

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.

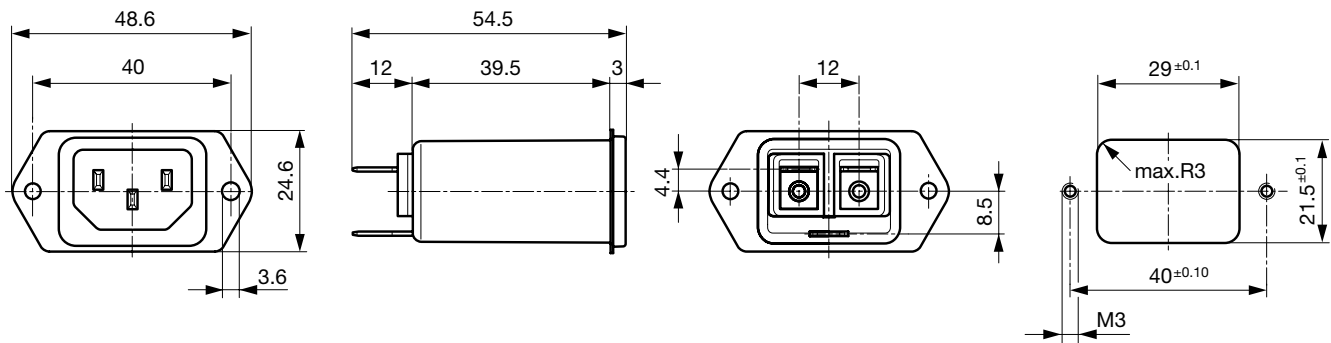
## Technical Data

|                           |                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------|
| 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                                                     |

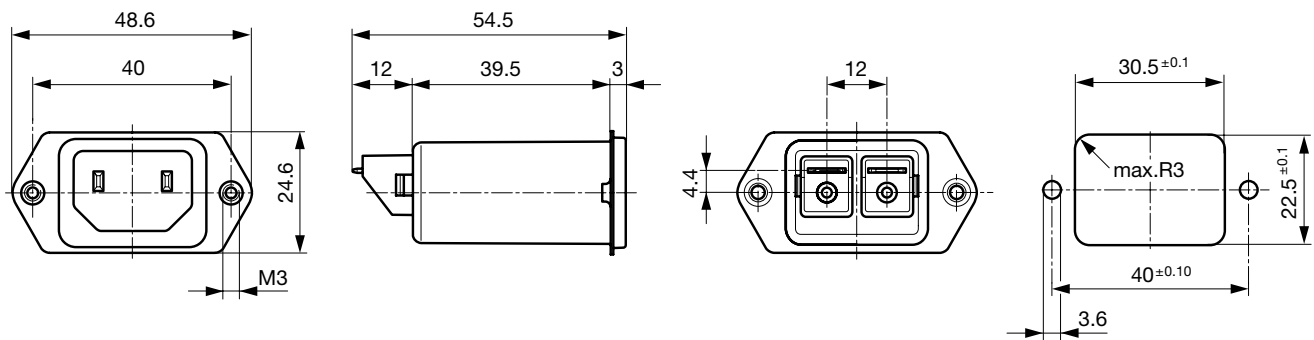
|                         |                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 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)

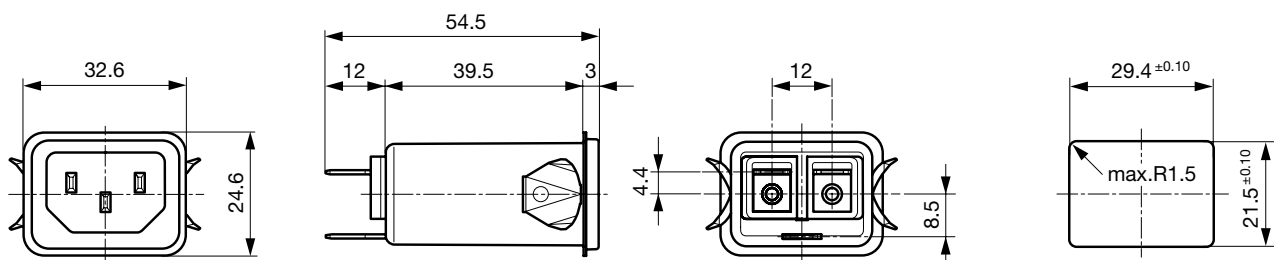


Rear side mounting with pre-formed, threaded holes for M3 screws (panel cutout for rear side mounting)



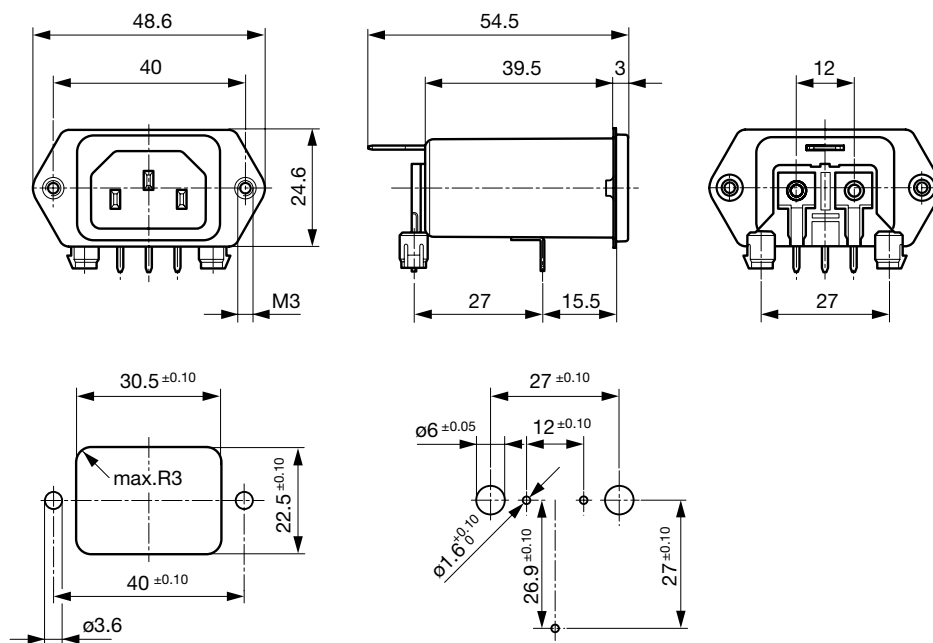
Dimensions for class II version also apply to class I

Snap-in mounting from front side

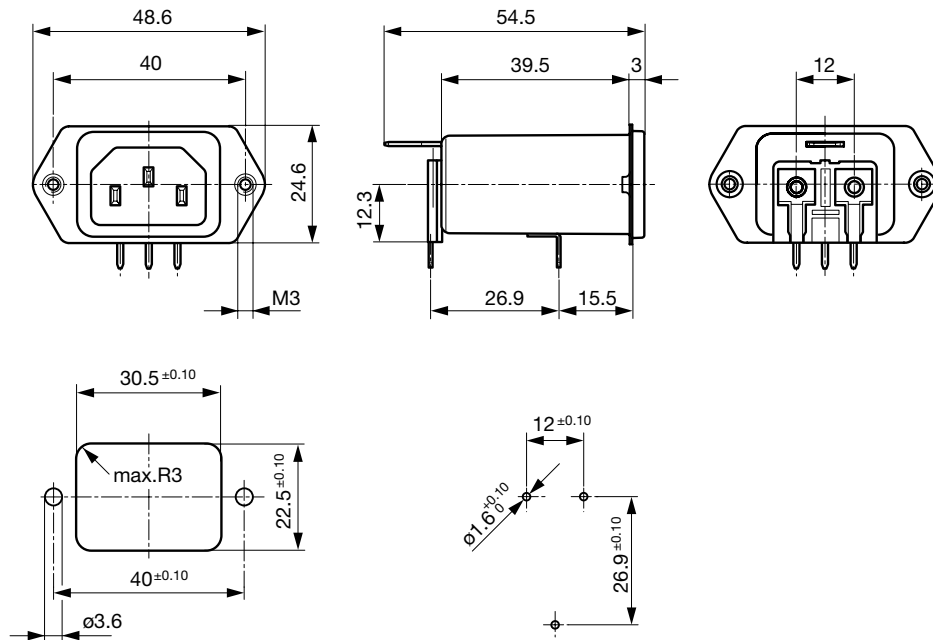


Dimensions for class I version also apply class II

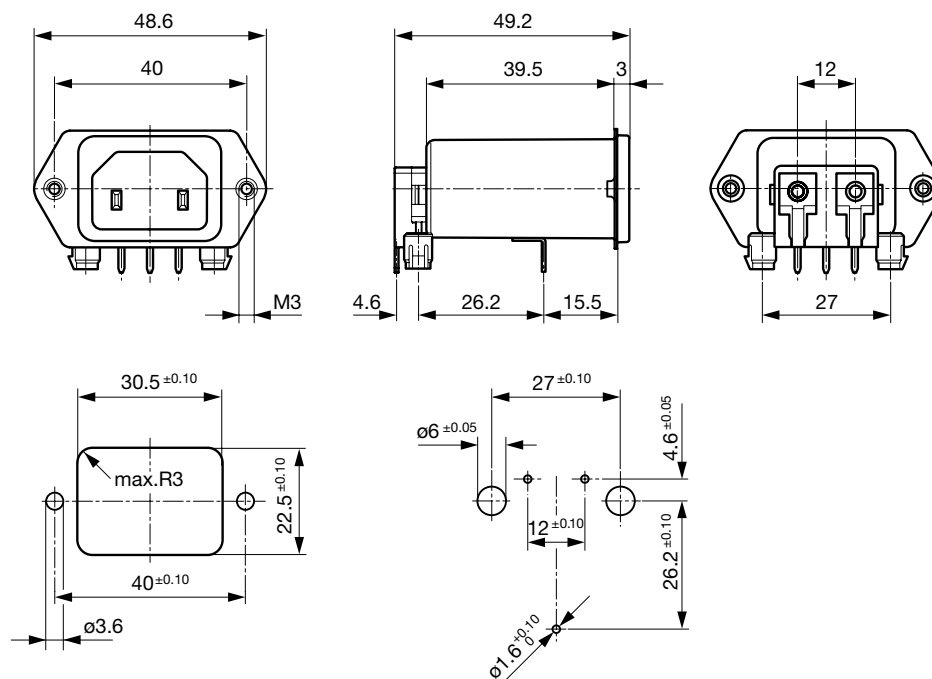
PCB snap-in rear side mounting, protection class I



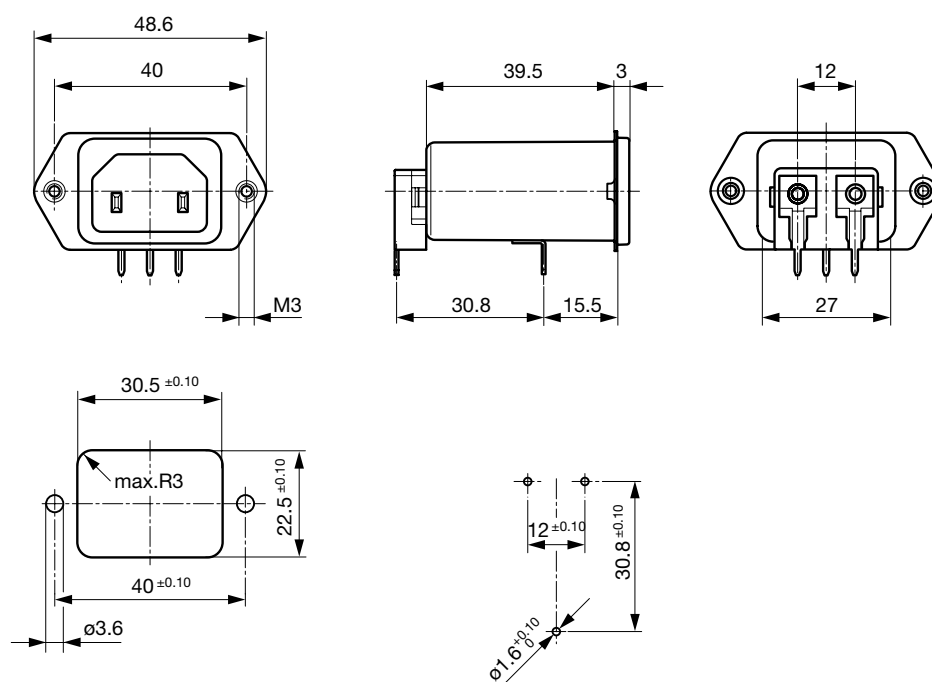
PCB rear side mounting, protection class I



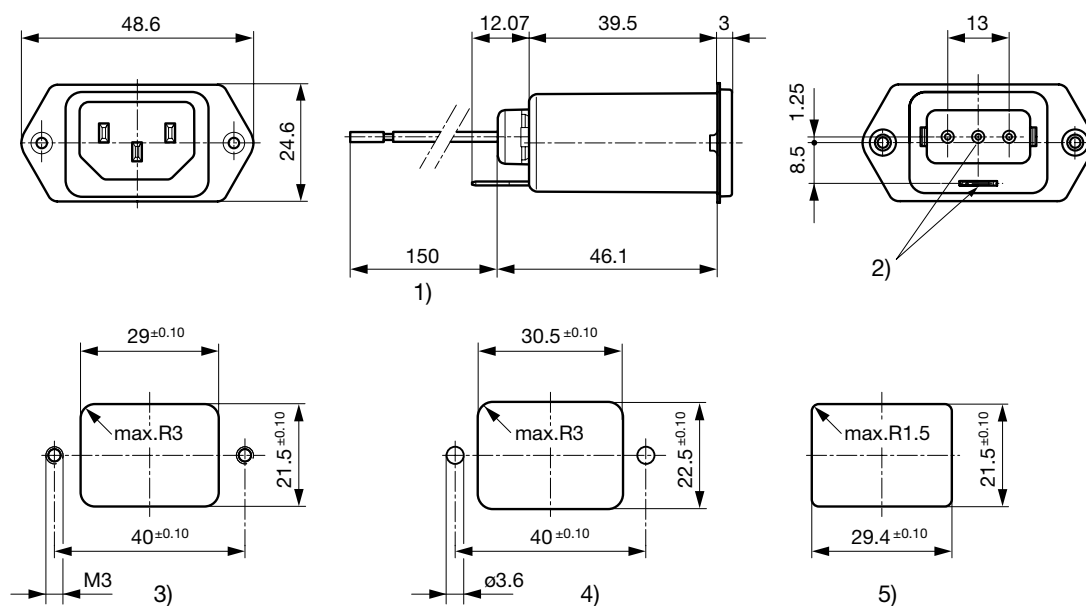
## PCB snap-in rear side mounting, protection class II



## 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

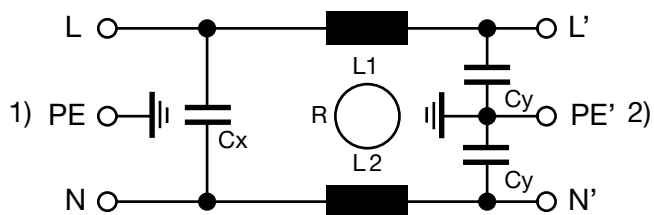
5) Panel cut-out snap-in version, front-side mounting

#### 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      |

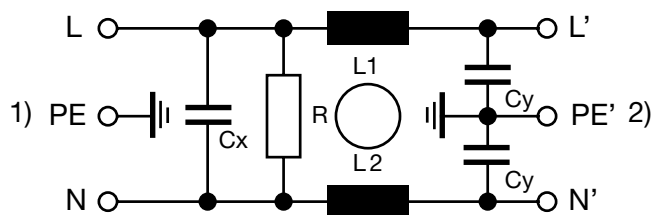
## Diagrams

Standard version



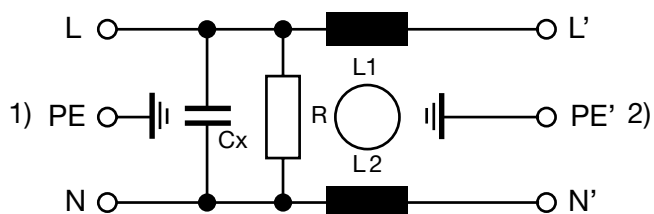
1) Line  
2) Load

Bleed resistor version



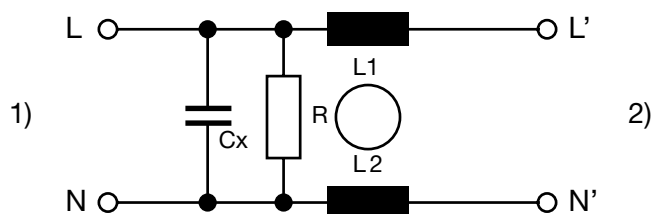
1) Line  
2) Load

Medical version M5



1) Line  
2) Load

Medical version M5, prot. class II



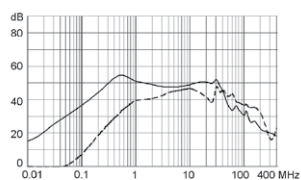
1) Line  
2) Load

## Attenuation Loss

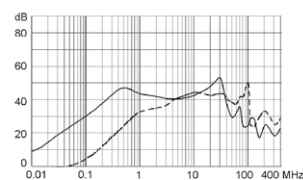
Standard version

--- differential mode    — common mode

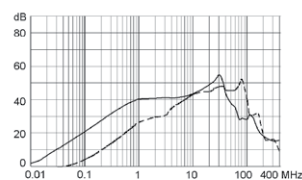
1 A



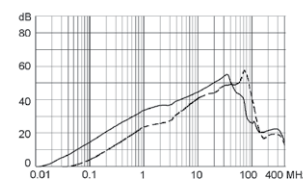
2 A



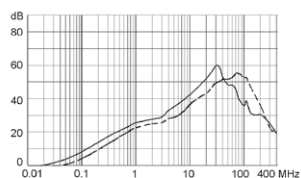
4 A



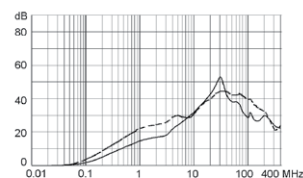
6 A



10 A

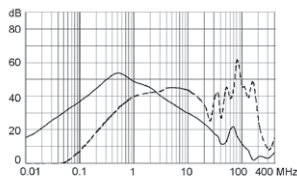


15 A

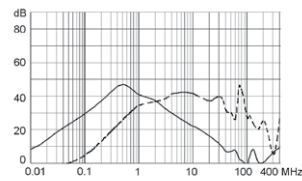


Medical version (M5)

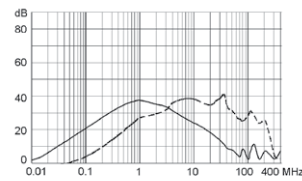
1 A



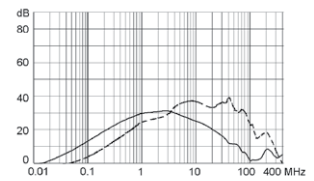
2 A



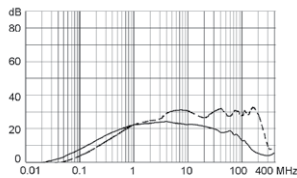
4 A



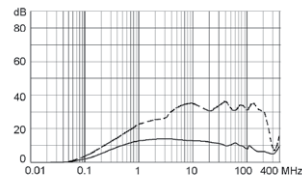
6 A



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

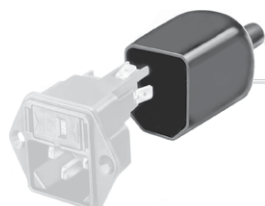
## Accessories

### 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                        |           |