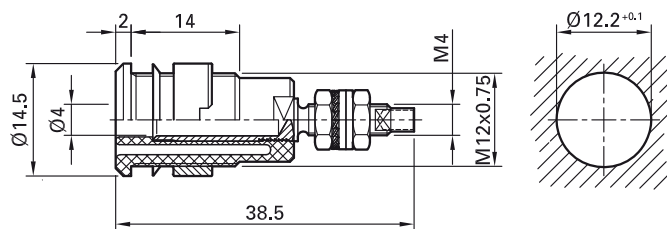
Assembly instructions MA152

[www.staubli.com/electrical](http://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.**



| Order No. | Type       | Rated voltage/current  |      | *Standard colors  |    |    |    |    |    |    |    |    |    |    |
|-----------|------------|------------------------|------|---|----|----|----|----|----|----|----|----|----|----|
| 23.3020-* | SLB4-G     | 1000 V, CAT III / 32 A | 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  |    |    |    |    |    |    |    |    |    |    |
| 49.7043-* | SLB4-G/N-X | 1000 V, CAT III / 32 A | 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 166 | MU0,8D/M4    | 2 hexagon nuts, suitable for | SLB4-G             |
| Page 166 | MU0,8D/M4N   | 2 hexagon nuts, suitable for | SLB4-G/N-X         |
| Page 167 | MUR/M12x0,75 | Round nut, suitable for      | SLB4-G, SLB4-G/N-X |
| Page 167 | SSP4         | Washer, suitable for         | SLB4-G             |
| Page 167 | U/M4         | 2 washers, suitable for      | SLB4-G             |
| Page 168 | FS/M4        | Spring washer, suitable for  | SLB4-G             |



Tube spanners SS2, SS425, page 170



Assembly instructions MA152

[www.staubli.com/electrical](http://www.staubli.com/electrical)

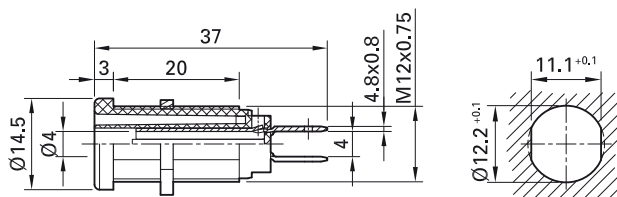
## Panel-mount socket XEB-1...

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

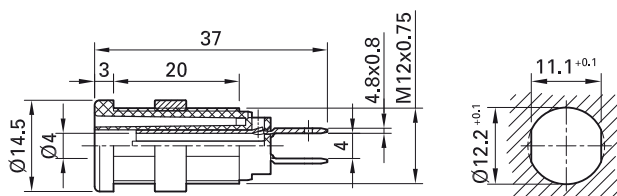
contacts, which are connected to each other when a plug is inserted (switch function). The socket is screwed into pre-drilled panels of plastic, metal, etc.

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

### XEB-1R



### XEB-1RR



| Order No. | Type    | Rated voltage/current | Connection                                 |          | *Standard colors     |
|-----------|---------|-----------------------|--|----------|----------------------|
| 66.9131-* | XEB-1R  | 1000 V, CAT IV / 20 A | 2 × Flat connecting tab<br>4.8 mm × 0.8 mm | Ni c  us | 20 21 22 23 24<br>25 |
| 66.9850-* | XEB-1RR | 1000 V, CAT IV / 20 A | 2 × Flat connecting tab<br>4.8 mm × 0.8 mm | Ni c  us | 21                   |

### Supplied assembly material

|          |               |                        |
|----------|---------------|------------------------|
| Page 166 | GEW.12-MUTTER | Hexagon nut for XEB-1R |
| Page 167 | MUR/M12x0,75  | Round nut for XEB-1RR  |



Optional colors 20 22 23 24 25 26 29

Further information, page 6



Flat connecting receptacles, page 170

Tube spanners SS2, SS425, page 170



Assembly instructions MAH506, MAH509

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Panel-mount socket XE...-1...

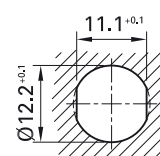
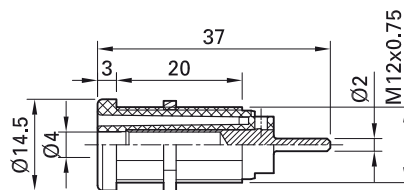
Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rig-

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

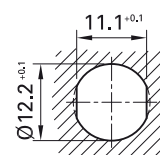
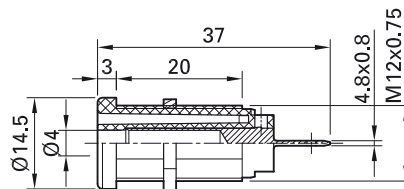
drilled panels of plastic, metal, etc.

**Various metal parts/connections.**

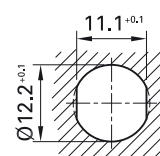
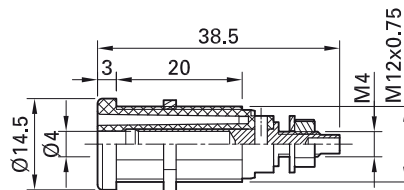
XES-1R



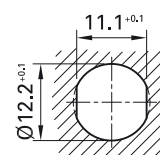
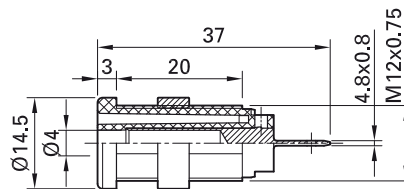
XEF-1R



XEG-1R



XEF-1RR



| Order No. | Type    | Rated voltage/current | Connection                             |  | *Standard colors |
|-----------|---------|-----------------------|--|--|------------------|
| 66.9661-* | XES-1R  | 1000 V, CAT IV / 24 A | Solder pin Ø 2.0 mm                    |  | 21 22            |
| 66.9665-* | XEF-1R  | 1000 V, CAT IV / 24 A | Flat connecting tab<br>4.8 mm × 0.8 mm |  | 21 22 23         |
| 66.9136-* | XEG-1R  | 1000 V, CAT IV / 20 A | Threaded bolt M4                       |  | 21 22            |
| 66.9854-* | XEF-1RR | 1000 V, CAT IV / 24 A | Flat connecting tab<br>4.8 mm × 0.8 mm |  | 21 22 23         |

### Supplied assembly material

|          |               |                 |                        |
|----------|---------------|-----------------|------------------------|
| Page 166 | GEW.12-MUTTER | Hexagon nut for | XES-1R, XEF-1R, XEG-1R |
| Page 167 | MUR/M12x0,75  | Round nut for   | XEF-1RR                |



Assembly instructions MAH506, MAH509

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Flat connecting receptacles, page 170

Tube spanners SS2, SS425, page 170



Optional colors

Further information, page 6

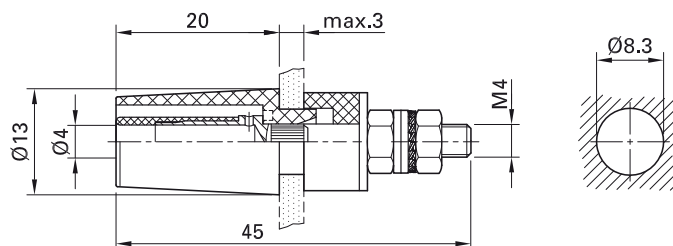
## Mounting socket SAB4-G...

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

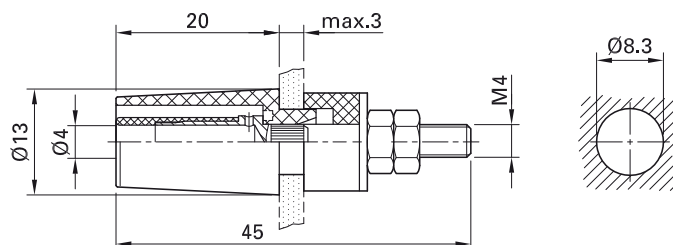
is surface-mounted in pre-drilled panels of plastic, metal, etc.

**Connection: Threaded bolt M4.**

### SAB4-G



### SAB4-G/N-X



| Order No. | Type       | Rated voltage/current |      | *Standard colors |
|-----------|------------|-----------------------|------|------------------|
| 23.3050-* | SAB4-G     | 1000 V, CAT II / 32 A | Au c | 21 22 23         |
| 49.7042-* | SAB4-G/N-X | 1000 V, CAT II / 32 A | Ni c | 21 22 23         |

### Supplied assembly material

|          |            |                    |                    |
|----------|------------|--------------------|--------------------|
| Page 166 | MU0,8D/M4  | 2 hexagon nuts for | SAB4-G             |
| Page 166 | MU0,8D/M4N | 2 hexagon nuts for | SAB4-G/N-X         |
| Page 167 | U/M4       | 2 washers for      | SAB4-G             |
| Page 167 | U/4,3x12   | Washer for         | SAB4-G, SAB4-G/N-X |
| Page 168 | FS/M4      | Spring washer      | SAB4-G             |
| Page 169 | ID-SAB4-G  | Spacer sleeve for  | SAB4-G, SAB4-G/N-X |



Optional colors 20 24 25 26 27 28 29

Further information, page 6



**Tube spanner SS2, page 170**



**Assembly instructions MA153**

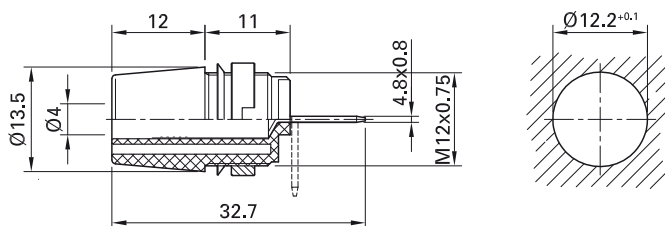
[www.staubli.com/electrical](http://www.staubli.com/electrical)



## 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 |          | *Standard colors |
|-----------|----------|-----------------------|----------|------------------|
| 23.3110-* | SAB4-F/A | 1000 V, CAT II / 20 A | Ni c  us | 21 22 23 24 25   |

### Supplied assembly material

|          |                |           |
|----------|----------------|-----------|
| Page 167 | MUR-S/M12x0,75 | Round nut |
| Page 167 | SSP4           | Washer    |



Optional colors 20 26

Further information, page 6



**Flat connecting receptacle FSH4,8x0,8,**  
page 170

**Tube spanners SS2, SS425,** page 170



**Assembly instructions MA152**

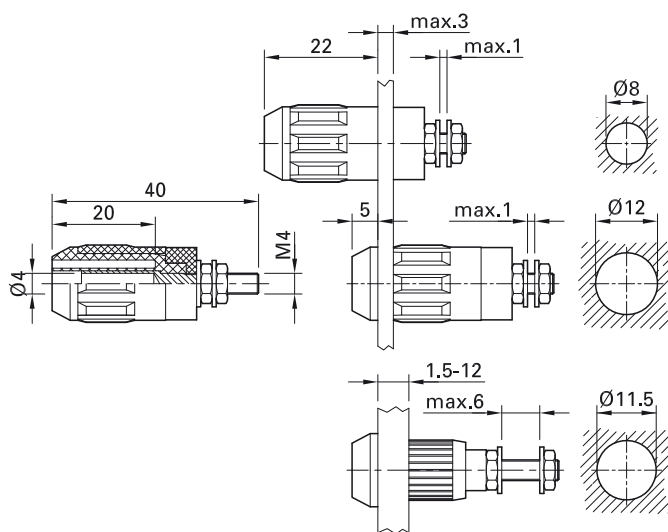
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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   |            | *Standard colors     |
|-----------|-------|---|------------|----------------------|
| 66.9684-* | XUB-G | 600 V <sup>1)</sup> , CAT II / 20 A<br>1000 V <sup>2)</sup> , CAT II / 20 A | Ni c RU us | 21 22 23 24 25<br>29 |

<sup>1)</sup> Surface-mounted

<sup>2)</sup> Assembled flush or pressed in



Optional colors 20 26 27 28

Further information, page 6



Protective cap SD-XUB, page 168

Press-in tool MB4-S, page 171



Assembly instructions MAH507

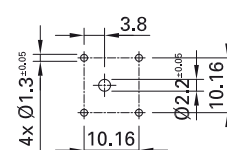
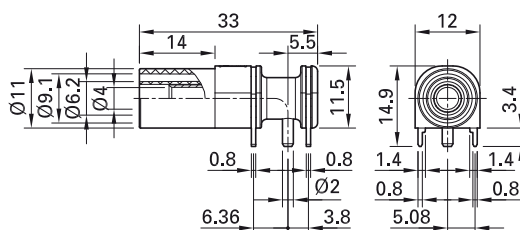
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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.**



Panel drilling

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



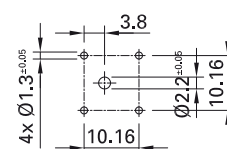
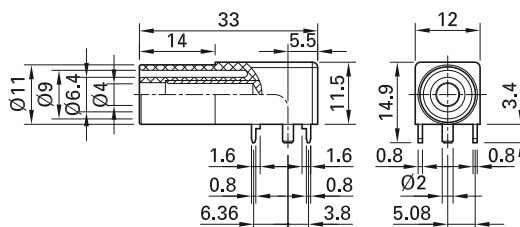
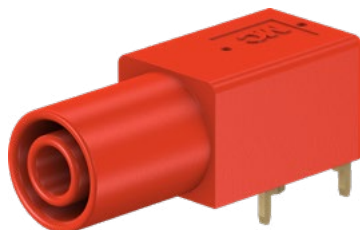
### Assembly instructions MAH561

[www.staubli.com/electrical](http://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 contacts for mounting on printed circuit boards.**



Panel drilling

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



Optional colors 23 24 25

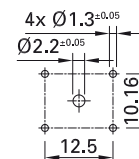
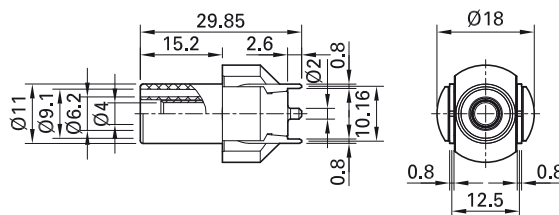
Further information, page 6

## 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 Ø 4 mm socket, to fit 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.**



Panel drilling

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



Assembly instructions MAH565

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 23 24

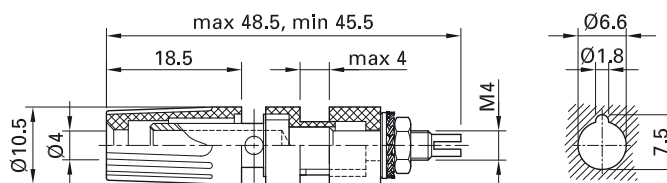
Further information, page 6

## Binding post PK4-T

Insulated, Ø 4 mm, rigid, and insulated head undetachable. Ø 2.5 mm cross hole for quick wire connection. Machined brass.

For mounting, with anti-rotation lug, in front panels up to 4 mm thick.

**Connection: Threaded bolt M4.**



| Order No. | Type  | Rated voltage/current          |    | *Standard colors |
|-----------|-------|--------------------------------|----|------------------|
| 23.0330-* | PK4-T | 30 VAC / 35 A<br>60 VDC / 35 A | Ni | 21 22 23         |



Optional colors 20 24 25 29

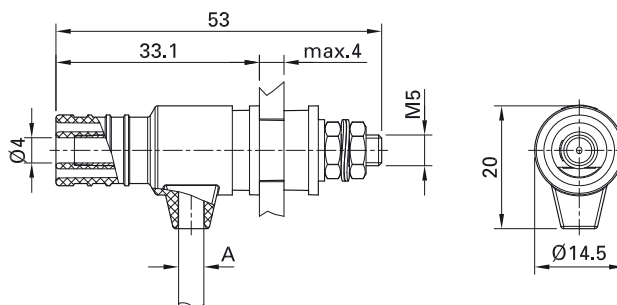
Further information, page 6

## Binding post SPK4

Insulated, with  $\varnothing$  4 mm rigid socket accepting spring-loaded  $\varnothing$  4 mm plugs with rigid insulating sleeve.  $\varnothing$  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 |    | *Standard colors |
|-----------|------|-----------------------|----|------------------|
| 23.0410-* | SPK4 | 600 V, CAT II / 32 A  | Au | 21 22            |



Assembly instructions MA153

[www.staubli.com/electrical](http://www.staubli.com/electrical)

# Connecting plugs

## Connecting plug KS4-1...

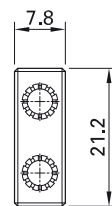
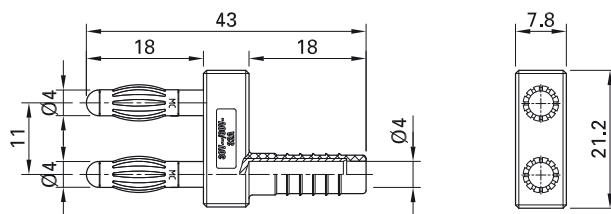
Insulated, Ø 4 mm, made of brass. Equipped with spring-loaded MULTILAM to ensure vibration-proof contacts – ideal use is in the automotive field for test drives and servic-

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

KS4-11L/1A/N



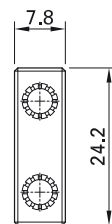
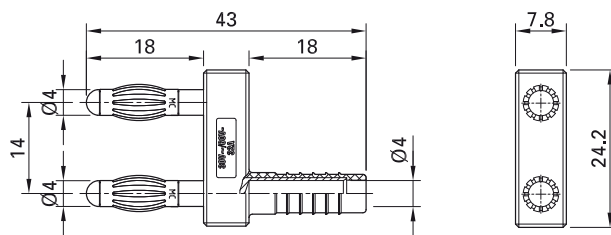
KS4-11L/1A/A



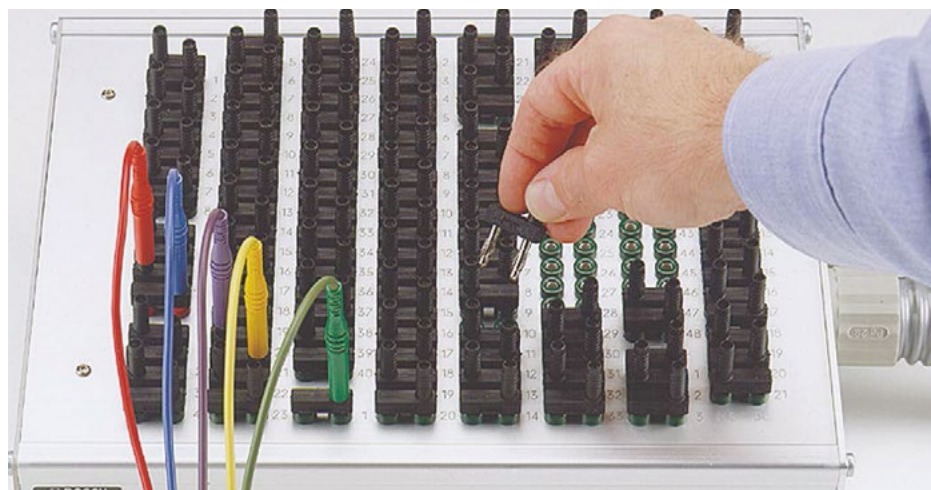
KS4-14LA/N



KS4-14LA/A



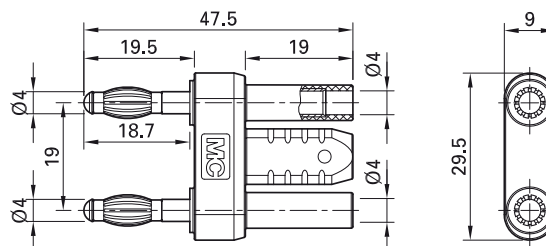
| Order No.  | Type         | Rated voltage/current          | Plug spacing |    | Standard colors |
|------------|--------------|--------------------------------|--------------|----|-----------------|
| 64.9302-21 | KS4-11L/1A/N | 30 VAC / 32 A<br>60 VDC / 32 A | 11 mm        | Ni | 21              |
| 64.9301-21 | KS4-11L/1A/A | 30 VAC / 32 A<br>60 VDC / 32 A | 11 mm        | Au | 21              |
| 20.1010-21 | KS4-14LA/N   | 30 VAC / 32 A<br>60 VDC / 32 A | 14 mm        | Ni | 21              |
| 20.1020-21 | KS4-14LA/A   | 30 VAC / 32 A<br>60 VDC / 32 A | 14 mm        | Au | 21              |



## Connecting plug KS4-19L/1

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

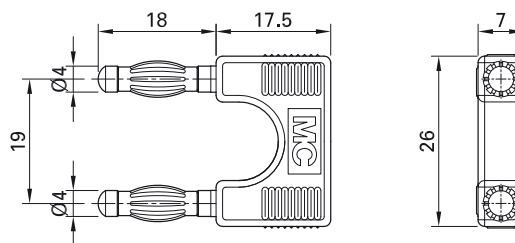
sockets accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No.  | Type      | Rated voltage/current          | Plug spacing |    | Standard colors |
|------------|-----------|--------------------------------|--------------|----|-----------------|
| 24.0027-21 | KS4-19L/1 | 30 VAC / 32 A<br>60 VDC / 32 A | 19 mm        | Ni | 21              |

## Connecting plug KS4-19L

Insulated, Ø 4 mm. Made of brass, one piece and with spring-loaded MULTILAM.



| Order No.  | Type    | Rated voltage/current          | Plug spacing |    | Standard colors |
|------------|---------|--------------------------------|--------------|----|-----------------|
| 24.0020-28 | KS4-19L | 30 VAC / 32 A<br>60 VDC / 32 A | 19 mm        | Au | 28              |



User information **i099**

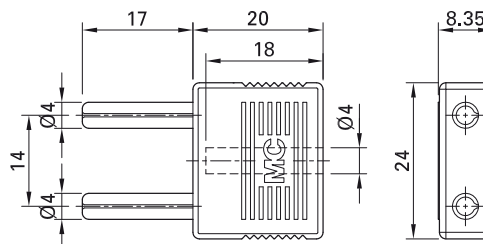
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Connecting plug KS4-1...

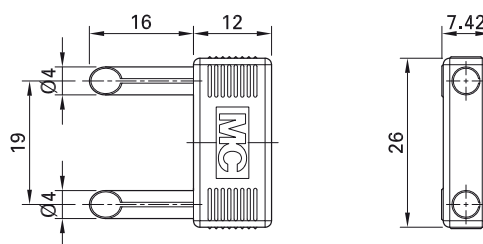
Insulated, Ø 4 mm. Hollow plug, made from a single piece of hard-drawn copper alloy.

Type KS4-14 with Ø 4 mm rigid socket in insulator for tap connection at rear.

### KS4-14



### KS4-19



| Order No.  | Type   | Rated voltage/current          | Plug spacing |    | Standard colors |
|------------|--------|--------------------------------|--------------|----|-----------------|
| 24.0004-28 | KS4-14 | 30 VAC / 25 A<br>60 VDC / 25 A | 14 mm        | Au | 28              |
| 24.0002-21 | KS4-19 | 30 VAC / 25 A<br>60 VDC / 25 A | 19 mm        | Au | 21              |



### User information i097

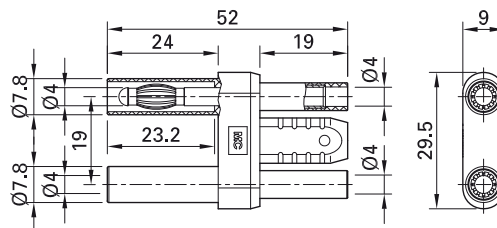
[www.staubli.com/electrical](http://www.staubli.com/electrical)



### 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.



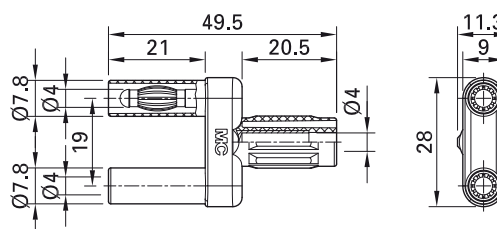
| Order No.  | Type       | Rated voltage/current | Plug spacing |       | Standard colors |
|------------|------------|-----------------------|--------------|-------|-----------------|
| 24.0028-21 | SKS4-19L/1 | 1000 V, CAT II / 32 A | 19 mm        | Ni CE | 21              |

### 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 |       | *Standard colors |
|-----------|-----------|-----------------------|--------------|-------|------------------|
| 66.9172-* | XVBB-4/19 | 1000 V, CAT II / 32 A | 19 mm        | Ni CE | 21 22            |

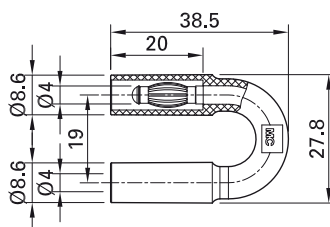


Optional colors 23 27 28

Further information, page 6

## 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 |       | Standard colors |
|------------|----------|-----------------------|--------------|-------|-----------------|
| 24.0023-21 | SKS4-19L | 1000 V, CAT II / 32 A | 19 mm        | Au CE | 21              |

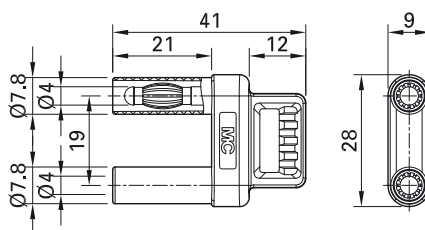


### User information i006

[www.staubli.com/electrical](http://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 |       | *Standard colors |
|-----------|----------|-----------------------|--------------|-------|------------------|
| 66.9171-* | XVB-4/19 | 1000 V, CAT II / 32 A | 19 mm        | Ni CE | 21 22            |



Optional colors 23 27 28

Further information, page 6

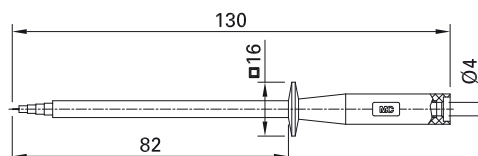
# Test probes

## Test probe PP-130

With stainless steel needle, ground to a sharp point, eg. for piercing thin insulation and oxide layers. The insulation can be cut

back in steps to bare a suitable length of tip. The test probe features an anti-roll finger

guard. Ø 4 mm rigid socket in handle. Supplied with protective cap.



| Order No. | Type   | Rated voltage/current        |  | *Standard colors |
|-----------|--------|------------------------------|--|------------------|
| 64.9205-* | PP-130 | 30 VAC / 1 A<br>60 VDC / 1 A |  | 21 22            |



Optional colors 23 24 25

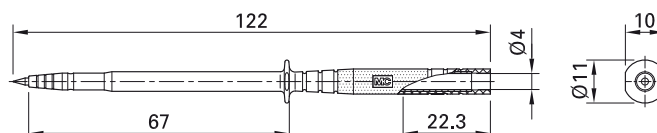
Further information, page 6

## 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.



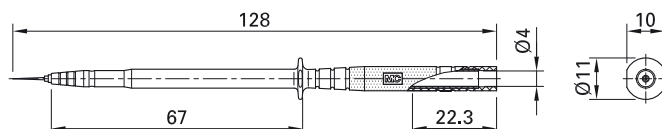
| Order No. | Type   | Rated voltage/current |    | *Standard colors |
|-----------|--------|-----------------------|----|------------------|
| 24.0235-* | SPP4-S | 1000 V, CAT III / 1 A | CE | 21 22            |

### 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.



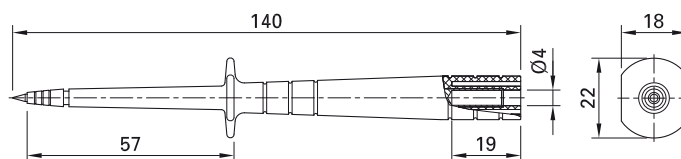
| Order No. | Type     | Rated voltage/current |    | *Standard colors |
|-----------|----------|-----------------------|----|------------------|
| 24.0238-* | SPP4-S/F | 1000 V, CAT II / 1 A  | CE | 21 22            |

### 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.



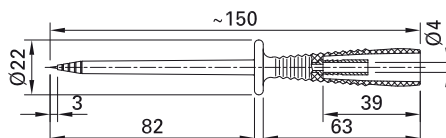
| Order No. | Type | Rated voltage/current                        |    | *Standard colors |
|-----------|------|--|----|------------------|
| 24.0231-* | SPP4 | 1000 V, CAT III / 1 A<br>600 V, CAT IV / 1 A | CE | 21 22            |

## 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                        |            | *Standard colors |
|-----------|----------|--|------------|------------------|
| 66.9113-* | HP-150/A | 1000 V, CAT III / 1 A<br>600 V, CAT IV / 1 A | CE c UL US | 21 22            |



Optional colors [23](#)

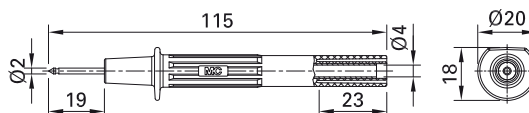
Further information, page 6

## 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.



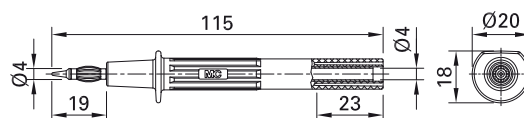
| Order No. | Type     | Rated voltage/current |            | *Standard colors |
|-----------|----------|-----------------------|------------|------------------|
| 66.9115-* | PP-115/2 | 1000 V, CAT II / 10 A | CE c UL US | 21 22 23         |

## 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 |            | *Standard colors |
|-----------|----------|-----------------------|------------|------------------|
| 66.9112-* | PP-115/4 | 1000 V, CAT II / 32 A | CE c UL US | 21 22 23 24      |



Optional colors 25

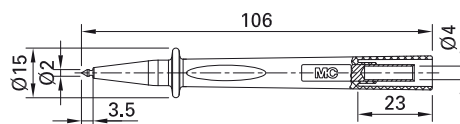
Further information, page 6

## 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 |            | *Standard colors |
|-----------|-------|-----------------------|------------|------------------|
| 66.9390-* | BT400 | 1000 V, CAT IV / 1 A  | CE c UL US | 21 22 23         |



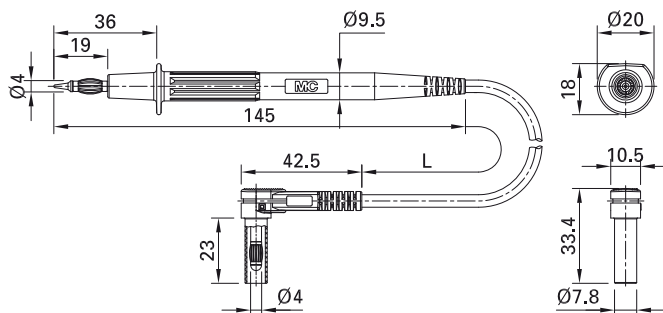
Optional colors 27 28

Further information, page 6

## Test probe with measurement cable 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.



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

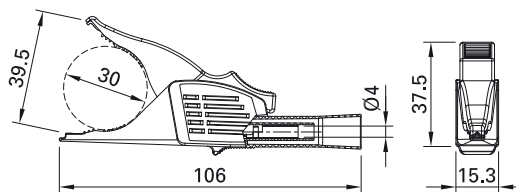


Pluggable accessory XDK-1033P, see below



Optional colors [23](#)  
Optional lengths on demand  
Further information, page 6

### Accessory



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.

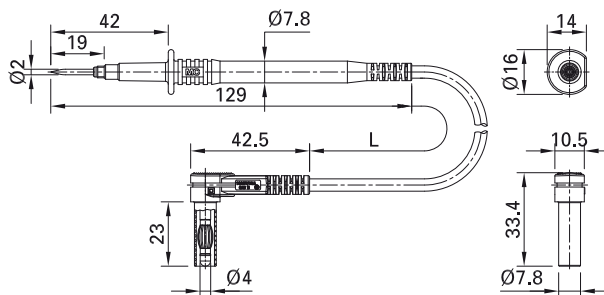
| Order No. | Type      | Rated voltage/current |               | *Standard colors |
|-----------|-----------|-----------------------|---------------|------------------|
| 66.9521-* | XDK-1033P | 1000 V, CAT II / 19 A | Ni CE c UL US | 21 22            |

## Test probe with measurement cable XPF-480/2G

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

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

$\varnothing 4$  mm MULTILAM plug with rigid insulating sleeve. Supplied with protective cap.



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



Optional colors [23](#)

Optional lengths on demand

Further information, page 6



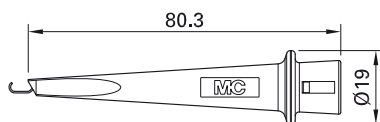
**Screw-on accessories**

HC200-2G, XKK-200-2G, see below



Accessories

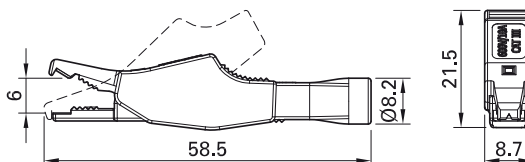
HC200-2G



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 |       | *Standard colors |
|-----------|------------|-----------------------|-------|------------------|
| 66.9473-* | HC200-2G   | 1000 V, CAT II / 5 A  | Ni CE | 21               |
| 66.9091-* | XKK-200-2G | 600 V, CAT II / 10 A  | Ni CE | 21 22            |



Optional colors 22 23

Further information, page 6

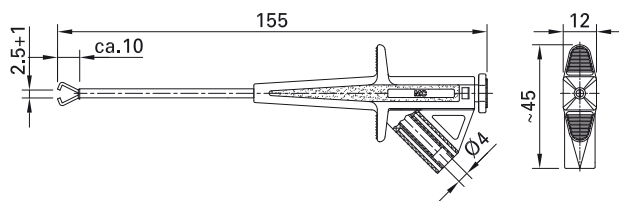
# Clips

## 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 |            | *Standard colors |
|-----------|--------|-----------------------|------------|------------------|
| 24.0224-* | SKPS-4 | 1000 V, CAT II / 4 A  | CE c UL US | 21 22 23         |



Optional colors 24 25 26

Further information, page 6

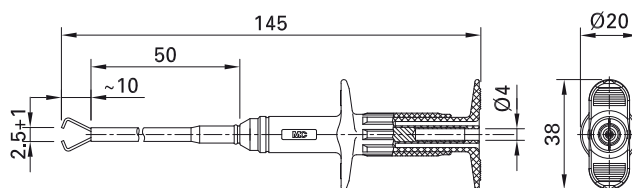
## Test clip GRIP-B...

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

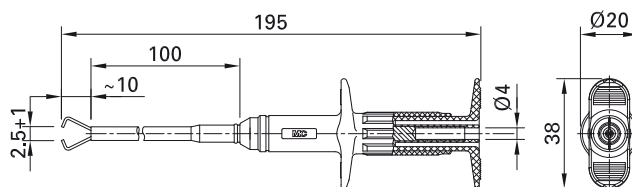
is silicone insulated and guarantees good heat resistance and flexibility even at low temperatures. Ø 4 mm rigid socket in handle accepting spring-loaded Ø 4 mm plugs

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

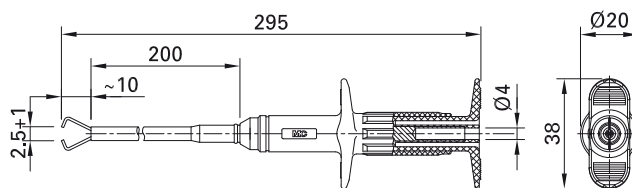
GRIP-B/50



GRIP-B/100



GRIP-B/200



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



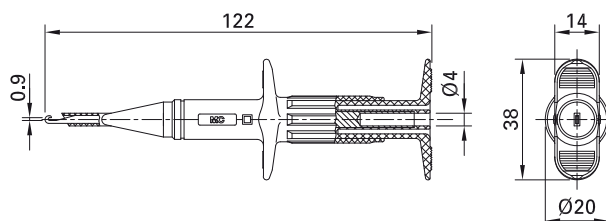
Optional colors 22 23 24 25

Further information, page 6

## 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 |            | *Standard colors |
|-----------|--------|-----------------------|------------|------------------|
| 66.9116-* | GRIP-A | 1000 V, CAT III / 3 A | CE c UL US | 21 22            |



Optional colors 23 24 25

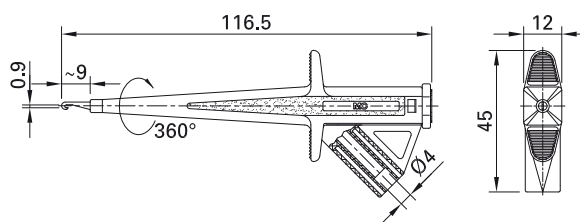
Further information, page 6

## 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 |               | *Standard colors |
|-----------|----------|-----------------------|---------------|------------------|
| 66.9416-* | SKPS-4/A | 1000 V, CAT III / 4 A | Ni CE c UL US | 21 22 23         |

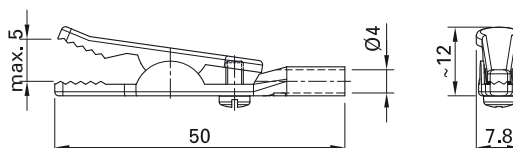


Optional colors 24 25 26

Further information, page 6

## Test clip AGK20

Uninsulated, with Ø 4 mm rigid socket.  
Steel. Connection also possible with screw clamp or soldering.



| Order No. | Type  | Rated voltage/current          |    |  |
|-----------|-------|--------------------------------|----|--|
| 24.0149   | AGK20 | 30 VAC / 10 A<br>60 VDC / 10 A | Ni |  |

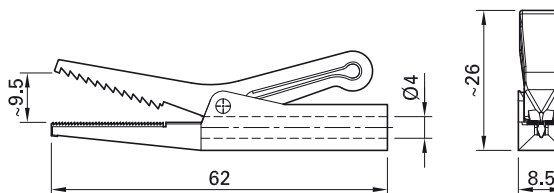


### User information i093

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Test clip APK-4

Insulated, with Ø 4 mm rigid socket. Brass.  
Sharp toothed, pointed jaws. The upper jaw is insulated.



| Order No. | Type  | Rated voltage/current          |    | *Standard colors |
|-----------|-------|--------------------------------|----|------------------|
| 64.9209-* | APK-4 | 30 VAC / 10 A<br>60 VDC / 10 A | Ni | 21 22 25         |



Optional colors 23 24 26

Further information, page 6



### User information i093

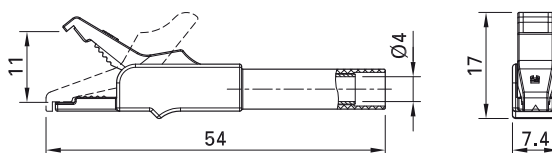
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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 |       | *Standard colors |
|-----------|---------|-----------------------|-------|------------------|
| 24.0157-* | SAGK4-K | 300 V, CAT II / 15 A  | Ni CE | 21 22            |



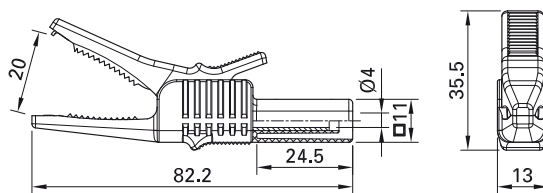
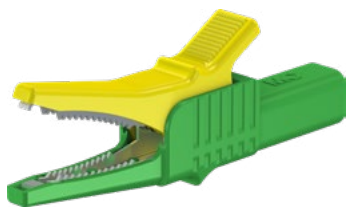
Optional colors [23](#)

Further information, page 6

## 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 |              | *Standard colors        |
|-----------|----------|-----------------------|--------------|-------------------------|
| 66.9755-* | XKK-1001 | 1000 V, CAT II / 32 A | Ni CE cUL us | 20 21 22 23 24<br>25 27 |



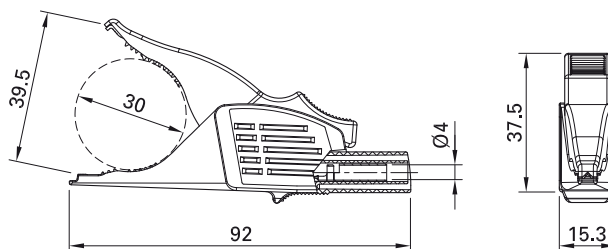
Optional colors [26](#) [29](#)

Further information, page 6

## 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  |               | *Standard 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            |   |    |    |    |    |    |    |    |    |    |  |



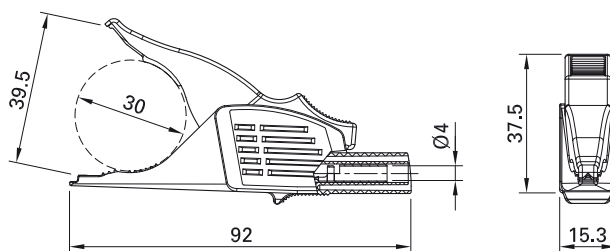
Optional colors <sup>28</sup>

Further information, page 6

## 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.

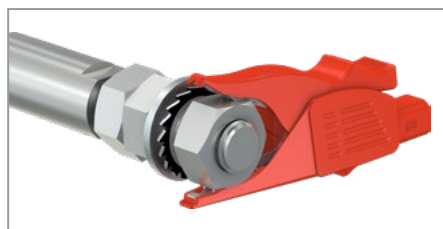


| Order No. | Type         | Rated voltage/current                          |               | *Standard colors  |    |    |    |    |    |    |    |    |    |    |
|-----------|--------------|--|---------------|---|----|----|----|----|----|----|----|----|----|----|
| 66.9561-* | XDK-1033/I-2 | 1000 V, CAT III / 19 A<br>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>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  |    |    |    |    |    |    |    |    |    |    |



Optional colors [28](#)

Further information, page 6



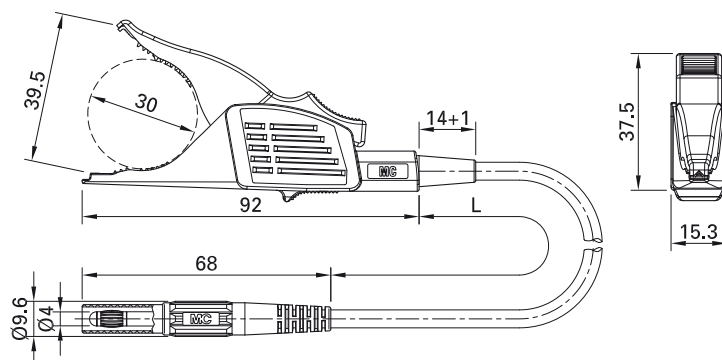
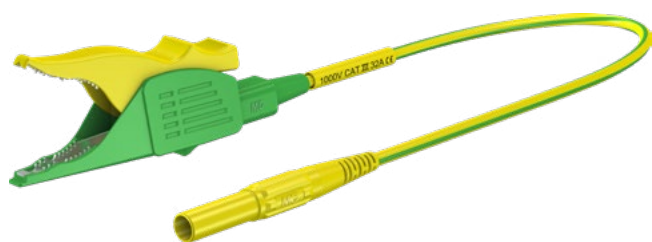
The varied grip options for our dolphin clips.



## 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] | *Standard colors |
|--------------|----------|------------------------|-------------------------|-------|------------------|------------------|
| 66.9531-150* | XDLS-418 | 1000 V, CAT III / 32 A | PVC 2.5 mm <sup>2</sup> | Ni CE | 150              | 20 21 22         |



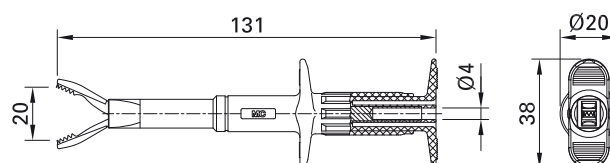
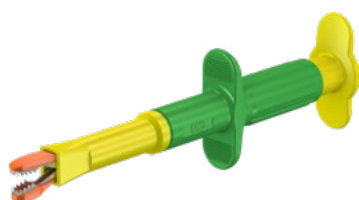
Optional colors 23 24 25 26 27 28 29

Further information, page 6

## 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  |               | *Standard colors  |
|-----------|---------|------------------------|---------------|-------------------|
| 66.9121-* | GRIP-CI | 1000 V, CAT III / 16 A | Ni CE c UL US | 20 21 22 23 24 25 |



Optional colors 26 29

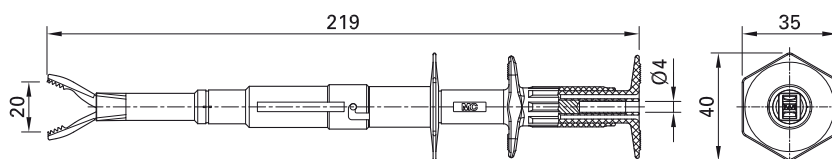
Further information, page 6

## 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                     |                             | *Standard colors |
|-----------|---------|---|-----------------------------|------------------|
| 66.9266-* | GRIP-DI | 1000 V, CAT III / max. 16 A <sup>1)</sup> | Ni CE c UL <sup>2)</sup> US | 21               |

<sup>1)</sup> Depends on the fuse used.

<sup>2)</sup> Only if used with UL approved fuses.



Optional colors 22 23 24 25 26

Further information, page 6



**High breaking capacity fuse: page 173**



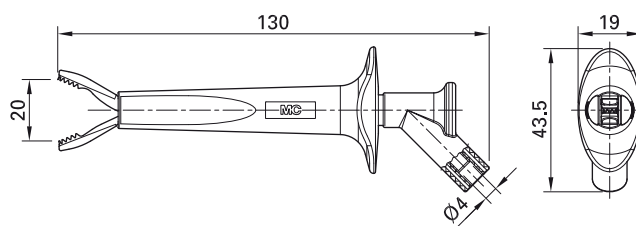
**User information i068**

[www.staubli.com/electrical](http://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 |               | *Standard colors |
|-----------|-------|-----------------------|---------------|------------------|
| 66.9474-* | AB200 | 1000 V, CAT IV / 16 A | Ni CE c UL US | 21 22 23         |



Optional colors 27 28

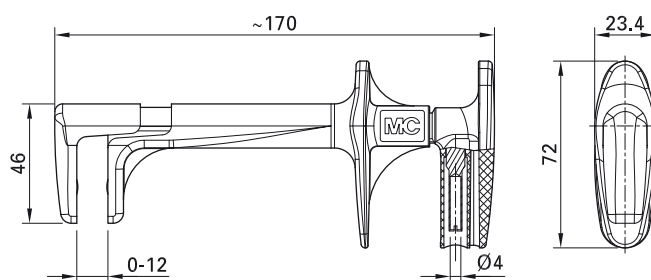
Further information, page 6

## 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.

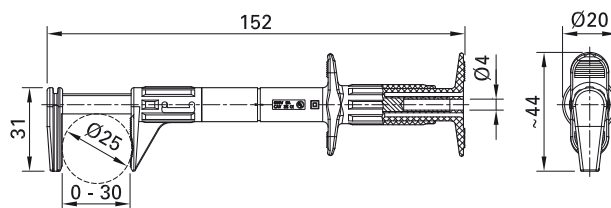


| Order No.  | Type     | Rated voltage/current |    | Standard colors |
|------------|----------|-----------------------|----|-----------------|
| 66.9435-21 | GRIP-FMA | 1000 V, CAT IV / 32 A | CE | 21              |

## 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 |               | *Standard colors |
|-----------|--------|-----------------------|---------------|------------------|
| 66.9829-* | GRIP-F | 600 V, CAT III / 5 A  | Ni CE c UL US | 21 22 23         |



Optional colors 20 24 25 26

Further information, page 6

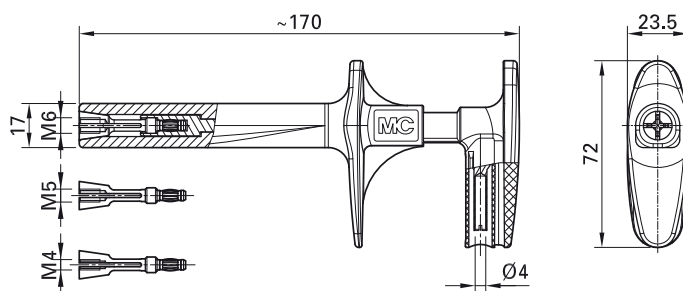
## Single-collet plier GRIP-ESZ...

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...



| Order No.  | Type      | Rated voltage/current      | Plier insert | Thread | Lead lengths L [cm] |    | Standard colors |
|------------|-----------|----------------------------|--------------|--------|---------------------|----|-----------------|
| 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              |

### 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 |    |



### User information **i**112

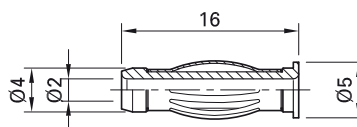
[www.staubli.com/electrical](http://www.staubli.com/electrical)

# Adapters

## Reducer adapter R4/2

Uninsulated, Ø 4 mm plug, made of brass, with spring-loaded MULTILAM. Ø 2 mm rigid

socket, accepting spring-loaded Ø 2 mm plugs (pluggable on both sides).



| Order No. | Type | Rated voltage/current          |    |  |
|-----------|------|--------------------------------|----|--|
| 24.0110   | R4/2 | 30 VAC / 25 A<br>60 VDC / 25 A | Au |  |



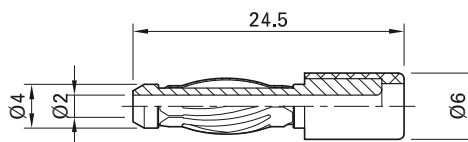
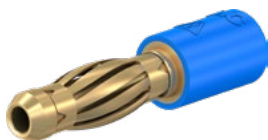
### User information i097

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Reducer adapter R4/2-A

Insulated, Ø 4 mm plug, made of brass, with spring-loaded MULTILAM. Ø 2 mm rigid

socket in insulator accepting spring-loaded Ø 2 mm plugs (pluggable on both sides).



| Order No. | Type   | Rated voltage/current          |    | *Standard colors |
|-----------|--------|--------------------------------|----|------------------|
| 24.0106-* | R4/2-A | 30 VAC / 25 A<br>60 VDC / 25 A | Au | 21 22 23         |



Optional colors **24**

Further information, page 6



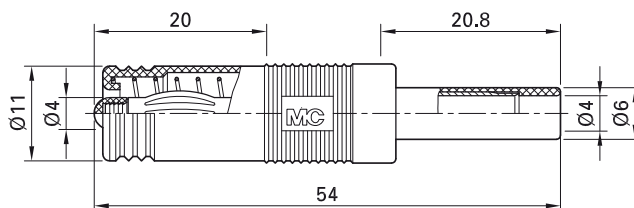
### User information i097

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug adapter A4/4-Z

Ø 4 mm plug, made of brass, with spring-loaded MULTILAM and retractable sleeve to prevent accidental contact.

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



| Order No.  | Type   | Rated voltage/current          |    | Standard colors |
|------------|--------|--------------------------------|----|-----------------|
| 24.0116-22 | A4/4-Z | 30 VAC / 25 A<br>60 VDC / 25 A | Ni | 22              |



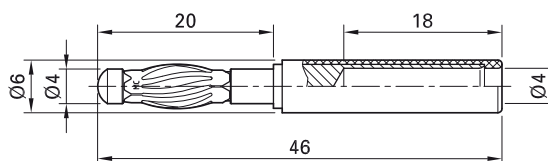
### User information i097

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Plug adapter LS410-I

Ø 4 mm plug, made of brass, with spring-loaded MULTILAM. Ø 4 mm rigid

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



| Order No. | Type    | Rated voltage/current          |    | *Standard colors |
|-----------|---------|--------------------------------|----|------------------|
| 22.5163-* | LS410-I | 30 VAC / 30 A<br>60 VDC / 30 A | Ni | 21 22            |



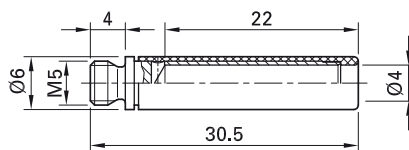
### User information i098

[www.staubli.com/electrical](http://www.staubli.com/electrical)

### Screw-in adapter B4-E-M5-I

Insulated screw-in adapter with M5 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.



| Order No. | Type      | Rated voltage/current          | Thread |    | *Standard colors |
|-----------|-----------|--------------------------------|--------|----|------------------|
| 23.1034-* | B4-E-M5-I | 30 VAC / 30 A<br>60 VDC / 30 A | M5     | Ni | 21               |

#### Component parts

|           |         |                     |
|-----------|---------|---------------------|
| 24.5012-* | I-A2/4  | Insulator           |
| 23.5085   | B4-E-M5 | Uninsulated adapter |



#### User information i098

[www.staubli.com/electrical](http://www.staubli.com/electrical)



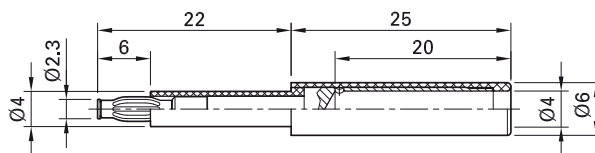
Optional colors 22 23 24

Further information, page 6

### Test plug PS2,3

Ø 2.3 mm plug, made of silver-plated brass with spring-loaded MULTILAM, suitable for installation terminals with threaded

holes M3. Ø 4 mm rigid socket in insulator accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.



| Order No. | Type  | Rated voltage/current          |    | *Standard colors |
|-----------|-------|--------------------------------|----|------------------|
| 24.0100-* | PS2,3 | 30 VAC / 25 A<br>60 VDC / 25 A | Ag | 21 22            |



#### User information i097

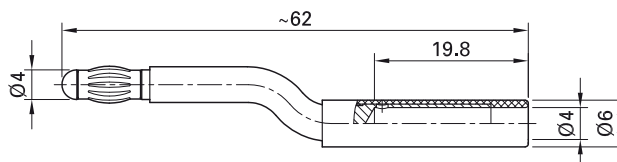
[www.staubli.com/electrical](http://www.staubli.com/electrical)



## Test plug A-SLK4-RG

Ø 4 mm, made of brass with spring-loaded MULTILAM for connecting into rail mounted terminals with Ø 4 mm sockets. Ø 4 mm rigid

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



| Order No.  | Type      | Rated voltage/current          |    | Standard colors |
|------------|-----------|--------------------------------|----|-----------------|
| 24.0164-21 | A-SLK4-RG | 30 VAC / 25 A<br>60 VDC / 25 A | Ni | 21              |

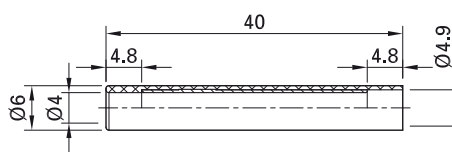
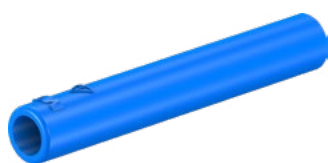


### User information i097

[www.staubli.com/electrical](http://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 |       | *Standard colors |
|-----------|-------|-----------------------|-------|------------------|
| 24.0142-* | KK4/4 | 1000 V, CAT II / 32 A | Au CE | 21 22 23 24      |

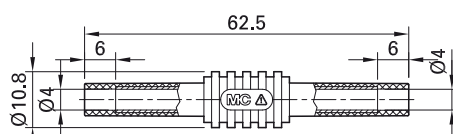


### User information i006

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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 |            | *Standard colors |
|-----------|------|-----------------------|------------|------------------|
| 66.9123-* | XHK  | 1000 V, CAT II / 32 A | CE c UL US | 21 22 23         |



### User information i006

[www.staubli.com/electrical](http://www.staubli.com/electrical)



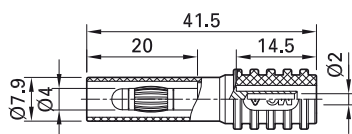
Optional colors 24 25 26 27 29

Further information, page 6

## 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 |       | *Standard colors |
|-----------|--------|-----------------------|-------|------------------|
| 65.9192-* | XA-2/4 | 600 V, CAT III / 10 A | Ni CE | 21 22 23         |



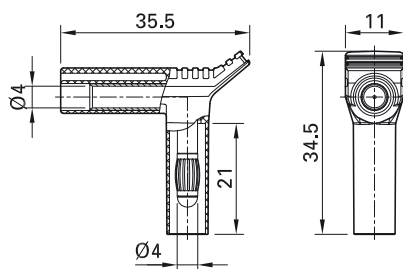
### User information i001

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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                          |       | *Standard colors |
|-----------|----------|--|-------|------------------|
| 66.9694-* | XWA-4/19 | 1000 V, CAT II / 20 A<br>600 V, CAT III / 20 A | Ni CE | 21               |



Optional colors 22 23 24 25 26 27 29

Further information, page 6

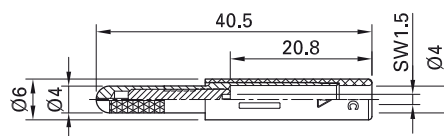
## Screw-clamping adapter A-SLK4...

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

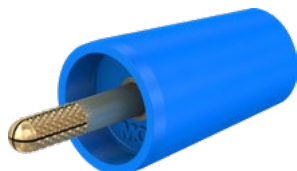
into the socket by tightening the grub screw. Assembled, the adapter offers complete touch-proof protection. Ø 4 mm rigid

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

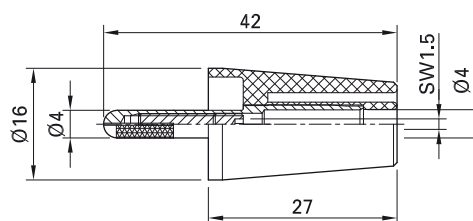
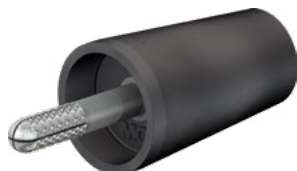
### A-SLK4-S



### A-SLK4



### A-SLK4-N



| Order No. | Type     | Rated voltage/current | User information |    | *Standard colors |
|-----------|----------|-----------------------|------------------|----|------------------|
| 24.0163-* | A-SLK4-S | 1000 V, CAT II / 25 A | i011             | Ni | 21 22 23         |
| 24.0160-* | A-SLK4   | 1000 V, CAT II / 32 A | i010             | Au | 20 21 22 23 24   |
| 24.0161-* | A-SLK4-N | 1000 V, CAT II / 32 A | i010             | Ni | 21 22            |



Optional colors 20 23 24 25 26 27 28 29

Further information, page 6



Hexagon wrench STS1,5: page 171



User information **i010**, **i011**

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Assembly instructions **MA115**

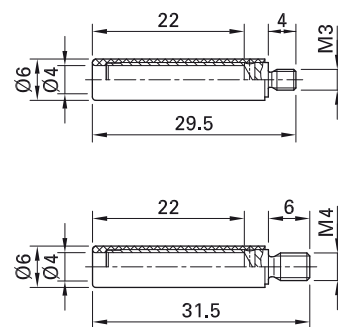
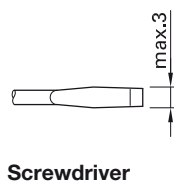
[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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.



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



Optional colors 24

Further information, page 6



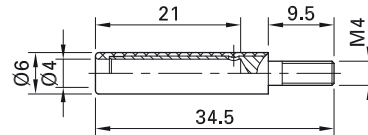
User information **i119**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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 |    | *Standard colors |
|-----------|----------|-----------------------|--------|----|------------------|
| 23.0280-* | LB4-G/M4 | 600 V, CAT II / 32 A  | M4     | Ni | 21 22            |



### User information i119

[www.staubli.com/electrical](http://www.staubli.com/electrical)



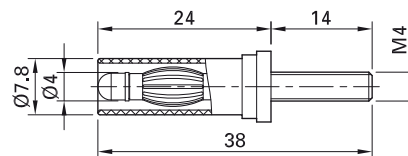
Optional colors 23 24

Further information, page 6

## 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 |    | *Standard colors |
|-----------|----------|-----------------------|----|------------------|
| 24.0117-* | SA400-VI | 600 V, CAT II / 32 A  | Au | 21 22            |



Optional colors 23 24 25 26 27 28 29

Further information, page 6



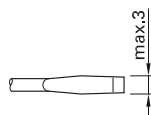
### User information i119

[www.staubli.com/electrical](http://www.staubli.com/electrical)

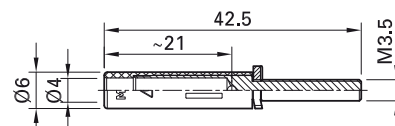
## Screw-in adapter A-SLK4-RS

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.



Screwdriver



| Order No. | Type      | Rated voltage/current |    | *Standard colors |
|-----------|-----------|-----------------------|----|------------------|
| 24.0168-* | A-SLK4-RS | 1000 V, CAT II / 25 A | Ni | 21 22 23 24      |



Optional colors 25 26 29

Further information, page 6



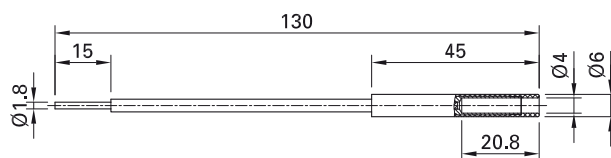
### User information i009

[www.staubli.com/electrical](http://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 |    | Standard colors |
|------------|----------|-----------------------|----|-----------------|
| 24.0162-21 | A-SLK4-R | 1000 V, CAT II / 32 A | Ni | 21              |



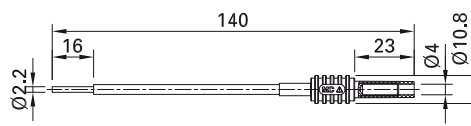
### User information i010

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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 |    | *Standard colors |
|-----------|------|-----------------------|----|------------------|
| 66.9135-* | XRKA | 1000 V, CAT II / 32 A | Ni | 21 22 23         |



### User information i010

[www.staubli.com/electrical](http://www.staubli.com/electrical)



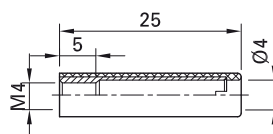
Optional colors 23 24 25 26 27 28 29

Further information, page 6

## 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 |    | *Standard colors |
|-----------|------------|-----------------------|----|------------------|
| 23.1035-* | B4-E-IM4-I | 600 V, CAT II / 32 A  | Ni | 21 22 23         |

### Component parts

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



### User information i119

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 24

Further information, page 6



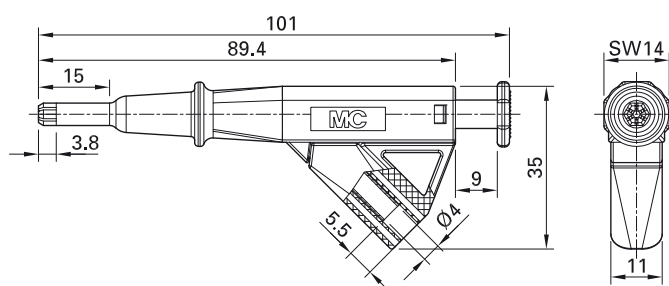
## Screw-clamping adapter VARIOGRIP-...

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

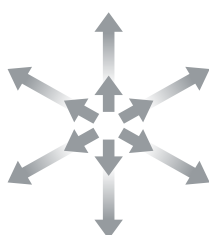
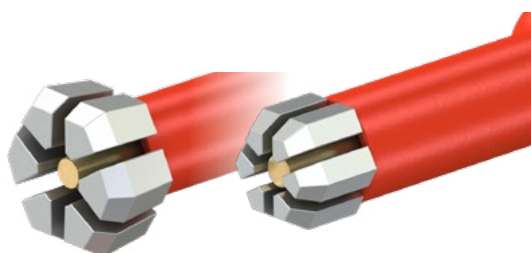


| Order No. | Type        | Rated voltage/current | Internal hexagon |       | *Standard colors |
|-----------|-------------|-----------------------|------------------|-------|------------------|
| 66.9055-* | VARIOGRIP-5 | 600 V, CAT IV / 24 A  | 5 mm             | Ni CE | 21 22 23         |
| 66.9056-*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



Optional colors [23](#)

Further information, page 6

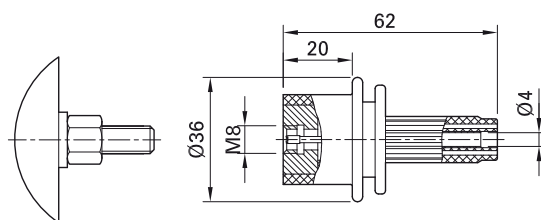


## Screw-on adapters GBSA/M...

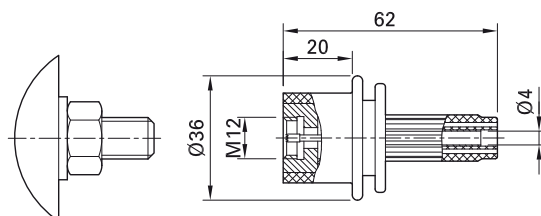
Insulated, with internal thread for rapid and safe contact to threaded bolts. Contact is made by a spring-loaded tip. Ø 4 mm rigid socket in insulator accepting spring-loaded

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

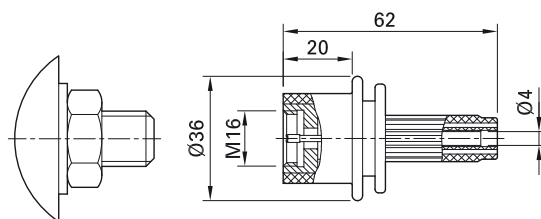
### GBSA/M8



### GBSA/M12



### GBSA/M16



| Order No. | Type     | Rated voltage/current | Thread |          | *Standard colors (only color ring) |
|-----------|----------|-----------------------|--------|----------|------------------------------------|
| 20.2040-* | GBSA/M8  | 1000 V, CAT IV / 1 A  | M8     | Au Ni CE | 21                                 |
| 20.2000-* | GBSA/M12 | 1000 V, CAT IV / 1 A  | M12    | Au Ni CE | 21                                 |
| 20.2010-* | GBSA/M16 | 1000 V, CAT IV / 1 A  | M16    | Au Ni CE | 21                                 |



Optional colors 20 22 23 24 25 26 27 28 29

Further information, page 6



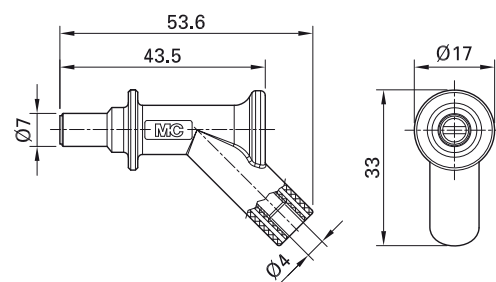
User information **i502**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

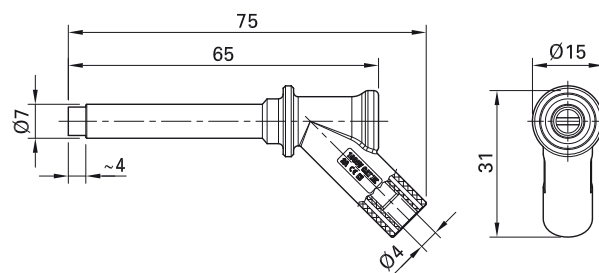
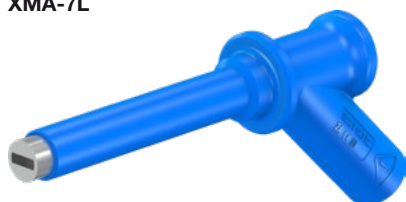
## Magnetic adapter XMA-...

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

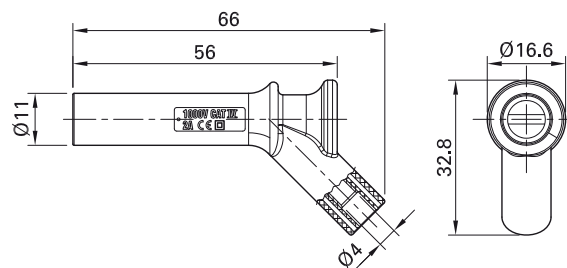
### XMA-7



### XMA-7L



### XMA-11



| Order No. | Type   | Rated voltage/current                        | Diameter of magnet |       | *Standard colors |
|-----------|--------|--|--------------------|-------|------------------|
| 66.9516-* | XMA-7  | 1000 V, CAT III / 2 A<br>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         |



### User information i500

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## 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 |       | *Standard colors (only color ring) |
|-----------|------|-----------------------|-------|------------------------------------|
| 20.2020-* | MSA  | 1000 V, CAT IV / 1 A  | Au CE | 21                                 |



### User information i501

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 20 22 23 24 25 26 27 28 29

Further information, page 6

## 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 |       | *Standard colors (only color ring) |
|-----------|----------|-----------------------|-------|------------------------------------|
| 20.2030-* | GKSA/M12 | 1000 V, CAT IV / 1 A  | Au CE | 21                                 |



### User information i502

[www.staubli.com/electrical](http://www.staubli.com/electrical)



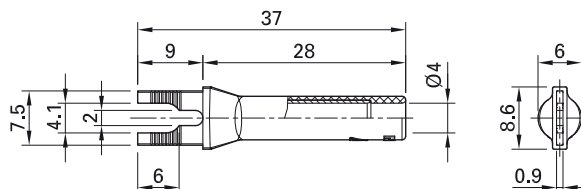
Optional colors 22 23 24 25 26 27 28 29

Further information, page 6

## Cable lug adapter B4-I/KS

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 90°.



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



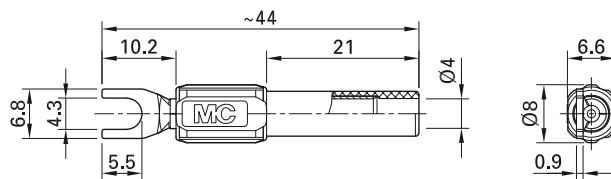
### User information i011


[www.staubli.com/electrical](http://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. Ø 4 mm rigid

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



| Order No. | Type  | Rated voltage/current |  | *Standard colors |
|-----------|-------|-----------------------|--|------------------|
| 66.9690-* | XKS-4 | 1000 V, CAT II / 20 A | Sn  <sup>1)</sup> | 21 22 23         |

<sup>1)</sup> UL-Listing up to 10 A!



### User information i011

[www.staubli.com/electrical](http://www.staubli.com/electrical)



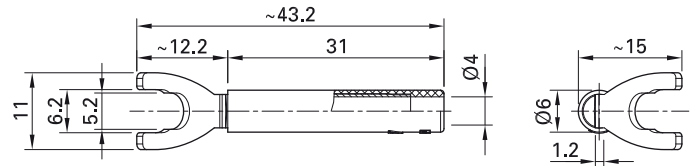
Optional colors 24 25 26 27 29

Further information, page 6

### 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 |    | *Standard colors |
|-----------|---------|-----------------------|----|------------------|
| 23.0440-* | B4-I/KA | 1000 V, CAT II / 20 A | Au | 21 22 23 24      |



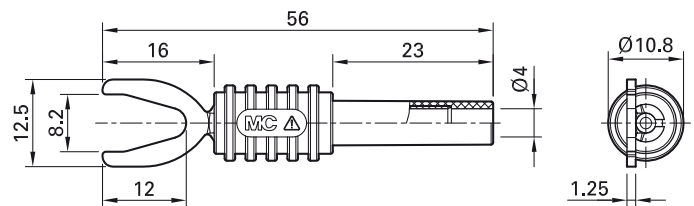
#### User information i011

[www.staubli.com/electrical](http://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 |    | *Standard colors |
|-----------|-------|-----------------------|----|------------------|
| 66.9126-* | XKS-A | 1000 V, CAT II / 20 A | Ni | 21 22            |



#### User information i011

[www.staubli.com/electrical](http://www.staubli.com/electrical)



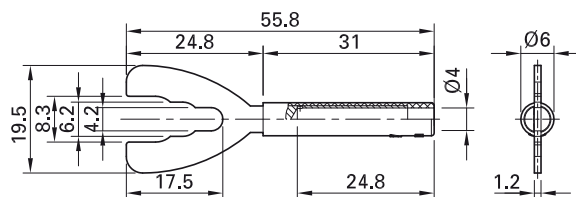
Optional colors 23 24 25 26 27 29

Further information, page 6

## 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 |    | *Standard colors |
|-----------|--------|-----------------------|----|------------------|
| 23.5065-* | B4-I/K | 1000 V, CAT II / 32 A | Au | 21 22            |



### User information i010

[www.staubli.com/electrical](http://www.staubli.com/electrical)



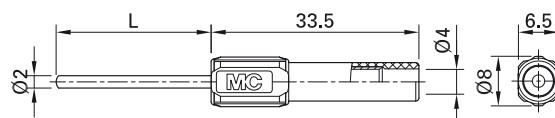
Optional colors 23 24

Further information, page 6

## 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 lengths L.



| Order No. | Type      | Rated voltage/current | Length (L) |    | *Standard colors |
|-----------|-----------|-----------------------|------------|----|------------------|
| 66.9076-* | ZPS-20/25 | 600 V, CAT II / 19 A  | 25 mm      | Ni | 21               |
| 66.9082-* | ZPS-20/40 | 600 V, CAT II / 19 A  | 40 mm      | Ni | 21               |



### User information i004

[www.staubli.com/electrical](http://www.staubli.com/electrical)



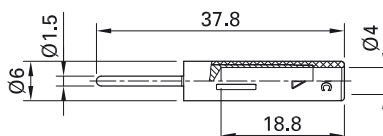
Optional colors 22 23 24 25 26 27

Further information, page 6

## 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 |    | *Standard colors |
|-----------|-----------|-----------------------|----|------------------|
| 23.0240-* | B4-I/S1,5 | 1000 V, CAT II / 20 A | Ni | 21 22 23 24      |



### User information i011

[www.staubli.com/electrical](http://www.staubli.com/electrical)



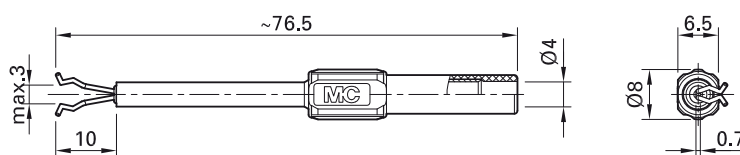
Optional colors 25

Further information, page 6

## 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 |    | *Standard colors |
|-----------|--------|-----------------------|----|------------------|
| 66.9044-* | ZPK-45 | 600 V, CAT II / 1 A   | Ni | 21               |



### User information i018

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 22 23 24 25 26

Further information, page 6

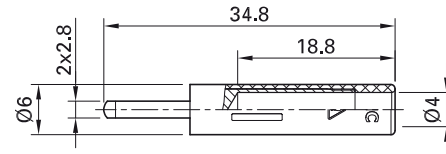


## Brass pin B4-I/S2,8x2

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 |    | *Standard colors |
|-----------|-------------|-----------------------|----|------------------|
| 20.0010-* | B4-I/S2,8x2 | 1000 V, CAT II / 20 A | Ni | 21               |



### User information i011

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 22 23 24

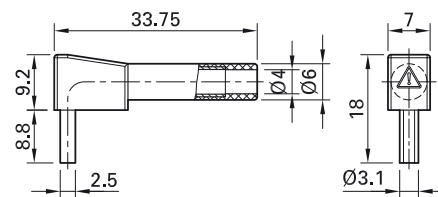
Further information, page 6

## 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 |    | *Standard colors |
|-----------|-------------|-----------------------|----|------------------|
| 49.7093-* | SLB4-I/90-S | 1000 V, CAT II / 32 A | Ni | 21               |



Optional colors 22 23

Further information, page 6



### User information i010

[www.staubli.com/electrical](http://www.staubli.com/electrical)

## Fuse adapter PF/S4-...

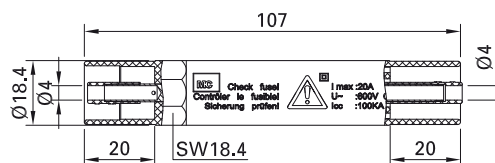
For protection of electrical equipment in high energy low voltage systems. The adapter can be equipped with an efficient low voltage fuse which reliably isolates the circuit from the power grid in the event of excessively high-current load. Transparent fuse holder sleeve to accept a high-rating fuse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

**The fuse is not supplied.**

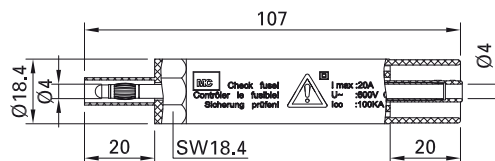
**PF/S4-10x38-S:** Two Ø 4 mm rigid sockets as terminal connection, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve.

**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               |    | *Standard colors |
|-----------|------------------|-------------------------------------|----|------------------|
| 50.0295-* | PF/S4-10x38-S    | 600 V, CAT III / 16 A <sup>1)</sup> | CE | 21               |
| 50.0296-* | PF/S4-BS-10x38-S | 600 V, CAT III / 16 A <sup>1)</sup> | CE | 21               |

<sup>1)</sup> Depends on the fuse used.



Optional colors **22**

Further information, page 6



**High breaking capacity fuse: page 173**



**User information i069**

[www.staubli.com/electrical](http://www.staubli.com/electrical)



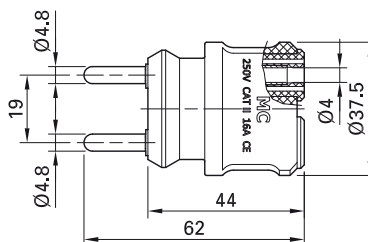
**Assembly instructions MA114**

[www.staubli.com/electrical](http://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.

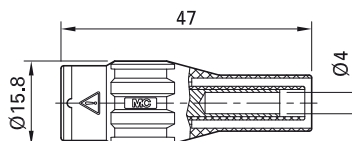


| Order No.  | Type        | Rated voltage/current |    | Standard colors |
|------------|-------------|-----------------------|----|-----------------|
| 24.0145-28 | A-NETZ/SLK4 | 250 V, CAT II / 16 A  | CE | 28              |

## 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           |          | *Standard colors |
|-----------|------|---------------------------------|----------|------------------|
| 67.9799-* | XM-B | 600 V, CAT II<br>300 V, CAT III | Au Ni CE | 21 22            |



User information **i013**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

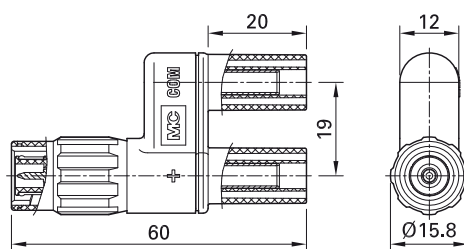
## Adapter X.../4

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

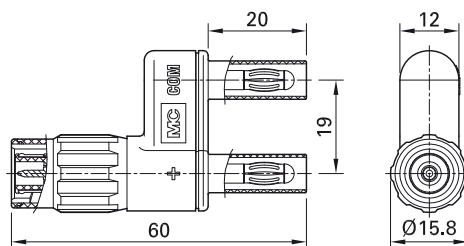
connector and rigid Ø 4 mm sockets or Ø 4 mm MULTILAM plugs with rigid insulating sleeve. The contact pins and sockets of

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

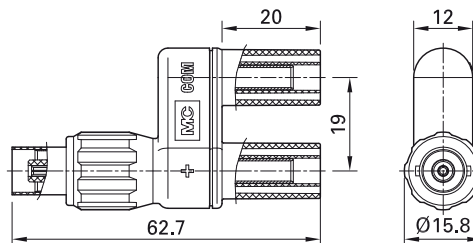
**XM-BB/4**



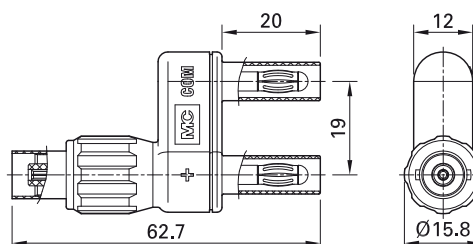
**XM-SS/4**



**XF-BB/4**



**XF-SS/4**

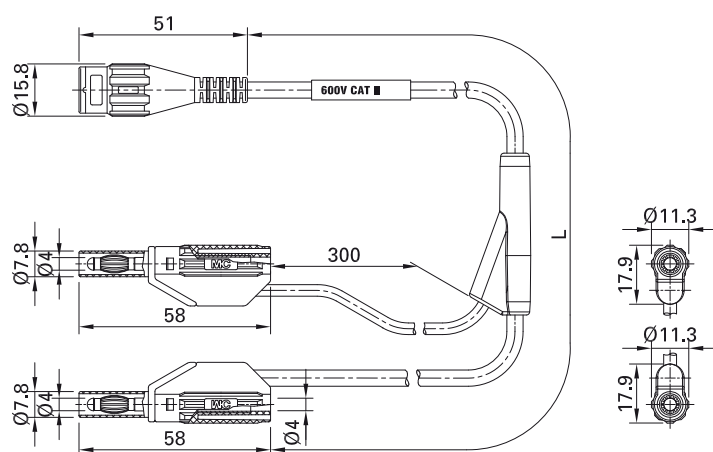


| Order No.  | Type    | Rated voltage                    | BNC connectors       | Ø 4 mm connectors |             | Standard colors |
|------------|---------|----------------------------------|----------------------|-------------------|-------------|-----------------|
| 67.9536-21 | XM-BB/4 | 1000 V, CAT II<br>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<br>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<br>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<br>600 V, CAT III | BNC female connector | Ø 4 mm plugs      | Au Ni CE UL | 21              |

## 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.

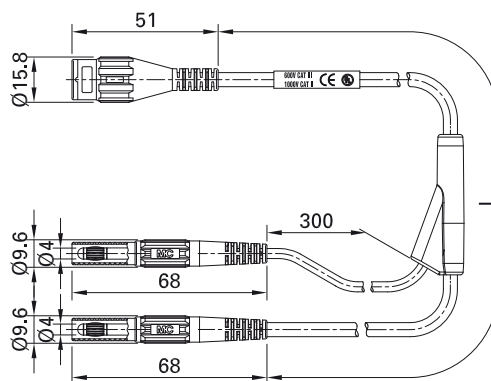


| Order No. | Type            | Rated voltage                   | Lead                |             | Lead lengths L [cm] |
|-----------|-----------------|---------------------------------|---------------------|-------------|---------------------|
| 67.9800-□ | XLAM-446/SC     | 600 V, CAT II<br>300 V, CAT III | PVC RG58            | Au Ni CE UL | 100 160             |
| 67.9868-□ | XLAM-446/SC/SIL | 600 V, CAT II<br>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<br>600 V, CAT III | PVC RG58            | Au Ni CE UL | 100 160             |
| 67.9867-□ | XLAM-414/SC/SIL | 1000 V, CAT II<br>600 V, CAT III | SIL SILI-SC 0,5/1,0 | Au Ni CE UL | 100 160             |

# 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.

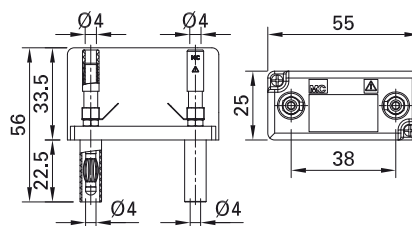
- Ø 4 mm plug connection system
- Protection degree IP2X
- Simple assembly

## 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 |    | Standard colors |
|------------|------------|-----------------------|----|-----------------|
| 50.0031-33 | SKP4-2P/38 | 600 V, CAT II / 5 A   | Ni | 33              |



Assembly instructions MA551

[www.staubli.com/electrical](http://www.staubli.com/electrical)

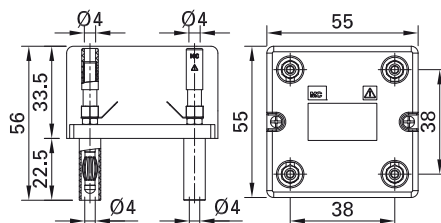
### Component holder SKP4-4P/38

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](http://www.staubli.com/electrical)

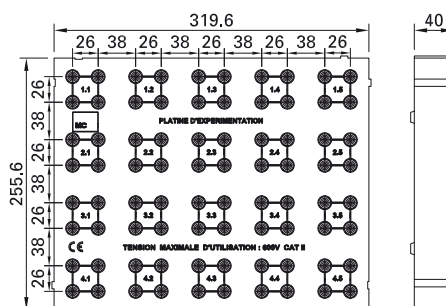
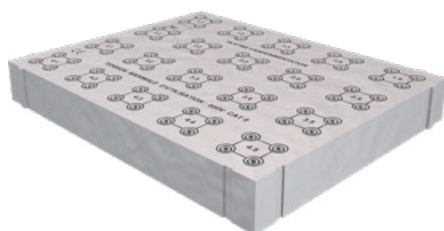
| Order No.  | Type       | Rated voltage/current |    | Standard colors |
|------------|------------|-----------------------|----|-----------------|
| 50.0032-33 | SKP4-4P/38 | 600 V, CAT II / 5 A   | Ni | 33              |

### Safety experimental circuit board SET4

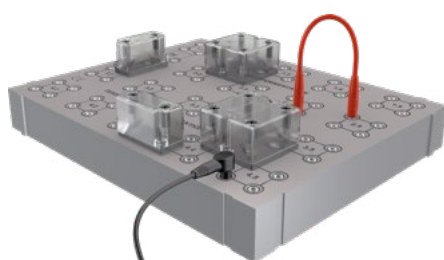
With 80 Ø 4 mm sockets (20 contacts, each with 4 sockets) for mounting the component holders SKP4-..P/38 or for plugging-in test leads with spring-loaded Ø 4 mm plugs with

rigid insulating sleeve. Several boards can be mounted together.

**Touch protection IP2X.**



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



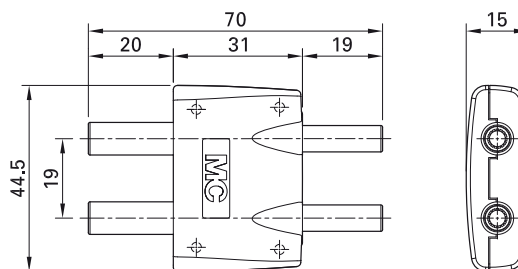


## Component holder XKH-4/19/...

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

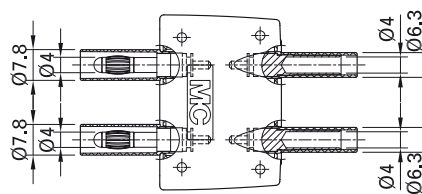
instructional use. The components in the adapter casing are provided with soldered connections, and the casing is screwed together. Available in various versions with

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         |    | Standard colors |
|------------|------------|-------------------------------|----|-----------------|
| 66.9045-33 | XKH-4/19/A | 600 V, CAT II / <sup>1)</sup> | Ni | 33              |

<sup>1)</sup> Dependent on the component inserted.

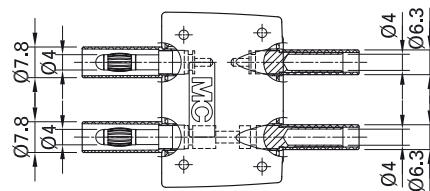


Assembly instructions MA524

[www.staubli.com/electrical](http://www.staubli.com/electrical)

### Component holder XKH-4/19/B

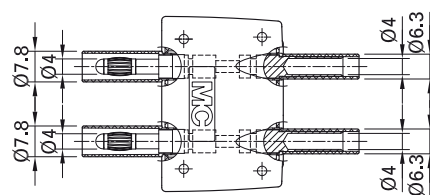
Version with one spring-loaded Ø 4 mm plug with rigid insulating sleeve, one rigid socket, and one combined plug-socket.



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

### Component holder XKH-4/19/C

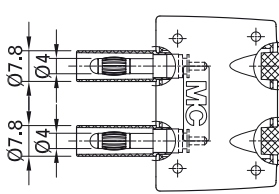
Version with two plug sockets, each consisting of a spring-loaded Ø 4 mm plug with rigid insulating sleeve and a Ø 4 mm rigid socket at rear.



| Order No.  | Type       | Rated voltage/current         |    | Standard colors |
|------------|------------|-------------------------------|----|-----------------|
| 66.9047-33 | XKH-4/19/C | 600 V, CAT II / <sup>1)</sup> | 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         |    | Standard colors |
|------------|------------|-------------------------------|----|-----------------|
| 66.9049-33 | XKH-4/19/D | 600 V, CAT II / <sup>1)</sup> | Ni | 33              |



Assembly instructions MA524

[www.staubli.com/electrical](http://www.staubli.com/electrical)

<sup>1)</sup> Dependent on the component inserted.

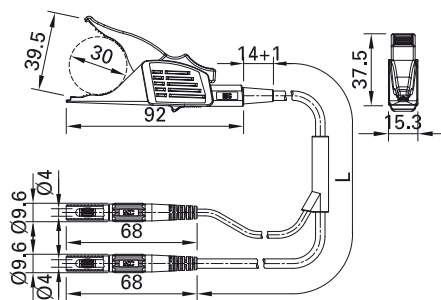
# Kelvin test leads

## 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 rig-

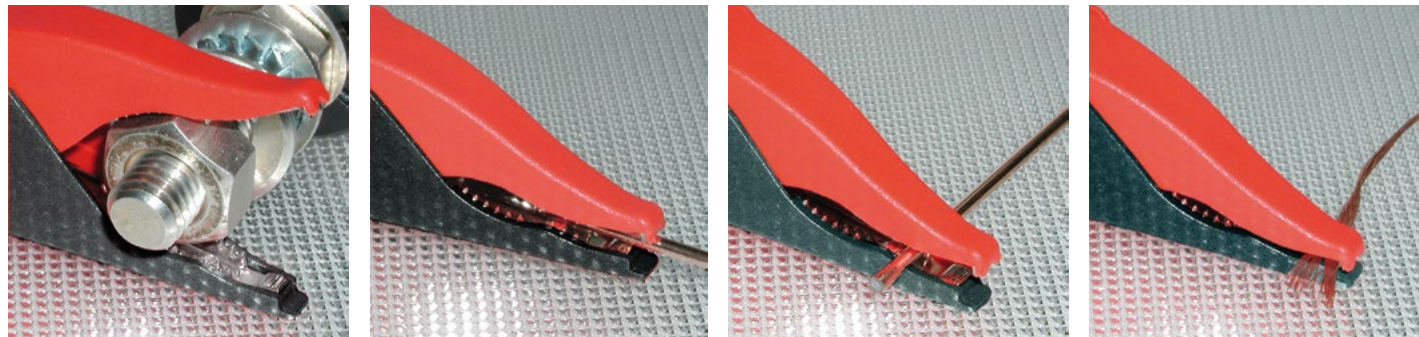
id insulating sleeve. Highly flexible, silicone-insulated coaxial cable.



User information **i058**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

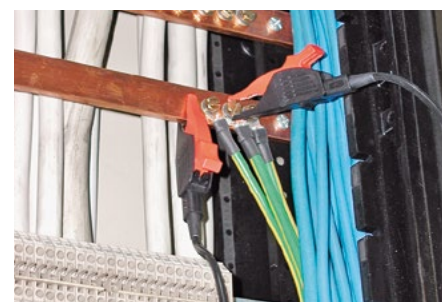
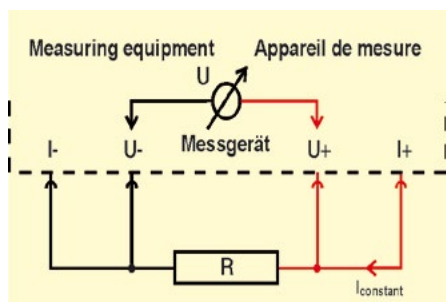
| Order No.   | Type       | Rated voltage         | Lead                        |       | Lead length L [cm] |
|-------------|------------|-----------------------|-----------------------------|-------|--------------------|
| 66.9795-250 | XDK-KELVIN | 1000 V, CAT II / 20 A | SIL 2 x 1,0 mm <sup>2</sup>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



## Principle of the four-wire or Kelvin measurement

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

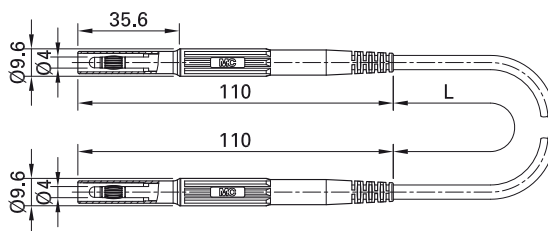
as due to the high inner resistance of the voltmeter, the voltage drop on the circuits can be disregarded (see sketch). According to Ohm's law  $R = U / I_{\text{constant}}$ .



# 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] | *Standard colors |
|--------------|----------|--|-------------------------|-------|------------------|------------------|
| 66.9425-150* | XHM-5000 | 1000 V, CAT IV 5 kV <sup>1)</sup> / 10 A | TPE 0,5 mm <sup>2</sup> | Ni CE | 150              | 21 22            |



### User information i079

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 23

Optional lengths on demand

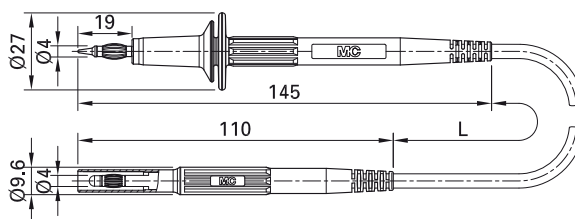
Further information, page 6

## 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] | *Standard colors |
|--------------|----------|---------------------------|-------------------------|-------|------------------|------------------|
| 66.9426-150* | XHL-5000 | 5 kV <sup>1)</sup> / 10 A | TPE 0,5 mm <sup>2</sup> | Ni CE | 150              | 21               |



### User information i109

[www.staubli.com/electrical](http://www.staubli.com/electrical)



Optional colors 22 23

Optional lengths on demand

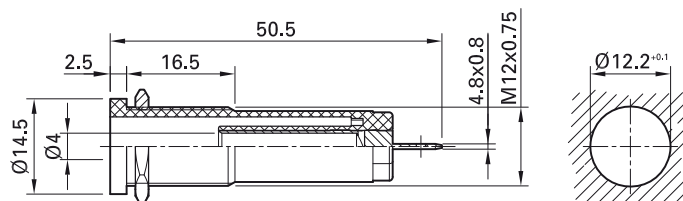
Further information, page 6

<sup>1)</sup> Output voltage of test instruments, e.g. insulation testers

## 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                       |    | *Standard colors |
|-----------|----------|---|----|------------------|
| 66.9427-* | XHB-5000 | 1000 V, CAT IV<br>5 kV <sup>1)</sup> / 10 A | Au | 21 22            |

<sup>1)</sup> Output voltage of test instruments, e.g. insulation testers



Optional colors [23](#)

Further information, page 6



**User information i079**

[www.staubli.com/electrical](http://www.staubli.com/electrical)

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**

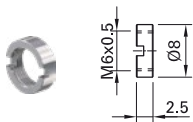


| Order No. | Type          | Wrench size | Thread   |    |
|-----------|---------------|-------------|----------|----|
| 22.6610   | MU0,5D/M4N    | SW7         | M4       | Ni |
| 22.6509   | MU0,8D/M4     | SW7         | M4       | Au |
| 22.6539   | MU0,8D/M4N    | SW7         | M4       | Ni |
| 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 |

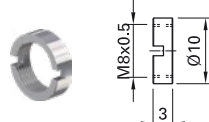
## Round nuts MUR...

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

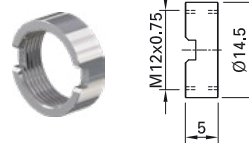
**MUR/M6x0,5**



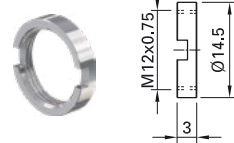
**MUR/M8x0,5**



**MUR/M12x0,75**



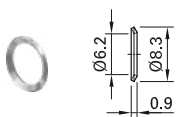
**MUR-S/M12x0,75**



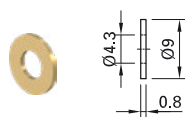
| Order No. | Type           | Suitable tube spanner | Thread   |    |
|-----------|----------------|-----------------------|----------|----|
| 23.5100   | MUR/M6x0,5     | SS2                   | M6x0.5   | Ni |
| 23.5110   | MUR/M8x0,5     | SS4                   | M8x0.5   | Ni |
| 23.5120   | MUR/M12x0,75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

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

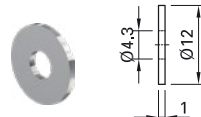
**SP2**



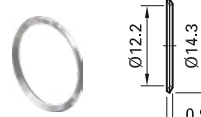
**U/M4**



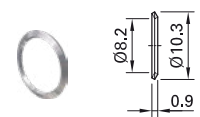
**U/4,3x12**



**SSP4**



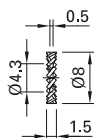
**SP4**



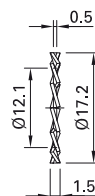
| Order No. | Type     |    |
|-----------|----------|----|
| 23.5105   | SP2      | Ni |
| 22.6511   | U/M4     | Au |
| 22.6516   | U/4,3x12 | Sn |
| 23.5108   | SSP4     | Ni |
| 23.5107   | SP4      | Ni |

## Spring washers FS/M...

FS/M4



FS/M12

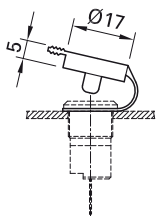


| Order No. | Type   |    |
|-----------|--------|----|
| 22.6533   | FS/M4  |    |
| 23.5117   | FS/M12 | Ni |

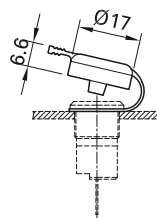
## Protective cap SCHUDE-SLB SD-XUB

To cover up unplugged, unused sockets.

SCHUDE-SLB



SD-XUB



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



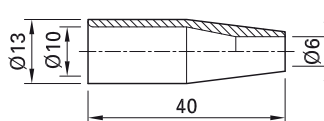
Assembly instructions MAH560 (SD-XUB)

[www.staubli.com/electrical](http://www.staubli.com/electrical)



## Safety hood SCHUKA-SLB

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

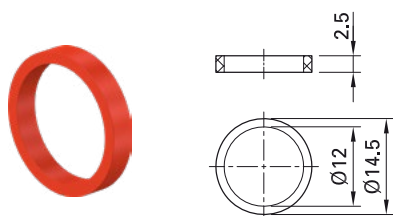


| Order No.  | Type       | Suitable for socket types     | Standard colors |
|------------|------------|-------------------------------|-----------------|
| 23.5142-33 | SCHUKA-SLB | SEB4..., SLB4..., XE...-1R(R) | 33              |

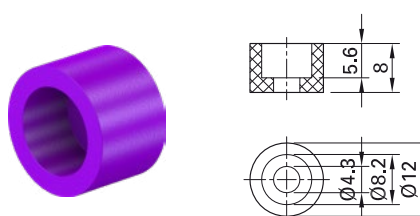
## Spacer sleeves XAS-1R ID-SAB4-G

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

### XAS-1R



### ID-SAB4-G



| Order No. | Type      | Suitable for socket types     | *Standard 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<br>26 27 28 29 |



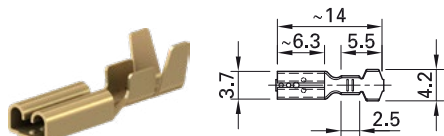
Optional colors 25

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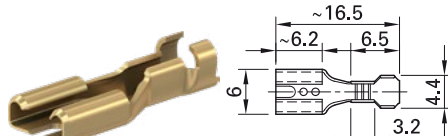
## Flat connecting receptacles FSH...

Gold-plated, for sockets with flat connecting tabs.

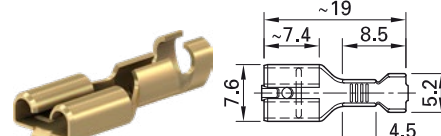
**FSH2,8x0,8**



**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 <sup>2</sup> ... 1.0 mm <sup>2</sup> | Au |
| 23.5201   | FSH4,8x0,8 | 4,8 mm × 0,8 mm                  | 0.5 mm <sup>2</sup> ... 1.0 mm <sup>2</sup> | Au |
| 23.5203   | FSH6,3x0,8 | 6,3 mm × 0,8 mm                  | 1.0 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> | 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**



**SS425**



**SS6**



| 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.

MB1



MB2



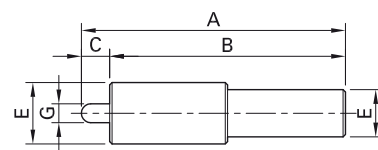
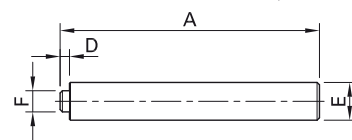
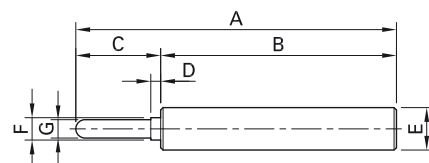
MB4



MB2-S



MB4-S



| 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 mm<sup>2</sup>.



| Order No. | Type    | Wire cross-section range                                | Overall length | Weight |
|-----------|---------|---|----------------|--------|
| 25.0015   | STRIPAX | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> (AWG 20 - 11) | 200 mm         | 145 g  |

### Accessories

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

## Crimping pliers PZK3

For end-sleeves from 0.5 mm<sup>2</sup> up to 16 mm<sup>2</sup>. Suitable specially for LS425-SL or LS425-SL/N.



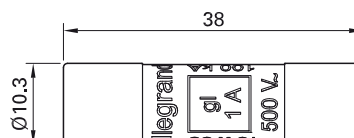
| Order No. | Type | Overall length | Weight |
|-----------|------|----------------|--------|
| 25.0018   | PZK3 | 228 mm         | 236 g  |

## HBC type fuses G..A-SV FLU-11 DMI...

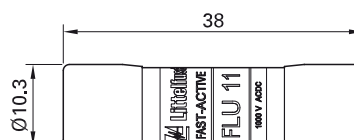
Can safely break extremely high short-circuit currents. The very low internal resistance permits the measurement of resistance and

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

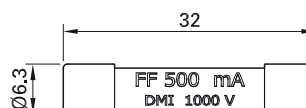
### G..A-SV



### FLU-11



### DMI-...A



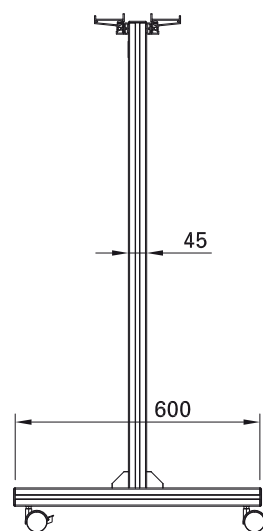
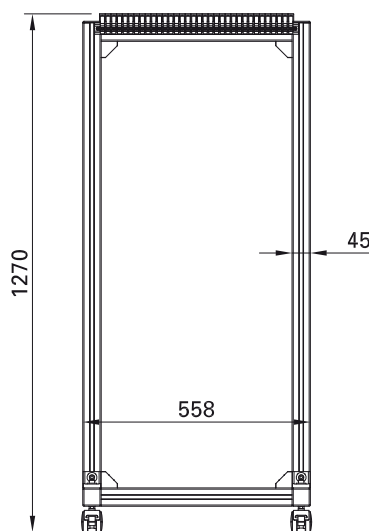
| Order No. | Type     | Fuse rating | Fuse dimensions | Breaking capacity   |  |
|-----------|----------|-------------|-----------------|---------------------|--|
| 51.0011   | G1A-SV   | 1 A         | 10 x 38 mm      | 100 kA (500 VAC)    |  |
| 51.0012   | G2A-SV   | 2 A         | 10 x 38 mm      | 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: 50 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 |

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