

EMC/EMI line filter for lighting equipment



- | Voltage rating up to 350 VAC
- | Current rating 2 A, 5 A and 8 A
- | Offers attenuation fitting to lighting application
- | Compact, space-saving design
- | Cable outlets with enhanced length give freedom for flexible installation



Technical specifications

Rated operating voltage	350 VAC
Operating frequency	DC to 60 Hz
Rated currents	2 A, 5 A and 8 A @ 60°C
High potential test voltage	P → PE 3000 VDC for 2 sec P → N 1500 VDC for 2 sec
Temperature range (operation and storage)	-40°C to 90°C (40/90/21)
Overvoltage category	II acc. IEC 60664-1
Pollution degree	2 acc. IEC 60664-1
Certified to	UL 60939-3, CSA Std C22.2 No. 8, IEC/EN 60939-3, GB/T 15287, GB/T 15288
MTBF @ Rated amb. Temp./Voltage (Mil-HB-217F)	1,400,000 hours

Approvals



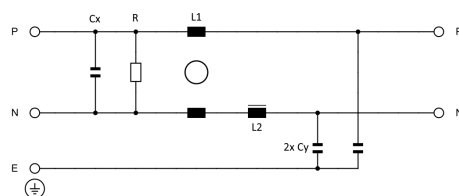
Features and benefits

- | FN 2580 are specially developed for lighting application
- | Offering high differential and common mode performance in low profile housing
- | Cable outlets are flexible in terms of connection and make the assembly easy
- | Voltage rating according to high voltage LED lighting market

Typical applications

- | Lighting Equipment
- | LED Driver
- | Street Lamps
- | Industrial Lighting
- | Other applications with high demand for differential mode performance

Typical electrical schematic



Filter selection table

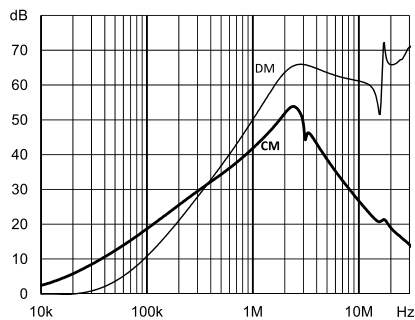
Filter	Rated current @ 60°C [A]	Leakage current* @ 350 VAC/60 Hz [mA]	Inductance		Capacitance		Dis. Resistor R [kΩ]	Weight [g]
			L1 [mH]	L2 [uH]	Cx [μF]	Cy [nF]		
FN 2580-2-07	2	0.66	1.56	78	0.165	5	1000	130
FN 2580-5-07	5	0.66	0.88	52	0.165	5	1000	140
FN 2580-8-07	8	0.66	0.49	35	0.165	5	1000	145

* Maximum leakage under usual AC operating conditions (acc. IEC 60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

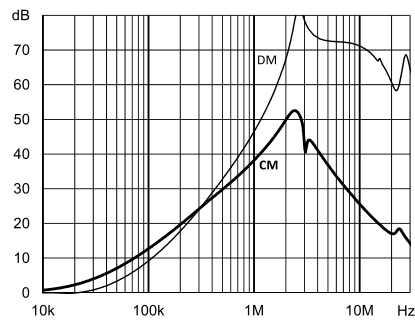
Typical filter attenuation

Per CISPR 17; DM=50 Ω/50 Ω sym, differential mode; CM=50 Ω/50 Ω asym, common mode

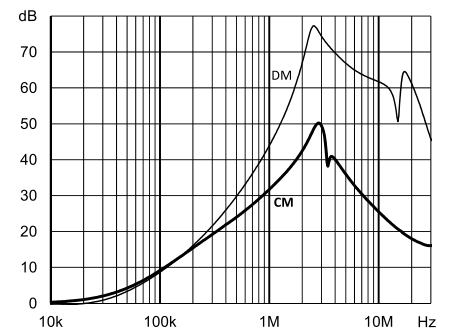
2 A type



5 A type

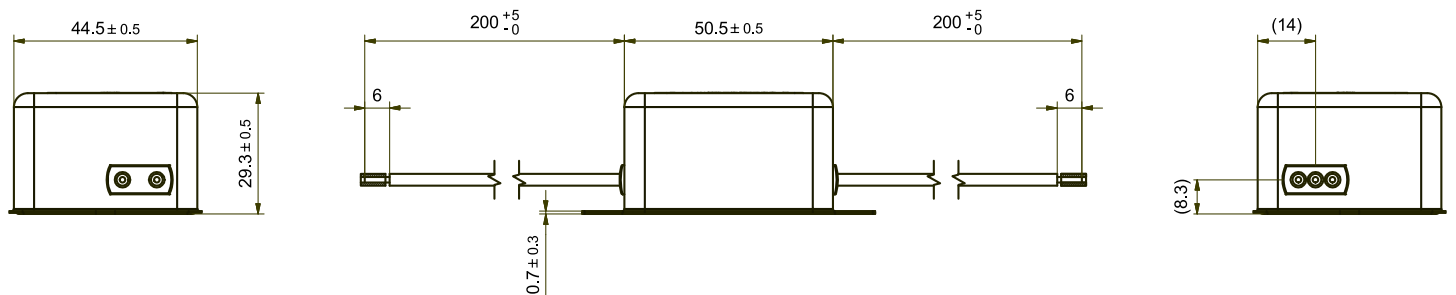


8 A type

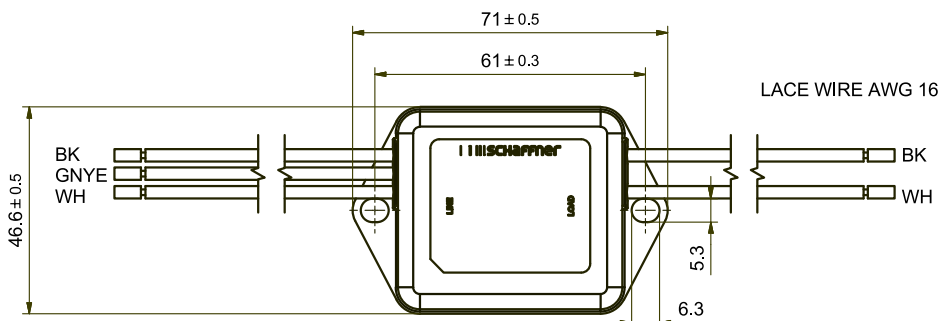


Mechanical data

Side View



Top View



2 A : Lace Wire 18 AWG

5 A : Lace Wire 18 AWG

8 A : Lace Wire 16 AWG

WH = White ; BK = Black ; GNYE = Green Yellow

All dimensions in mm; 1 inch = 25.4 mm

Tolerances according: ISO 2768-m/EN 22768-m



Headquarters, global innovation and development

Switzerland

Schaffner Group

Industrie Nord
Nordstrasse 11e
4542 Luterbach
T +41 32 681 66 26
info@schaffner.com

To find your local partner within Schaffner's global network: www.schaffner.com

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Sales and application centers

China

Schaffner EMC Ltd. Shanghai

T20-3 C, No 565 Chuangye Road,
Pudong district
201201 Shanghai
T +86 21 3813 9500
cschina@schaffner.com
www.schaffner.com.cn

Finland

Schaffner Oy

Sauvonrinne 19 H
08500 Lohja
T +358 10 567 2855
finlandsales@schaffner.com

France

Schaffner EMC S.A.S.

16-20 Rue Louis Rameau
95875 Bezons
T +33 1 34 34 30 60
F +33 1 39 47 02 28
francesales@schaffner.com

Germany

Schaffner Deutschland GmbH

Schoemperlenstrasse 12B
76185 Karlsruhe
T +49 721 56910
F +49 721 569110
germanysales@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
T +91 80 67935355
indiasales@schaffner.com

Italy

Schaffner EMC S.r.l.

Via Ticino, 30
20900 Monza (MB)
T +39 039 21 41 070
italysales@schaffner.com

Japan

Schaffner EMC K.K.

Taiju-Seimei Sangenjaya Bldg.
1-32-12, Kamiuma, Setagaya-ku
154-0011 Tokyo
T +81 3 5712 3650
F +81 3 5712 3651
japansales@schaffner.com
www.schaffner.jp

Singapore

Schaffner EMC Pte Ltd.

#05-09, Kg Ubi Ind. Estate
408705 Singapore
T +65 6377 3283
F +65 6377 3281
singaporesales@schaffner.com

Spain

Schaffner EMC España

Calle Caléndula 93, Miniparc III, Edificio E
El Soto de Moraleja, Alcobendas
28109 Madrid
T +34 917 912 900
F +34 917 912 901
spainsales@schaffner.com

Sweden

Schaffner EMC AB

Östermalmstorg 1
114 42 Stockholm
T +46 8 5050 2425
swedensales@schaffner.com
www.schaffner.com

Switzerland

Schaffner EMV AG

Industrie Nord
Nordstrasse 11e
4542 Luterbach
T +41 32 681 66 26
switzerlandsales@schaffner.com

Taiwan R.O.C.

Schaffner EMV Ltd.

20 Floor-2, No 97, Section 1, XinTai 5th Road
22175 XiZhi District New Taipei City 22175
T +886 2 2697 5500
F +886 2 2697 5533
taiwansales@schaffner.com
www.schaffner.com.tw

Thailand

Schaffner EMC Co. Ltd.

Northern Region Industrial Estate
67 Moo 4 Tambon Ban Klang
Amphur Muangng P.O. Box 14
51000 Lamphun
T +66 53 58 11 04
F +66 53 58 10 19
thailandsales@schaffner.com

United Kingdom

Schaffner Ltd.

5 Ashville Way, Molly Millars Lane
Wokingham
RG41 2PL Berkshire
T +44 118 9770070
F +44 118 9792969
uksales@schaffner.com

USA

Schaffner EMC Inc.

52 Mayfield Avenue
Edison, New Jersey
T +1 732 225 9533
F +1 732 225 4789
usasales@schaffner.com
www.schaffnerusa.com

Schaffner North America

6722 Thirlane Road
24019 Roanoke, Virginia
T +1 276 228 7943
F +1 276 228 7953

Schaffner North America

823 Fairview Road
24382 Wytheville, Virginia
T +1 276 228 7943
F +1 276 228 7258