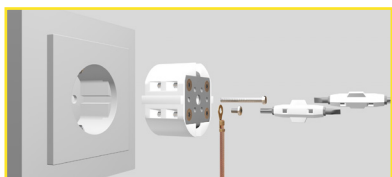
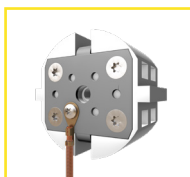




- grounding plug for earthed sockets (Schuko)
- grounding system for use with versatile different grounding cables
- connection of up to four grounding cables



Order-No.: 711076
Short-Desc.: ESR-SA

Grounding system ESR

Grounding plug ESR-SA

Technical data

colour:	white
diameter:	37 mm
height without cover:	21 mm
height with cover:	29 mm
overhang / projection above socket:	8 mm

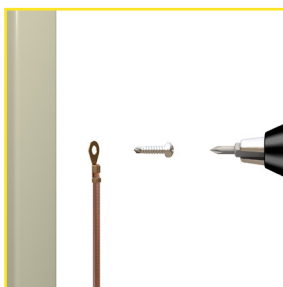
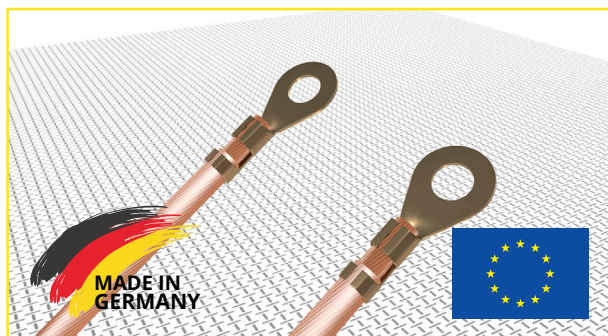
Scope of delivery

grounding plug Schuko adapter ESR-SA
2 x countersunk screw Torx T20 - M4 x 8 mm
4 x panhead screw Torx T20 - M4 x 6 mm
4 x toothed lock washer M4
1 x slotted cheese head screw - M3 x 37 mm
1x slotted cheese head screw - M2.5 x 37 mm

Scope of application

desk furniture, cable ducts, small metal trim strips, shielding textiles, shielding fleeces, notebooks, routers, etc.

to be used in combination with ESR cables ST, USB, DK, K



Order-No.: 711068
Short-Desc.: ESR-ST-Cable

Grounding system ESR

Grounding cable ESR-ST-Cable

Technical data

colour:	transparent
length:	350 cm ± 2 %
cable:	H07V-K 2,5 mm ²
ring eyelets:	M4 / 2,5 mm ² M5 / 2,5 mm ²

Scope of delivery

grounding cable ESR-ST cable
1 x grommet - rim: 1 mm outer diameter: 8 mm; inner diameter: 3 mm
1 x cable binder - length: 100 mm; width: 2.5 mm
2 x screw - pan head screw cross self-tapping - 3.5 x 13 mm
1 x cable clamp open diameter: 3.2 mm; Hole: 4.0 mm
1 x grounding marker - diameter: 15 mm

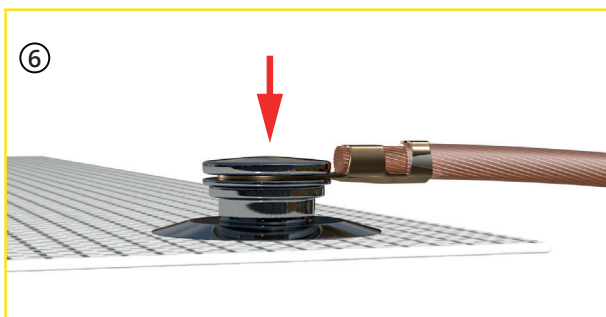
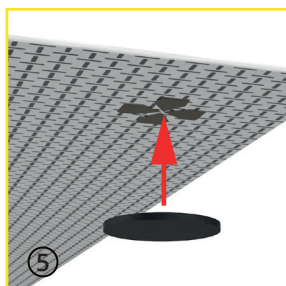
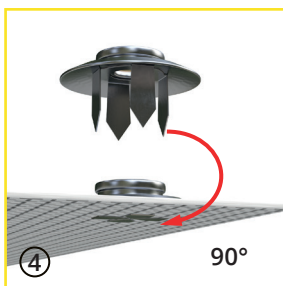
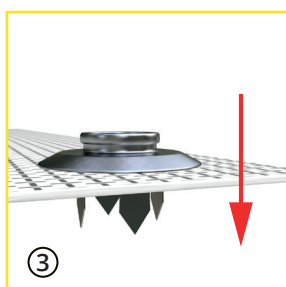
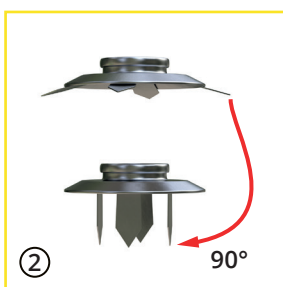
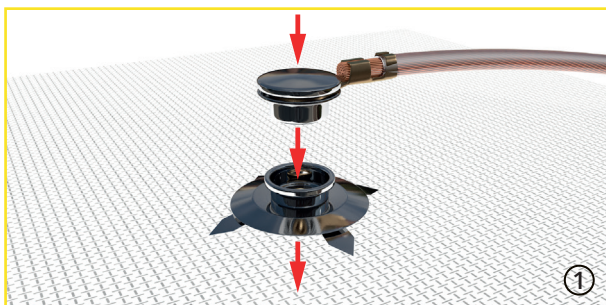
Grounding push-button

General assembly Grounding push button

Products

For stationary use:

Grounding sets: ESB, ESB-K, ESR-DK



Installation

1. Specify the position of the ground connection.
See Fig. 1. When using two sheets, it is recommended to set the grounding point in the overlap area. If more than two strips of fleece or fabric are used, the grounding strap AEB 3.0 is required for the connection. In this case, the push-button base is butted through the grounding strap and shielding material.
2. Bend the tips of the push button base 90° and carefully push them through the shielding material at the intended point. See fig. 2 + 3.
3. Then bend the tips a further 90° to permanently attach the push button base to the shielding material. See fig. 4.
4. Stick the supplied protective pad onto the bent-over tips of the push-button bottom part. Connect the top part of the push button to the bottom part attached to the material. See fig. 5.
5. Now the lower part of the push button can be connected to the upper part of the push button of the respective grounding set. See fig. 6.

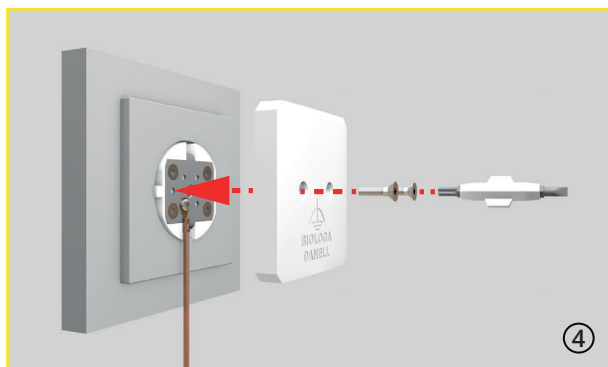
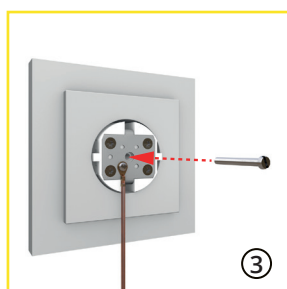
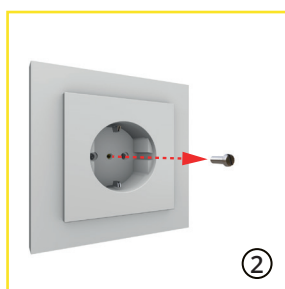
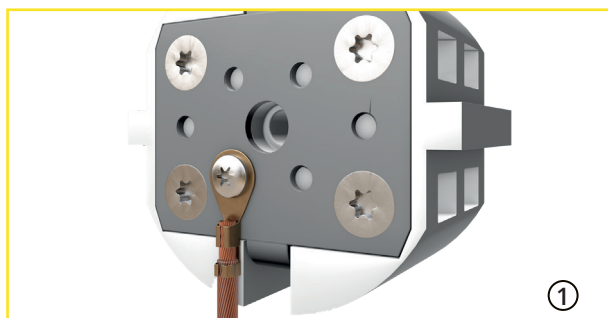
ESR-SA - Grounding adapter - Art.No.: 711076

General installation grounding plug ESR-SA

Products

For stationary use:

Grounding sets: ESR-ST, ESR-USB



Installation

1. Using the screw aid, connect one of the supplied M4 x 6 mm Torx screws to the M4 ring eye of the connection cable to the adapter (Torx T20). See fig. 1.
2. Turn off the circuit of the socket by means of the fuse.
3. Remove the centre screw of the socket. See fig. 2.
4. Connect the plug to the socket by first placing the adapter. Depending on your needs, you can use the supplied longer M2.5 or M3 x 35 mm centre screw to fix the plug. See fig. 3.
5. Secure the cover with the two M4 x 8 mm Torx screws supplied. See fig. 4.
6. Now the other side of the respective grounding set can be mounted and connected.

The socket is no longer available for the use of electrical consumers.
For temporary use, the schuko grounding adapter can also be used in Schuko socket strips or other Schuko distributors.

The 5 security rules

Before starting the work:

- Unlock
- Secure against being switched on again
- Check that no voltage is present
- Ground and short-circuit
- Cover or isolate neighbouring live parts.

ESB - Push button → Wire end sleeve - Art.no.: 710069

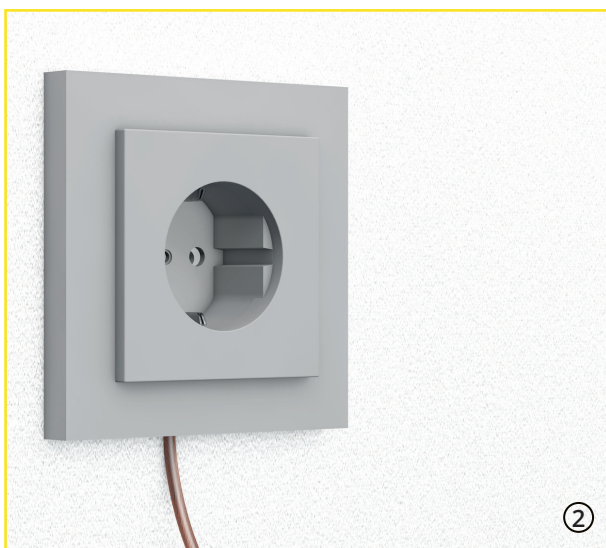
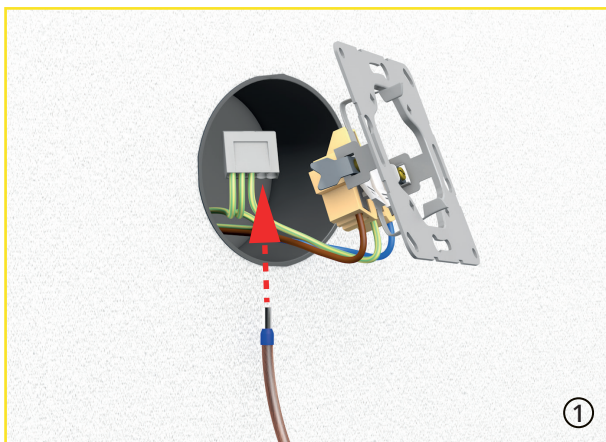
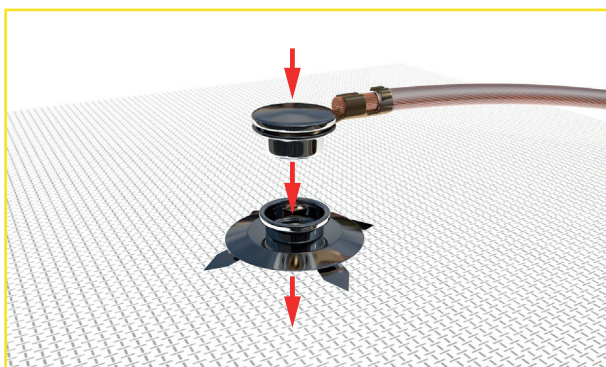
Grounding set B - ESB

Scope of delivery

- 1 x Grounding cable transparent 350 cm
incl. mounted push-button top
- 1 x Push-button base
to pierce the shielding material
- 1 x Protection pad

For stationary use:

- Rubens Light (loose placing)
- Adamantan 003 (loose placing)
- Picasso
- Dali



Installation

1. Push-button installation.
See page 1.
2. The open end is now firmly connected to the potential bonding by a qualified electrician.
3. To do this, the socket insert is removed and the open end is inserted into the appliance box and connected to the PE terminal. **See fig. 1.**
4. The socket can now still be used for electrical consumers. **See fig. 2.**

The 5 security rules

Before starting the work:

- Unlock
- Secure against being switched on again
- Check that no voltage is present
- Ground and short-circuit
- Cover or isolate neighbouring live parts.

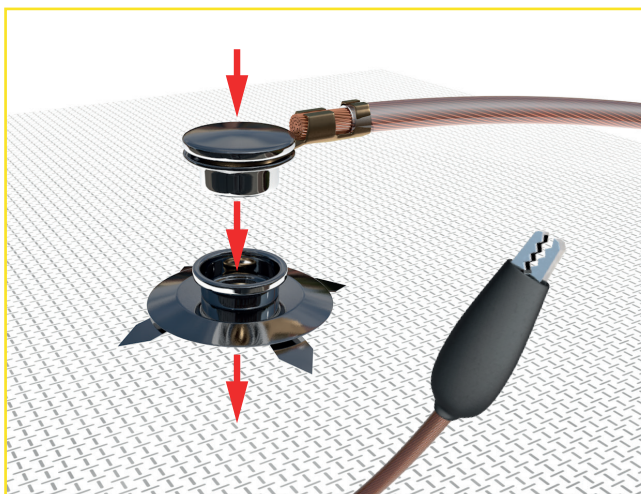
ESB-K - Push button ➔ Pick-up clamp - Art.Nr.: 710554

Grounding set ESB-K

Scope of delivery

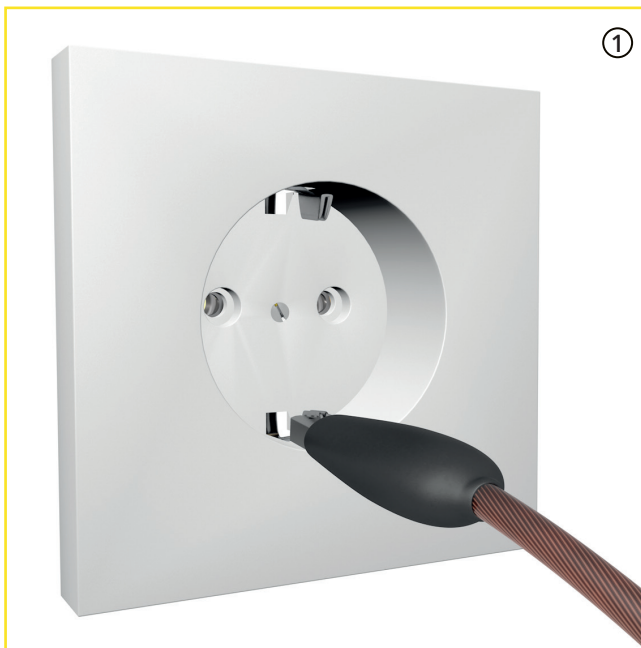
- 1 x Grounding cable transparent 350 cm
incl. mounted push-button upper part and
Pick-up clamp
- 1 x Push-button bottom part
for piercing the shielding material
- 1 x Protection pad

For temporary application:
Rubens Light (Loose placing)
Adamantan 003 (Loose placing)
Picasso
Dali



Installation

1. Push-button mounting.
See page 1.
2. The opposite tapping terminal can now be temporarily connected to the potential bonding as with PE terminals of sockets or suitable earthed pipes. See Fig. 1.



Attention:
For temporary use only.

The 5 security rules

Before starting the work:

- Unlock
- Secure against being switched on again
- Check that no voltage is present
- Ground and short-circuit
- Cover or isolate neighbouring live parts.

ESB-AK - Pick-up terminal ➔ Pick-up terminal - Art.Nr.: 711165

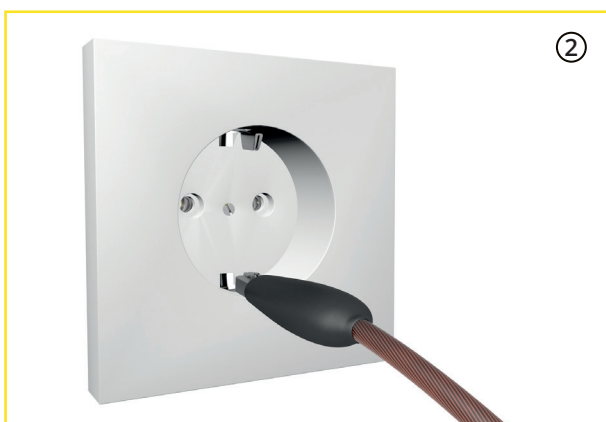
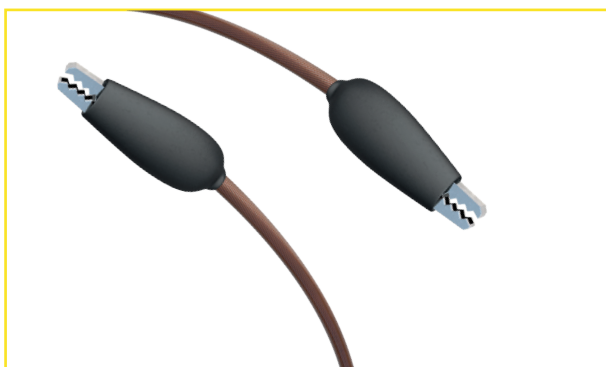
Grounding set ESB-AK

Scope of delivery

1 x Grounding cable transparent 350 cm
incl. mounted tapping clamps

For temporary use:

Rubens Light (Loose placing)
Adamantan 003 (Loose placing)
Picasso
Dali



Installation

1. Determine the position of the ground connection. When using two sheets of shielding material, it is recommended to set the grounding point in the overlap area. If more than two strips of fleece or fabric are used, the grounding strap AEB 3.0 is required for the electrically conductive connection. In this case, the grounding set is connected directly to the grounding strap and the material with the help of the pick-up clamp.

2. Attach a pick-up clamp with the shielding material. **See fig. 1.**

3. The opposite tapping terminal can now be temporarily connected to the potential bonding as with PE terminals of sockets or suitable earthed pipes. **See fig. 2.**

Attention:
For temporary use only.

The 5 security rules

Before starting the work:

- Unlock
- Secure against being switched on again
- Check that no voltage is present
- Ground and short-circuit
- Cover or isolate neighbouring live parts.

ESR-ST - Ring eyelet ➔ Schuko adapter - Art.Nr.: 711068+711076

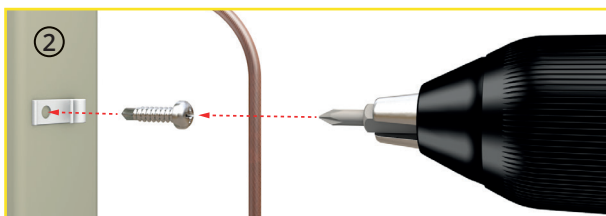
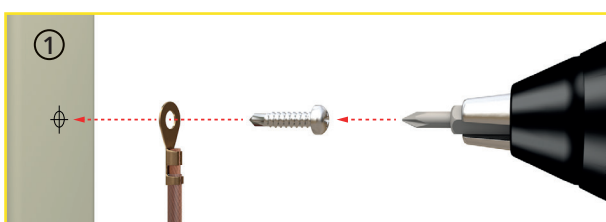
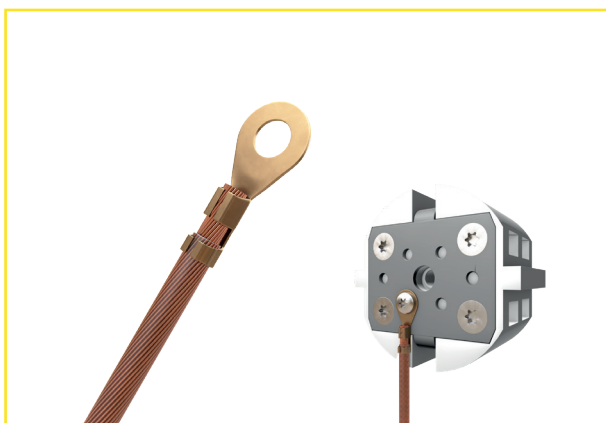
Comfort desk grounding set - ESR-ST

Scope of delivery

- 1 x Grounding cable transparent 350 cm
incl. mounted ring eyelets (M4 + M5)
- 1 x Schuko adapter (grounding plug)
for installation on socket outlet
- 1 x Adapter
- 1 x Cover (lid)
- 1 x Screwing tool for installation
- 4 x Screw Eyelet M4 x 5 mm
- 2 x Screw fixation plug
M2.5 + M3 x 35 mm
- 1 x Self-tapping screw
- 1 x Cable clamp
- 1 x Cable tie 100 mm

For stationary use:

Grounding of desk frames or other
electrically conductive parts.



Installation

1. Adapter mounting. **See page 2.**
2. To attach the ring eyelet to desk or bed frames and other electrically conductive parts, screw the self-tapping screw supplied through the ring eyelet at the previously determined grounding point using a cordless screwdriver. **See fig. 1.**
3. If the cable is to be fed through a wall, drill a hole with a diameter of 5 mm, cut off the existing ring eye and put the cable first through the grommet, then through the wall. Crimp the supplied ring eye 2.5 mm² M4 to the end of the cable.
4. Define the point of the cable clamp (approx. 5 - 10 cm from the ring eyelet) and also screw it in through the cable clamp with a cordless screwdriver. **See fig. 2.**

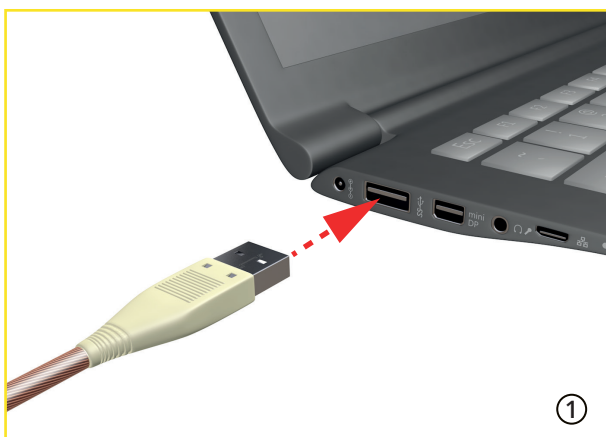
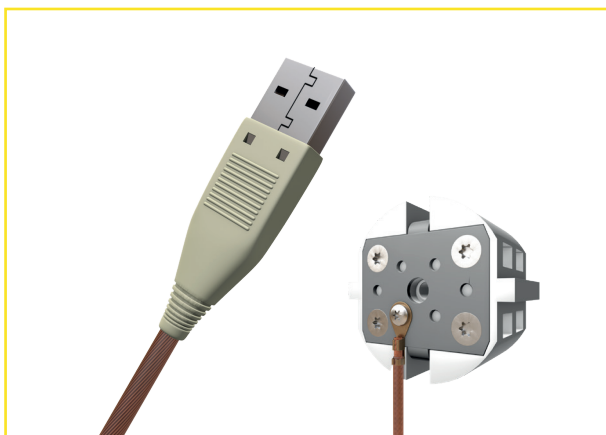
ESR-USB - USB-plug ➔ Schuko adapter - Art.Nr.: 711150

Grounding set Comfort USB - ESR-USB

Scope of delivery

- 1 x Grounding cable transparent 350 cm
incl. mounted ring eye (M4) and
USB TYPE A plug
- 1 x Schuko adapter (grounding plug)
for installation on socket outlet
- 1 x Adapter
- 1 x Cover (lid)
- 1 x Screwing tool for installation
- 2 x Screw fixation plug
M2.5 + M3 x 35 mm
- 4 x Screw Eyelet M4

For stationary and mobile use:
Grounding of notebooks, routers and other
USB-enabled devices.



Installation

1. Adapter mounting. See page 2.
2. Insert the USB A grounding plug into a suitable USB
socket in your notebook. See fig. 1.
3. Other devices equipped with USB A sockets, such as
routers, can also be grounded in this way.

Grounding plugs conduct only the earth
contact, not the mains voltage or data!
A prerequisite for the dissipation of
the alternating electric fields is that the
existing electrical installation and the
existing electrical installation and the
protective equipotential bonding (consult
a qualified electrician).

Experience shows that (depending on
the measuring method) the value of the
electrical alternating fields on notebooks
is reduced from 50-300 V/m to mostly 1-6
V/m.

If necessary (not prescribed), the
grounding plug can be mechanically fixed
with the enclosed screw.

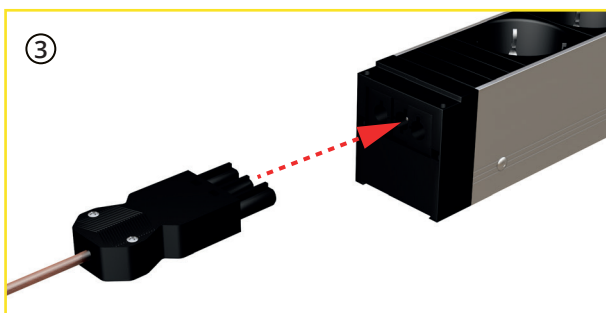
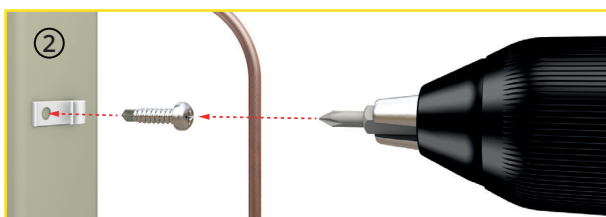
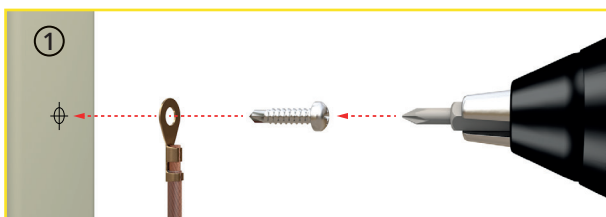
ESR-SYS - System connector ➔ Ring eyelet - Art.Nr.: 301000

Desk system grounding set - ESR-MSDS-ST

Scope of delivery

1 x Grounding cable transparent 350 cm
incl. mounted ring eyelets (M4 + M5)

For stationary use:
Grounding of desk frames or other
electrically conductive parts.



Installation

1. To attach the ring eyelet to desk or bed frames and other electrically conductive parts, screw the self-tapping screw supplied through the ring eyelet at the previously determined grounding point using a cordless screwdriver. **See fig. 1.**
2. If the cable is to be fed through a wall, drill a hole with a diameter of 5 mm, cut off the existing ring eye and put the cable first through the grommet, then through the wall. Crimp the supplied ring eye 2.5 mm² M4 to the end of the cable.
3. Define the point of the cable clamp (approx. 5 - 10 cm from the ring eyelet) and also screw it in through the cable clamp with a cordless screwdriver. **See fig. 2.**
4. Plug the system connector into a free system socket of your MSDS system. **See Fig. 3.**

Attention:
Always check the grounding of the
existing electrical installation first!
This can be done with a commercially
available conventional socket tester.

ESR-SYS - System connector ➔ USB - Art.Nr.: 301105

Grounding set System USB - ESR-MSDS-USB

Scope of delivery

1 x Grounding cable transparent 350 cm with system plug incl. mounted ring eye (M4) and USB TYPE A plug

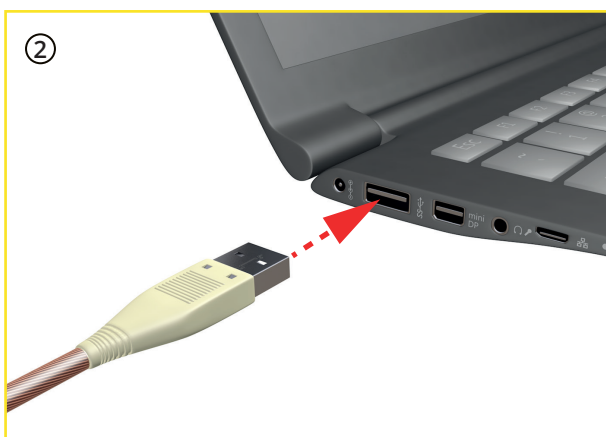
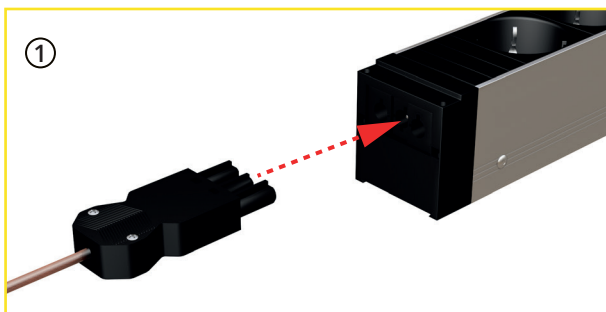
For stationary use:

Grounding of notebooks, routers and other USB-enabled devices.



Installation

1. Plug the system connector into a free system socket of your MSDS system.
See Fig. 1.
2. Insert the USB type A grounding plug into a suitable USB socket in your notebook.
See fig. 2.
3. Other devices fitted with USB type A sockets, such as routers, can also be grounded in this way.



Further reduction of EWF in the workplace area:

Use of shielded connection and extension cables, socket strips and task lamps.

You can find these in our online shop at:
www.biologadanell.com

As these are movable and pluggable connection and consumption devices, this measure can usually be carried out by a layperson. The use of these connection and consumption devices is also possible and sensible in other areas/rooms where people stay for a longer period of time.