

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

Standard- or Medical-Filter



new



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



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



Snap-in mounting from front side  
Snap-In Version

C20  
  
70° C



## Description

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

## Approvals

- VDE Certificate Number: 104884
- UL File Number: E72928

## 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
- Designed for standard and medical applications
- 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
- Medical version M80
- Capacity CX 330 nF

## References

Fits to type: [Cord Sets 15 A; 4790; 4795](#) [Cord Sets 15 A; 0104; 0104U; 1651; 1652; 1654; 4790; 4795; VAC13KS](#)

Alternative: Standard version

Alternative: version without line filter [4793; 4798](#)

## Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Wire Harnessing](#), [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.

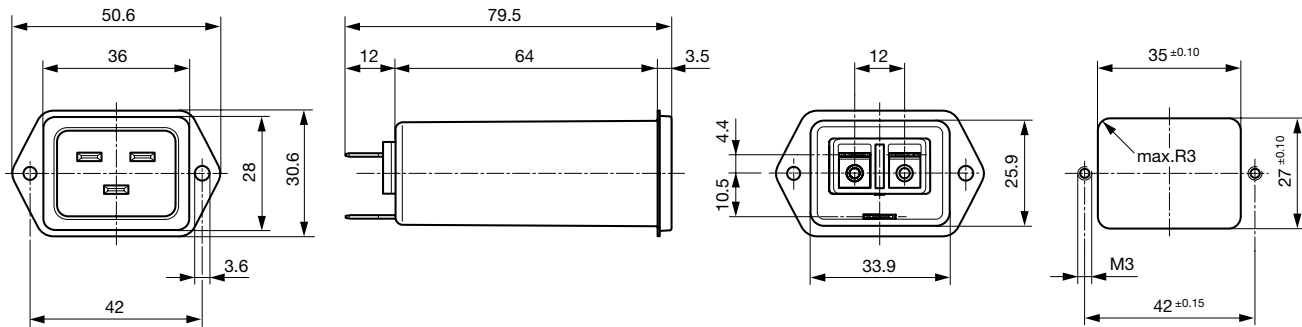
## Technical Data

|                           |                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------|
| Ratings IEC               | 16A @ Ta 40 °C / 250VAC; 50Hz                                                                                  |
| Ratings UL/CSA            | 20A @ Ta 40 °C / 250VAC; 60Hz                                                                                  |
| Leakage Current           | standard < 0.5 mA (250 V / 60 Hz)<br>medical < 5 µA (250 V / 60 Hz)                                            |
| Dielectric Strength       | > 1.7 kVDC between L-N<br>> 2.7 kVDC between L/N-PE<br>Test voltage (2 sec)                                    |
| Impulse Withstand Voltage | > 2.5 kV between L-N (CX2)<br>> 4 kV between L-N (CX1)<br>> 5 kV between L/N-PE (Cy2)<br>voltage (1.2/50 µs)   |
| 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 terminal 6.3 x 0.8 mm                                                                            |
| Panel Thickness s         | Screw: max 8 mm<br>Mounting screw torque max 0.5 Nm<br>Snap-in: 0.8 mm to 3 mm<br>(all steps with one variant) |
| Material: Housing         | Thermoplast / steel tin-plated, black / metallic, UL 94V-0                                                     |

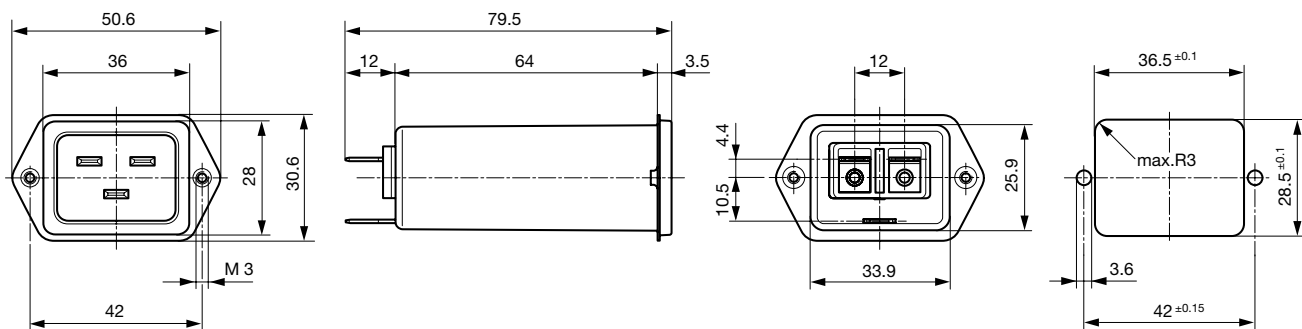
|                         |                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Appliance-Inlet/-Outlet | C20 acc. to IEC 60320,<br>UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16A, Protection Class I |
| Line Filter             | Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8<br><a href="#">Technical Details</a>                  |
| MTBF                    | > 3'000'000 h acc. to MIL-HB-217 F                                                                                      |

**Dimensions**

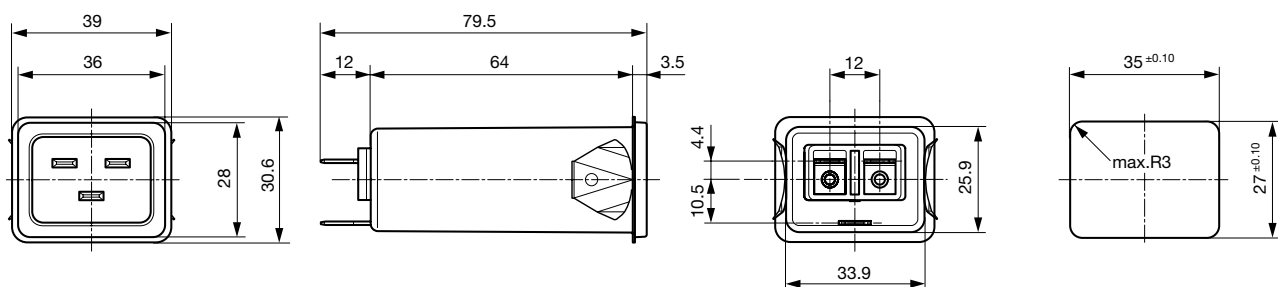
Front or rear side mounting for screws with nuts or blind rivets



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



Snap-in mounting from front side

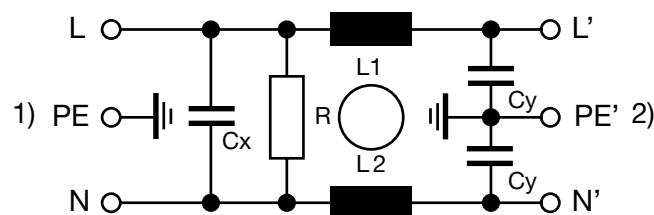


## Technical Data of Filter-Components

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

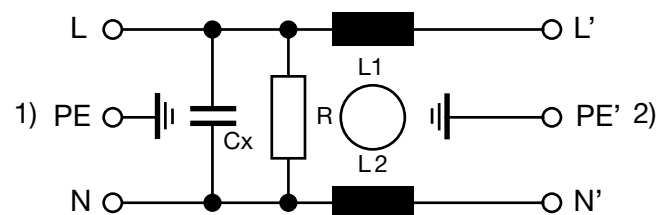
## Diagrams

Standard or medical version (M80)



1) Line  
2) Load

Medical version (M5)

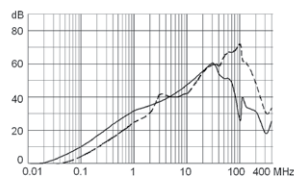


1) Line  
2) Load

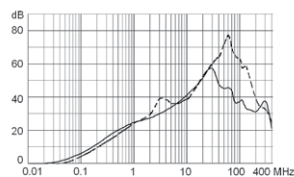
## Attenuation Loss

Standard version

16 A

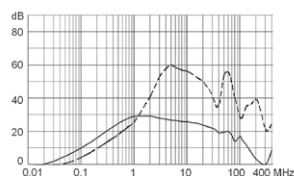


20 A

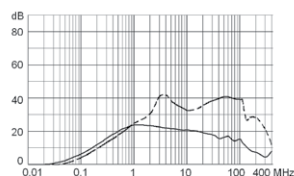


Medical version (M5)

16 A



20 A



--- differential mode    — common mode

## All Variants

| Rated Current<br>IEC [A] | Rated Current<br>UL [A] | Filter-Type      | Panel mounting | Mounting side | Terminal                          | Capacitor | Order Number |
|--------------------------|-------------------------|------------------|----------------|---------------|-----------------------------------|-----------|--------------|
| 16                       | 16                      | Standard Version | Snap-in        | Front Side    | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.2000    |
| 16                       | 20                      | Standard Version | Snap-in        | Front Side    | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.2001    |
| 16                       | 16                      | Standard Version | Snap-in        | Front Side    | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.2100    |
| 16                       | 20                      | Standard Version | Snap-in        | Front Side    | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.2101    |
| 16                       | 16                      | Standard Version | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.0000    |
| 16                       | 16                      | Standard Version | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.0000.21 |
| 16                       | 20                      | Standard Version | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.0001    |
| 16                       | 16                      | Standard Version | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.0100    |
| 16                       | 20                      | Standard Version | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.0101    |
| 16                       | 16                      | Standard Version | Screw          | Rear Side     | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.1000    |
| 16                       | 20                      | Standard Version | Screw          | Rear Side     | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.1001    |

| Rated Current<br>IEC [A] | Rated Current<br>UL [A] | Filter-Type          | Panel mounting | Mounting side | Terminal                          | Capacitor | Order Number |
|--------------------------|-------------------------|----------------------|----------------|---------------|-----------------------------------|-----------|--------------|
| 16                       | 16                      | Standard Version     | Screw          | Rear Side     | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.1100    |
| 16                       | 20                      | Standard Version     | Screw          | Rear Side     | Quick connect terminals 6.3 x 0.8 | 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 | X2 100nF  | 5130.2200    |
| 16                       | 20                      | Medical Version (M5) | Snap-in        | Front Side    | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.2201    |
| 16                       | 16                      | Medical Version (M5) | Snap-in        | Front Side    | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.2300    |
| 16                       | 16                      | Medical Version (M5) | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.0200    |
| 16                       | 20                      | Medical Version (M5) | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.0201    |
| 16                       | 16                      | Medical Version (M5) | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.0300    |
| 16                       | 16                      | Medical Version (M5) | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.0300.21 |
| 16                       | 20                      | Medical Version (M5) | Screw-on/Rivet | Front Side    | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.0301    |
| 16                       | 16                      | Medical Version (M5) | Screw          | Rear Side     | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.1200    |
| 16                       | 20                      | Medical Version (M5) | Screw          | Rear Side     | Quick connect terminals 6.3 x 0.8 | X2 100nF  | 5130.1201    |
| 16                       | 16                      | Medical Version (M5) | Screw          | Rear Side     | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.1300    |
| 16                       | 20                      | Medical Version (M5) | Screw          | Rear Side     | Quick connect terminals 6.3 x 0.8 | X1 100nF  | 5130.1301    |

Most Popular.

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

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.

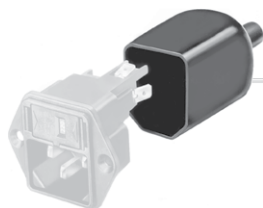
**Packaging unit** 20 Pcs

## Accessories

### Description



**Wire Harness**  
Wire harness for SCHURTER products



**Assorted Covers**  
Rear Cover

0859.0047



**Cord retaining kits**  
Cord retaining strain relief

Flat head, L

4700.0011

## Mating Inlets/Plugs

### Category / Description



[Connector Overview complete](#)

|                                         |      |
|-----------------------------------------|------|
| IEC Connector C19, Rewireable, Straight | 4795 |
| IEC Connector C19, Rewireable, Angled   | 4790 |

[Connector further types to 5130](#)

## Mating Outlets/Connectors



[Connector Overview complete](#)

|                                         |       |
|-----------------------------------------|-------|
| IEC Connector C19, Rewireable, Straight | 4795  |
| IEC Connector C19, Rewireable, Angled   | 4790  |
| IEC Connector C19, Rewireable, Straight | 0104U |

[Connector further types to 5130](#)

## Mating Outlets/Connectors shuttered



[Power Cord Overview complete](#)

|                                                                     |         |
|---------------------------------------------------------------------|---------|
| Overview Power Supply Cord with IEC Connector C13, V-Lock, straight | VAC13KS |
|---------------------------------------------------------------------|---------|

[Power Cord further types to 5130](#)