IEC Appliance Inlet C14 with Filter, Line Switch 1- or 2-pole, Front or Rear Side Mounting

Screw-on Version
from front side

Snap-in version
from front side

Screw-on Version
from front side, protection class II

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
- 3 Functions :
  Appliance Inlet protection class I or II , Line Switch 1- or 2-pole , Line filter in standard and medical version
- Quick connect terminals 6.3 x 0.8 mm

Unique Selling Proposition
- Compact power entry module
- Available in white or black
- Switch for high inrush current
- V-Lock cord retaining

Characteristics
- Compact design with optimal shielding
  Rear side mounting for efficient costsaving assembly
- All single elements are already wired
- Line switch non-illuminated or illuminated
- Universal line filter for standard applications
- Ideal for application with high transient loads
- 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
- Solder terminals
- Other rocker marking
- Capacitance CX1

References
Alternative: version without line filter   DC11
Substitute for type   KFB1; KFB2

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

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	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
Ratings UL/CSA	1 - 10 A @ Ta 40 °C / 125 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)	Line Switch	Rocker switch 1 or 2 pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical Details
Allowable Operation Temperature	-25 °C to 85 °C	Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
Climatic Category	25/085/21 acc. to IEC 60068-1		
IP-Protection	from front side IP 40 acc. to IEC 60529	MTBF	> 1'900'000 h acc. to MIL-HB-217 F
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		
Panel Thickness S	Screw: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1 mm to 3 mm		
Material: Housing	Thermoplastic, black / white, UL 94V-0		

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: DC12

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40001522
	UL Approvals	UL	UL File Number: E72928
	CQC Approvals	CQC	CCC Certificate Number: CQC14001117747

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
IEC	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
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 technologyequipment.
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	MicrositeV-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]
Screw-on mounting from front side
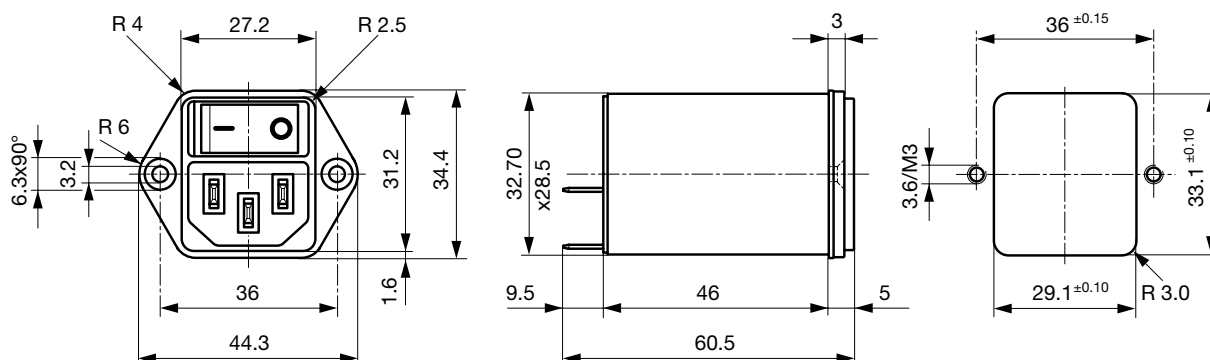
Screw-On Version from rear side (metal flange)
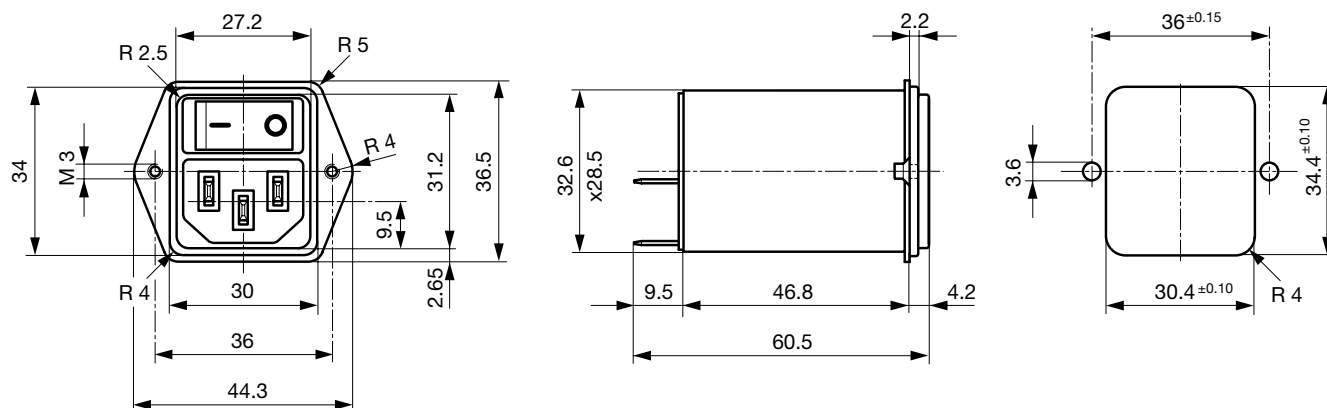
Snap-in mounting from front side
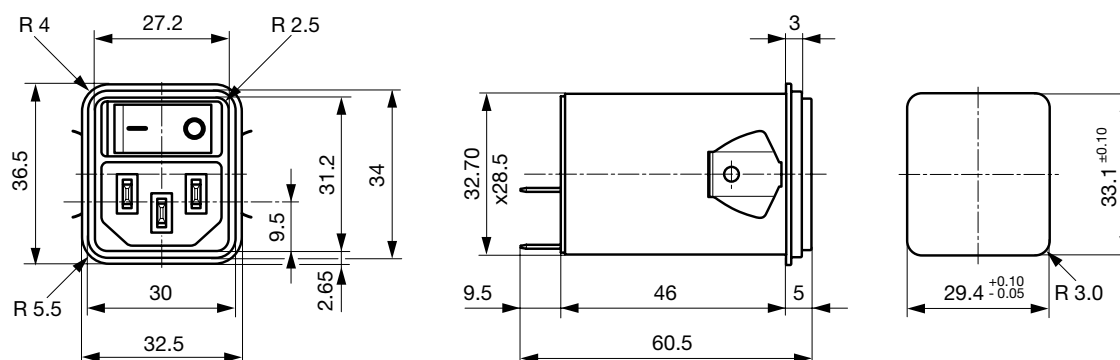
Screw-on mounting from front side (protection class II)

Screw-on version from rear side (protection class II)

Snap-in mounting from front side (protection class II)

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 10	100	2.2	1
2	Standard Version	2 x 4	100	2.2	1
4	Standard Version	2 x 1.5	100	2.2	1
6	Standard Version	2 x 0.8	100	2.2	1
10	Standard Version	2 x 0.3	100	2.2	1
1	Medical Version (M5)	2 x 10	100	-	1
2	Medical Version (M5)	2 x 4	100	-	1
4	Medical Version (M5)	2 x 1.5	100	-	1
6	Medical Version (M5)	2 x 0.8	100	-	1
10	Medical Version (M5)	2 x 0.3	100	-	1
1	Medical Version (M80)	2 x 10	100	0.47	1
2	Medical Version (M80)	2 x 4	100	0.47	1
4	Medical Version (M80)	2 x 1.5	100	0.47	1
6	Medical Version (M80)	2 x 0.8	100	0.47	1
10	Medical Version (M80)	2 x 0.3	100	0.47	1

Diagrams

Standard filter 1-pole

1) Line
2) Load

Standard filter 2-pole

1) Line
2) Load
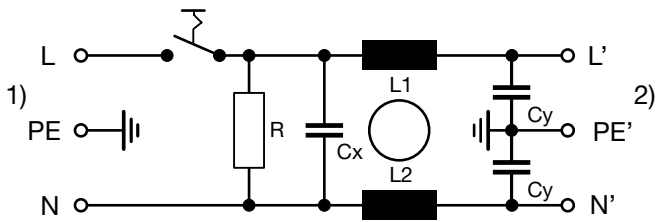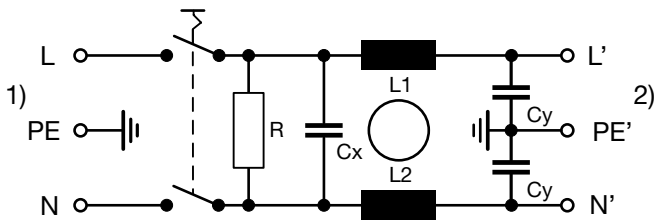
Medical filter 1-pole (M5)

1) Line
2) Load

Medical filter 2-pole (M5)

1) Line
2) Load
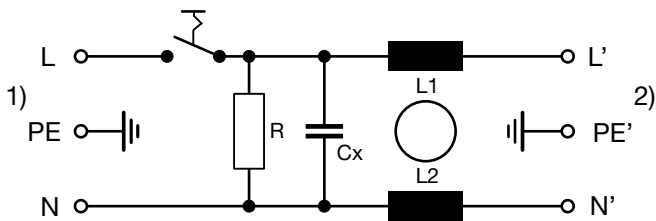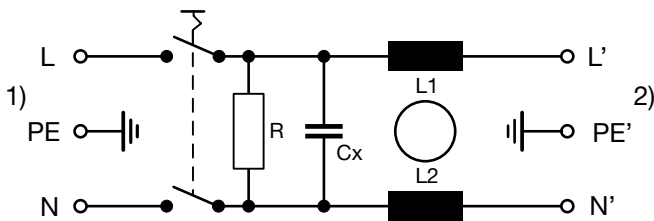
Standard filter 2-pole illuminated

1) Line
2) Load
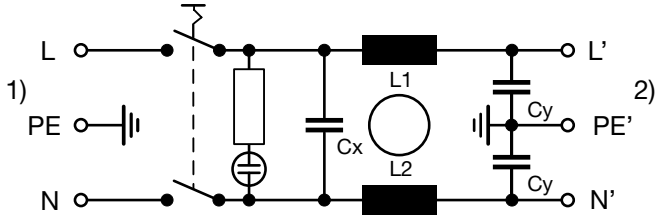
Medical Filter 2-pole (M5) illuminated

1) Line
2) Load
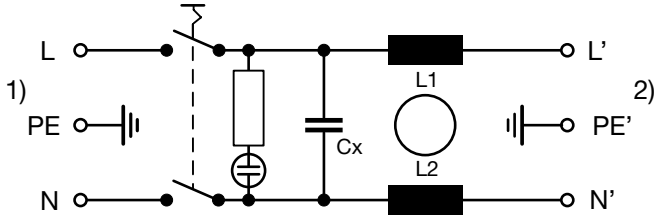
Medical filter 2-pole (M5) protection class II

1) Line
2) Load
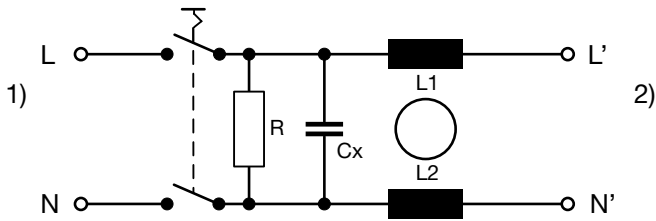
Attenuation Loss

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

Standard version

1 A
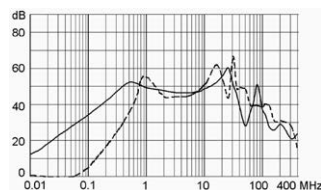
2 A
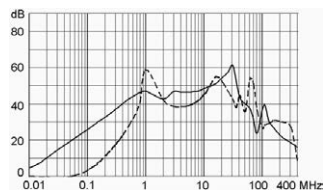
4 A
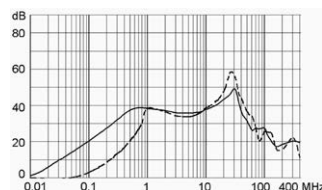
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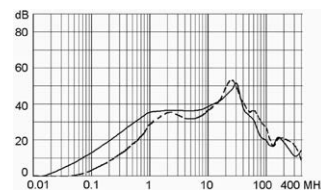
10 A
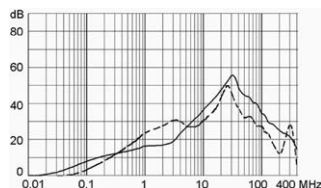
Medical version (M5)

1 A

2 A
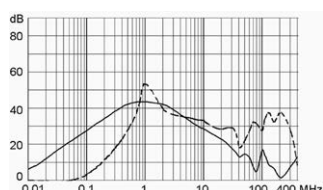
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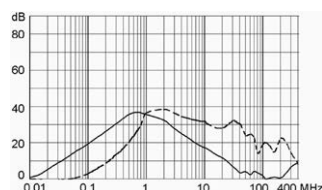
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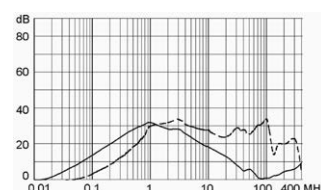
10 A
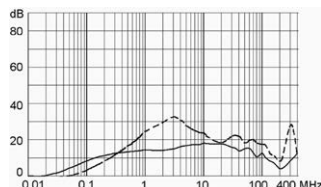
All Variants

Rated current	Filter-Type	Panel mounting	Mounting side	Line Switch	Illumination	Color	Pro-tection	V-Lock	Order Number	
1	Standard Version	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.1102.103	
2	Standard Version	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.2102.103	
4	Standard Version	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.3102.103	
6	Standard Version	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.4102.103	
10	Standard Version	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.5102.103	
1	Standard Version	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.1102.101	
2	Standard Version	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.2102.101	▮
4	Standard Version	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.3102.101	▮
6	Standard Version	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.4102.101	▮
10	Standard Version	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.5102.101	▮
1	Standard Version	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.1102.003	
2	Standard Version	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.2102.003	
4	Standard Version	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.3102.003	
6	Standard Version	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.4102.003	▮

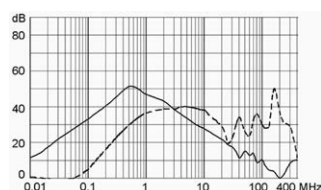| Rated current	Filter-Type	Panel mounting	Mounting side	Line Switch	Illumination	Color	Pro-tection	V-Lock	Order Number
10	Standard Version	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.5102.003
1	Standard Version	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.1102.001
2	Standard Version	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.2102.001
4	Standard Version	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.3102.001
6	Standard Version	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.4102.001
10	Standard Version	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.5102.001
1	Standard Version	Screw	Rear Side	1-pole	non-illuminated	black	I	●	DC12.1102.203
2	Standard Version	Screw	Rear Side	1-pole	non-illuminated	black	I	●	DC12.2102.203
4	Standard Version	Screw	Rear Side	1-pole	non-illuminated	black	I	●	DC12.3102.203
6	Standard Version	Screw	Rear Side	1-pole	non-illuminated	black	I	●	DC12.4102.203
10	Standard Version	Screw	Rear Side	1-pole	non-illuminated	black	I	●	DC12.5102.203
1	Standard Version	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.1102.201
2	Standard Version	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.2102.201
4	Standard Version	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.3102.201
6	Standard Version	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.4102.201
10	Standard Version	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.5102.201
1	Medical Version (M5)	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.1202.103
2	Medical Version (M5)	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.2202.103
4	Medical Version (M5)	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.3202.103
6	Medical Version (M5)	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.4202.103
10	Medical Version (M5)	Snap-in	Front Side	1-pole	non-illuminated	black	I	●	DC12.5202.103
1	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.1202.101
1	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	II	●	DC12.1202.121
1	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	white	II	●	DC12.1202.131
2	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.2202.101
2	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	II	●	DC12.2202.121
2	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	white	II	●	DC12.2202.131
4	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.3202.101
4	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	II	●	DC12.3202.121
4	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	white	II	●	DC12.3202.131
6	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.4202.101
6	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	II	●	DC12.4202.121
6	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	white	II	●	DC12.4202.131
10	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	I	●	DC12.5202.101
10	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	black	II	●	DC12.5202.121
10	Medical Version (M5)	Snap-in	Front Side	2-pole	non-illuminated	white	II	●	DC12.5202.131
6	Medical Version (M5)	Snap-in	Front Side	2-pole	illuminated green	black	I	●	DC12.4232.101
1	Medical Version (M5)	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.1202.003
2	Medical Version (M5)	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.2202.003
4	Medical Version (M5)	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.3202.003
6	Medical Version (M5)	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.4202.003
10	Medical Version (M5)	Screw	Front Side	1-pole	non-illuminated	black	I	●	DC12.5202.003
1	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.1202.001
1	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	II	●	DC12.1202.021
1	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	white	II	●	DC12.1202.031
2	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.2202.001
2	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	II	●	DC12.2202.021
2	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	white	II	●	DC12.2202.031

Rated current	Filter-Type	Panel mounting	Mounting side	Line Switch	Illumination	Color	Pro-tection	V-Lock	Order Number
4	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.3202.001
4	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	II	●	DC12.3202.021
4	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	white	II	●	DC12.3202.031
6	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.4202.001
6	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	II	●	DC12.4202.021
6	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	white	II	●	DC12.4202.031
10	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	I	●	DC12.5202.001
10	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	black	II	●	DC12.5202.021
10	Medical Version (M5)	Screw	Front Side	2-pole	non-illuminated	white	II	●	DC12.5202.031
1	Medical Version (M5)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.1202.201
2	Medical Version (M5)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.2202.201
4	Medical Version (M5)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.3202.201
6	Medical Version (M5)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.4202.201
10	Medical Version (M5)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.5202.201
1	Medical Version (M80)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.1602.201
2	Medical Version (M80)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.2602.201
4	Medical Version (M80)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.3602.201
6	Medical Version (M80)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.4602.201
10	Medical Version (M80)	Screw	Rear Side	2-pole	non-illuminated	black	I	●	DC12.5602.201

▌ Most Popular.

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

Packaging unit   10 Pcs

Accessories

Description

Wire Harness
Wire harness for SCHURTER products

Cord retaining kits
Cord retaining strain relief

Flat head, A	4700.0001
Countersunk, B	4700.0002

Mating Outlets/Connectors

Category / Description

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 DC12	...

Interconnection Cord Overview complete

Cord Sets 10 A, Interconnection, 1.0 m, Connector IEC C13, H05VV-F3G1.0, black	6007.0212
Cord Sets 10 A, Interconnection, 2.0 m, Connector IEC C13, H05VV-F3G1.0, black	6007.0214
Interconnection Cord further types to DC12	

Power Supply Cord Overview complete

Cord Sets 10 A, Europlug, 2.0 m, Connector IEC C13, H05VV-F3G0.75, black	6004.0114
Cord Sets 10 A, Europlug, 2.5 m, Connector IEC C13, H05VV-F3G1.0, black	6004.0215
Cord Sets 10 A, Europlug, 2.5 m, Connector IEC C13, H05VV-F3G1.0, black	6003.0215
Cord Sets 10 A, Europlug, Black, 2.5 m, H05VV-F 3G1,0mm2, Connector IEC C13, 002500 mm, H05VV-F3G1.0, black	6004.0225
Cord Sets 10 A, diverse, Black, 5.0 m, H05VV-F 3G1,0mm2, Connector IEC C13, 002500 mm, H05VV-F3G1.0, black	6052.0026
Power Supply Cord further types to DC12	...

Mating Outlets/Connectors shuttered

Power Cord Overview complete

VAC13KS, Overview, diverse Connector IEC C13, cord end:	VAC13KS
Power cord with IEC connector C17, V-Lock, straight	VAC17KS
Power Cord further types to DC12	

26.01.2018