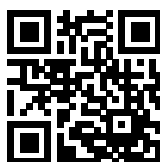


## Excellent Performance EMC/RFI Filter

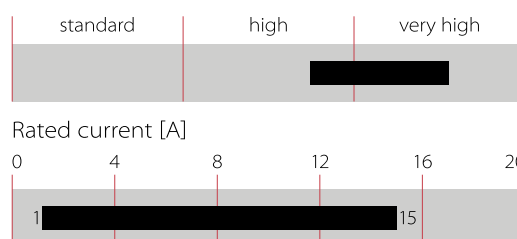


- Superior attenuation performance
- Optional earth line choke
- Complies with IEC/EN 60601-1 (B type)
- Snap-in versions (S and S1 type)
- Hot inlet versions (HI type)



## Performance indicators

### Attenuation performance



## Technical Specifications

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

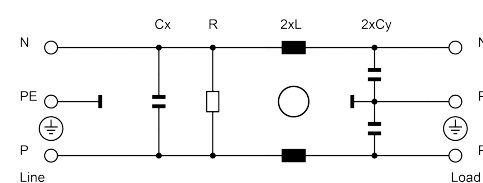
## Features and Benefits

- 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

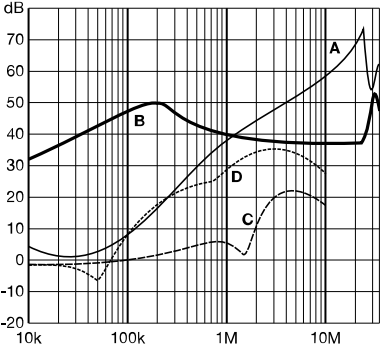
| Filter           | Rated current<br>@ 50°C (25°C) | Leakage current*<br>@ 250 VAC/50 Hz<br>(@ 120 VAC/60 Hz) | Inductance<br>L | Capacitance |      | Resistance<br>R | Output<br>connections                                                               | Weight |
|------------------|--------------------------------|----------------------------------------------------------|-----------------|-------------|------|-----------------|-------------------------------------------------------------------------------------|--------|
|                  |                                |                                                          |                 | 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.

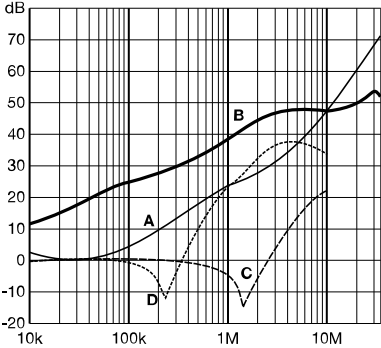
Typical Filter Attenuation

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

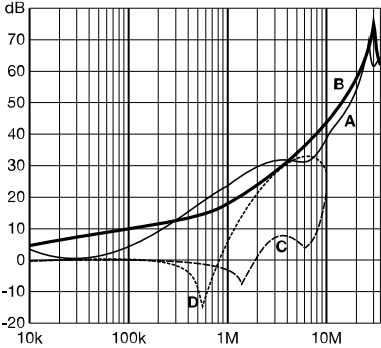
1 and 3 A types



6 to 10 A types

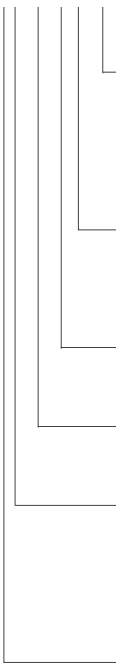


12 and 15 A types



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



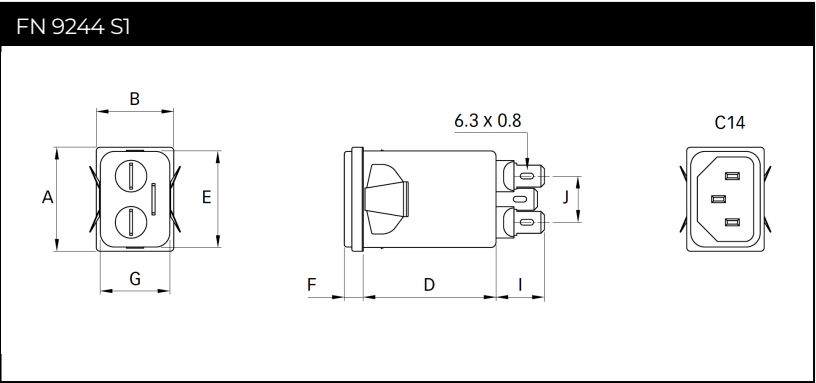
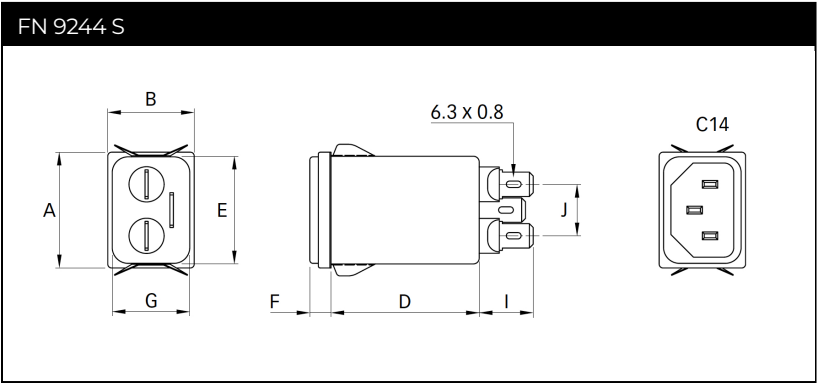
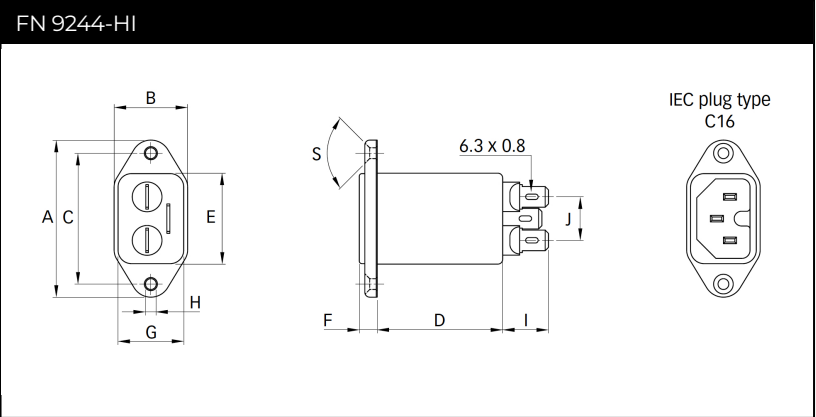
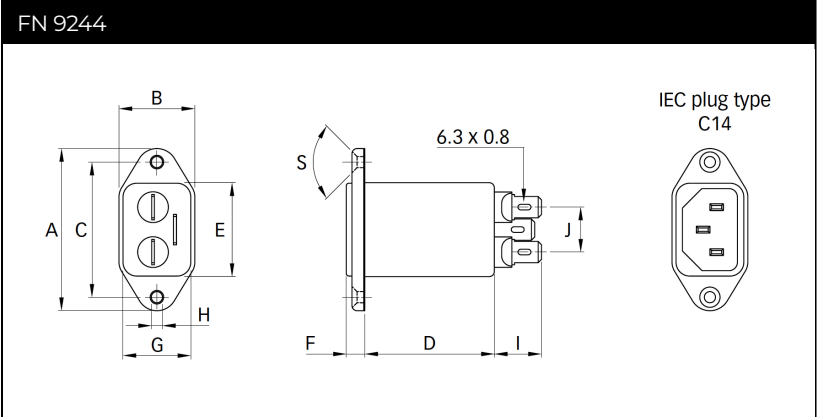
Search for the individual filter at <https://products.schaffner.com/stock> (qr-code)

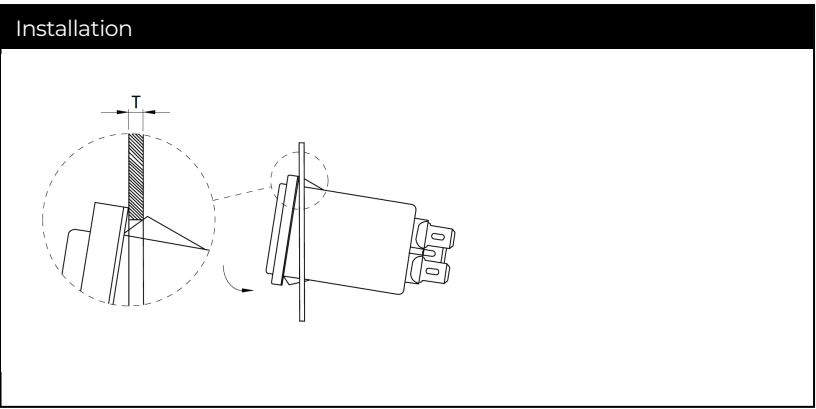
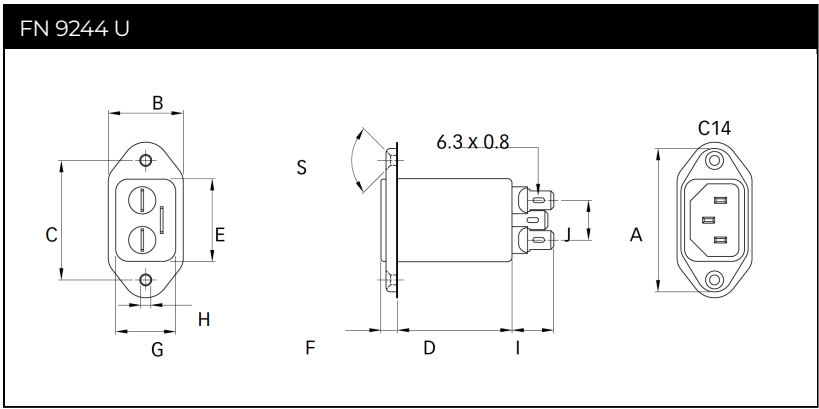
Wider range of stock level availability:

| 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)                |      |

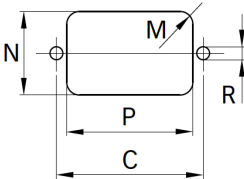
For example: FN 9244 B-15-06, FN 9244 S1B-10-06-20, FN 9244 R-12-06HI, FN 9244 UB-8-06

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](http://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

We are here to help



Read more insights from TE’s experts:

Connect With Us

We make it easier to connect with our experts and are ready to provide the support you need. Visit [te.com/support](https://te.com/support) to chat with a Product Information Specialist.

te.com

©2025 TE Connectivity plc. All Rights Reserved.

TE Connectivity, TE, TE connectivity (logo), and EVERY CONNECTION COUNTS, ECOsine, Schaffner are trademarks owned or licensed by TE Connectivity plc. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any changes to the information contained herein without prior notice. TE Connectivity assumes only those obligations set forth in the terms and conditions for this product and shall in no event be liable for any incidental, indirect, or consequential damages arising out of the sale, resale, use, or misapplication of the product. TE expressly disclaims any implied warranties with respect to the information contained herein, including, but not limited to, implied warranties of merchantability or fitness for a particular purpose. Dimensions, specifications and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications and/or information. Users of TE Connectivity products must make their own assessment as to whether the respective product is suitable for the respective desired application.