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)

C14

70° C

RoHS COMPLIANT

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
- For use in equipment acc. IEC 60950/60601

Other versions on request
- Solder terminals

References
Alternative: Standard version

Weblinks
pdf-datasheet, html-datasheet, General Product Information, Approvals, RoHS, CHINA-RoHS, Mating Connectors, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, CAD-Drawings, Accessories, Detailed request for product
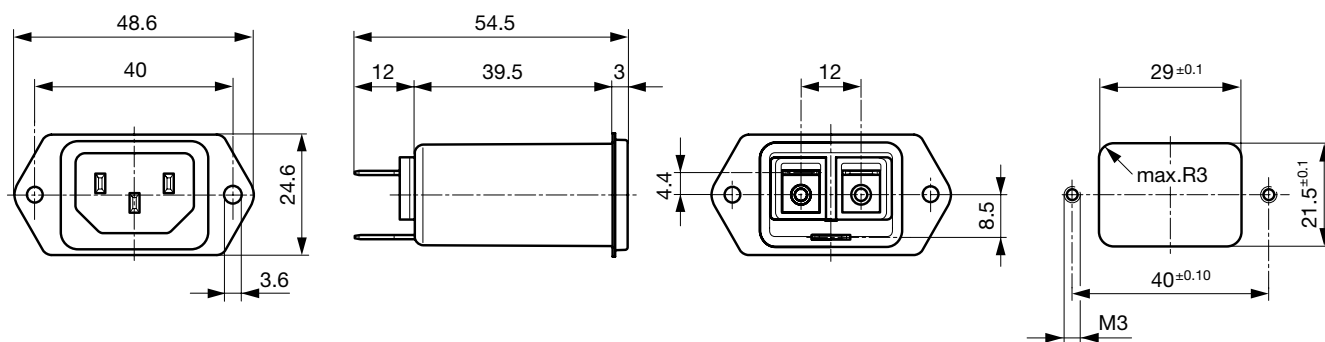
Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.
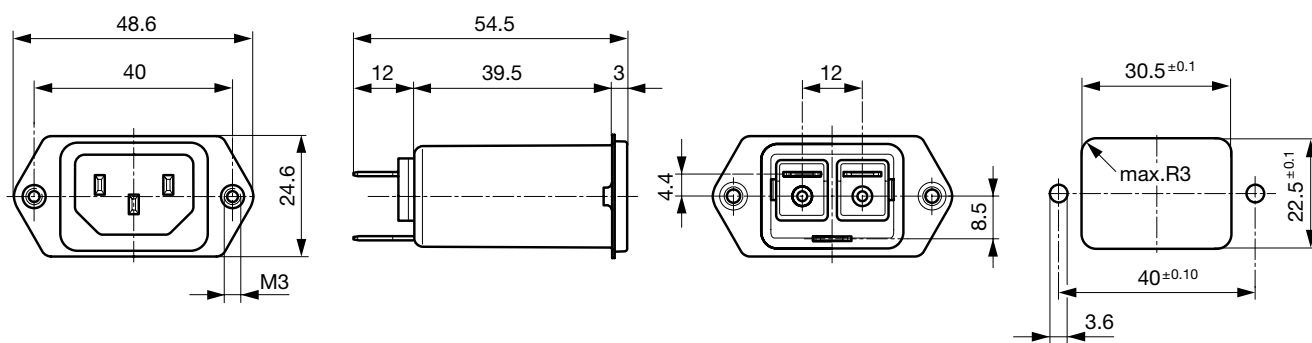
Technical Data

Ratings IEC	10 A @ Ta 40 °C / 250 VAC; 50 Hz	Appliance-Inlet/-Outlet	C14 acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I
Ratings UL/CSA	15 A @ Ta 40 °C / 250 VAC; 60 Hz		
Leakage Current	standard < 0.5 mA (250 V / 60 Hz) medical < 43/80 µA (250 V / 60 Hz)		
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)	Line Filter	Standard, medical and industrial version, IEC 60939, IEC 60601-1, UL 1283, UL 544, CSA C22.2 no. 8 Technical Details
Allowable Operation Temp.	-25 °C to 85 °C	MTBF	> 3'300'000 h acc. to MIL-HB-217 F
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	Themoplast / steel tin-plated, black / metallic, UL 94V-0		

Connectors

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Dimensions

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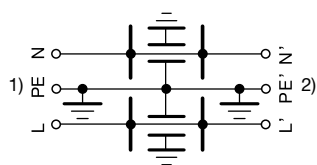
54.5 mm

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

Technical Data of Filter-Components

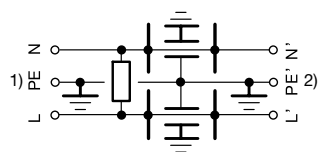| Rated Current [A]	Filter-Type	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
10	Standard Version	1.25	2.5	-
10	Standard Version with Bleed Resistor	1.25	2.5	1
10	Industrial Version	2.35	4.7	-
10	Medical Version (M80)	0.225	0.45	1

Diagrams

Standard and industrial version
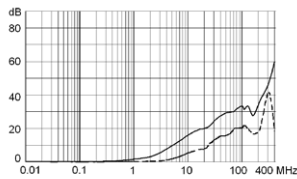
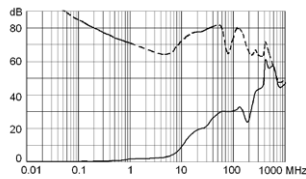Medical M80 and standard version with bleed resistor

1) Line
2) Load

1) Line
2) Load

Attenuation Loss

- - - - differential mode _____ common mode

Standard version
CISPR 17 Test Method   Alternate Test Method
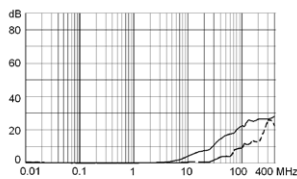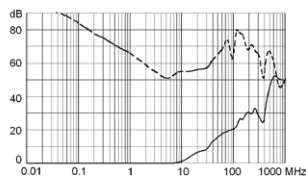
same attenuation loss with bleed resistor

Medical version (M80)
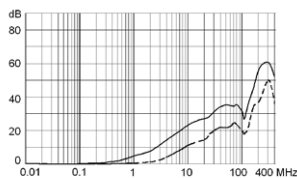CISPR 17 Test Method   Alternate Test Method
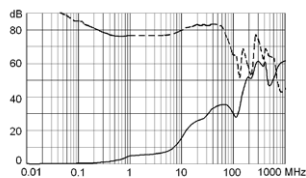
Industrial version
CISPR 17 Test Method   Alternate Test Method

Comment about alternate test method
see table of variants

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

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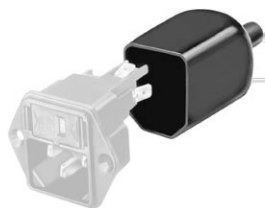
Further information on the X2Y filter technology and on the alternate insertion loss measurement method can be found under www. schurter.com/info_emc

Packaging unit   10 Pcs

Connectors

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
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder or Quick-connect Terminal	5092

Appliance Outlet further types to 5150

Connector Overview complete

IEC Connector C15, Rewireable, Straight	0101
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

Connector further types to 5150 ...

Power Cord Overview complete

Power Cord with IEC Connector C13, Angled	0311
Power Cord with IEC Connector C13, Angled	3011
Power Cord with IEC Connector C13, Angled	3012
Power Cord with IEC Connector C13, Angled	3013
Power Cord with IEC Connector C13	3020

Power Cord further types to 5150 ...

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The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments.

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  [5150.0041.0]() [5150.0041.1]() [5150.0021.1]() [5150.0011.0]() [5150.0031.0]() [5150.0011.1]() [5150.0031.1]() [5150.0021.0]()