

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

Standard- or Medical-Filter



V-Lock



Screw-on or rivet mounting
from front or rear side

Screw-on mounting from rear side
(integrated thread)



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

Approvals

- VDE Certificate Number: 40023426
- UL File Number: E72928

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

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](#), [Detailed request for product](#)

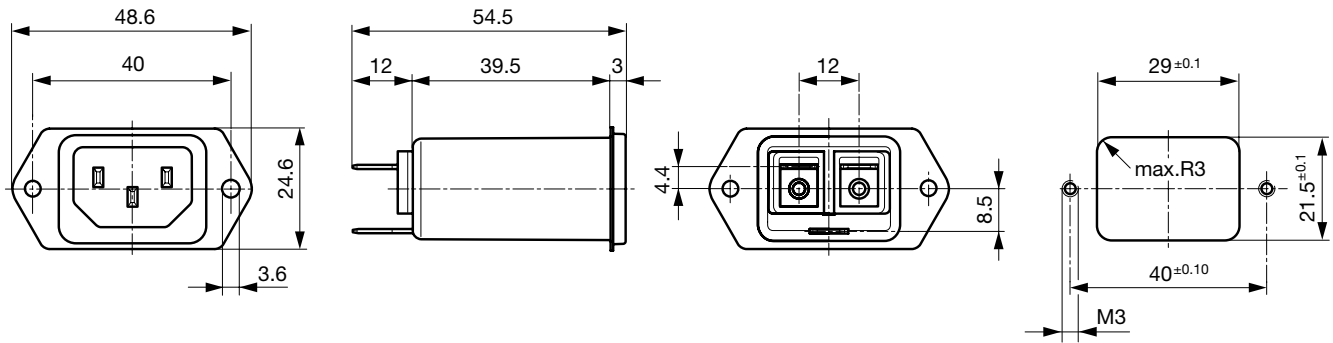
Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

Technical Data

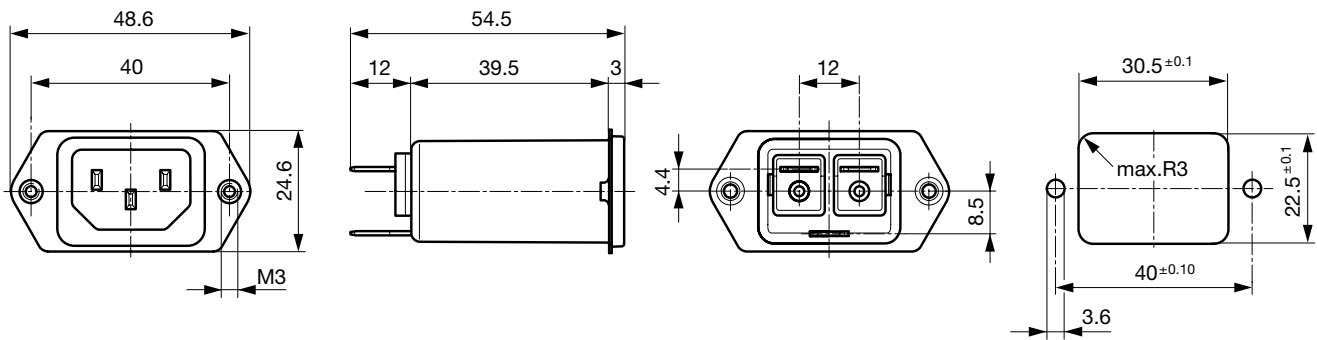
Ratings IEC	10A @ Ta 40 °C / 250 VAC; 50Hz	Appliance-Inlet/-Outlet	C14 acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I
Ratings UL/CSA	15A @ Ta 40 °C / 250 VAC; 60Hz	Line Filter	Standard, medical and industrial version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
Leakage Current	standard < 0.5 mA (250 V / 60Hz) medical < 43/80 µA (250 V / 60 Hz)	MTBF	> 3'300'000h 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)		
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	Thermoplast / steel tin-plated, black / metallic, UL 94V-0		

Dimension

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)

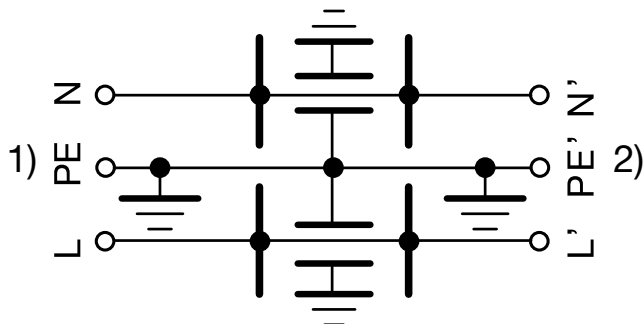


Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
10	Standard Version	1.25	2.5	-
10	Standard Version with Bleed Resistor	1.25	2.5	1
10	Industrial Version	2.35	4.7	-
10	Medical Version (M80)	0.225	0.45	1

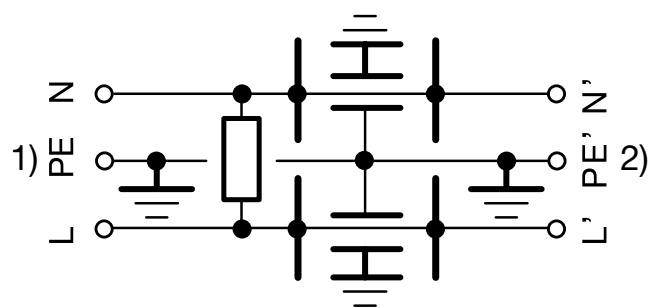
Diagrams

Standard and industrial version



1) Line
2) Load

Medical M80 and standard version with bleed resistor

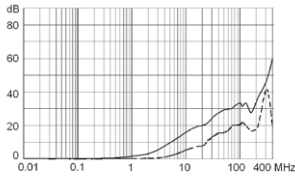


1) Line
2) Load

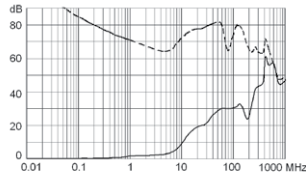
Attenuation Loss

--- differential mode ____ common mode

Standard version
CISPR 17 Test Method

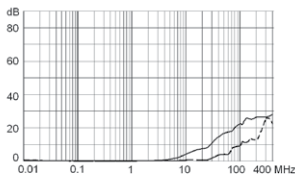


Alternate Test Method

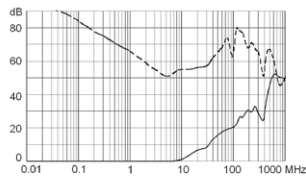


same attenuation loss with bleed resistor

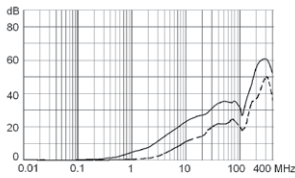
Medical version (M80)
CISPR 17 Test Method



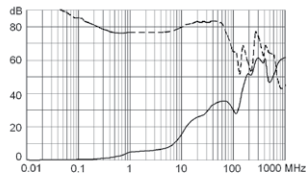
Alternate Test Method



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

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

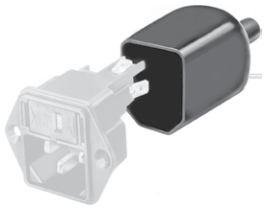
The Alternate Test Method allows the measurement in the GHz frequency range whereas the CISPR 17 method does not cover frequencies above 30MHz. The insertion loss is measured in a throughput method (common mode) and a cross coupled method (differential mode). The differential mode measurement of the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



Cord retaining kits
Cord retaining strain relief

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](#)



IEC Connector C15A, Rewireable, Straight	0102
IEC Connector C15A, Rewireable, Straight	0102-G
IEC Connector C15A, Rewireable, Angled	0112
IEC Connector C13, Rewireable, Angled	4012
IEC Connector C13, Rewireable, Straight	4022

[Connector further types to 5150](#) ...

Mating Outlets/Connectors shuttered

[Power Cord Overview complete](#)



Overview Power Supply Cord with IEC Connector C13, V-Lock, straight	VAC13KS
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[Power Cord further types to 5150](#)