IEC Appliance Inlet C20 with Filter, ECO design, front or rear side Mounting



Screw-on or rivet mounting from front or rear side
Screw-on mounting



Screw-on mounting from rear side, integrated thread
Screw-on mounting



Snap-in mounting from front side
Snap-in version

C20

70° C

See below:
Approvals and Compliances

Description

- Panel mount :
  Screw-on version from front or rear side, snap-in version front side
- 2 Functions :
  Appliance Inlet Protection class I , Line filter in standard and medical version
- Quick connect terminals

Unique Selling Proposition

- ECO design
- Metal flange for optimal shielding
- Compact design
- V-Lock cord retaining

Characteristics

- Optimal shielding due to completely closed filter case, unpotted
  Suitable for assembly in metal plated plastic housings
- Version with class X1 and X2 (standard version) capacitors
- Universal line filter for standard applications
- Suitable for use in medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP)
  For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

Other versions on request

- Solder terminals
- Medical Version (M80)
- Capacity CX 330 nF

References

Fits to type: 4790; 4795 0104; 0104U; 1651; 1652; 1654; 4790; 4795; VAC19KS
Alternative: version without line filter 4793; 4798

Weblinks

pdf data sheet, html datasheet, General Product Information, Approvals, Distributor-Stock-Check, Accessories, 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	16 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	20 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)
Impulse Withstand Voltage	> 2.5 kV between L-N (CX2) > 4 kV between L-N (CX1) > 5 kV between L/N-PE (Cy2) voltage (1.2/50 µs)
Allowable Operation Temperature	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
IP-Protection	front side IP40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminal 6.3 x 0.8 mm
Panel Thickness S	Screw: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 0.8 mm to 3 mm (all steps with one variant)
Material	Themoplast / steel tin-plated, black / metallic, UL 94V-0

Appliance inlet/-outlet	C20 acc. to IEC 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16 A, Protection Class I
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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

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

Approval Reference Type: 5130

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 104884
	UL Approvals	UL	UR File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
	Designed according to	IEC 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links
	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
	Designed according to	UL 1283	Electromagnetic interference filters
	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
	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
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
	Suitable for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

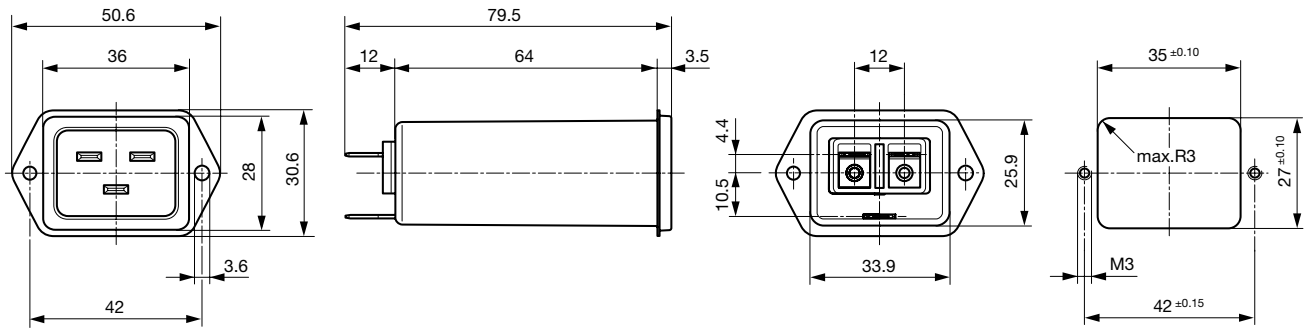
Compliances

The product complies with following Guide Lines

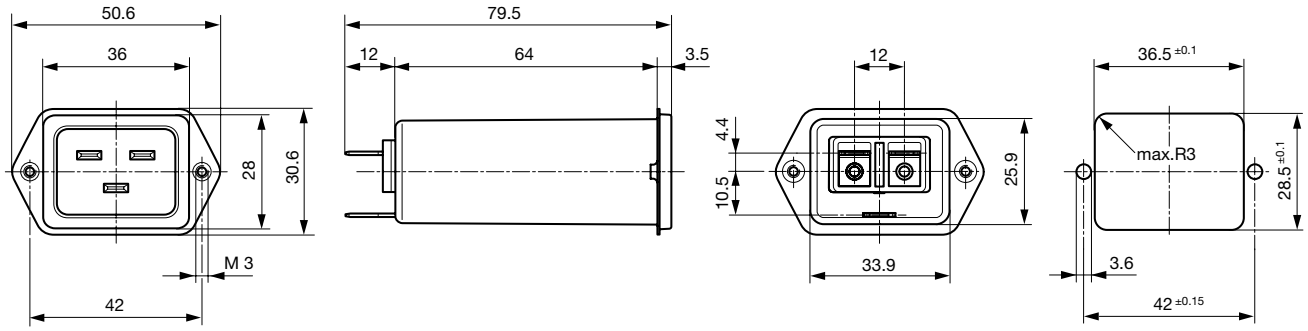
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UKCA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	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 (1 MOOP, 1 MOPP)

Dimensions [mm]

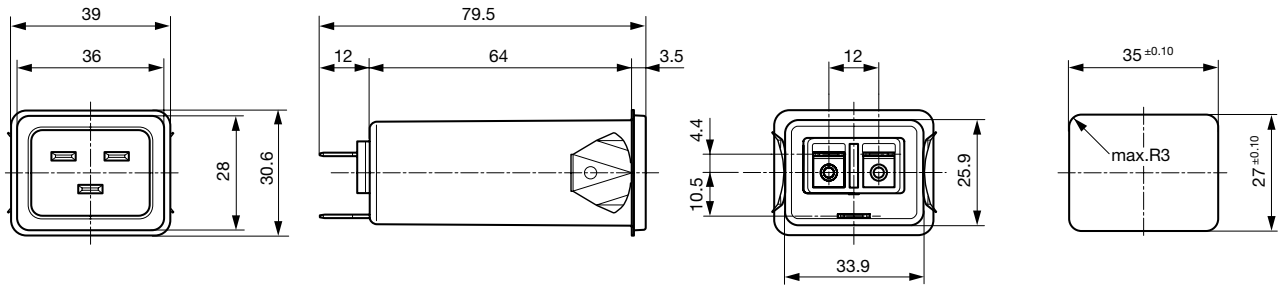
Front or rear side mounting for screws with nuts or blind rivets



Rear side mounting with pre-formed, threaded holes for M3 screws



Snap-in mounting from front side

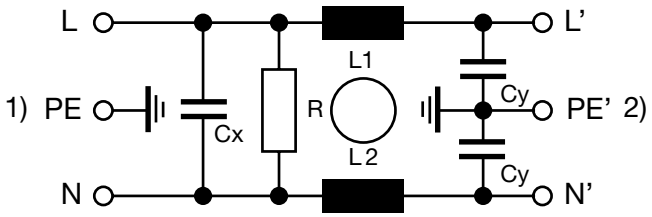


Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
16	Standard version	2 x 0.6	100	2.2	1
16	Standard version	2 x 0.6	330	2.2	1
20	Standard version	2 x 0.3	100	2.2	1
20	Standard version	2 x 0.3	330	2.2	1
16	Medical Version (M5)	2 x 0.6	100	-	1
20	Medical Version (M5)	2 x 0.3	100	-	1

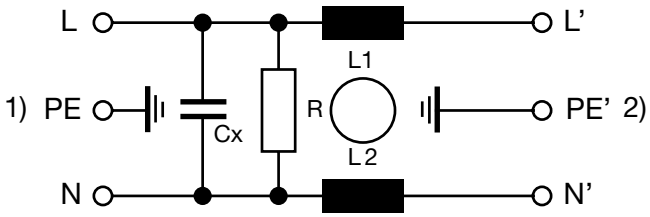
Diagrams

Standard version



1) Line
2) Load

Medical Version (M5)



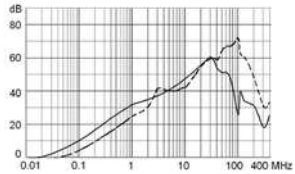
1) Line
2) Load

Attenuation Loss

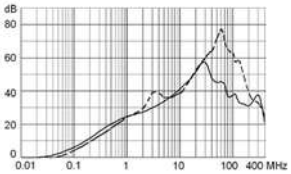
- - - - 50Ω differential mode _____ 50Ω common mode

Standard version

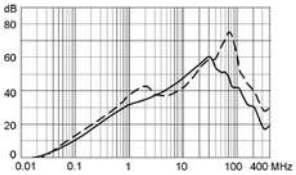
16 A
Cx 100nF



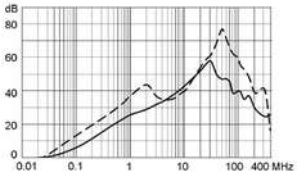
20 A
Cx 100nF



16 A
Cx 330nF

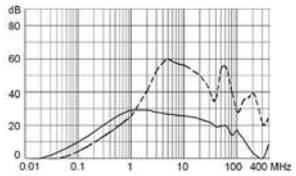


20 A
Cx 330nF

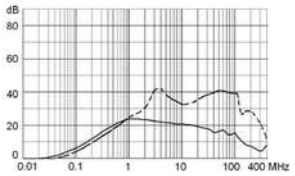


Medical version (M5)

16 A
Cx 100nF



20 A
Cx 100nF



All Variants

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Terminal	Capacitor	V-Lock	Order Number
16	16	Standard version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.2000
16	20	Standard version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.2001
16	16	Standard version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.2100
16	20	Standard version	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.2101
16	16	Standard version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 330nF		5130.0600
16	20	Standard version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 330nF		5130.0601
16	16	Standard version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.0000
16	16	Standard version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF	●	5130.0000.21
16	20	Standard version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.0001
16	16	Standard version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.0100
16	20	Standard version	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.0101
16	16	Standard version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.1000
16	20	Standard version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.1001
16	16	Standard version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.1100
16	20	Standard version	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.1101
16	20	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals	X1 100nF		5130.2301
16	16	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.2200
16	20	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.2201
16	16	Medical Version (M5)	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.2300
16	16	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.0200
16	20	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.0201
16	16	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.0300
16	16	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF	●	5130.0300.21
16	20	Medical Version (M5)	Screw-on/Rivet	Front Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.0301
16	16	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.1200
16	20	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	X2 100nF		5130.1201
16	16	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.1300

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Terminal	Capacitor	V-Lock	Order Number
16	20	Medical Version (M5)	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	X1 100nF		5130.1301

Most Popular.

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

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

Packaging unit 20 Pcs

Accessories

	Description	
	Wire_Harness Wire harness for SCHURTER products	
	Assorted_Covers Rear Cover	
		0859.0047
	RC320 Rear Cover for Power Entry Module	
	Cord_retaining_kits Cord retaining strain relief	
	Flat head, L	4700.0011

Mating Inlets/Plugs



Connector Overview complete

Category / Description	
4795, Mounting: Power Cord, Cable Connector: IEC C19	4795
4790, Mounting: Power Cord, Screw Connector: IEC C19	4790

Mating Outlets/Connectors



Connector Overview complete

4795, Mounting: Power Cord, Cable Connector: IEC C19	4795
4790, Mounting: Power Cord, Screw Connector: IEC C19	4790
0104U, Mounting: Power Supply Cord, Screw clamps Connector: IEC C19	0104U

Mating Outlets/Connectors shuttered



Power Cord Overview complete

VAC19KS, Overview, V-Lock cord retaining, diverse Connector IEC C19, diverse, black	VAC19KS

02.02.2023

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.