

IEC Appliance Inlet C14 with Filter, Increased Dielectric Strength



See below:
[Approvals and Compliances](#)

Description

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

Characteristics

- Compact design with optimal shielding
- All single elements are already wired
- Universal line filter for standard applications
 With enhanced surge withstand voltage
- For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

References

We recommend for new applications the type [5120](#)
 Last order date: 31.12.2014

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 | 1 - 10A @ Ta 40 °C / 250 VAC; 50Hz | Appliance inlet/-outlet | C14 acc. to IEC 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I |
| Ratings UL/CSA | 1 - 10A @ Ta 40 °C / 250 VAC; 60Hz | Line Filter | Standard version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details |
| Leakage Current | standard < 0.5 mA (250V / 60Hz) | MTBF | > 3'100'000h acc. to MIL-HB-217 F |
| Dielectric Strength | > 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec) | | |
| Impulse Withstand Voltage | > 4 kV between L-N (CX1) > 5 kV between L/N-PE | | |
| Allowable Operation Temperature | -25 °C to 85 °C | | |
| Climatic Category | 25/085/21 acc. to IEC 60068-1 | | |
| IP-Protection | from front side IP40 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 | | |

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: KFX

| Approval Logo | Certificates | Certification Body | Description |
|--|-------------------------------|--------------------|------------------------------------|
|  | VDE Approvals | VDE | Certificate Number: 40004665 (FGX) |
|  | UL Approvals | UL | UL File Number: E72928 (FGX) |

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 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

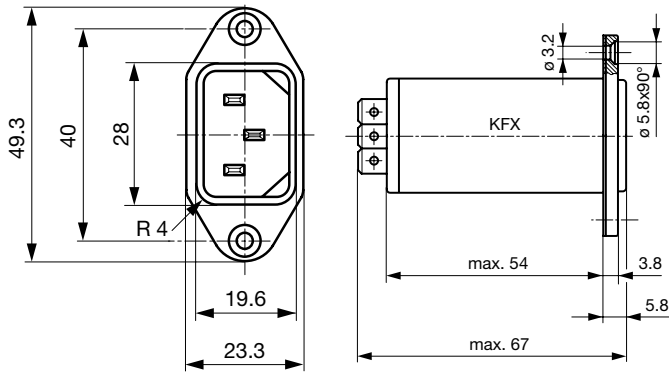
| Organization | Design | Standard | Description |
|--|--------------------------------|----------------|--|
|  | Designed for applications acc. | IEC/UL 62368-1 | IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment. |

Compliances

The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|--|-------------|--|
|  | 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 | 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 | 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. |
|  | | 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. |

Dimension [mm]



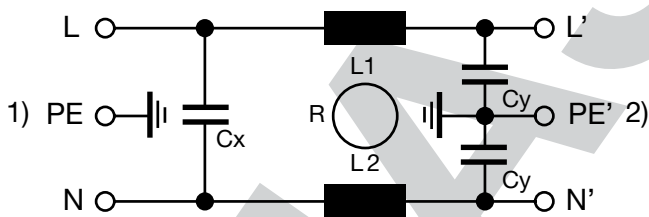
Panel cut-out

Technical Data of Filter-Components

| Rated Current [A] | Filter-Type | Inductances L [mH] | Capacitance CX [nF] | Capacitance CY [nF] |
|-------------------|-----------------------|--------------------|---------------------|---------------------|
| 1 | Medical Version (M80) | 2 x 10 | 47 | 2.2 |
| 1 | Medical Version (M5) | 2 x 10 | 47 | - |
| 2 | Medical Version (M5) | 2 x 4 | 47 | - |
| 4 | Medical Version (M5) | 2 x 1.5 | 47 | - |
| 6 | Medical Version (M5) | 2 x 0.8 | 47 | - |
| 10 | Medical Version (M5) | 2 x 0.3 | 47 | - |
| 1 | Standard version | 2 x 10 | 47 | 2.2 |
| 2 | Standard version | 2 x 4 | 47 | 2.2 |
| 4 | Standard version | 2 x 1.5 | 47 | 2.2 |
| 6 | Standard version | 2 x 0.8 | 47 | 2.2 |
| 10 | Standard version | 2 x 0.3 | 47 | 2.2 |

Diagrams

Standard version

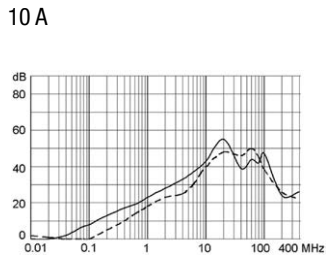
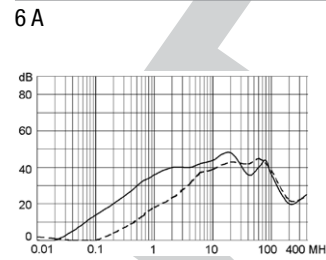
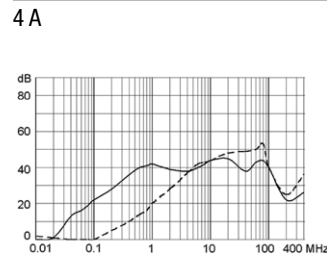
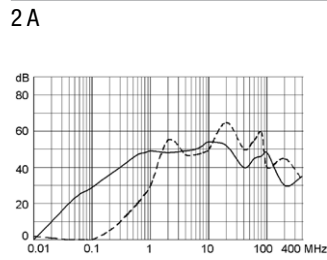
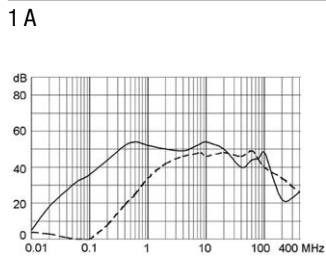


- 1) Line
- 2) Load

Attenuation Loss

--- 50Ω differential mode ____ 50Ω common mode

Standard version



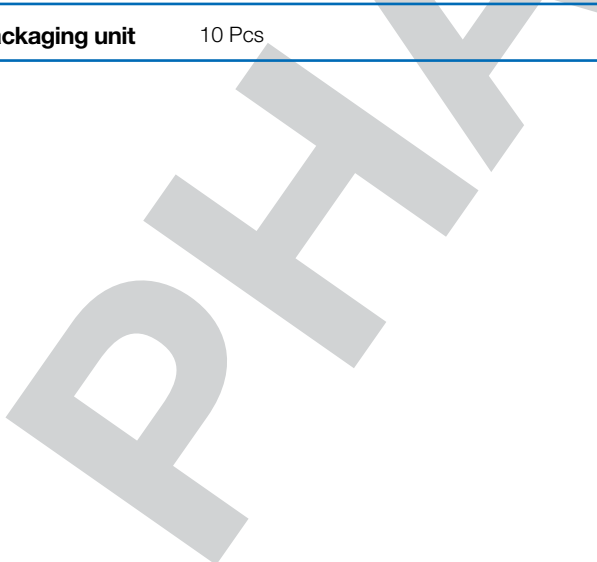
All Variants

| Type | Rated Current [A] | Filter-Type | CX Class | V-Lock | Order Number |
|------|-------------------|----------------------|----------|--------|---------------------------|
| KFX | 1 | Standard version | X1 | ● | 4300.5061 |
| KFX | 2 | Standard version | X1 | ● | 4300.5062 |
| KFX | 4 | Standard version | X1 | ● | 4300.5063 |
| KFX | 6 | Standard version | X1 | ● | 4300.5064 |
| KFX | 10 | Standard version | X1 | ● | 4300.5065 |
| KFX | 1 | Medical Version (M5) | X1 | ● | 4300.5101 |
| KFX | 2 | Medical Version (M5) | X1 | ● | 4300.5102 |
| KFX | 4 | Medical Version (M5) | X1 | ● | 4300.5103 |
| KFX | 6 | Medical Version (M5) | X1 | ● | 4300.5104 |
| KFX | 10 | Medical Version (M5) | X1 | ● | 4300.5105 |

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

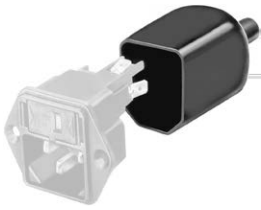
Suffix ".21" corresponds to the version with V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

Packaging unit 10 Pcs



Accessories

Description



Assorted Covers
 Rear Cover

0859.0048



Cord retaining kits
 Cord retaining strain relief

Countersunk, C

4700.0003

Mating Outlets/Connectors

Category / Description

Appliance Outlet Overview complete



4787, Mounting: Screw-on mounting, Appliance Outlet: IEC Solder terminals, 10 A, Suitable for appliances with protection class I

4787

4788, Mounting: Snap-in version, Appliance Outlet: IEC Solder terminals or quick connect terminals, 10 A, Suitable for appliances with protection class I

4788

IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal

5091

[Appliance Outlet further types to KFX](#)

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

4012 Mounting: Power Supply Cord, 3 x 1 mm², Screw clamps, Connector: IEC C13

4012

4300-06 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13

4300-06

4781 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C15

4781

[Connector further types to KFX](#)

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Mating Outlets/Connectors shuttered



Connector Overview complete

4783 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13

4783

[Connector further types to KFX](#)



[Power Cord Overview complete](#)

VAC13KS, Overview, V-Lock cord retaining, diverse Connector IEC C13, diverse, black

VAC13KS

[Power Cord further types to KFX](#)

PHASE-OUT