

IEC Appliance Inlet C14 with High Frequency Filter, X2Y Technology, ECO design, Front- or Rear Side Mounting



Screw or rivet fastening
from front or rear side



Screw-on mounting from rear side
(integrated thread)



Approvals and Compliances

Description

- Panel Mount :
Screw-on version from front or rear side
- 2 Functions :
Appliance Inlet , High frequency line filter as standard, industrial and medical version , Protection class I
- Quick connect terminals 6.3 x 0.8 mm

Unique Selling Proposition

- Filter for highest frequencies
- X2Y® Technology
- Double shielding for best filter performance
- Metal flange for optimal shielding

Characteristics

- Very compact filter for frequencies up to 1 GHz
Patented X2Y Technologie for broadband high frequency filtering
- Double shielding for best filter performance
One single filter design for the given current range
- Designed for standard, industrial and medical applications
Suitable for assembly in metal plated plastic housings
- Suitable for use in equipment according to IEC 60950/60601
Suitable for use in medical equipment according to IEC/UL 60601-1

Other versions on request

- Solder terminals
- Variant with notch for V-Lock mating Cordsets

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	10A @ Ta 40 °C / 250VAC; 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	15A @ Ta 40 °C / 250VAC; 60Hz	Line Filter	Standard, medical and industrial version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
Leakage Current	standard < 0.5mA (250 V / 60Hz) medical < 43/80 µA (250 V / 60 Hz)	MTBF	> 3'300'000h acc. to MIL-HB-217 F
Dielectric Strength	> 1.7kVDC between L-N > 2.7kVDC between L/N-PE Test voltage (2 sec)		
Allowable Operation Temperature	-25 °C to 85 °C		
Climatic Category	25/085/21 acc. to IEC 60068-1		
IP-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 0.5Nm		
Material: Housing	Thermoplast / steel tin-plated, black / metallic, 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: 5150

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40023426
	UL Approvals	UL	UL 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
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.
	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

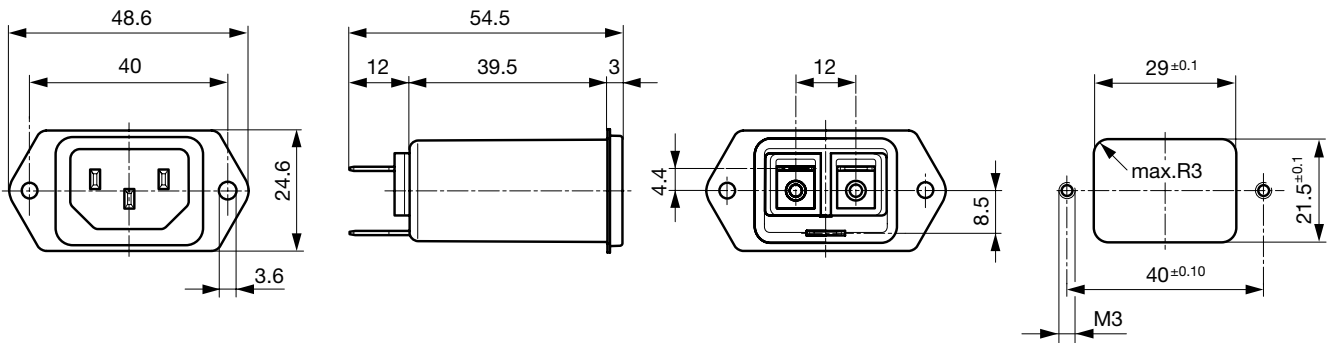
Compliances

The product complies with following Guide Lines

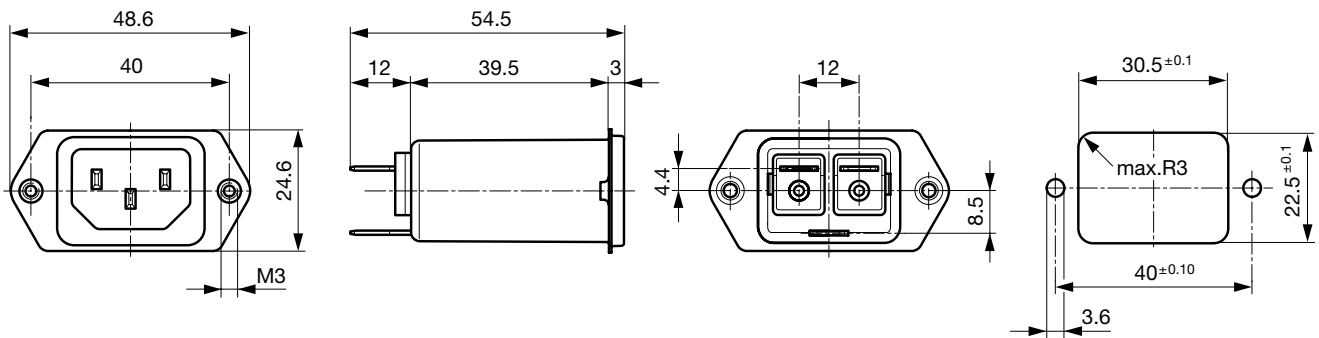
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	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	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.
	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

Dimension [mm]

Front or rear side mounting for screws with nuts or blind rivets (panel cutout for frontside mounting)



Rear side mounting with pre-formed, threaded holes for M3 screws (panel cutout for rear side mounting)

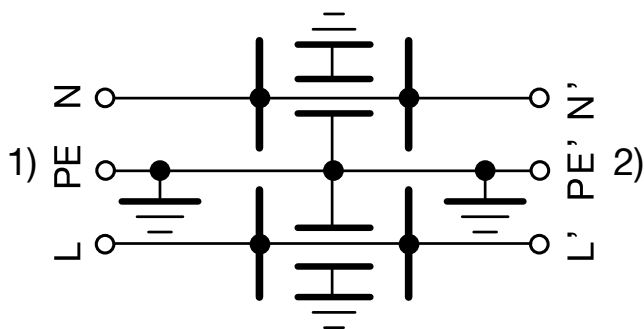


Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Capacitance CY [nF]	R [MΩ]
10	Standard Version	2.5	-
10	Standard Version with Bleed Resistor	2.5	1
10	Industrial Version	4.7	-
10	Medical Version (M80)	0.45	1

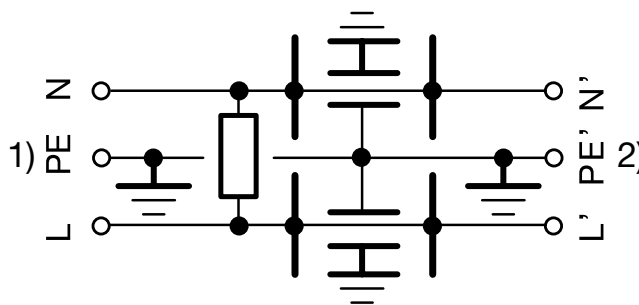
Diagrams

Standard and industrial version



1) Line
 2) Load

Medical M80 and standard version with bleed resistor



1) Line
 2) Load

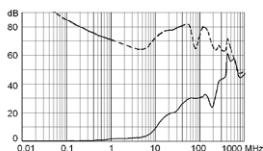
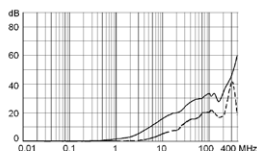
Attenuation Loss

Standard version

--- 50Ω differential mode ___ 50Ω common mode

CISPR 17 Test Method

Alternate Test Method

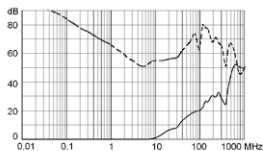
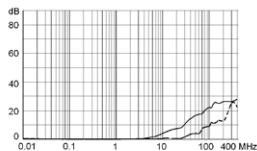


same attenuation loss with bleed resistor

Medical version (M80)

CISPR 17 Test Method

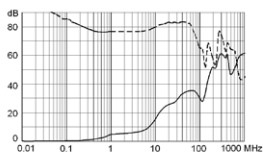
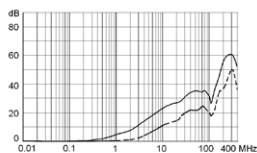
Alternate Test Method



Industrial version

CISPR 17 Test Method

Alternate Test Method



Comment about alternate test method
 see table of variants

All Variants

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Order Number
10	15	Standard Version	Screw-on/Rivet	Front-/Rear-Side	5150.0011.0
10	15	Standard Version	Screw	Rear Side	5150.0011.1
10	15	Standard Version with Bleed Resistor	Screw-on/Rivet	Front-/Rear-Side	5150.0021.0
10	15	Standard Version with Bleed Resistor	Screw	Rear Side	5150.0021.1
10	15	Industrial Version	Screw-on/Rivet	Front-/Rear-Side	5150.0041.0
10	15	Industrial Version	Screw	Rear Side	5150.0041.1
10	15	Medical Version (M80)	Screw-on/Rivet	Front-/Rear-Side	5150.0031.0
10	15	Medical Version (M80)	Screw	Rear Side	5150.0031.1

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Order Number
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Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

The Alternate Test Method allows the measurement in the GHz frequency range whereas the CISPR 17 method does not cover frequencies above 30MHz. The insertion loss is measured in a throughput method (common mode) and a cross coupled method (differential mode). The differential mode measurement of the alternate test method is not directly comparable to the conventional measurement acc. CISPR 17.



Further information on the X2Y filter technology and on the alternate insertion loss measurement method can be found under www.schurter.com/info_emc

Packaging unit 10 Pcs

Accessories

Description		
	Assorted Covers Rear Cover	0859.0048
	Cord retaining kits Cord retaining strain relief	
	Flat head, E	4700.0005
	Flat head, G	4700.0007

Mating Outlets/Connectors

Category / Description		
Appliance Outlet Overview complete		
	IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal	4787
	IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal	4788
	IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091
Appliance Outlet further types to 5150		
Connector Overview complete		
	4782 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
	4022 Mounting: Power Supply Cord, 3 x 1.5 mm ² , Screw clamps, Connector: IEC C13	4022
	4785 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4785
	4300-06 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
	4012 Mounting: Power Supply Cord, 3 x 1.5 mm ² , Screw clamps, Connector: IEC C13	4012
Connector further types to 5150		...

Mating Outlets/Connectors shuttered



[Power Cord Overview complete](#)

[VAC13KS, Overview, diverse Connector IEC C13, cord end:](#)

[VAC13KS](#)

[Power Cord further types to 5150](#)