

Excellent Performance EMC/RFI Filter

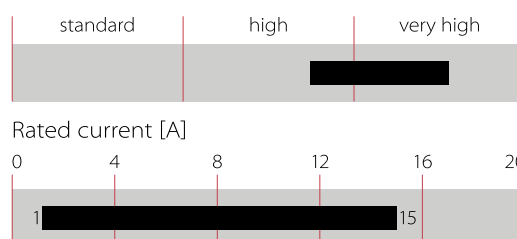


- Superior attenuation performance
- Optional earth line choke
- Complies with IEC/EN 60601-1 (B type)
- Snap-in versions (S and S1 type)
- Hot inlet versions (HI type)



Performance indicators

Attenuation performance



Technical Specifications

| | |
|--|--|
| Maximum continuous operating voltage | 250 VAC, 50/60 Hz |
| Nominal operating voltage | 230 VAC |
| Rated currents | 1 to 15 A @ 50°C |
| Operating frequency | DC to 400 Hz |
| High potential test voltage | P -> PE 2000 VAC for 2 sec (standard types) P -> PE 2500 VAC for 2 sec (B types) P -> N 1000 VAC for 2 sec |
| Temperature range (operation and storage) | -25°C to +85°C (25/85/21) |
| Protection category | IP 40 according to IEC 60529 |
| Flammability corresponding to | Plastic material: UL 94 V0 |
| Approvals by rated current | 1 to 10 A (ENEC, CQC) 1 to 15 A (UL, CSA) |
| Design corresponding to | UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939 |
| MTBF (Mil-HB-217F) | ≤8 A:>2,035,000 h @ 50°C/230 V ≥10 A:>1,035,000 h @ 50°C/230 V |

Approvals & Compliances



(CQC except HI-types)

The FN 9244 IEC inlet filter combines an IEC inlet and mains filter with superior filter attenuation in a small form factor. Choosing the FN 9244 product line brings you the rapid availability of a standard filter associated with the necessary safety acceptances. Standard IEC connector filters are a practical solution helping you to pass EMI system approval in a short time. A wide selection on amperage ratings, output connections, mounting possibilities and filters for medical applications are designed to offer you the desired solution.

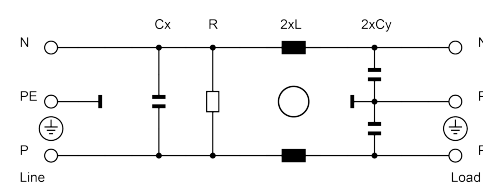
Features and Benefits

- Exceptional conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Rear/front or snap-in mounting
- Standard or wide mounting flange
- FN 9244 B versions comply with the requirements of 1MOP acc. to IEC/EN 60601-1 for creepage and clearance, leakage current and high potential testing
- Optional earth line choke see FN 9244 E data sheet
- Custom-specific versions are available on request


Typical Applications

- Portable electrical and electronic equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment
- Medical devices (MDD)
- In-vitro diagnostic medical devices (IVDD)
- Rack mounting equipment

Typical electrical schematic



Filter Selection Table

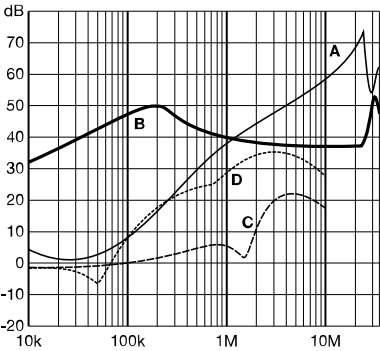
| Filter | Rated current @ 50°C (25°C) | Leakage current* @ 250 VAC/50 Hz (@ 120 VAC/60 Hz) | Inductance L | Capacitance | | Resistance R | Output connections | Weight |
|------------------|--------------------------------|--|-----------------|-------------|------|-----------------|---|--------|
| | | | | Cx | Cy | | | |
| | [A] | [mA] | [mH] | [µF] | [nF] | [kΩ] |  | [g] |
| FN9244x-1-06 | 1 (1.2) | 0.31 (0.18) | 59.53 | 0.1 | 2.2 | | -06 | 38 |
| FN9244x-3-06 | 3 (3.5) | 0.31 (0.18) | 13.45 | 0.1 | 2.2 | -06 | 38 | |
| FN9244x-6-06 | 6 (7.2) | 0.31 (0.18) | 4.1 | 0.1 | 2.2 | -06 | 38 | |
| FN9244x-8-06 | 8 (10.6) | 0.31 (0.18) | 2.3 | 0.1 | 2.2 | | -06 | 38 |
| FN9244x-10-06 | 10 (11.6) | 0.31 (0.18) | 1.02 | 0.1 | 2.2 | | -06 | 38 |
| FN9244x-12-06 | 12 (12) | 0.31 (0.18) | 0.58 | 0.1 | 2.2 | | -06 | 38 |
| FN9244x-15-06 | 15 (15) | 0.31 (0.18) | 0.4 | 0.1 | 2.2 | | -06 | 38 |
| FN9244x-12-06HI | 12 (12) | 0.31 (0.18) | 0.58 | 0.1 | 2.2 | | -06 | 38 |
| FN9244x-15-06HI | 15 (15) | 0.31 (0.18) | 0.4 | 0.1 | 2.2 | | -06 | 38 |
| FN9244xR-1-06 | 1 (1.2) | 0.31 (0.18) | 59.53 | 0.1 | 2.2 | 1000 | -06 | 38 |
| FN9244xR-3-06 | 3 (3.5) | 0.31 (0.18) | 13.45 | 0.1 | 2.2 | 1000 | -06 | 38 |
| FN9244xR-6-06 | 6 (7.2) | 0.31 (0.18) | 4.1 | 0.1 | 2.2 | 1000 | -06 | 38 |
| FN9244xR-8-06 | 8 (10.6) | 0.31 (0.18) | 2.3 | 0.1 | 2.2 | 1000 | -06 | 38 |
| FN9244xR-10-06 | 10 (11.6) | 0.31 (0.18) | 1.02 | 0.1 | 2.2 | 1000 | -06 | 38 |
| FN9244xR-12-06 | 12 (12) | 0.31 (0.18) | 0.58 | 0.1 | 2.2 | 1000 | -06 | 38 |
| FN9244xR-15-06 | 15 (15) | 0.31 (0.18) | 0.4 | 0.1 | 2.2 | 1000 | -06 | 38 |
| FN9244xR-12-06HI | 12 (12) | 0.31 (0.18) | 0.58 | 0.1 | 2.2 | 1000 | -06 | 38 |
| FN9244xR-15-06HI | 15 (15) | 0.31 (0.18) | 0.4 | 0.1 | 2.2 | 1000 | -06 | 38 |
| FN9244xB-1-06 | 1 (1.2) | 0.00 | 59.53 | 0.1 | | 1000 | -06 | 38 |
| FN9244xB-3-06 | 3 (3.5) | 0.00 | 13.45 | 0.1 | | 1000 | -06 | 38 |
| FN9244xB-6-06 | 6 (7.2) | 0.00 | 4.1 | 0.1 | | 1000 | -06 | 38 |
| FN9244xB-8-06 | 8 (10.6) | 0.00 | 2.3 | 0.1 | | 1000 | -06 | 38 |
| FN9244xB-10-06 | 10 (11.6) | 0.00 | 1.02 | 0.1 | | 1000 | -06 | 38 |
| FN9244xB-12-06 | 12 (12) | 0.00 | 0.58 | 0.1 | | 1000 | -06 | 38 |
| FN9244xB-15-06 | 15 (15) | 0.00 | 0.4 | 0.1 | | 1000 | -06 | 38 |
| FN9244xB-12-06HI | 12 (12) | 0.00 | 0.58 | 0.1 | | 1000 | -06 | 38 |
| FN9244xB-15-06HI | 15 (15) | 0.00 | 0.4 | 0.1 | | 1000 | -06 | 38 |

* Maximum leakage under normal operating conditions (acc. to IEC60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

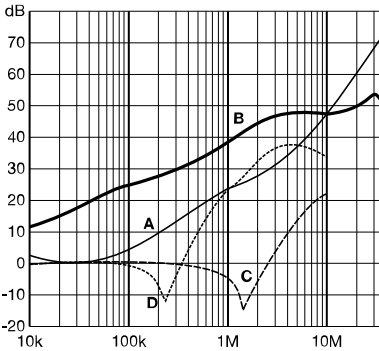
Typical Filter Attenuation

Per CISPR 17; A=50 Ω/50 Ω sym; B=50 Ω/50 Ω asym; C=0.1 Ω/100 Ω sym; D=100 Ω/0.1 Ω sym

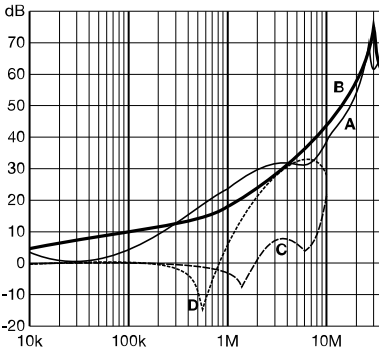
1 and 3 A types



6 to 10 A types

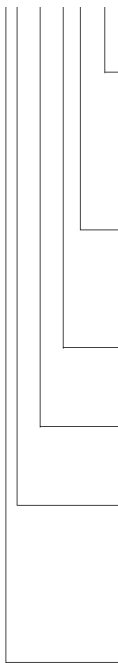


12 and 15 A types



Product selector

FN 9244xx-yy-..HI-zz



- Snap-in range for S version only
- Blank: Snap-in range 0.7 to 1.5mm
- 20: Snap-in range 1.5 to 2.2mm
- Blank: Standard IEC inlet type C14
- HI: Hot IEC inlet type C16 (12 and 15A types only)
- 06: Faston 6.3 x 0.8mm (spade/soldering)
- 1 to 15: Rated current
- Blank: Standard version
- R: Bleed resistor
- B: Medical version (with bleed resistor and without Y2-capacitor)
- Blank: Standard housing with mounting flanges
- U: Housing with wider mounting flanges
- S: Snap-in version, snapper on vertical side
- S1: Snap-in version, snapper on horizontal side

Distributor Inventory

Check stock levels at global distributors via the QR code



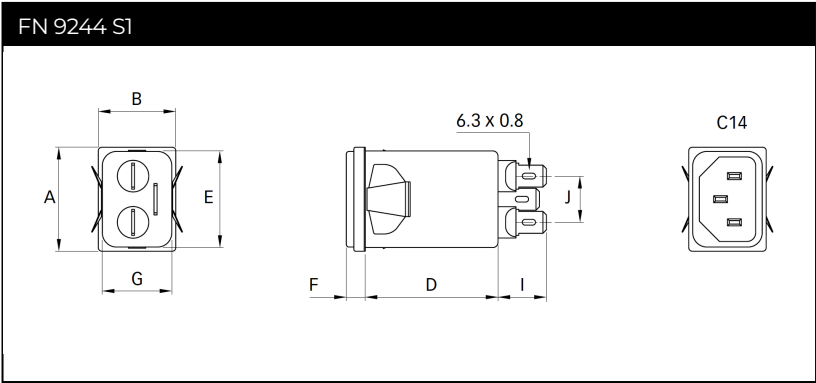
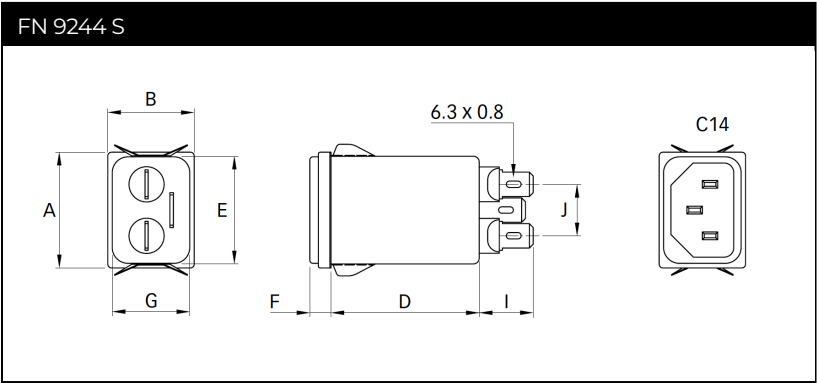
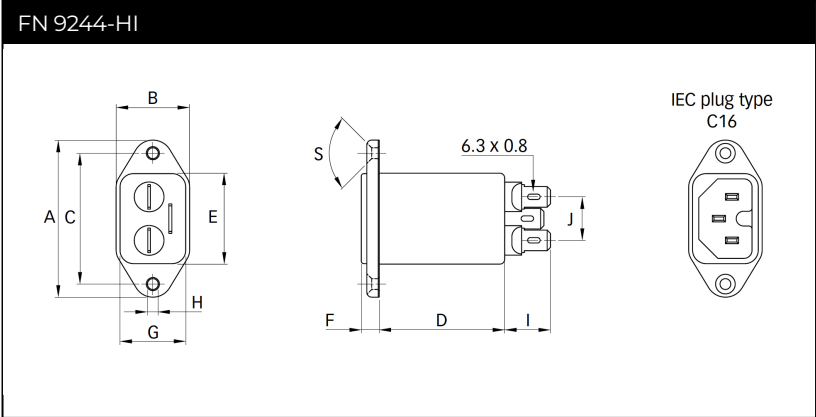
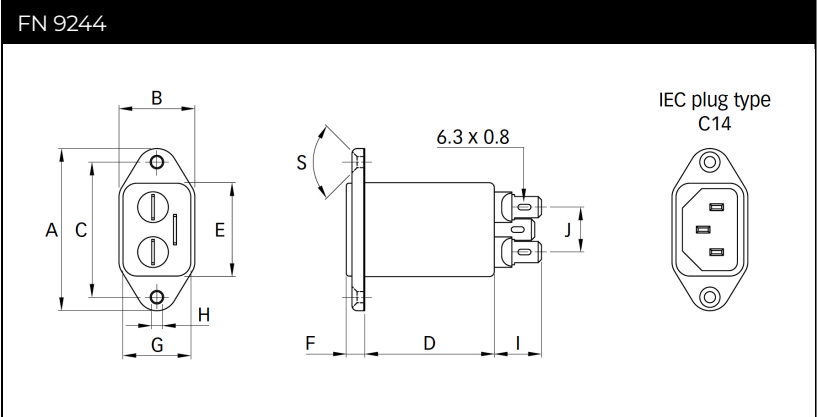
Search for the individual filter at <https://products.schaffner.com/stock> (qr-code)

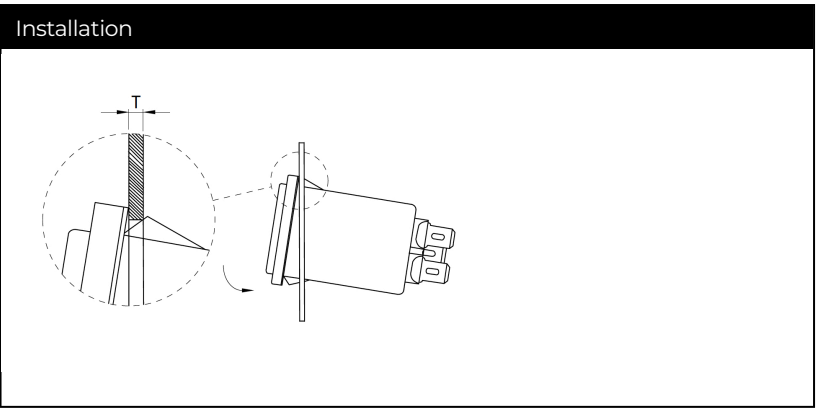
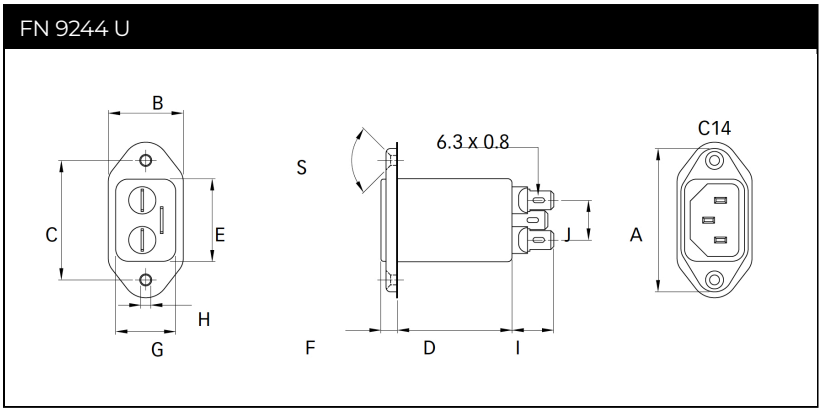
Wider range of stock level availability:

| Stock level per types 1 - 15 A | Link |
|---|------|
| Standard housing types | |
| Housing with wider mounting flanges (U) | |
| Snap-in housing types (S&S1) | |
| Medical versions (B) | |
| Bleed resistor types (R) | |

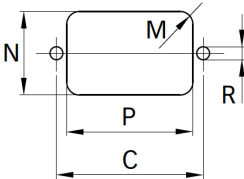
For example: FN 9244 B-15-06, FN 9244 S1B-10-06-20, FN 9244 R-12-06HI, FN 9244 UB-8-06

Mechanical Data





Panel cut out



Dimensions

| | FN 9244 | FN 9244 U | FN 92244 S | FN 92244 S1 | FN 9244-HI | Tol. |
|-----|---------|-----------|------------|-------------|------------|---------|
| A | 48 | 48 | 29.9 | 29.9 | 48 | |
| B | 22.4 | 25 | 22.4 | 22.4 | 22.4 | |
| C | 40 | 40 | | | 40 | ±0.2 |
| D | 38.25 | 38.25 | 38.25 | 38.25 | 38.25 | |
| E | 27.8 | 27.7 | 27.8 | 27.8 | 27.8 | +0.6/-0 |
| F | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | |
| G | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | +0.6/-0 |
| H | Ø3.3 | Ø3.3 | | | Ø3.3 | |
| I | 14 | 14 | 14 | 14 | 14 | |
| J | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | |
| M | R ≤3 | R ≤3 | R ≤1.5 | R ≤1.5 | R ≤3 | |
| N | 21.5 | 21.5 | 20.8 | 21.9 | 21.5 | |
| P | 28.5 | 28.5 | 29.4 | 28.5 | 28.5 | |
| R* | M3 | M3 | | | M3 | |
| S | 90° | 90° | | | 90° | |
| T** | | | 0.7-1.5 | 0.7-1.5 | | |
| T** | | | 1.5-2.2 | 1.5-2.2 | | |

* Recommended torque for M3 (90° countersunk flat head) is 0.5 Nm

** For selecting the panel thickness, please refer to the filter selector table.

All dimensions in mm; 1 inch = 25.4 mm
Tolerances according: ISO 2768-m/EN 22768-m

Please visit www.schaffner.com to find more details on connectors.

Accessories

IL 13P IEC C13 Rewireable Connectors with Locking System



The locking system has a tensile force of typical 300N. It is recommended to use it with flange mount filters. For details refer to our Application Note "Using IEC Lock Power Cords with IEC Inlets and Filters".

Schaffner power connector with IEC lock guard against accidental disconnection of all electrical appliances with an IEC inlet. No exchange or modification of the IEC inlet or IEC inlet filter system is needed. Easy retrofit .for all electronic equipments and devices

IL 13P IEC C13 Rewireable Angled Connectors with Locking System



- Protects appliances that are vulnerable to vibration
- Connector cannot be accidentally pulled or vibrated out of the inlet
- Space availability/constraints
- Different angles for ease of access
- Space saving
- Release locking mechanism
- Prevents accidental disconnection

Power Cord with angled Locking System C13



- Protects appliances that are vulnerable to vibration
- Connector cannot be accidentally pulled or vibrated out of the inlet
- Space availability/constraints
- Different angles for ease of access
- Space saving
- Release locking mechanism
- Prevents accidental disconnection

Headquarters, Global
Innovation and
Development

Switzerland
Schaffner Group
Industrie Nord
Nordstrasse 5
4542
Luterbach
+41 32 681 66 26
info@schaffner.com

To find your local partner within
Schaffner's global network [schaffner.com](https://www.schaffner.com)

© 2025 Schaffner Group

The content of this document has been carefully checked and understood. However, neither Schaffner nor its subsidiaries assume any liability whatsoever for any errors or inaccuracies of this document and the consequences thereof. Published specifications are subject to change without notice. Product suitability for any area of application must ultimately be determined by the customer. In all cases, products must never be operated outside their published specifications. Schaffner does not guarantee the availability of all published products. This disclaimer shall be governed by substantive Swiss law and resulting disputes shall be settled by the courts at the place of business of Schaffner Holding AG. Latest publications and a complete disclaimer can be downloaded from the Schaffner website. All trademarks recognized.

Sales and Application
Centers

Finland
Schaffner Oy
Lohjanharjuntie 1109
08500
Lohja
+ 358 50 468 72 84
finlandsales@schaffner.com

France
Schaffner EMC S.A.S.
16-20 Rue Louis Rameau
95875
Bezons
+33 1 34 34 30 60
francesales@schaffner.com

Germany
Schaffner Deutschland GmbH
Ohiostr. 8
76149
Karlsruhe
+49 721 56910
germanysales@schaffner.com

Italy
Schaffner EMC S.r.l.
Via Ticino, 30
20900
Monza (MB)
+39 335 120 44 32
italysales@schaffner.com

Japan
Schaffner EMC K.K.
ISM Sangenjaya 7F
1-32-12 Kamiuma Setagaya-ku
154-0011
Tokyo
+81 3 5712 3650
japansales@schaffner.com

Singapore
Schaffner EMC Pte Ltd.
Blk 3015A Ubi Road 1 #05-09 Kampong Ubi
Industrial Estate
408705
Singapore
+65 63773283
singaporesales@schaffner.com

Sweden
Schaffner EMC AB
Östermalmströg 1
114 42
Stockholm
+46 8 5050 2425
swedensales@schaffner.com

Switzerland
Schaffner EMV AG
Industrie Nord
Nordstrasse 5
4542
Luterbach
+41 32 681 66 26
switzerlandsales@schaffner.com

India
Schaffner India Pvt. Ltd
Regus World Trade Centre
WTC 22nd Floor Unit No 2238 Brigade
Gateway Campus 26/1 Dr. Rajkumar Road
Malleshwaram (W)
560055
Bangalore
+91 8067935355
indiasales@schaffner.com

United Kingdom
Schaffner Ltd.
Suite 1 Oakmede Place
Terrace Road
RG42 4JF
Binfield
+44 118 9770070
schaffner.uksales@te.com

United States
Schaffner EMC Inc.
52 Mayfield Avenue
Edison, New Jersey
+1 732 225 9533
usasales@schaffner.com