Multi-Contact

STÄUBLI

Accessories for measurements CAT IV

Test & Measureline | Test & Measurement



STÄUBLI ELECTRICAL CONNECTORS

Long-term solutions – Expert connections



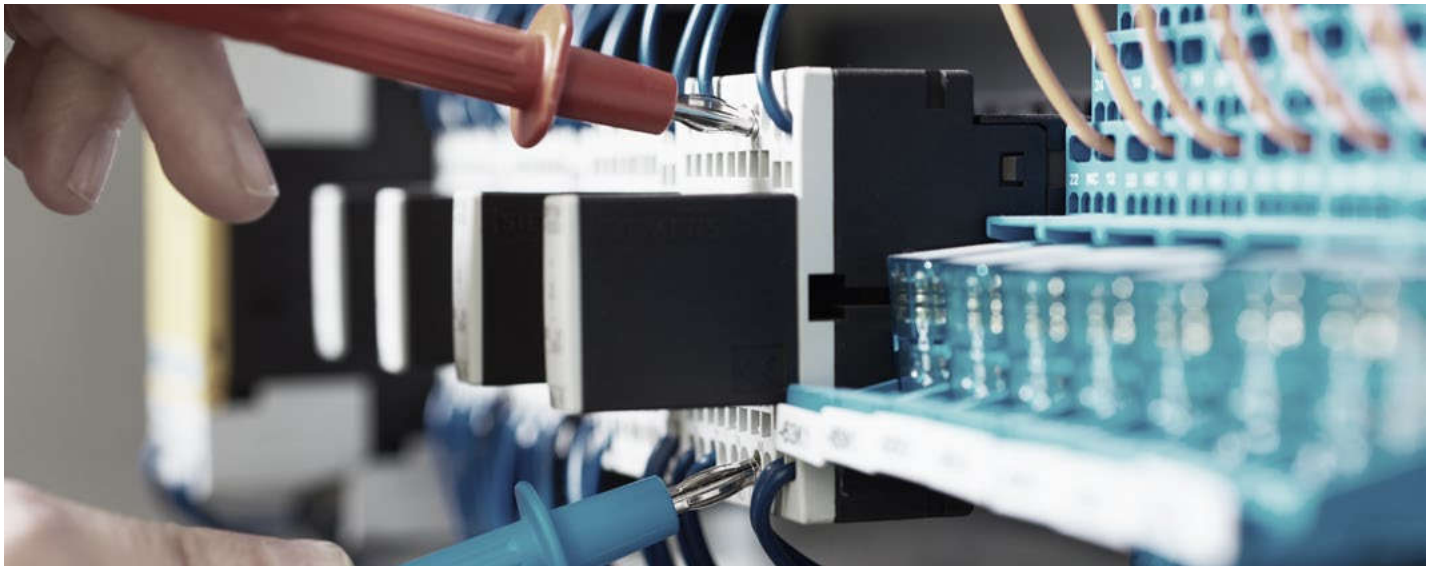
Stäubli Electrical Connectors is a leading international manufacturer of high-quality electrical connector systems. We are part of the Stäubli Group which offers mechatronics solutions for electrical connectors, liquid and gas couplings, robots and textile machinery.

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

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



Applications and advantages



This catalog presents our wide range of touch-protected testing accessories in accordance with IEC/EN 61010-031.
You can find suitable CATIV accessories for electricians and power company employees that perform measurements directly at the source of the low voltage installation (e.g. meters, main terminal, primary overcurrent protectors).

Contents

Page 6 **General information**
Our special-area catalogs
Safety at Work
Measurement Categories

Page 9 **Ø 4 mm Test Leads**

Page 11 **Ø 4 mm Test Probes Stainless Steel Tips**

Page 12 **Ø 4 mm Test Clips Test Clips with Steel Jaws**

Page 13 **Dolphin Clip**

Page 14 **Single-Collet Plier**

Page 15 **Flat Test Clip**

Page 16 **5 mm and 6 mm Plug Adapters**

Page 17 **Magnetic Adapters for Connection of Screw Heads**
Adapter for Hex. Screw Heads
Magnetic Contact Adapters
Screw-on Adapters

Page 21 **Ø 4 mm Panel-mount Sockets**

Page 23 **Special Test Accessories for Use with Insulation Testing Instruments up to 5 kV**

Page 25 **Accessories**
- Socket Accessories
- Tools – Tube Spanners
- High Breaking Capacity Fuses

Page 27 **Oscilloscope Probes**

Page 28 **Index**

UNLIMITED POSSIBILITIES FOR CONTACT SOLUTIONS

MULTILAM Technology







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

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

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

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

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







General information

Length and color code

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

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

Lead length

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

Standard items

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.

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

Surfaces

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

The programme we offer now has the biggest amount of safety and is also suitable for use in the most hazardous environment, namely CAT IV.

We will offer:

- Testleads with PVC and Silicone insulation
- Testleads with integrated fuses
- Testleads with attached probes, switchable for CAT II to CAT IV
- Test probes switchable and rigid
- Test clips for contacting busbars
- Test clips to contact electrical motors
- Special adapters, magnetic and for hexagon threads
- Sockets to accept the testleads

Safety at Work

Dangers in case of inadequate fuse protection

Measurements on circuits with a high level of energy, eg. on the input side of an electrical installation, require an extremely high standard of safety. The employed test instruments and the accessories should therefore incorporate effective measures against high short-circuit currents.

The use of high breaking capacity fuses

In high-energy low-voltage systems it is advisable to use high breaking capacity (HBC) fuses in order to avoid unforeseeable consequences in the event of short circuits.

High breaking capacity fuses are able to disconnect even extremely high short-circuit currents of up to many thousands of amperes.

High breaking capacity fuses can be integrated into test probes or connecting clips, fitted in the measuring circuit by means of fuse adapters, or, as in the case of our new fused test leads, incorporated into the test lead. Besides ease of handling, fused leads have the advantage of allowing standard connecting clips, probes and adapters to be used for protected measurements.

Safety Regulations

The danger of measurement is well known, there have been a lot of accidents in the past. For that reason we have been working on international standards and regulations to create safe products.

The most important Safety Standard for electrotechnical Test Accessories is the IEC 61010-031

This standard describes the requirements for protection of the user against electric shock, fire and explosions. Stäubli has been working in this group since the beginning and also has developed its products to meet the requirements of this standard.

In the meantime it has been adopted by all European countries as well as by many relevant countries in America and Asia.

Solutions for preventing hazards and meeting the safety regulations by Stäubli

Stäubli is very concerned about the safety of its customers, we develop all our products according to the international standard. We have all our safety products evaluated and tested by an independent test house for safety (we have used UL).









Depending on the energy level in the circuit undergoing measurement, the consequences of a short circuit can be catastrophic.

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.

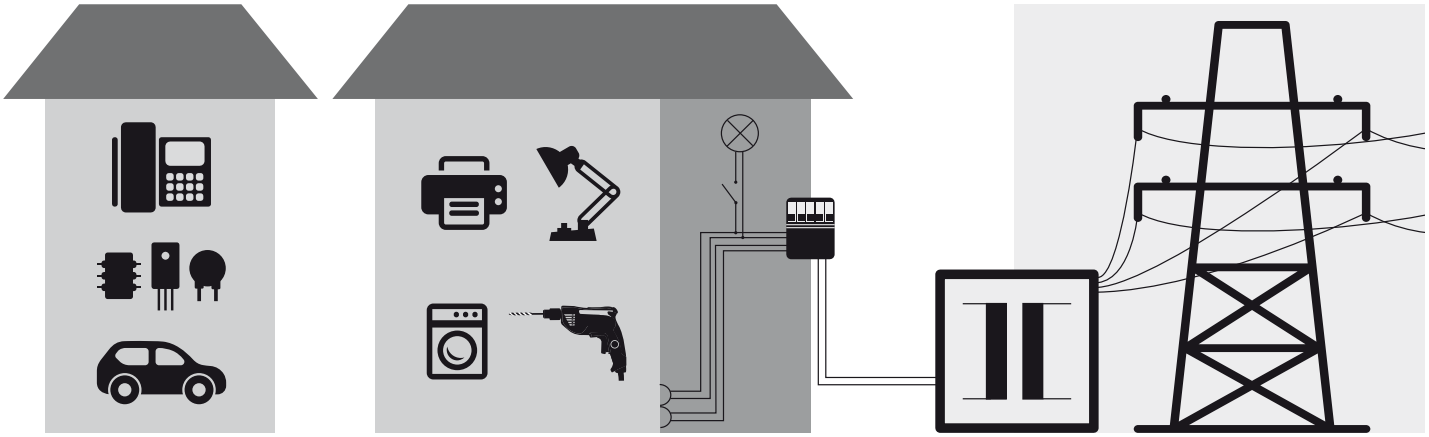
Formerly (until 2002), the measurement categories now defined in standard IEC/EN 61010-031 were designated as overvoltage categories. This term originated from the fact that the classification was based primarily upon the overvoltages (surges) that were likely to occur in the power grid.

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).

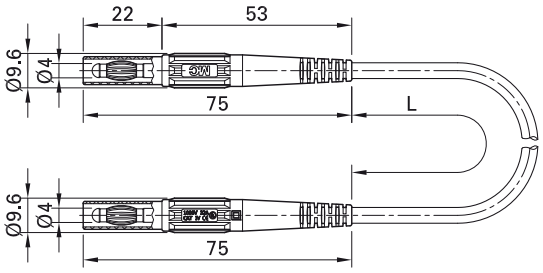
Ø 4 mm Test Leads

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 mm²	Ni CE cULus	100 150 200	21 22 23 27 28
66.9393-□*	XMT-419	1000 V, CAT IV / 32 A	TPE 2.5 mm²	Ni CE	100	21
66.9392-□*	XMS-419	1000 V, CAT IV / 32 A	SIL 2.5 mm²	Ni CE cULus	100 150 200	21 22 23

Optional colors 22 23 24 25 27 28

Optional lengths on demand

Further information, page 6

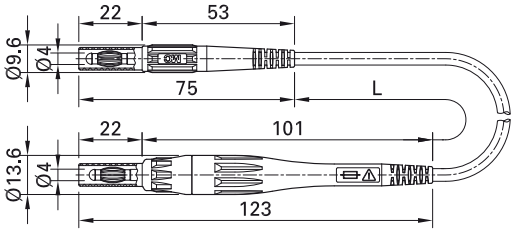
Fused test lead XSM...-419

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[1)]	PVC 1.0 mm²	Ni CE cULus	100 150 200	21 22 23
66.9395-□*	XSMS-419	1000 V, CAT IV / max. 8 A[1)]	SIL 1.0 mm²	Ni CE cULus	100 200	21 22 23

[1)] 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 26

User information i091
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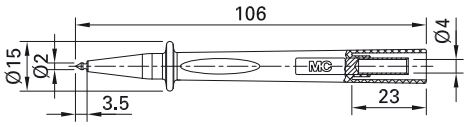
Ø 4 mm Test Probes Stainless Steel Tips

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		21 22 23

Optional colors 27 28

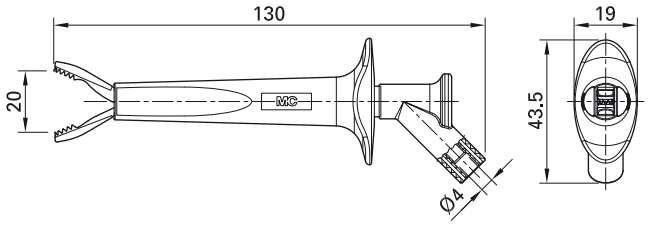
Further information, page 6

Ø 4 mm Test Clips Test Clips with Steel Jaws

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 cULus	21 22 23

Optional colors 27 28

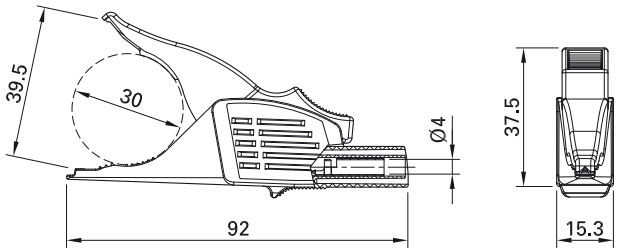
Further information, page 6

Dolphin Clip

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 600 V, CAT IV / 19 A	Ni CE cULus	20 21 22 23 24 25 26 27 29

Optional colors 28

Further information, page 6







The varied grip options for our dolphin clips.

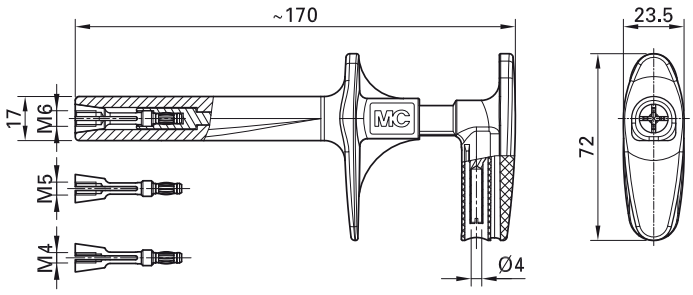
Single-Collet Plier

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

Z4/M4 Z5/M5 Z6/M6 ESZ-WZ



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 i112

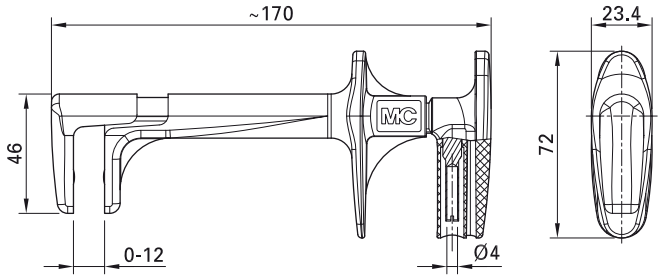
www.staubli.com/electrical

Flat Test Clip

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

5 mm and 6 mm Plug Adapters

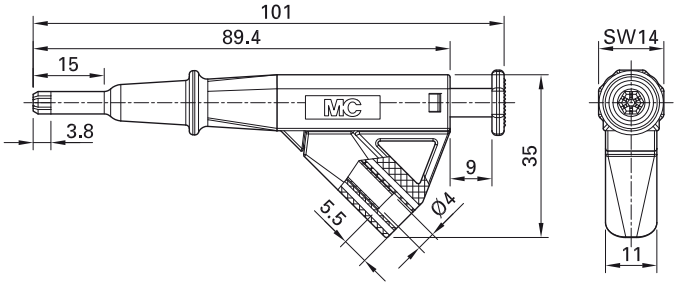
Screw-clamping adapter VARIOGRIP-...

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

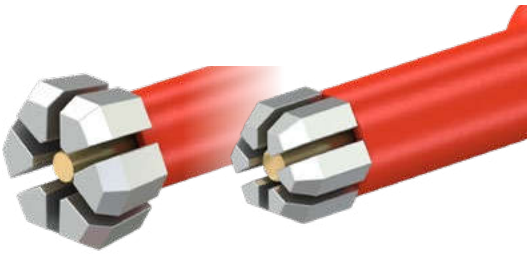


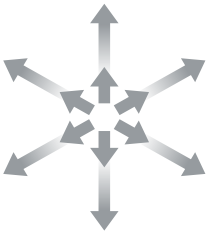


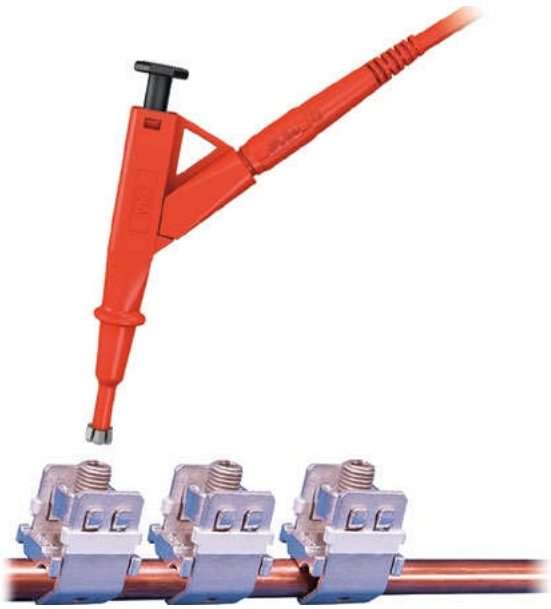
Order No.	Type	Rated voltage/current	Internal hexagon		*Standard colors
66.9055-*	VARIOGRIP-5	600 V, CAT IV / 24 A	5 mm	Ni CE	21 22 23
66.9056-*	VARIOGRIP-6	600 V, CAT IV / 24 A	6 mm	Ni CE	21 22

Optional colors 23

Further information, page 6







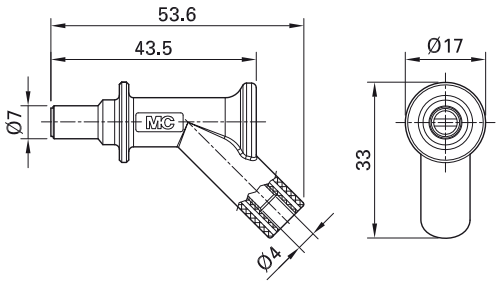
Magnetic Adapters for Connection of Screw Heads

Magnetic adapter XMA-...

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

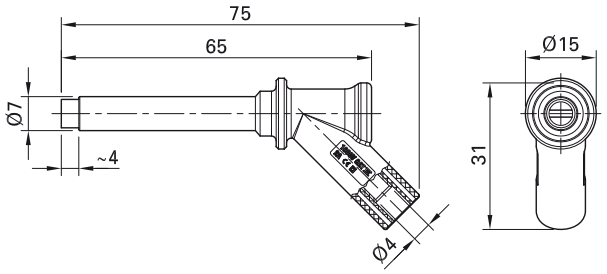
XMA-7





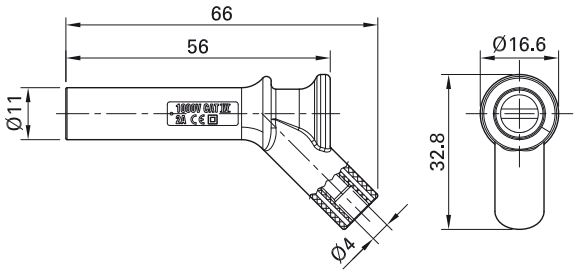
XMA-7L





XMA-11





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

User information i500

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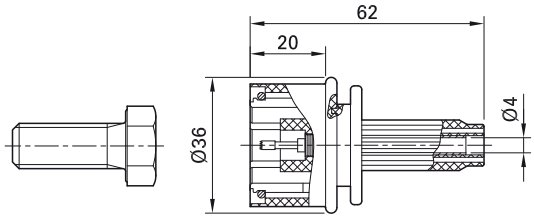
Adapter for Hex. Screw Heads

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

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Optional colors 22 23 24 25 26 27 28 29

Further information, page 6

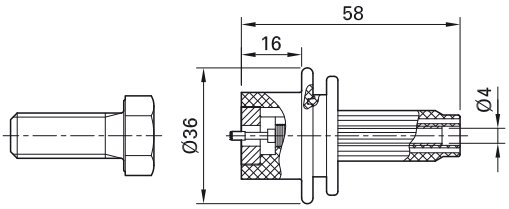
Magnetic Contact Adapters

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, accepting 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

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Optional colors 20 22 23 24 25 26 27 28 29

Further information, page 6

Screw-on Adapters

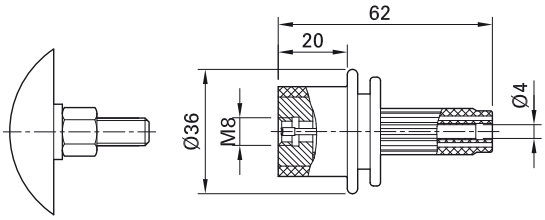
Screw-on adapters GBSA/M...

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



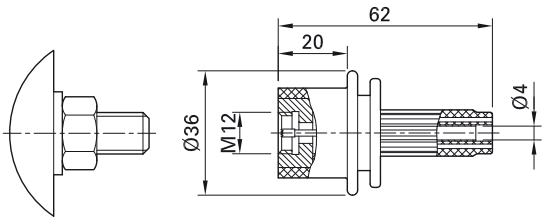




GBSA/M12



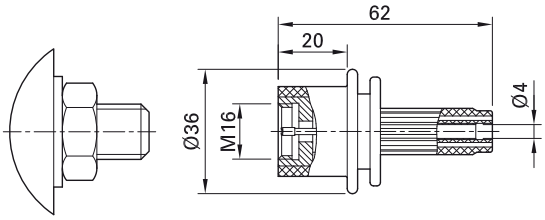




GBSA/M16







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

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Ø 4 mm Panel-mount Sockets

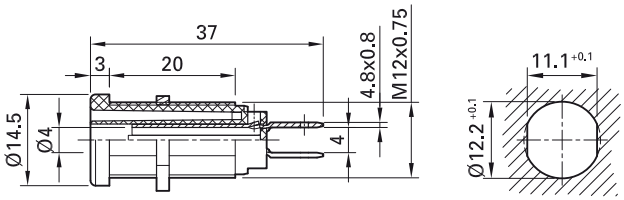
Panel-mount socket XEB-1...

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.

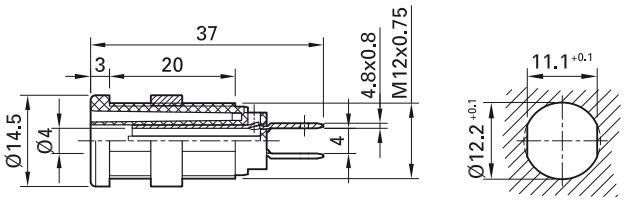
XEB-1R





XEB-1RR





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

Supplied assembly material

Page 25	GEW.12-MUTTER	Hexagon nut for	XEB-1R
Page 25	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 25

Tube spanners SS2, SS425, page 26

MA

Assembly instructions MAH506, MAH509

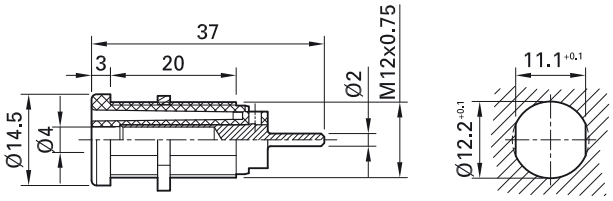
www.staubli.com/electrical

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

Insulated, rigid, Ø 4 mm, accepting spring-loaded Ø 4 mm plugs with rigid insulating sleeve. Machined brass. The sockets are screwed into pre-drilled panels of plastic, metal, etc. **Various metal parts / connections.**

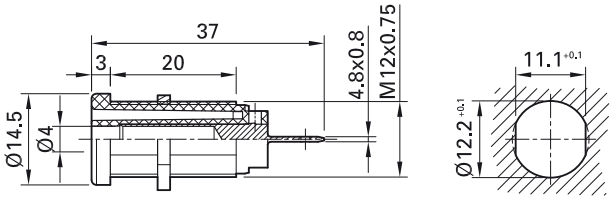
XES-1R





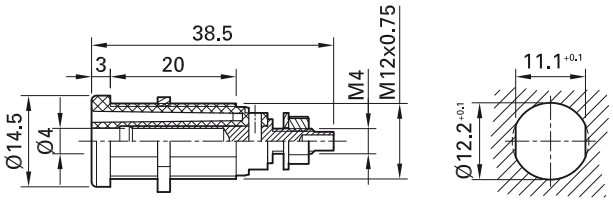
XEF-1R





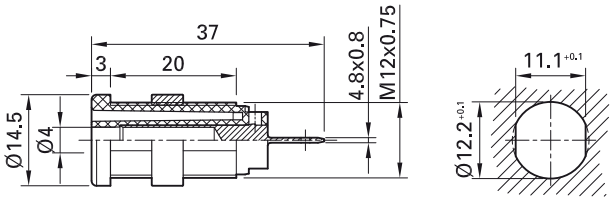
XEG-1R





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	Ni c UL us	21 22
66.9665-*	XEF-1R	1000 V, CAT IV / 24 A	Flat connencting tab 4.8 mm × 0.8 mm	Ni c UL us	21 22 23
66.9136-*	XEG-1R	1000 V, CAT IV / 20 A	Threaded bolt M4	Ni c UL us	21 22
66.9854-*	XEF-1RR	1000 V, CAT IV / 24 A	Flat connencting tab 4.8 mm × 0.8 mm	Ni c UL us	21 22 23

Supplied assembly material

Page 25	GEW.12-MUTTER	Hexagon nut for XES-1R, XEF-1R, XEG-1R
Page 25	MUR/M12x0,75	Round nut for XEF-1RR

MA

Assembly instructions MAH506, MAH509

www.staubli.com/electrical

Flat connecting receptacles, page 25

Tube spanners SS2, SS425, page 26

Optional colors 20 23 24 25 26 29

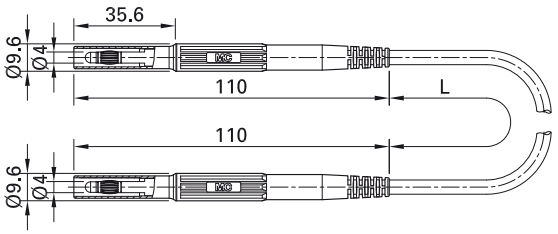
Further information, page 6

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 [1] / 10 A	TPE 0,5 mm²	Ni CE	150	21 22

User information i079

www.staubli.com/electrical

Optional colors 23

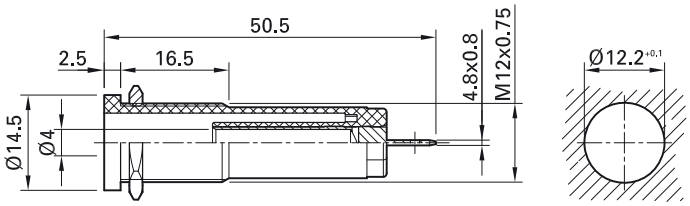
Optional lengths on demand

Further information, page 6

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 compatible 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 5 kV[1] / 10 A	Au	21 22

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

Optional colors 23

Further information, page 6

User information i079

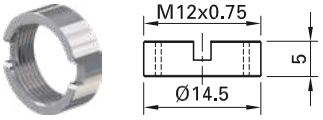
www.staubli.com/electrical

Socket Accessories

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

Hexagon and round nuts for fixing our panel mounting sockets.

MUR / M12x0,75



GEW.12-MUTTER

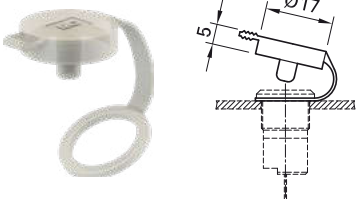


Order No.	Type	Wrench size	Thread	
23.5120	MUR/M12x0,75	SS425	M12x0,75	Ni
66.9679	GEW.12-MUTTER	SW14	Gew. 12	Ni

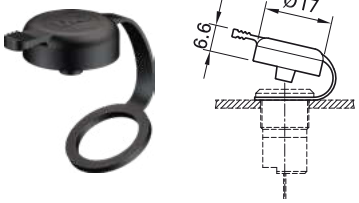
SCHUDE-SLB SD-XUB

Protective cap to cover-up unplugged, unused sockets.

SCHUDE-SLB



SD-XUB



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

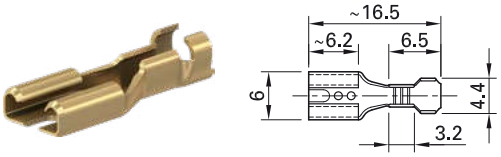
MA

Assembly instructions MAH560 (SD-XUB)

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FSH...

Gold-plated flat connecting receptacles for sockets with flat connecting tabs.



Order No.	Type	Suitable for flat connecting tab	Connectable conductor cross-section	
23.5201	FSH4,8x0,8	4,8 mm x 0,8 mm	0,5 mm² ... 1,0 mm²	Au

Tools – 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



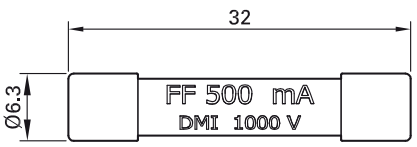
Order No.	Type	To fit round nuts / socket
25.0022	SS2	XEB-..., SLB4-..., SAB4-...
25.0020	SS425	MUR/M12x0,75, MUR-S/M12x0,75

High Breaking Capacity Fuses

DMI-...A

HRC type fuses can safely break extremely high short-circuit currents. The very low internal resistance permits the measurement of resistance and current.





Order No.	Type	Fuse rating	Fuse dimensions	Breaking capacity	
69.0012	DMI-0,5A	0,5 A	6,3 x 32 mm	30 kA (1000 VAC/DC)	c UL us
69.0013	DMI-1,6A	1,6 A	6,3 x 32 mm	30 kA (1000 VAC/DC)	c UL us

Oscilloscope Probes

Isoprobe III

The oscilloscope probe generation Isoprobe III opens up new fields of application in CAT III and CAT IV environments according to IEC/EN 61010-031 – subject to the use of appropriate oscilloscopes.

Example: the analysis of house and building installations with mains analysis/mains monitoring devices.

We supply the new probes either separately or in a set with accessories optimally suited for the appropriate test probe and its special applications.

Please order main catalog "Test accessories HF".



Index

Type	Page
AB200	12
BT400	11
DMI-0,5A	26
DMI-1,6A	26
ESZ-WZ	14
FSH4,8x0,8	25
GBSA/M8	20
GBSA/M12	20
GBSA/M16	20
GEW.12-MUTTER	25
GKSA/M12	18
GRIP-ESZ	14
GRIP-ESZ4	14
GRIP-ESZ5	14
GRIP-ESZ6	14
GRIP-FMA	15
MSA	19
MUR/M12x0,75	25
SCHUDE-SLB	25
SD-XUB	25
SS2	26
SS425	26

Type	Page
VARIOGRIP-5	16
VARIOGRIP-6	16
XDK-1033/I-2	13
XEB-1R	21
XEB-1RR	21
XEF-1R	22
XEF-1RR	22
XEG-1R	22
XES-1R	22
XHB-5000	24
XHM-5000	23
XMA-7	17
XMA-7L	17
XMA-11	17
XMF-419	9
XMS-419	9
XMT-419	9
XSMF-419	10
XSMS-419	10
Z4	14
Z5	14
Z6	14

Notes

Notes

Notes

TM TM Main-CatIV 11014120-en B 11.2018



■ Stäubli Units ○ Agents

Global presence of the Stäubli Group

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