

IEC Appliance Inlet C14 with Filter, "Lock and Shield" Mounting



GRF4: with shield and line filter



See below:

Approvals and Compliances

Description

- Panel mount :
Snap-in version from rear-side
- 3 Functions :
Appliance Inlet Protection class I , with EMC-shield , Line filter in standard and medical version

Characteristics

- Time saving "Lock and Shield" snap-in design for rear-panel mounting
- All single elements are already wired
- Innovative EMC-shielding with flexible steel segments for an excellent contact to the panel
- Suitable for use in medical equipment according to IEC/UL 60601-1
For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

Other versions on request

- Panel thickness 1.2 mm and 2.0 mm

References

Alternative: version without line filter [GRF2](#)

Alternative: Standard version

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Approvals](#), [Distributor-Stock-Check](#), [Accessories](#), [Detailed request for product](#)

Technical Data

Ratings IEC	0.5 - 10A @ Ta 40 °C / 250VAC; 50Hz
Ratings UL/CSA	0.5 - 15A @ Ta 40 °C / 250VAC; 60Hz
Leakage Current	standard < 0.5 mA (250 V / 60Hz) medical < 5 µA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC 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 IP40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 4.8 x 0.8 mm
Panel Thickness S	Screw Mounting screw torque max 0.5 Nm Snap-in: 1.5 mm (other on request)
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance inlet/-outlet	C14 acc. to IEC 60320-1, UL 60320-1, CSA C22.2 no. 60320-1 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I
Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 3'300'000 h acc. to MIL-HB-217 F

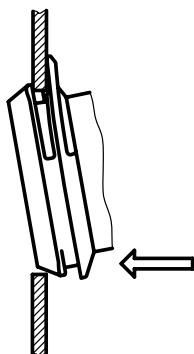
Approvals and Compliances

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.

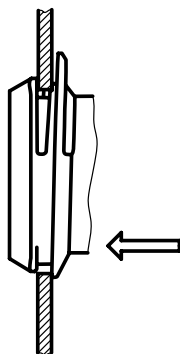
Assembly Instructions

Step 1



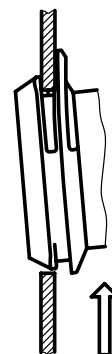
Place the socket in top edge of the panel cut-out.

Step 3



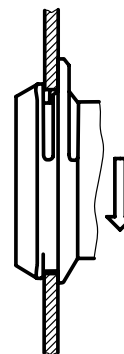
Push the socket forward into the panel cut-out.

Step 2



Push the socket upwards.

Step 4



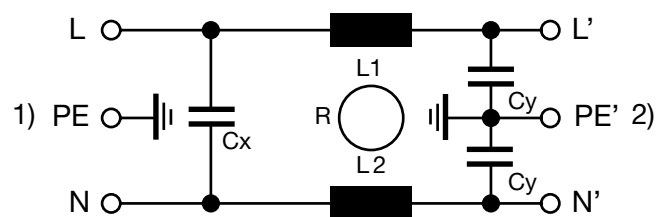
Release the socket. The component is self adjusting.

Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
0.5	Standard version	2 x 24	100	2.2	-
1	Standard version	2 x 12	100	2.2	-
3	Standard version	2 x 2.5	100	2.2	-
6	Standard version	2 x 0.78	100	2.2	-
10	Standard version	2 x 0.225	100	2.2	-
15	Standard version	2 x 0.1	100	2.2	-
0.5	Medical Version (M5)	2 x 24	100	-	1
1	Medical Version (M5)	2 x 12	100	-	1
3	Medical Version (M5)	2 x 2.5	100	-	1
6	Medical Version (M5)	2 x 0.78	100	-	1
10	Medical Version (M5)	2 x 0.225	100	-	1
15	Medical Version (M5)	2 x 0.1	100	-	1

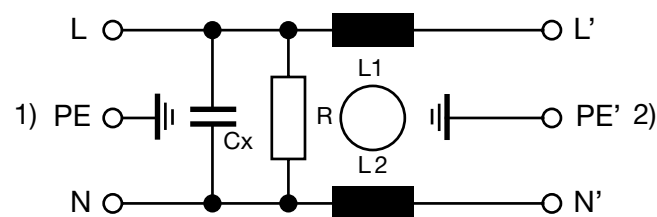
Diagrams

Standard version



1) Line
2) Load

Medical Version (M5)



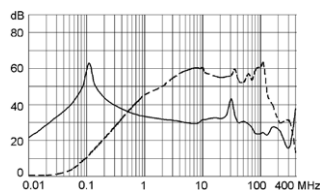
1) Line
2) Load

Attenuation Loss

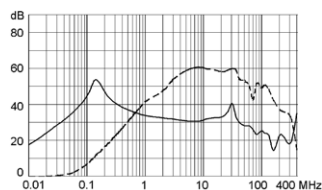
Standard version

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

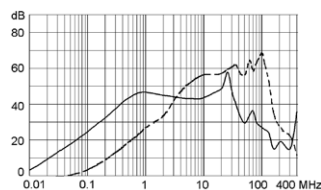
0.5 A



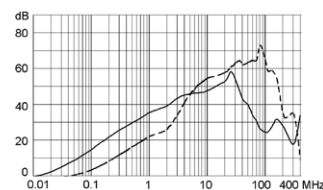
1 A



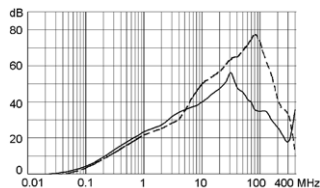
3 A



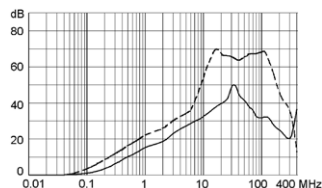
6 A



10 A

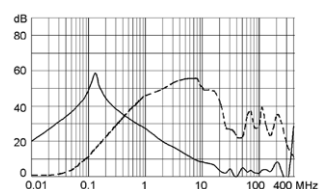


15 A

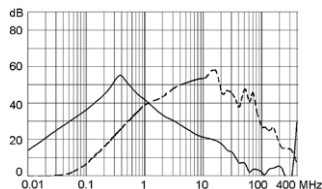


Medical version (M5)

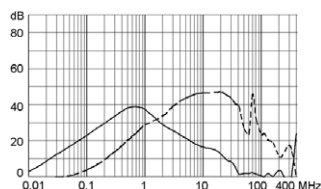
0.5 A



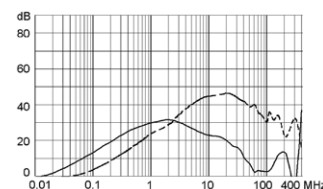
1 A



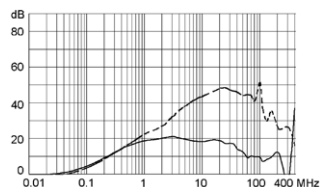
3 A



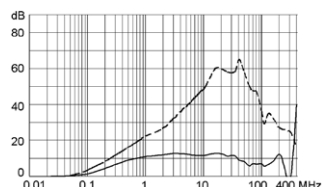
6 A



10 A



15 A

**All Variants**

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel Thickness s [mm]	Packaging unit	Order Number
0.5	0.5	Standard version	1	20	GRF4.0411.011.C
1	1	Standard version	1	20	GRF4.0412.011.C
6	6	Standard version	1	20	GRF4.0416.011.C
10	10	Standard version	1	20	GRF4.0417.011.C
0.5	0.5	Standard version	1.5	20	GRF4.0411.013.C
1	1	Standard version	1.5	20	GRF4.0412.013.C
3	3	Standard version	1.5	20	GRF4.0413.013.C
6	6	Standard version	1.5	20	GRF4.0416.013.C
10	10	Standard version	1.5	20	GRF4.0417.013.C
15	15	Standard version	1.5	20	GRF4.0419.013.C
3	3	Standard version	2	20	GRF4.0413.014.C
0.5	0.5	Medical Version (M5)	1.5	20	GRF4.0021.013.C
1	1	Medical Version (M5)	1.5	20	GRF4.0022.013.C

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel Thickness s [mm]	Packaging unit	Order Number
3	3	Medical Version (M5)	1.5	20	GRF4.0023.013.C
6	6	Medical Version (M5)	1.5	20	GRF4.0026.013.C
10	10	Medical Version (M5)	1.5	20	GRF4.0027.013.C
15	15	Medical Version (M5)	1.5	20	GRF4.0029.013.C

 Most Popular.

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

Packaging unit 20 Pcs

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 GRF4](#)

[Connector Overview complete](#)



4782 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4785 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4785
4012 Mounting: Power Supply Cord, 3 x 1 mm ² , Screw clamps, Connector: IEC C13	4012
4300-06 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
4781 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C15	4781

[Connector further types to GRF4](#)

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