

IEC Appliance Inlet C14 or C18 with Filter, ECO design, Front- or Rear Side Mounting

Standard- or Medical-Filter



Screw-on mounting  
PCB snap-in version



Snap-in mounting  
Quick connect terminals 6.3 x 0.8 mm  
Protection class II



Screw-on mounting  
with wires (stranded)



70° C



70° C



## Description

- Panel Mount:
- Screw-on version from front or rear side, snap-in version from front side, PCB Version from rear side
- 2 Functions:
- Appliance Inlet protection class I or II, Line filter in standard and medical version
- Solder, quick connect or wire (stranded)
- PCB Mounting
- Earth Terminal

## Approvals

- VDE Certificate Number: 40016382
- UL File Number: E72928
- CCC File Number: 2010010204438235

## Characteristics

- Compact high performance filter
- Optimal shielding due to completely closed filter case, unpotted
- Designed for standard and medical applications
- Suitable for assembly in metal plated plastic housings
- Suitable for use in equipment according to IEC/UL 60950
- Suitable for use in medical equipment according to IEC/UL 60601-1

## Other versions on request

- Snap-in for panel thickness >2mm to 3mm
- flexible wire with various lengths
- Class X1- and Y1-capacitors for enhanced withstand voltage
- Medical version M80
- Variant with notch for V-Lock mating Cordsets

## References

Alternative: version without line filter 6100-3

## Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Wire Harnessing](#), [Detailed request for product](#)

Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

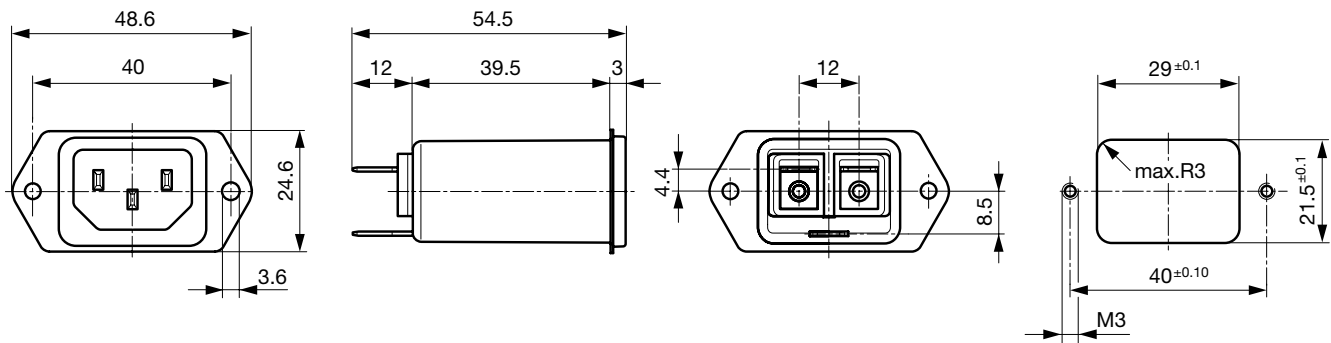
## Technical Data

|                           |                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------|
| Ratings IEC               | 1 - 10A @ Ta 40 °C / 250VAC; 50Hz                                                                              |
| Ratings UL/CSA            | 1 - 15A @ Ta 40 °C / 250VAC; 60Hz                                                                              |
| Leakage Current           | standard < 0.5 mA (250 V / 60Hz)<br>medical < 5 µA (250 V / 60 Hz)                                             |
| Dielectric Strength       | > 1.7 kVDC between L-N<br>> 2.7 kVDC between L/N-PE<br>Test voltage (2 sec)                                    |
| Allowable Operation Temp. | -25 °C to 85 °C                                                                                                |
| Climatic Category         | 25/085/21 acc. to IEC 60068-1                                                                                  |
| Degree of Protection      | from front side IP 40 acc. to IEC 60529                                                                        |
| Protection Class          | Suitable for appliances with protection class I or II acc. to IEC 61140                                        |
| Terminal                  | Quick connect terminals 6.3 x 0.8 mm<br>Solder terminals<br>Flexible wire AWG18 (15A AWG16), 150 mm            |
| Panel Thickness s         | Screw: max 8 mm<br>Mounting screw torque max 0.5 Nm<br>Snap-in: 0.8 mm to 2 mm<br>(all steps with one variant) |
| Material: Housing         | Thermoplast / steel tin-plated, black / metallic, UL 94V-0                                                     |

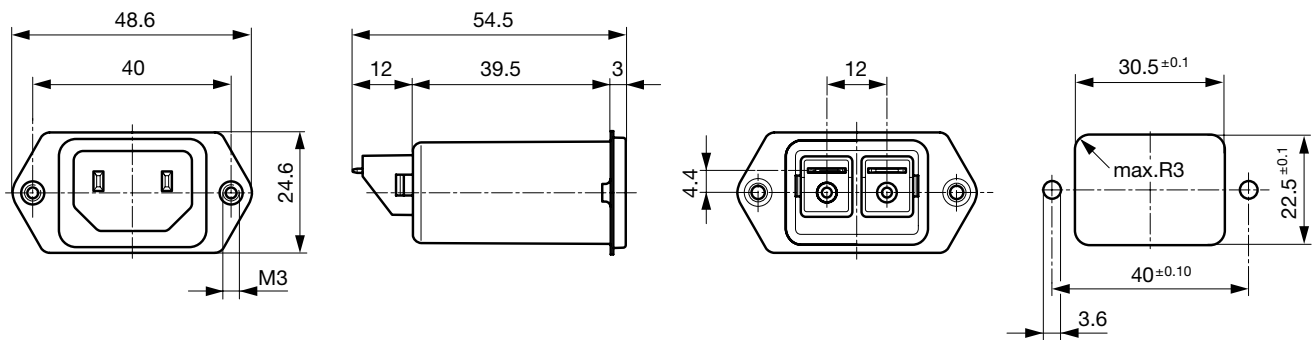
|                         |                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Appliance-Inlet/-Outlet | C14 / C18 acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I or II |
| Line Filter             | Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8<br><a href="#">Technical Details</a>                           |
| MTBF                    | > 3'000'000 h acc. to MIL-HB-217 F                                                                                               |

**Dimension**

Front or rear side mounting for screws with nuts or blind rivets (panel cutout for frontside mounting)

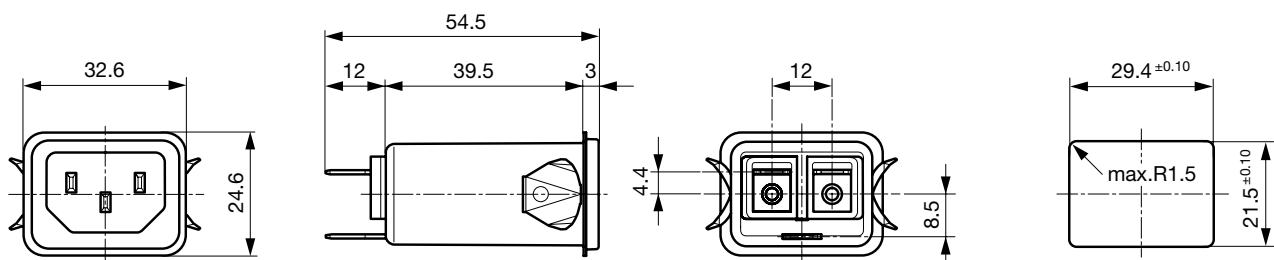


Rear side mounting with pre-formed, threaded holes for M3 screws (panel cutout for rear side mounting)



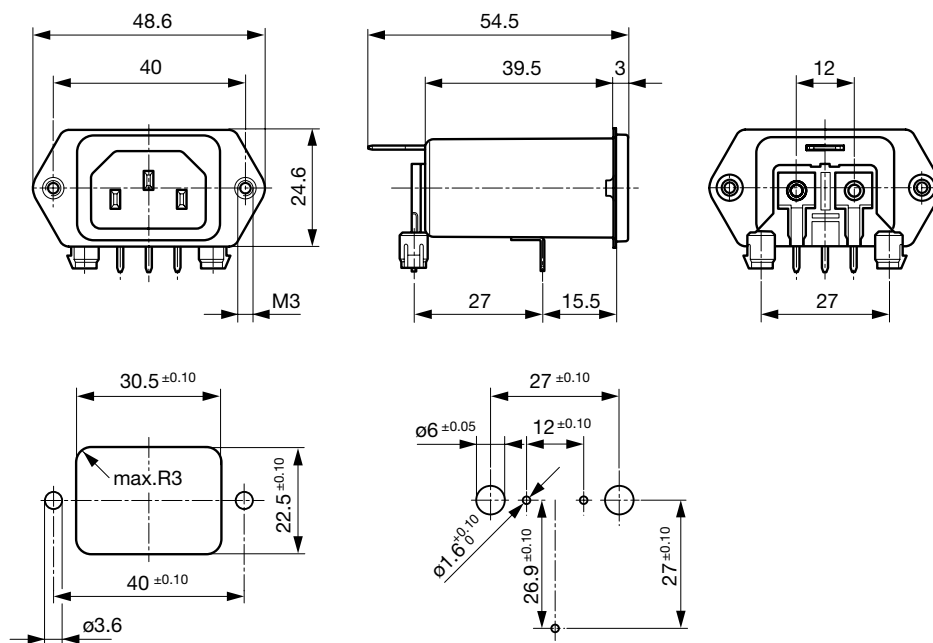
Dimensions for class II version also apply to class I

Snap-in mounting from front side

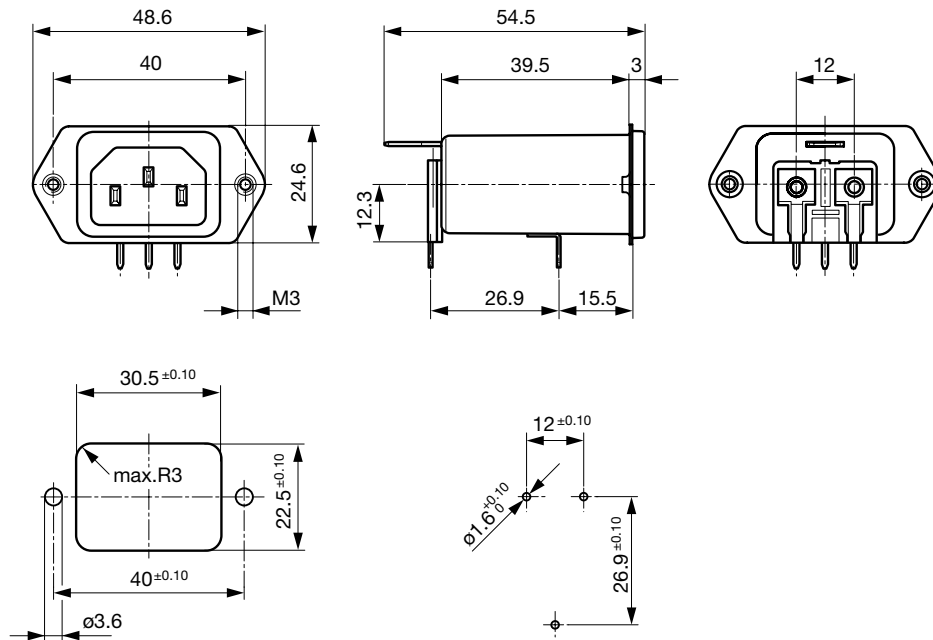


Dimensions for class I version also apply class II

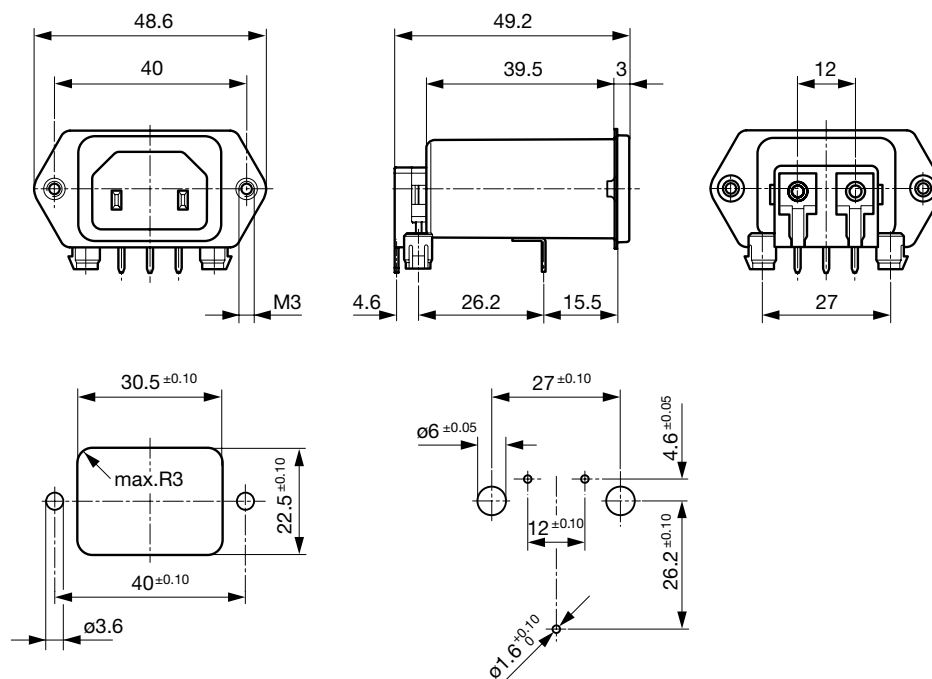
PCB snap-in rear side mounting, protection class I



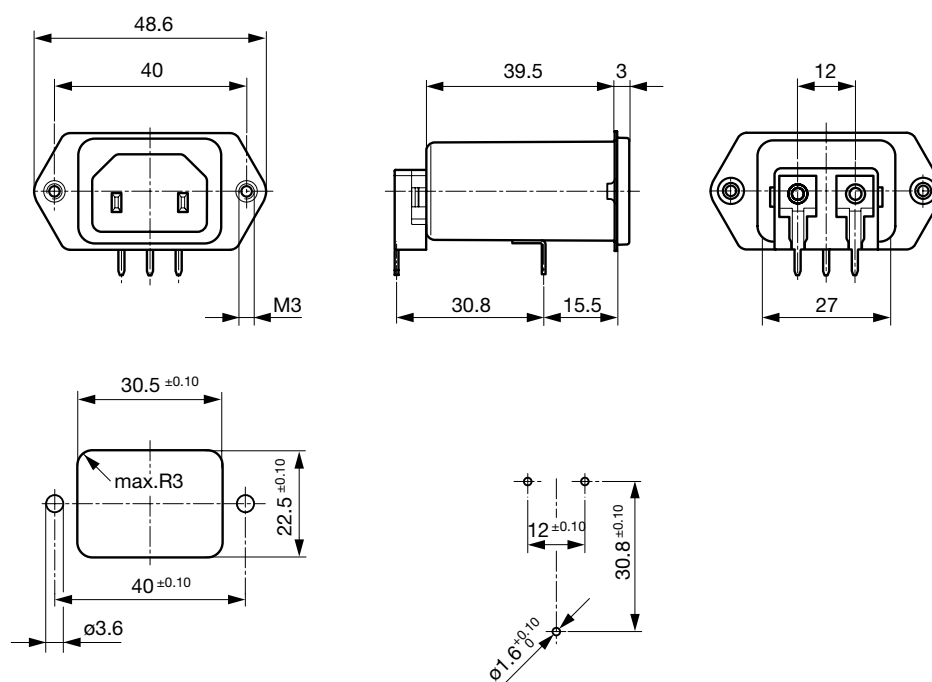
PCB rear side mounting, protection class I



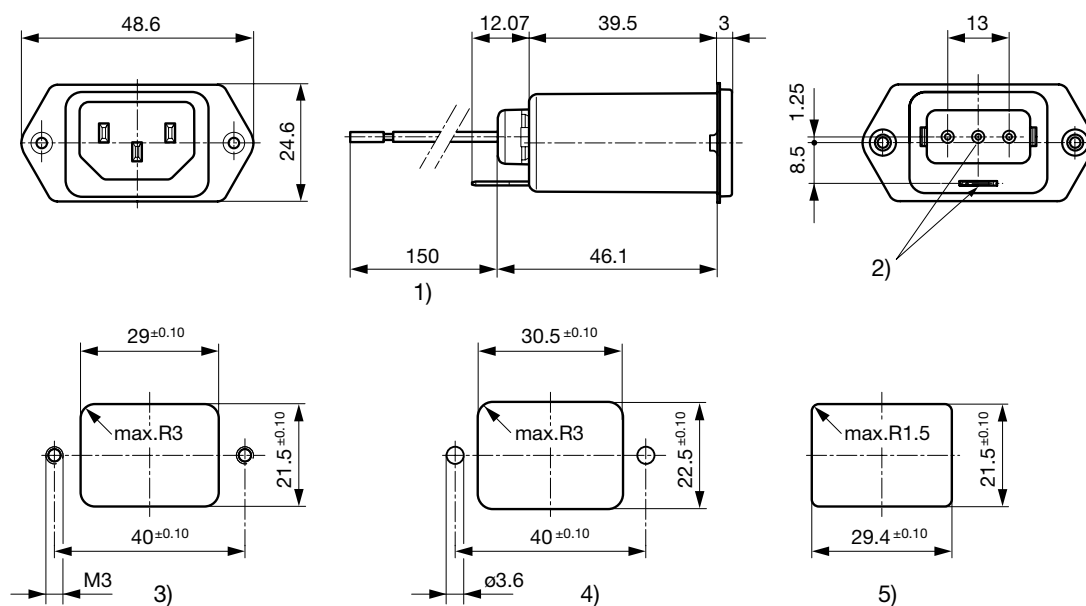
## PCB snap-in rear side mounting, protection class II



## PCB rear side mounting, protection class II



Screw and snap-in mounting with flexible wire



1) Flexible wire, standard length 150 mm or special length on request

2) Nonexistent for protection class II

3) Panel cut-out screw-on version, back-side mounting

4) Panel cut-out screw-on version, front- or back-side mounting

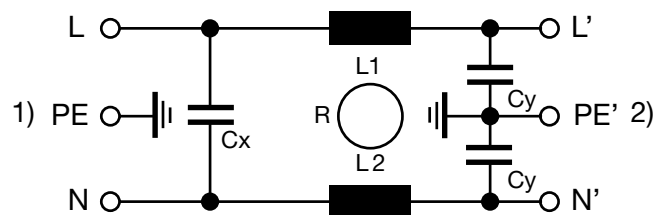
5) Panel cut-out snap-in version, front-side mounting

### Technical Data of Filter-Components

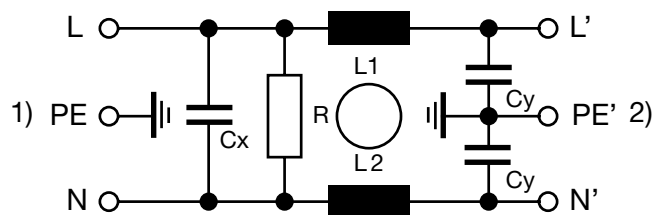
| Rated Current<br>[A] | Filter-Type            | Inductances<br>L [mH] | Capacitance<br>CX [nF] | Capacitance<br>CY [nF] | R [MΩ] |
|----------------------|------------------------|-----------------------|------------------------|------------------------|--------|
| 1                    | Standard Version       | 2 x 12                | 100                    | 2.2                    | -      |
| 2                    | Standard Version       | 2 x 5.2               | 100                    | 2.2                    | -      |
| 4                    | Standard Version       | 2 x 2                 | 100                    | 2.2                    | -      |
| 6                    | Standard Version       | 2 x 0.8               | 100                    | 2.2                    | -      |
| 10                   | Standard Version       | 2 x 0.4               | 100                    | 2.2                    | -      |
| 15                   | Standard Version       | 2 x 0.1               | 100                    | 2.2                    | -      |
| 1                    | Medical Version (M5)   | 2 x 12                | 100                    | -                      | 1      |
| 2                    | Medical Version (M5)   | 2 x 5.2               | 100                    | -                      | 1      |
| 4                    | Medical Version (M5)   | 2 x 2                 | 100                    | -                      | 1      |
| 6                    | Medical Version (M5)   | 2 x 0.8               | 100                    | -                      | 1      |
| 10                   | Medical Version (M5)   | 2 x 0.4               | 100                    | -                      | 1      |
| 15                   | Medical Version (M5)   | 2 x 0.1               | 100                    | -                      | 1      |
| 1                    | Bleed Resistor Version | 2 x 12                | 100                    | 2.2                    | 1      |
| 2                    | Bleed Resistor Version | 2 x 5.2               | 100                    | 2.2                    | 1      |
| 4                    | Bleed Resistor Version | 2 x 2                 | 100                    | 2.2                    | 1      |
| 6                    | Bleed Resistor Version | 2 x 0.8               | 100                    | 2.2                    | 1      |
| 10                   | Bleed Resistor Version | 2 x 0.4               | 100                    | 2.2                    | 1      |
| 15                   | Bleed Resistor Version | 2 x 0.1               | 100                    | 2.2                    | 1      |

## Diagrams

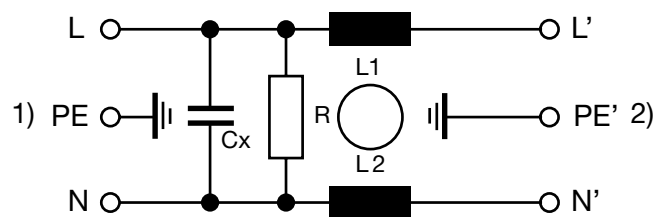
Standard version



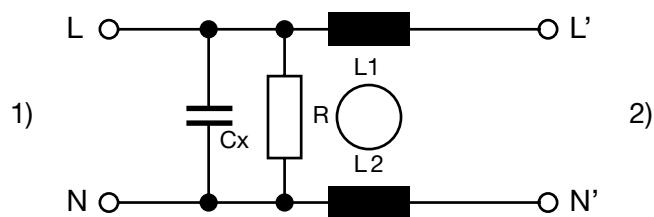
Bleed resistor version



Medical version M5



Medical version M5, prot. class II

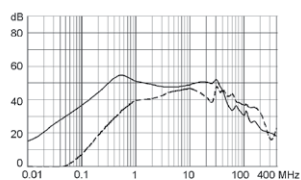


## Attenuation Loss

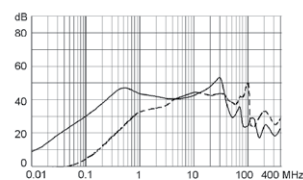
Standard version

- - - - differential mode    \_\_\_\_ common mode

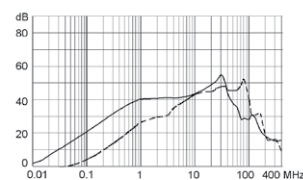
1 A



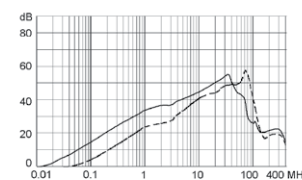
2 A



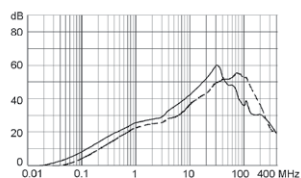
4 A



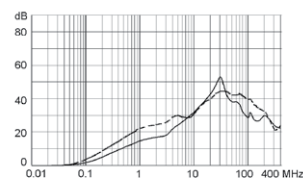
6 A



10 A

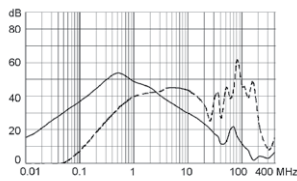


15 A

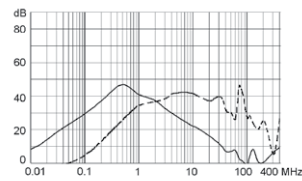


Medical version (M5)

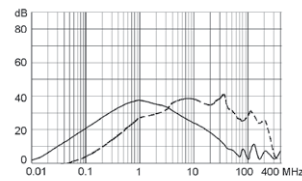
1 A



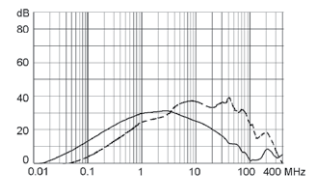
2 A



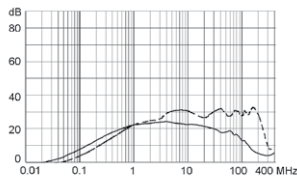
4 A



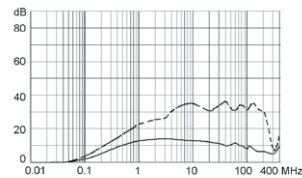
6 A



10 A



15 A



## All Variants

| Rated Current [A] | Filter-Type      | Mounting          | Mounting side    | Terminal          | Protection Class | Order Number   |
|-------------------|------------------|-------------------|------------------|-------------------|------------------|----------------|
| 6                 | Standard Version | Snap-in 2 - 3 mm  | Front Side       | Flexible wire     | I                | 5120.3034.0    |
| 1                 | Standard Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2000.0    |
| 2                 | Standard Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2001.0    |
| 4                 | Standard Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2003.0    |
| 6                 | Standard Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2004.0    |
| 10                | Standard Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2006.0    |
| 10                | Standard Version | Snap-in           | Front Side       | Flexible wire and | I                | 5120.2046.0    |
| 15                | Standard Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2007.0    |
| 1                 | Standard Version | Screw/PCB snap-in | Rear Side        | PCB pin and earth | I                | 5120.5070.0    |
| 2                 | Standard Version | Screw/PCB snap-in | Rear Side        | PCB pin and earth | I                | 5120.5071.0    |
| 4                 | Standard Version | Screw/PCB snap-in | Rear Side        | PCB pin and earth | I                | 5120.5073.0    |
| 6                 | Standard Version | Screw/PCB snap-in | Rear Side        | PCB pin and earth | I                | 5120.5074.0    |
| 10                | Standard Version | Screw/PCB snap-in | Rear Side        | PCB pin and earth | I                | 5120.5076.0    |
| 15                | Standard Version | Screw/PCB snap-in | Rear Side        | PCB pin and earth | I                | 5120.5077.0    |
| 1                 | Standard Version | Screw/PCB         | Rear Side        | PCB pin and earth | I                | 5120.4070.0    |
| 2                 | Standard Version | Screw/PCB         | Rear Side        | PCB pin and earth | I                | 5120.4071.0    |
| 4                 | Standard Version | Screw/PCB         | Rear Side        | PCB pin and earth | I                | 5120.4073.0    |
| 6                 | Standard Version | Screw/PCB         | Rear Side        | PCB pin and earth | I                | 5120.4074.0    |
| 10                | Standard Version | Screw/PCB         | Rear Side        | PCB pin and earth | I                | 5120.4076.0    |
| 15                | Standard Version | Screw/PCB         | Rear Side        | PCB pin and earth | I                | 5120.4077.0    |
| 1                 | Standard Version | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0000.0    |
| 1                 | Standard Version | Screw-on/Rivet    | Front-/Rear-Side | Solder terminals  | I                | 5120.0010.0    |
| 2                 | Standard Version | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0001.0    |
| 4                 | Standard Version | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0003.0    |
| 6                 | Standard Version | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0004.0    |
| 10                | Standard Version | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0006.0    |
| 15                | Standard Version | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0007.0    |
| 15                | Standard Version | Screw-on/Rivet    | Front-/Rear-Side | Flexible wire     | I                | 5120.0057.0    |
| 1                 | Standard Version | Screw             | Rear Side        | Quick connect     | I                | 5120.1000.0    |
| 2                 | Standard Version | Screw             | Rear Side        | Quick connect     | I                | 5120.1001.0    |
| 4                 | Standard Version | Screw             | Rear Side        | Quick connect     | I                | 5120.1003.0    |
| 6                 | Standard Version | Screw             | Rear Side        | Quick connect     | I                | 5120.1004.0    |
| 10                | Standard Version | Screw             | Rear Side        | Quick connect     | I                | 5120.1006.0    |
| 10                | Standard Version | Screw             | Rear Side        | Quick connect     | I                | 5120.1006.0.21 |
| 10                | Standard Version | Screw             | Rear Side        | Flexible wire and | I                | 5120.1046.0    |

| Rated Current [A] | Filter-Type            | Mounting          | Mounting side    | Terminal          | Protection Class | Order Number   |
|-------------------|------------------------|-------------------|------------------|-------------------|------------------|----------------|
| 15                | Standard Version       | Screw             | Rear Side        | Quick connect     | I                | 5120.1007.0    |
| 1                 | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | I                | 5120.2300.0    |
| 2                 | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | I                | 5120.2301.0    |
| 4                 | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | I                | 5120.2303.0    |
| 6                 | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | I                | 5120.2304.0    |
| 10                | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | I                | 5120.2306.0    |
| 15                | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | I                | 5120.2307.0    |
| 4                 | Medical Version (M5)   | Screw/PCB snap-in | Rear Side        | PCB pin and earth | I                | 5120.5373.0    |
| 6                 | Medical Version (M5)   | Screw/PCB snap-in | Rear Side        | PCB pin and earth | I                | 5120.5374.0    |
| 4                 | Medical Version (M5)   | Screw/PCB         | Rear Side        | PCB pin and earth | I                | 5120.4373.0    |
| 6                 | Medical Version (M5)   | Screw/PCB         | Rear Side        | PCB pin and earth | I                | 5120.4374.0    |
| 1                 | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0300.0    |
| 2                 | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0301.0    |
| 4                 | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0303.0    |
| 4                 | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Flexible wire and | I                | 5120.0343.0    |
| 6                 | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0304.0    |
| 10                | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0306.0    |
| 15                | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | I                | 5120.0307.0    |
| 1                 | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | I                | 5120.1300.0    |
| 2                 | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | I                | 5120.1301.0    |
| 4                 | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | I                | 5120.1303.0    |
| 6                 | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | I                | 5120.1304.0    |
| 10                | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | I                | 5120.1306.0    |
| 10                | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | I                | 5120.1306.0.21 |
| 10                | Medical Version (M5)   | Screw             | Rear Side        | Flexible wire and | I                | 5120.1346.0    |
| 15                | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | I                | 5120.1307.0    |
| 1                 | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | II               | 5120.2300.1    |
| 2                 | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | II               | 5120.2301.1    |
| 4                 | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | II               | 5120.2303.1    |
| 6                 | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | II               | 5120.2304.1    |
| 10                | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | II               | 5120.2306.1    |
| 15                | Medical Version (M5)   | Snap-in           | Front Side       | Quick connect     | II               | 5120.2307.1    |
| 4                 | Medical Version (M5)   | Screw/PCB snap-in | Rear Side        | PCB pin and earth | II               | 5120.5373.1    |
| 6                 | Medical Version (M5)   | Screw/PCB snap-in | Rear Side        | PCB pin and earth | II               | 5120.5374.1    |
| 10                | Medical Version (M5)   | Screw/PCB snap-in | Rear Side        | PCB pin and earth | II               | 5120.5376.1    |
| 4                 | Medical Version (M5)   | Screw/PCB         | Rear Side        | PCB pin and earth | II               | 5120.4373.1    |
| 6                 | Medical Version (M5)   | Screw/PCB         | Rear Side        | PCB pin and earth | II               | 5120.4374.1    |
| 2                 | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | II               | 5120.0301.1    |
| 4                 | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | II               | 5120.0303.1    |
| 6                 | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Quick connect     | II               | 5120.0304.1    |
| 10                | Medical Version (M5)   | Screw-on/Rivet    | Front-/Rear-Side | Solder terminals  | II               | 5120.0316.1    |
| 1                 | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | II               | 5120.1300.1    |
| 2                 | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | II               | 5120.1301.1    |
| 2                 | Medical Version (M5)   | Screw             | Rear Side        | Solder terminals  | II               | 5120.1311.1    |
| 4                 | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | II               | 5120.1303.1    |
| 6                 | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | II               | 5120.1304.1    |
| 10                | Medical Version (M5)   | Screw             | Rear Side        | Quick connect     | II               | 5120.1306.1    |
| 2                 | Bleed Resistor Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2201.0    |
| 4                 | Bleed Resistor Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2203.0    |
| 6                 | Bleed Resistor Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2204.0    |
| 10                | Bleed Resistor Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2206.0    |
| 15                | Bleed Resistor Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2207.0    |
| 15                | Bleed Resistor Version | Snap-in           | Front Side       | Quick connect     | I                | 5120.2207.0.21 |
| 10                | Bleed Resistor Version | Screw-on/Rivet    | Front-/Rear-Side | Solder terminals  | I                | 5120.0216.0    |

| Rated Current [A] | Filter-Type | Mounting | Mounting side | Terminal | Protection Class | Order Number |
|-------------------|-------------|----------|---------------|----------|------------------|--------------|
|-------------------|-------------|----------|---------------|----------|------------------|--------------|

Most Popular.

Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

- 15 A version only according UL/CSA

- Type for screw-on mounting from rear side has pre-threaded holes for M3 screws

Suffix ".21" corresponds to the version with V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

**Packaging unit** 10 Pcs

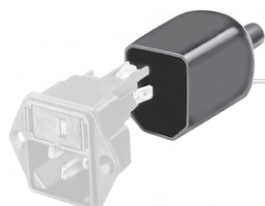
## Accessories

### Description



#### Wire Harness

Wire harness for SCHURTER products



#### Assorted Covers

Rear Cover

0859.0048



#### Cord retaining kits

Cord retaining strain relief

|              |           |
|--------------|-----------|
| Flat head, Z | 0888.0021 |
| Flat head, E | 4700.0005 |
| Flat head, G | 4700.0007 |

## Mating Outlets/Connectors

### Category / Description



#### Appliance Outlet Overview complete

|                                                                                                   |      |
|---------------------------------------------------------------------------------------------------|------|
| IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal                            | 4787 |
| IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal            | 4788 |
| IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal | 5091 |

[Appliance Outlet further types to 5120](#)



Connector Overview complete

|                                                                                 |         |
|---------------------------------------------------------------------------------|---------|
| 4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13    | 4782    |
| 4022 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13 | 4022    |
| 4785 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13    | 4785    |
| 4300-06 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13 | 4300-06 |
| 4012 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13 | 4012    |
| Connector further types to 5120                                                 | ...     |

Mating Outlets/Connectors shuttered



Power Cord Overview complete

|                                                         |           |
|---------------------------------------------------------|-----------|
| VAC17KS, North America, 2.0 m, Connector C17, cord end: | 6051.2801 |
| VAC17KS, Europlug, 2.0 m, Connector IEC C17, cord end:  | 6051.2803 |
| VAC17KS, Europlug, 2.0 m, Connector IEC C17, cord end:  | 6051.2813 |
| VAC13KS, Overview, diverse Connector IEC C13, cord end: | VAC13KS   |
| Power Cord further types to 5120                        |           |