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

Front side mounting with plastic flange

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

Screw-on mounting
with wires (stranded)

C14   C18

70° C   70° C

See below:
Approvals and Compliances

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

Unique Selling Proposition
- Various variants
- Metal flange for optimal shielding
- Compact design
- Variants for protection class I and II

Characteristics
- Compact high performance filter
  Optimal shielding due to completely closed filter case, unpotted
- 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 lenghts
- 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; 6100-4; 6102-3; 6102-5

Weblinks
pdf datasheet, html-datasheet, General Product Information, Distributor-Stock-Check, Accessories, Detailed request for product, Landing Page

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 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 15 A @ Ta 40 °C / 250 VAC; 60 Hz
Leakage Current	standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
Allowable Operation Temperature	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
IP-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 with plastic flange: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 0.8 mm to 2 mm (all steps with one variant)
Material: Housing	Themoplast / steel tin-plated, black / metallic, UL 94V-0

appliance inlet/-outlet	C14 / C18 acc. to IEC 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I or II
Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 3'000'000 h acc. to MIL-HB-217 F

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in   Details about Approvals

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: 5120

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40016382
	UL Approvals	UL	UL File Number: E72928
	CQC Approvals	CQC	CQC File Number:

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
IEC	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
UL	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
UL	Designed according to	UL 1283	Electromagnetic interference filters
CSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
CSA Group	Designed according to	CSA C22.2 no. 8	Electromagnetic interference (EMI) filters

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.
IEC	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS COMPLIANT	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.
V-Lock		SCHURTER AG	V-Lock system are based on a matching plug-dose combination. 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.
	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

Dimensions [mm]

Front or rear side mounting for screws with nuts or blind rivets (panel cutout for frontside mounting)
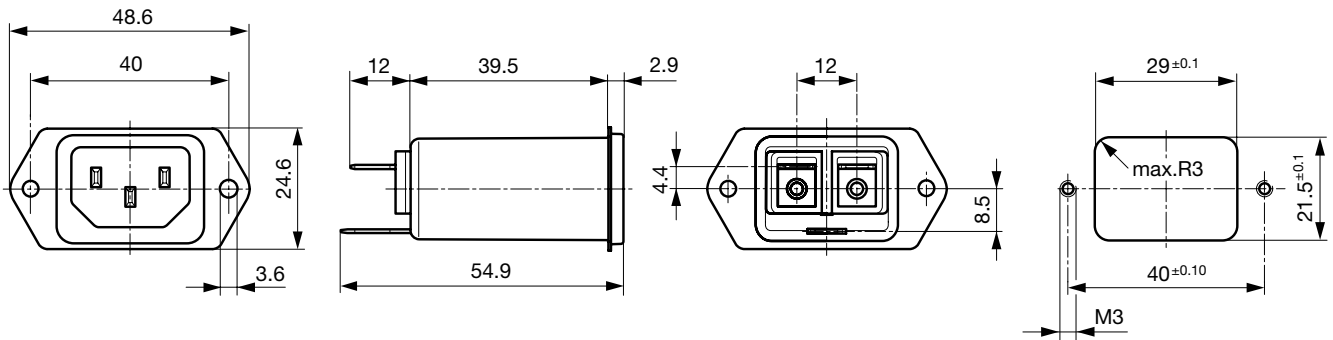
Front side mounting with plastic flange
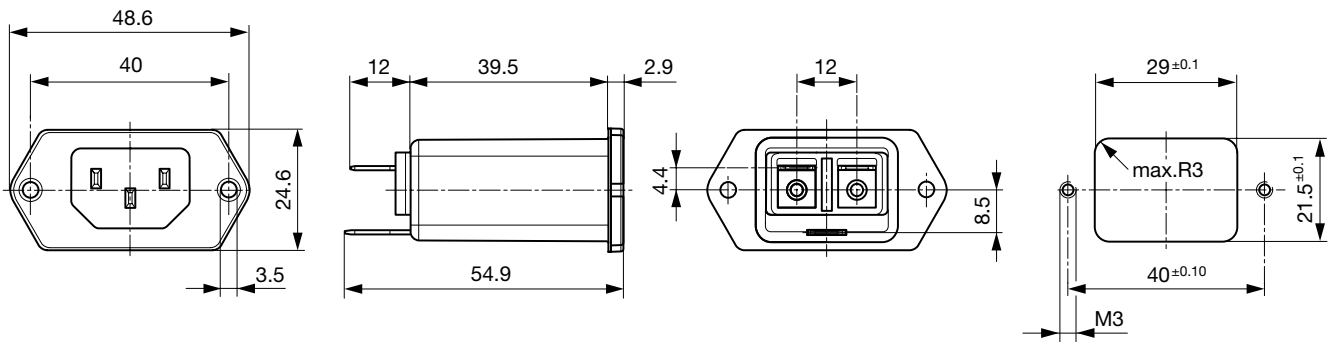
Rear side mounting with pre-formed, threaded holes for M3 screws (panel cutout for rear side mounting)
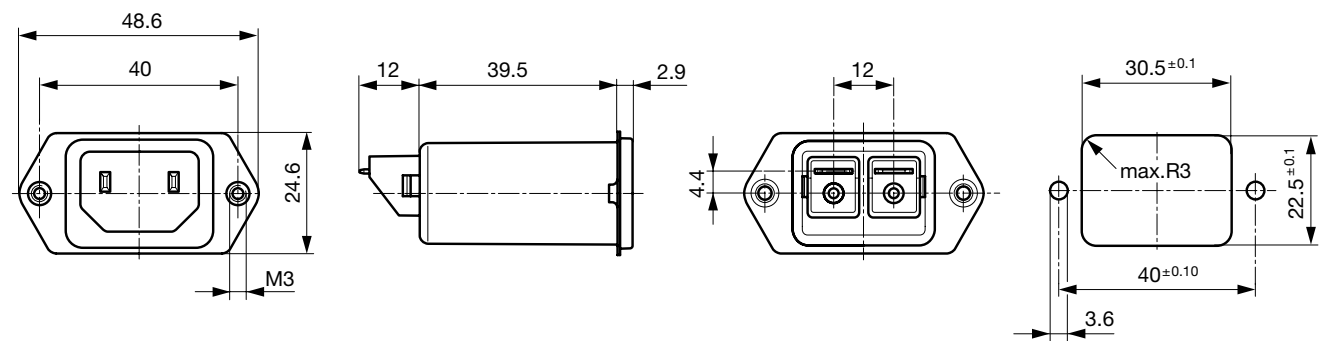
Dimensions for class II version also apply to class I

Snap-in mounting from front side
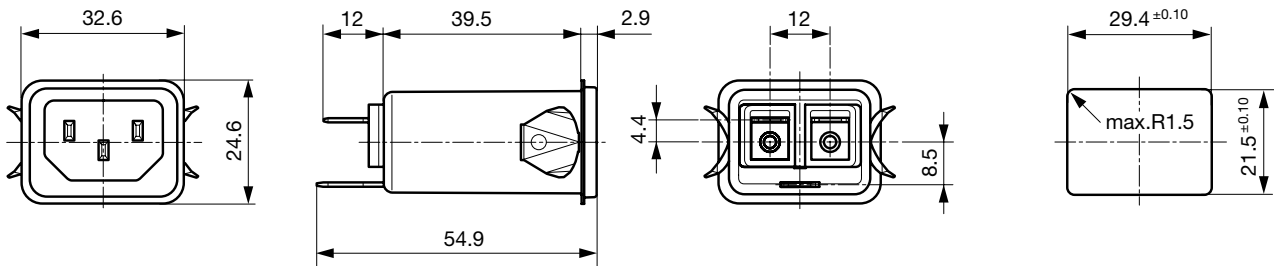
Dimensions for class I version also apply class II

PCB snap-in rear side mounting, protection class II
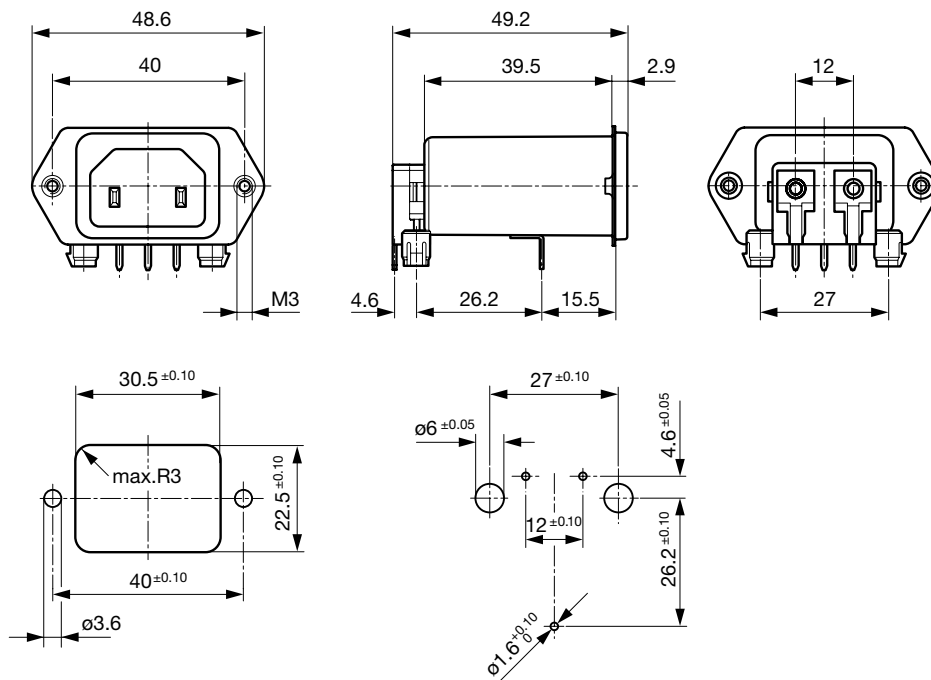
PCB rear side mounting, protection class II
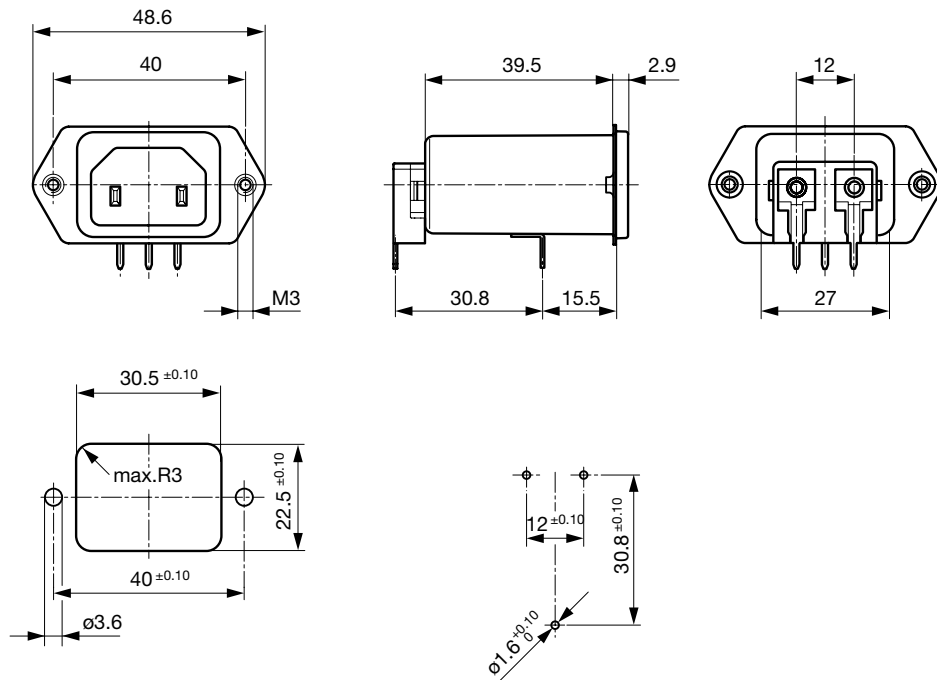
Screw and snap-in mounting with flexible wire
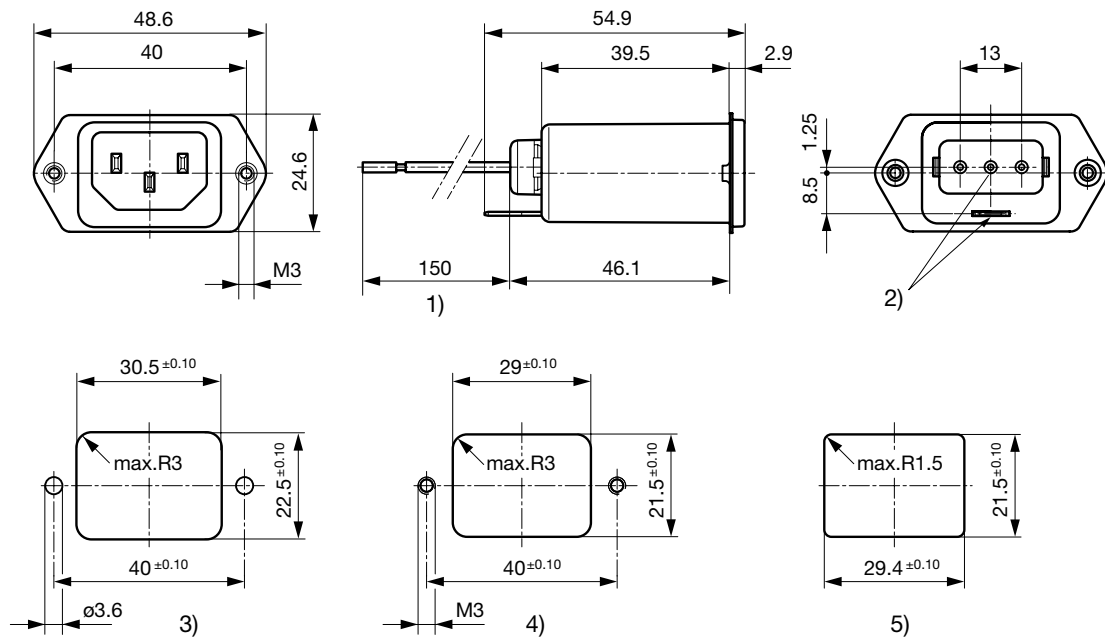
1) Flexible wire, standard length 150 mm or special length on request
2) Nonexistent for protection class II
3) Panel cut-out screw-on version, back-side mounting
4) Panel cut-out screw-on version, front- or back-side mounting
5) Panel cut-out snap-in version, front-side mounting

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 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
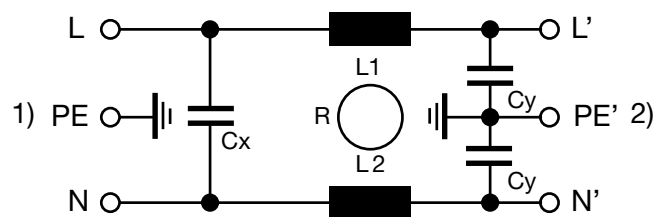
1) Line
2) Load

Bleed resistor version / medical version M80
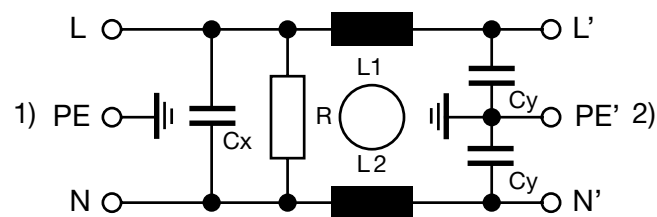
1) Line
2) Load

Medical version M5
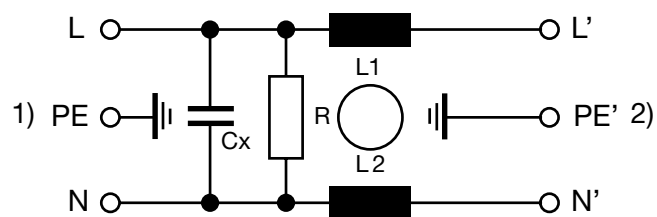
1) Line
2) Load

Medical version M5, prot. class II
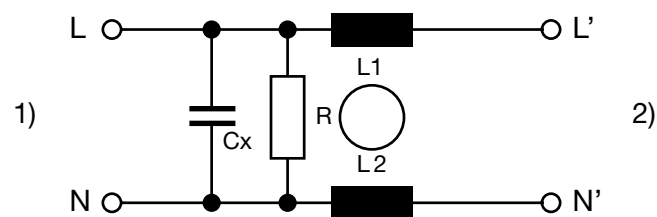
1) Line
2) Load

Attenuation Loss

- - - - 50Ω differential mode _____ 50Ω common mode

Standard version

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
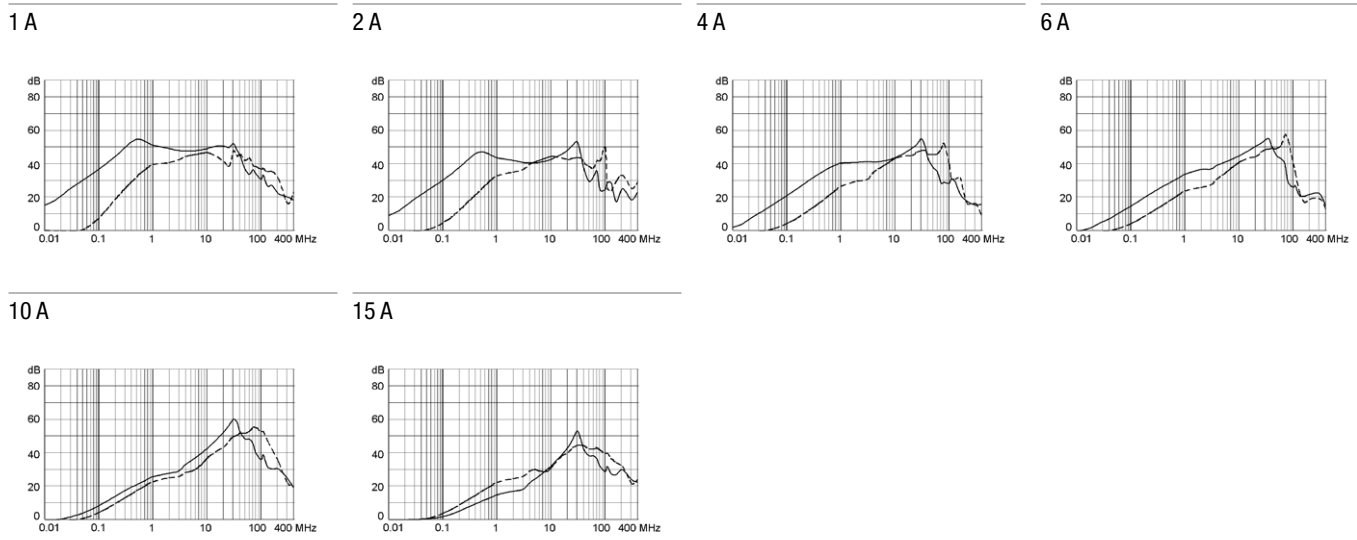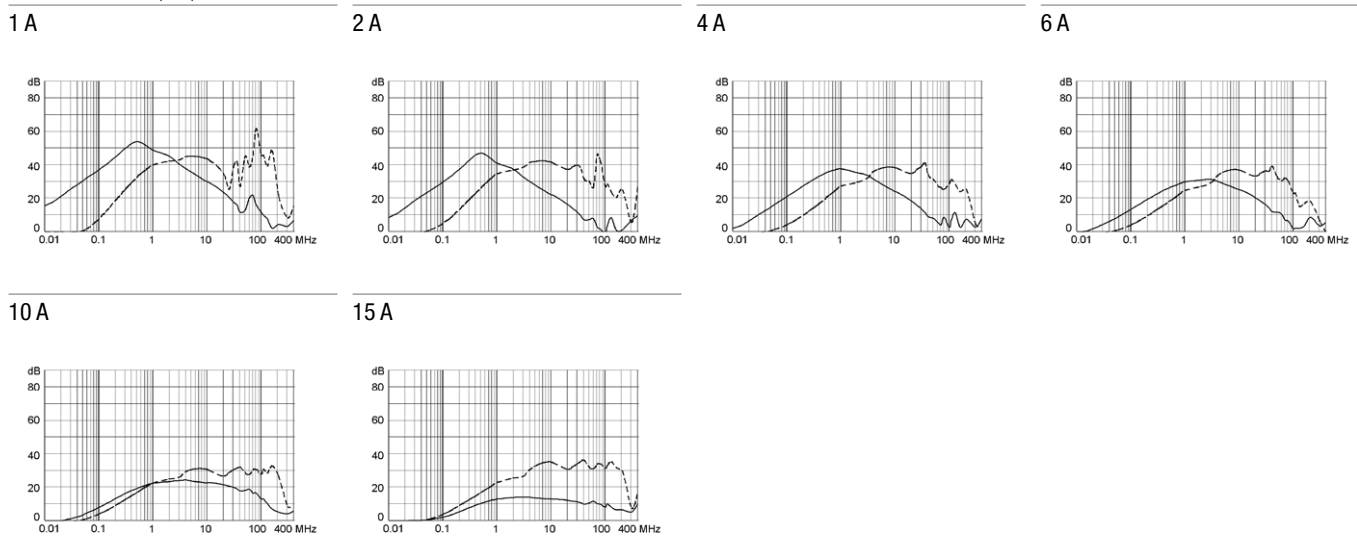
All Variants

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	V-Lock	Order Number
6	Standard Version	Snap-in 2 - 3 mm	Front Side	Flexible wire AWG18	I		5120.3034.0
1	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2000.0
2	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2001.0
4	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2003.0
6	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2004.0
10	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2006.0
10	Standard Version	Snap-in	Front Side	Flexible wire and Earth pin 6.3 x 0.8	I		5120.2046.0

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	V-Lock	Order Number
15	Standard Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2007.0
1	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	I	●	5120.5070.0
2	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.5071.0
4	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.5073.0
6	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.5074.0
10	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.5076.0
15	Standard Version	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.5077.0
1	Standard Version	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.4070.0
2	Standard Version	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.4071.0
4	Standard Version	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.4073.0
6	Standard Version	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.4074.0
10	Standard Version	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.4076.0
15	Standard Version	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.4077.0
1	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	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 terminals 6.3 x 0.8 mm	I		5120.0001.0
4	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0003.0
6	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0004.0
10	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0006.0
15	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0007.0
15	Standard Version	Screw-on/Rivet	Front-/Rear-Side	Flexible wire AWG16	I		5120.0057.0
1	Standard Version	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-140
2	Standard Version	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-141
4	Standard Version	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-142
6	Standard Version	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-143
10	Standard Version	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-100-776
15	Standard Version	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-144
1	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1000.0
2	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1001.0
4	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1003.0

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	V-Lock	Order Number
6	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1004.0
10	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1006.0
10	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	●	5120.1006.0.21
10	Standard Version	Screw	Rear Side	Flexible wire and Earth pin 6.3 x 0.8	I		5120.1046.0
15	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1007.0
15	Standard Version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	●	5120.1007.0.21
1	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2300.0
2	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2301.0
4	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2303.0
6	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2304.0
10	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2306.0
15	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2307.0
4	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.5373.0
6	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.5374.0
4	Medical Version (M5)	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.4373.0
6	Medical Version (M5)	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	I		5120.4374.0
1	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0300.0
2	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0301.0
4	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0303.0
4	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Flexible wire and Earth pin 6.3 x 0.8	I		5120.0343.0
6	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0304.0
10	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0306.0
15	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.0307.0
1	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-145
2	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-146
4	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-100-794
6	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-147
10	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-148

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	V-Lock	Order Number
15	Medical Version (M5)	Screw with plastic flange	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	3-101-149
1	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1300.0
2	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1301.0
4	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1303.0
6	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1304.0
10	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1306.0
10	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I	●	5120.1306.0.21
10	Medical Version (M5)	Screw	Rear Side	Flexible wire and Earth pin 6.3 x 0.8	I		5120.1346.0
15	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.1307.0
1	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.2300.1
2	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.2301.1
4	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.2303.1
6	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.2304.1
10	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.2306.1
15	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.2307.1
4	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	II		5120.5373.1
6	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	II		5120.5374.1
10	Medical Version (M5)	Screw/PCB snap-in	Rear Side	PCB pin and earth pin 6.3 x 0.8	II		5120.5376.1
4	Medical Version (M5)	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	II		5120.4373.1
6	Medical Version (M5)	Screw/PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	II		5120.4374.1
2	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.0301.1
4	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.0303.1
6	Medical Version (M5)	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	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 terminals 6.3 x 0.8 mm	II		5120.1300.1
2	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	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 terminals 6.3 x 0.8 mm	II		5120.1303.1
6	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.1304.1

Rated Current [A]	Filter-Type	Mounting	Mounting side	Terminal	Protection Class	V-Lock	Order Number
10	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	II		5120.1306.1
2	Bleed Resistor Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2201.0
4	Bleed Resistor Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2203.0
6	Bleed Resistor Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2204.0
10	Bleed Resistor Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2206.0
15	Bleed Resistor Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I		5120.2207.0
15	Bleed Resistor Version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	I	●	5120.2207.0.21
10	Bleed Resistor Version	Screw-on/Rivet	Front-/Rear-Side	Solder terminals	I		5120.0216.0

▌Most Popular.

Availability for all products can be searched real-time: https://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

Variants with plastic flange are all V-Lock versions.

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, 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
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
IEC Connector C15 for hot conditions 120°C, Rewireable, Straight	4781
IEC Connector C15 for hot conditions 120°C, Rewireable, Angled	4784

Connector further types to 5120 ...

Mating Outlets/Connectors shuttered

Power Cord Overview complete

VAC13KS, Overview, V-Lock cord retaining, diverse Connector IEC C13, diverse, black	VAC13KS
Power cord with IEC connector C17, V-Lock, straight	VAC17KS

Power Cord further types to 5120

25.10.2018

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