

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

Standard- or Medical-Filter



V-Lock

new



C14



70° C

C18



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

Characteristics

- Compact filter with high asymmetrical attenuation
- Optimal shielding due to completely closed filter case, unpotted
- Designed for standard and medical applications
- Suitable for assembly in metal plated plastic housings
- Qualified for use in equipment according IEC/EN 60950

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
- Variant with notch for V-Lock mating Cordsets

References

Alternative: Standard version

Weblinks

[pdf pdf data sheet](#), [html data sheet](#), [General Product Information](#), [Approvals](#), [RoHS](#), [CHINA-RoHS](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Wire Harness](#), [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.

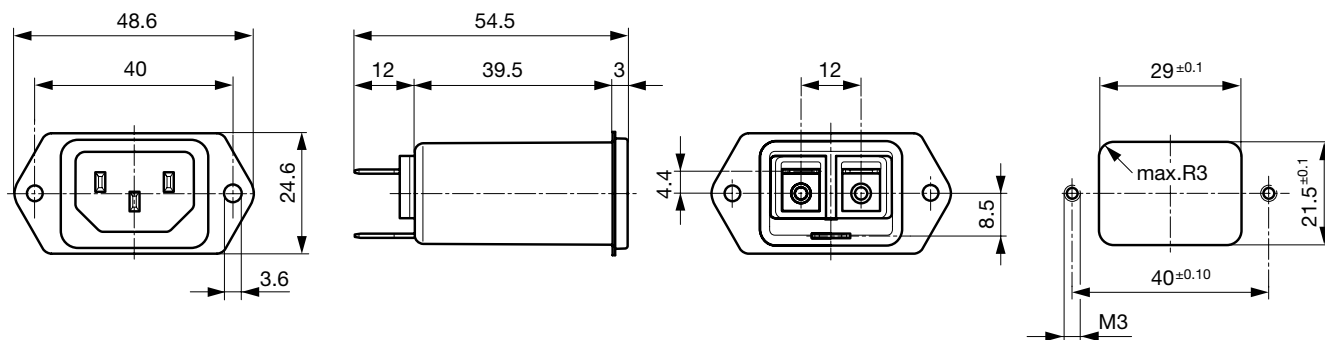
Technical Data

Ratings IEC	1 - 10A @ Ta 40 °C / 250VAC; 50Hz
Ratings UL/CSA	1 - 15A @ Ta 40 °C / 250VAC; 60Hz
Leakage Current	standard < 0.5mA (250V / 60Hz) medical < 5 µA (250V / 60 Hz)
Dielectric Strength	> 1.7kVDC between L-N > 2.7kVDC between L/N-PE 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 Solder terminals Flexible wire AWG18 (15A AWG16), 150 mm
Panel Thickness s	Screw: max 8 mm Mounting screw torque max 0.5Nm Snap-in: 0.8 mm to 2 mm (all steps with one variant)
Material: Housing	Thermoplast / steel tin-plated, black / metallic, UL 94V-0

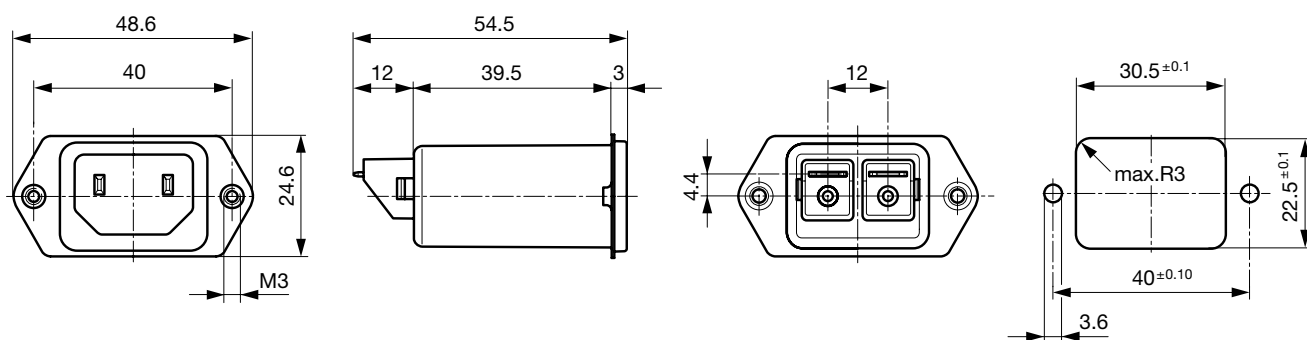
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I or II
Line Filter	Standard and Medical Version, IEC 60939, IEC 60601-1, UL 1283, UL 544, CSA C22.2 no. 8 Technical Details
MTBF	> 3'000'000 h acc. to MIL-HB-217 F

Dimensions

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

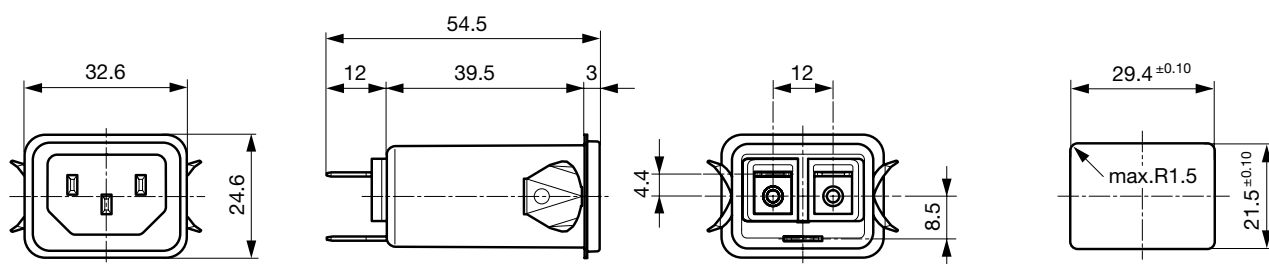


Rear side mounting with pre-formed, threaded holes for M3 screws (panel cutout for rear side mounting)



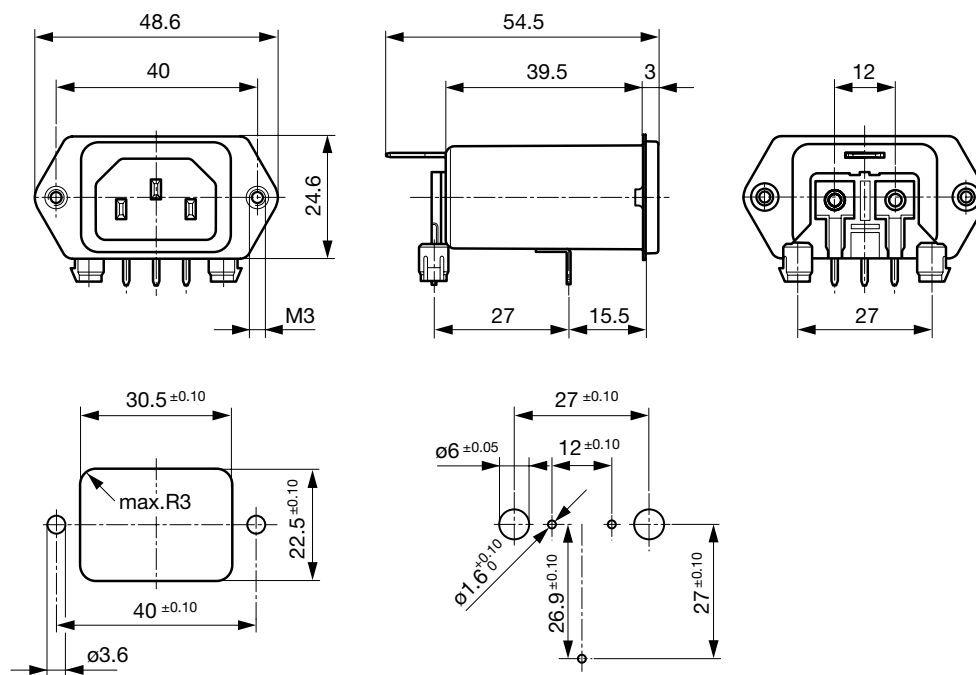
Dimensions for class II version also apply to class I

Snap-in mounting from front side

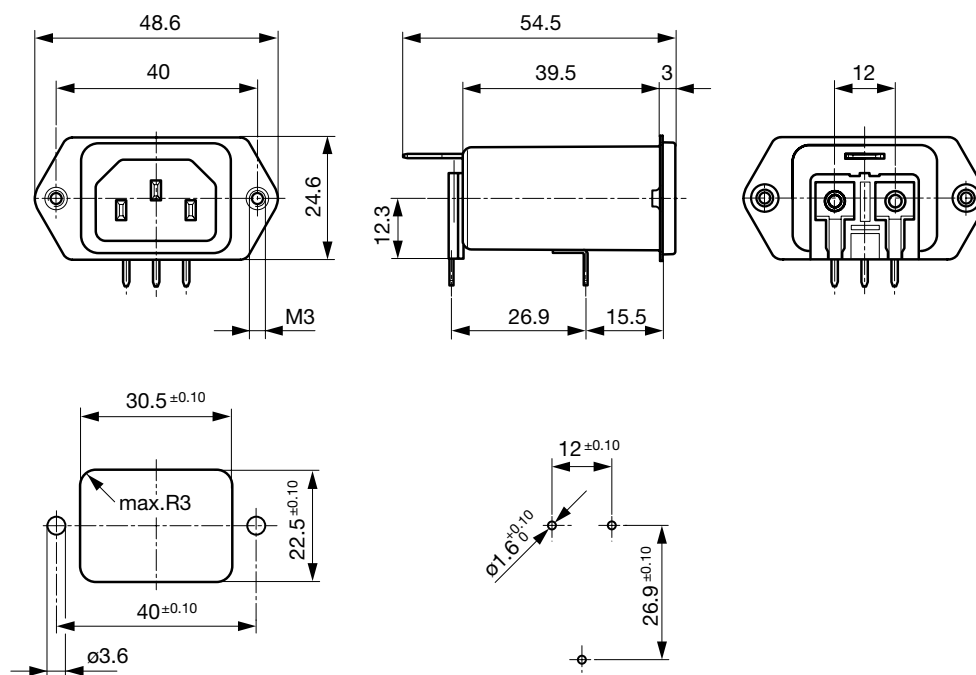


Dimensions for class I version also apply class II

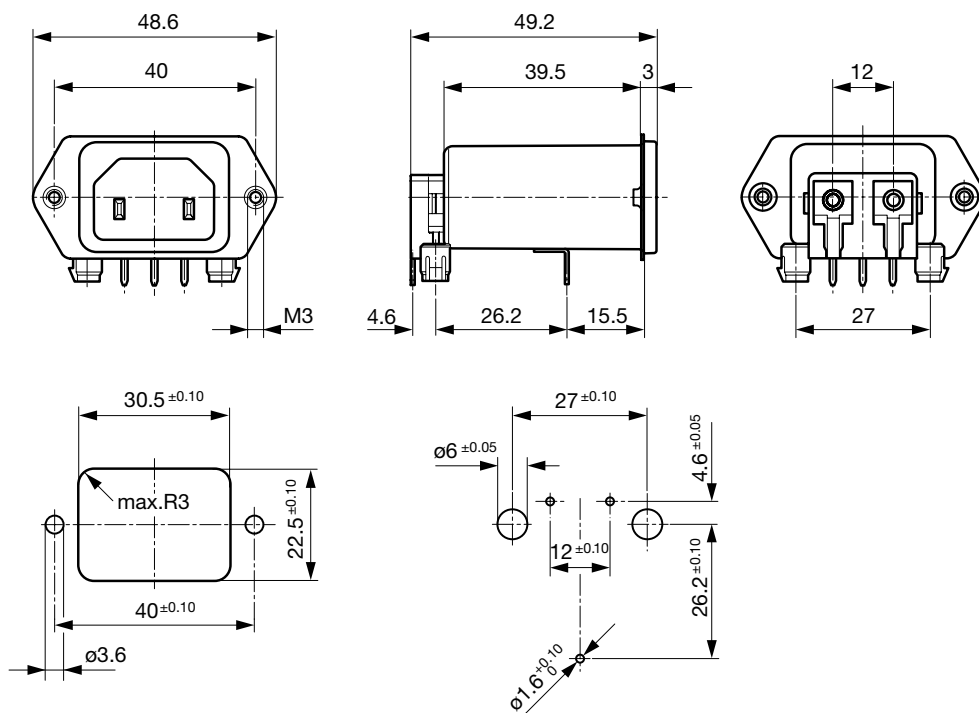
PCB snap-in rear side mounting, protection class I



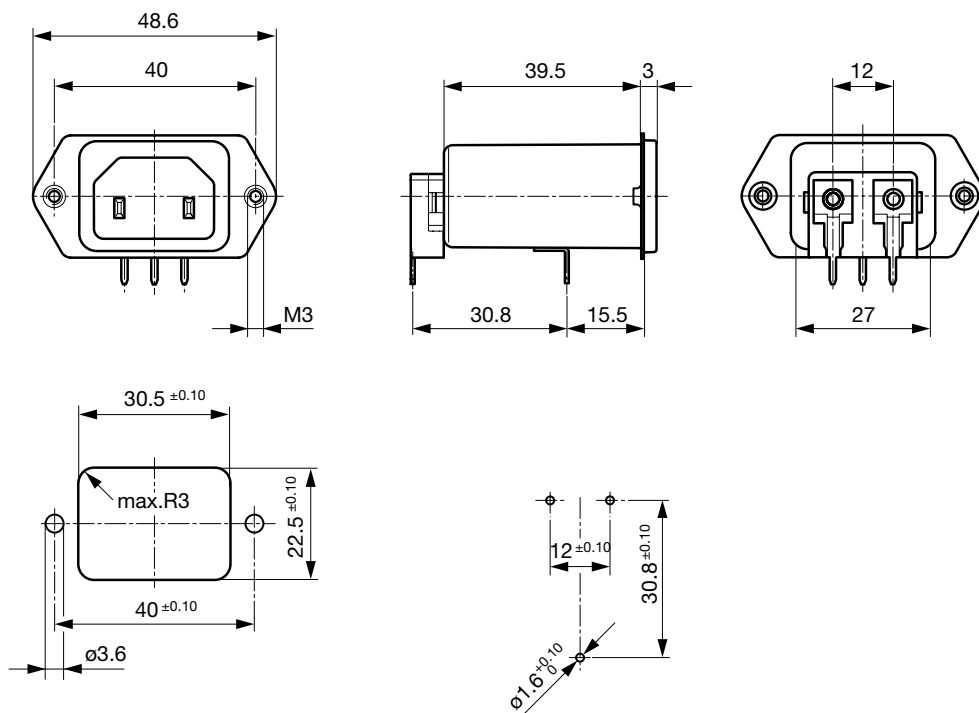
PCB rear side mounting, protection class I



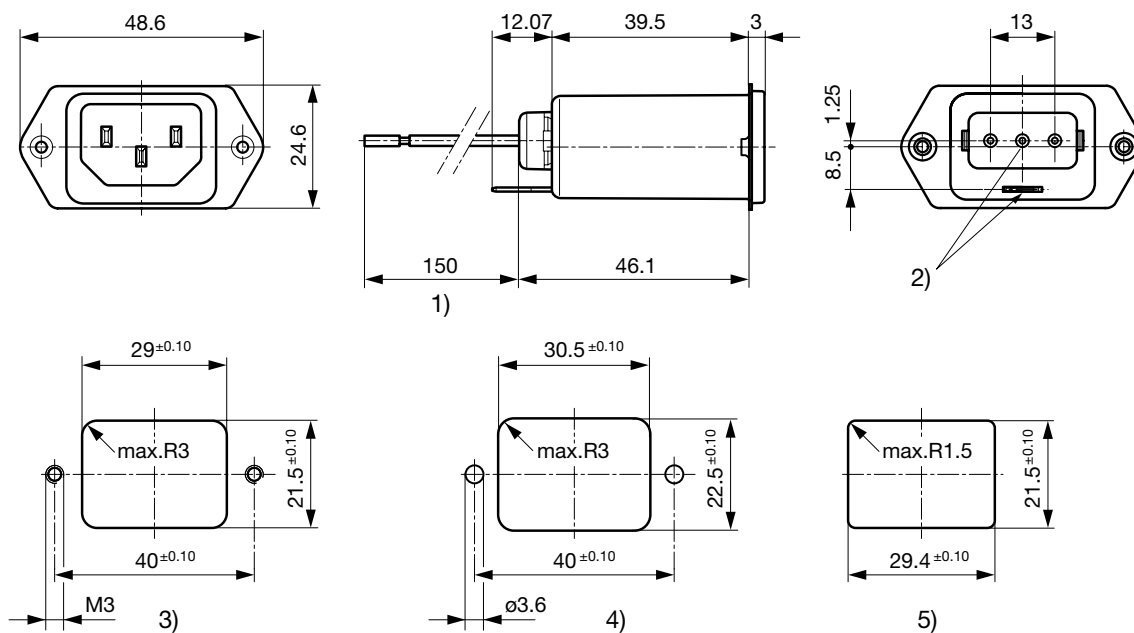
PCB snap-in rear side mounting, protection class II



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

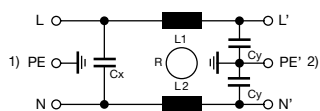
5) Panel cut-out snap-in version, front-side mounting

Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 20	100	2.2	-
2	Standard Version	2 x 9	100	2.2	-
4	Standard Version	2 x 3.4	100	2.2	-
6	Standard Version	2 x 1.6	100	2.2	-
10	Standard Version	2 x 0.65	100	2.2	-
15	Standard Version	2 x 0.2	100	2.2	-
1	Medical Version (M5)	2 x 20	100	-	1
2	Medical Version (M5)	2 x 9	100	-	1
4	Medical Version (M5)	2 x 3.4	100	-	1
6	Medical Version (M5)	2 x 1.6	100	-	1
10	Medical Version (M5)	2 x 0.65	100	-	1
15	Medical Version (M5)	2 x 0.2	100	-	1
6	Medical Version (M80)	2 x 1.6	100	0.47	1
1	Medical (M5)	2 x 20	100	-	1
2	Medical (M5)	2 x 9	100	-	1
4	Medical (M5)	2 x 3.4	100	-	1
6	Medical (M5)	2 x 1.6	100	-	1
10	Medical (M5)	2 x 0.65	100	-	1
15	Medical (M5)	2 x 0.2	100	-	1

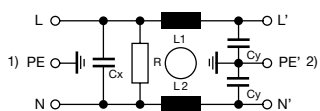
Diagrams

Standard version



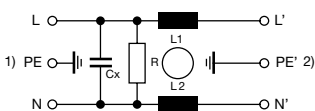
1) Line
2) Load

Bleed resistor version



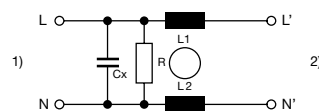
1) Line
2) Load

Medical version M5



1) Line
2) Load

Medical version M5, prot. class II

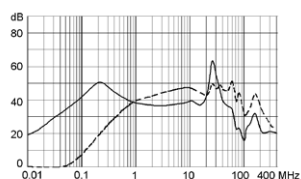


1) Line
2) Load

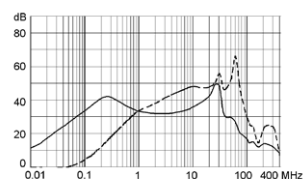
Attenuation Loss

Standard version

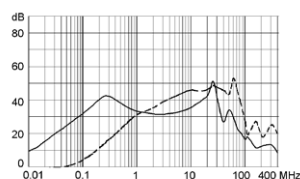
1 A



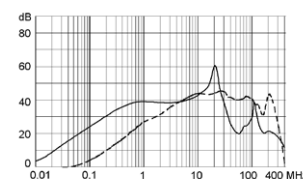
2 A



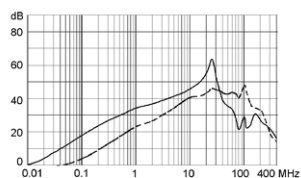
3 A



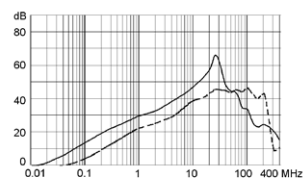
4 A



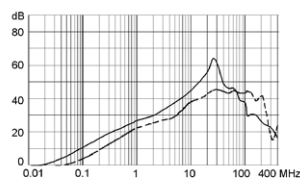
6 A



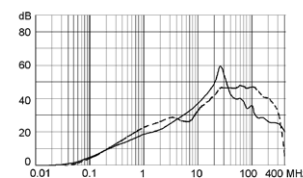
8 A



10 A

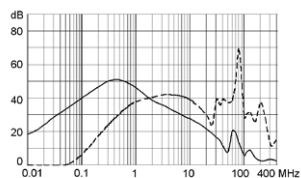


15 A

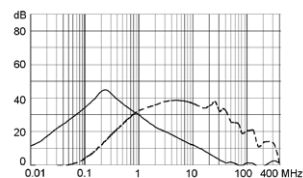


Medical version (M5)

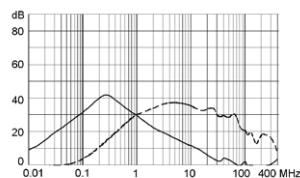
1 A



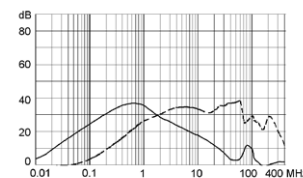
2 A



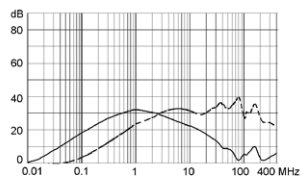
3 A



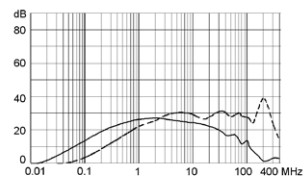
4 A



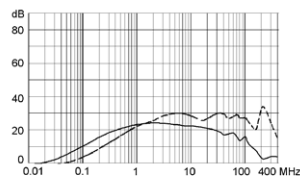
6 A



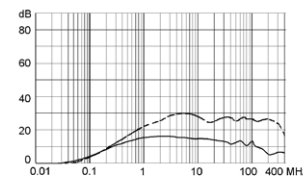
8 A



10 A



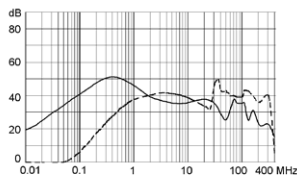
15 A



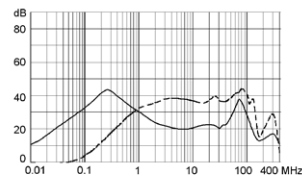
--- differential mode — common mode

Medical version (M80)

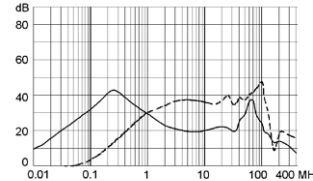
1 A



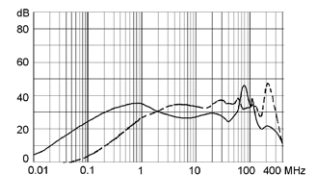
2 A



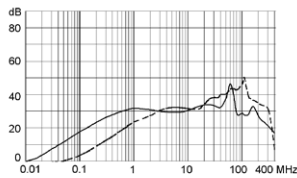
3 A



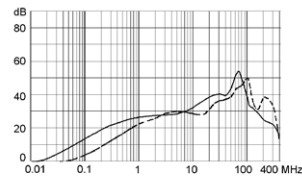
4 A



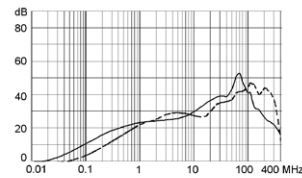
6 A



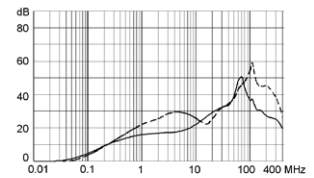
8 A



10 A



15 A



Variants

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	Order Number
6	Standard Version	Screw/PCB	Rear-Side	PCB pin and earth pin 6.3 x 0.8	I	5123.4074.0
10	Standard Version	Screw	Rear-Side	Flexible wire	I	5123.1046.0
1	Standard Version	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0000.0
2	Standard Version	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0001.0
4	Standard Version	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0003.0
6	Standard Version	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0004.0
10	Standard Version	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0006.0
15	Standard Version	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0007.0
1	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1000.0.21
2	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1001.0.21
4	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1003.0.21
6	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1004.0.21
10	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1006.0.21
15	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1007.0.21
1	Standard Version	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2000.0
2	Standard Version	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2001.0
4	Standard Version	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2003.0
6	Standard Version	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2004.0
10	Standard Version	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2006.0
15	Standard Version	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2007.0
1	Medical Version (M5)	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0300.0
2	Medical Version (M5)	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0301.0
4	Medical Version (M5)	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0303.0
6	Medical Version (M5)	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0304.0
10	Medical Version (M5)	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0306.0
15	Medical Version (M5)	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0307.0
1	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1300.0.21
2	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1301.0.21
4	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1303.0.21
6	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1304.0.21
10	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1306.0.21
15	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.1307.0.21
6	Medical Version (M80)	Screw	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.0504.0
1	Medical (M5)	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2300.0
2	Medical (M5)	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2301.0
4	Medical (M5)	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2303.0

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	Order Number
6	Medical (M5)	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2304.0
10	Medical (M5)	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2306.0
15	Medical (M5)	Snap-in	Front-Side	Quick connect terminals 6.3 x 0.8 mm	I	5123.2307.0

- 15 A version only according UL/CSA

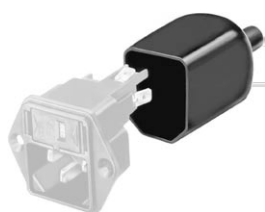
- Type for screw-on mounting from rear side has pre-threaded holes for M3 screws

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



[Assorted Covers](#)
Rear Cover



[Wire Harness](#)
Wire harness for SCHURTER products



[Cord retaining kits](#)
Cord retaining strain relief

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 5123](#)

[Connector Overview complete](#)



IEC Connector C13, Rewireable, Angled 4012

IEC Connector C13, Rewireable, Angled 4013

IEC Connector C13, Rewireable, Straight 4020

IEC Connector C13, Rewireable, Straight 4022

IEC Connector C13, Rewireable, Angled 4300-06

[Connector further types to 5123](#)

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Category / Description

[Power Cord Overview complete](#)

Overview Power Supply Cord with IEC Connector C13, V-Lock, straight

VAC13KS

[Power Cord further types to 5123](#)[Power Supply or Interconnection Cord Overview complete](#)

Diverse Power Supply and Interconnection Cords 10 A

Cord Sets 10 A

[Power Supply or Interconnection Cord further types to 5123](#)