

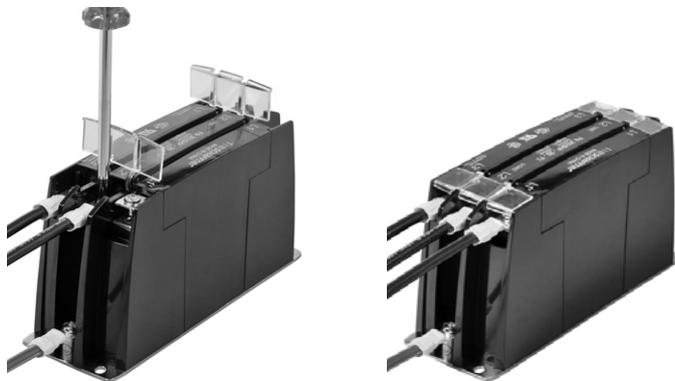
Installation guidelines FN 3025 and FN 3026

Thank you for choosing Schaffner FN 3025/FN 3026 filters to solve your EMC challenges. Please follow the guidelines below to ensure a satisfying and reliable filter function for many years of operation.

1. General guidelines

- Mount the filter on a clean conductive surface (or DIN-rail) free of paint or lacquer.
- Install the filter as close as possible to the noise source, using short direct wire connections.
- Protect the filter from liquid, excessive dust and aggressive gases.
- Do not expose the filters to conditions beyond specifications in the datasheet.

2. Installation and electrical connection



FN 3025/FN 3026 are delivered with closed plastic safety covers and unfastened terminals. To install the filter please proceed as follows:

- Mount the filter on a metal surface with four appropriate screws and washers or snap it onto a TS 35 DIN-rail.
- First connect the green/yellow wire to the earth stud of the filter.
- Gently lift the two hinged plastic covers.
- Connect phase wires with cable lugs by pushing down and tightening the screws.
- Please note the torque recommendation on top of the filter.
- Push the covers back into their locked position to finish the filter installation.

3. Recommendations for the mechanical installation of FN 3025

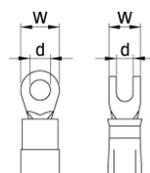
	10A types	20A types	30A types	50A types
Screw	M4 (hex cap)	M4 (hex cap)	M4 (hex cap)	M5 (hex cap)
Washer	M4 (flat- & spring-washer)	M4 (flat- & spring-washer)	M 4 (flat- & spring-washer)	M5 (flat- & spring-washer)
Tool	¼ inch nut wrench size 7mm	¼ inch nut wrench size 7mm	¼ inch nut wrench size 7mm	¼ inch nut wrench size 8mm
Torque	According to the property class of the screws and material grade of the mounting area.			

4. Recommendations for the electrical connection of FN 3025/FN 3026

	10A types	20A types	30A types	50A types
Flex wire	1.3 - 2.5mm ²	4 - 6mm ²	8 - 10mm ²	16 - 20mm ²
AWG type wire	AWG 16 - AWG 13	AWG 12 - AWG 10	AWG 8 - AWG 7	AWG 5 - AWG 4
Screw (included)	M4	M4	M4	M5
Ring/fork lug (W/d)*	max. 11mm (9.5mm)/ min. Ø4.3mm**	max. 11mm (9.5mm)/ min. Ø4.3mm**	max. 11mm (9.5mm)/ min. Ø4.3mm**	max. 16.5mm (15mm)/ min. Ø5.3mm**
Lug thickness:				
– One lug used:	1.0mm	1.0mm	1.0mm	1.5mm
– Two lugs used:	0.8mm	0.8mm	0.8mm	1.0mm
Tool	Cross recessed wrench #2			
Torque	1.0 - 1.2Nm	1.0 - 1.2Nm	1.0 - 1.2Nm	1.9 - 2.2Nm

* Schaffner recommends the use of insulated and UL-recognized ring lugs or fork lugs of the appropriate size.

** Specification in () relates to earth connector.



Indicated wire sizes are for field wiring; wire size may be reduced for chassis/cabinet wiring, especially when fixing two wires in one terminal (respect your local cabinet installation standards).

The installation guidelines above need to be obeyed to ensure the expected filter function. All relevant electrical and mechanical data can be found in the FN 3025/FN 3026 datasheet or the installation guidelines. For further information please contact your local Schaffner partner.

www.schaffner.com

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