

IEC Appliance Inlet C20 with Filter, Line Switch 2-pole

Standard- or Medical-Filter



V-Lock



C20



70° C

**Description**

- Panel Mount:
Screw-on mounting from front side
- 3 Functions:
Appliance Inlet Protection class I, Line Switch 2-pole, Line filter in standard and medical version
- Quick connect terminals 6.3 x 0.8 mm

Approvals

- VDE Certificate Number: 40001522
- UL File Number: E72928

Characteristics

- All single elements are already wired
- Line switch non-illuminated
Illuminated version on request
- With EMC-shield
- Ideal for application with high transient loads
- Suitable for use in equipment according to IEC 60950

Other versions on request

- Line switch, illuminated
- Line switch with other rocker marking
- Variant with notch for V-Lock mating Cordsets

ReferencesAlternative: version without line filter [EC11](#)

Alternative: Standard version

Weblinks

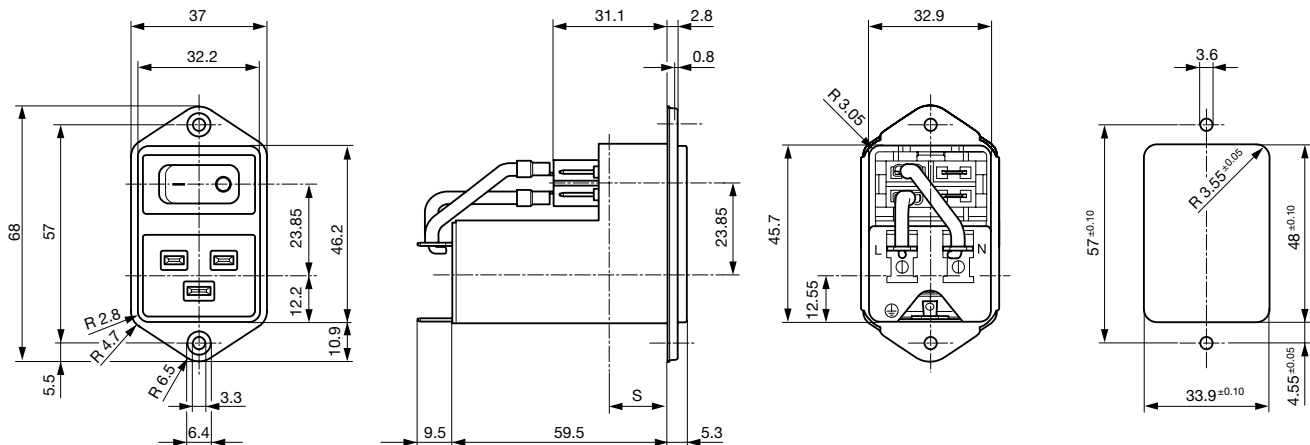
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Wire Harnessing](#), [Mounting instruction](#), [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	12 - 16 A @ Ta 40 °C / 250 VAC; 50 Hz	Appliance-Inlet/-Outlet	C20 acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16 A, Protection Class I
Ratings UL/CSA	12 - 20 A @ Ta 40 °C / 125 VAC; 60 Hz	Line Switch	Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical Details
Leakage Current	standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)	Line Filter	Standard and Medical Version, IEC 60939, IEC 60601-1, UL 1283, UL 544, EN 133 200, CSA C22.2 no. 8 Technical Details
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)	MTBF	> 1'700'000 h acc. to MIL-HB-217 F
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 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		
Material: Housing	Thermoplastic, black, UL 94V-0		

Dimensions



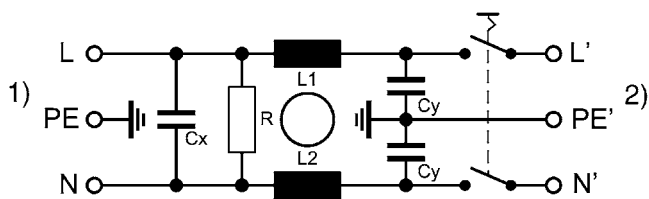
Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
12	Standard Version	2 x 0.8	100	2.2	1
16	Standard Version	2 x 0.6	100	2.2	1
20	Standard Version	2 x 0.3	100	2.2	1
12	Medical Version (M5)	2 x 0.8	100	-	1
16	Medical Version (M5)	2 x 0.6	100	-	1
20	Medical Version (M5)	2 x 0.3	100	-	1

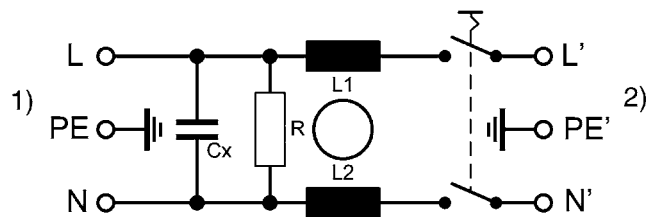
Diagrams

Standard version

Medical version (M5)



1) Line
2) Load



1) Line
2) Load

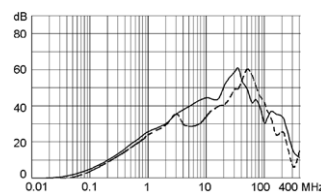
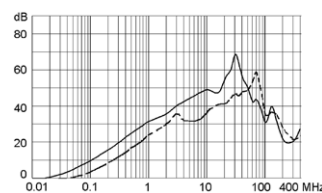
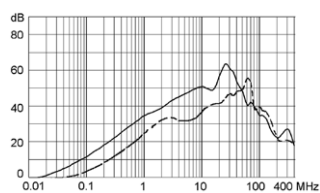
Attenuation Loss

Standard version

12 A

16 A

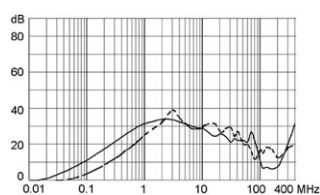
20 A



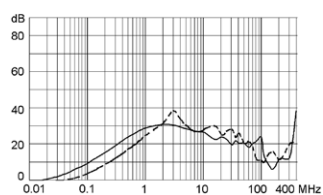
--- differential mode — common mode

Medical version (M5)

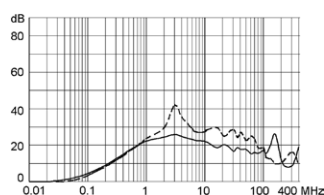
12 A



16 A



20 A



Variants

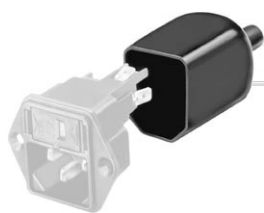
Rated Current [A]	Filter-Type	Internally wired	Line Switch	Order Number
12	Standard Version	●	2-pole	EC12.3101.001
12	Standard Version	●	2-pole	EC12.3101.001.21
16	Standard Version	●	2-pole	EC12.2101.001
20	Standard Version	●	2-pole	EC12.1101.001
12	Standard Version		2-pole	EC12.3101.002
16	Standard Version		2-pole	EC12.2101.002
20	Standard Version		2-pole	EC12.1101.002
12	Medical Version (M5)	●	2-pole	EC12.3201.001
16	Medical Version (M5)	●	2-pole	EC12.2201.001
20	Medical Version (M5)	●	2-pole	EC12.1201.001
12	Medical Version (M5)		2-pole	EC12.3201.002
16	Medical Version (M5)		2-pole	EC12.2201.002
20	Medical Version (M5)		2-pole	EC12.1201.002

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 20 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



[Connector Overview complete](#)

IEC Connector C19, Rewireable, Straight

0104U

IEC Connector C19, Rewireable, Angled

4790

IEC Connector C19, Rewireable, Straight

4795

[Connector further types to EC12](#)



[Power Supply or Interconnection Cord Overview complete](#)

Diverse Power Supply and Interconnection Cords 16 A

Cord Sets 15 A

[Power Supply or Interconnection Cord further types to EC12](#)