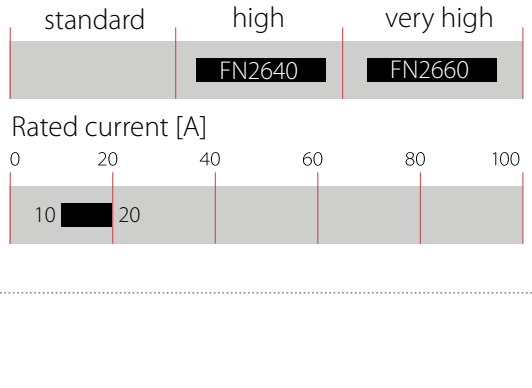
Low Profile - High performance, EMC/RFI IEC inlet filter



- Excellent IEC inlet for robotics, datacenters and other applications
- Terminals available on load side: Fast-on, wire leads, bolt, and clamps
- Voltage rating up to 250 VAC
- Fits within 1 height unit (HU) of a 19" rack application
- 40 °C operating temperature
- 2-stage filter performance

Performance indicators



Approvals & Compliances

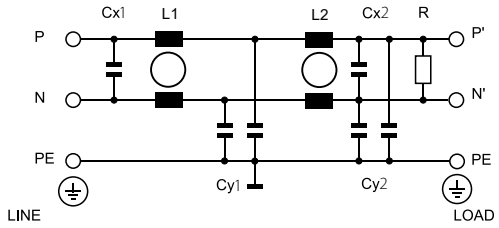
Features and Benefits

- FN2640 / FN2660 series fits perfectly within 1HU height for rack mount applications
- The filters are built to fit perfectly to datacenter and audio video equipment
- The shape allows convenient and space-saving installation
- Fulfills the requirements in IEC/EN 62040-1 - Uninterruptible power systems (UPS)
- Fulfills the requirements in IEC 62368-1 - Audio/ Video, Information and Communication Technology Equipment
- Fulfills the requirements in IEC/EN 60335-1 - Household and similar appliances

Typical Applications

- Robotics, collaborative robots, autonomous machines
- Audio and video equipment
- UPS - Uninterruptible power supplies

Typical electrical schematic



Technical Specifications

Maximum continuous operating voltage	250 VAC
Nominal operating voltage	230 VAC
Rated currents	10 to 20 A @ 40°C
Overload capability	1.5 x rated current for 1 minute once per hour
Operating frequency	DC to 60 Hz
High potential test voltage	P –> N 1500 VDC for 2 sec* P/N –> PE 2500 VDC for 2 sec*
Overvoltage category	II acc. IEC 60664-1
Pollution degree	2 acc. IEC 60664-1
Surge withstand	2 kV Ph-Ph / 4 kV Ph-PE (Level 4)
Temperature range (operation and storage)	-40°C to +85°C (with derating >40°C)
Climatic category	40/085/21 acc. IEC60068-1
Cooling	Natural cooling AN
Altitude	Derating above 2000 m
Protection category	IP00 / IP20 for -103 terminal
Flammability corresponding to	Plastic Material: UL 94 V0 Laces for -07 version: UL 94 VW1
Vibration and shock	3M12 acc. IEC 60721-3-3
Certified to	UL 60939-3, IEC/EN 60939, GB/T 15287
MTBF (Mil-HB-217F)	>300,000 h @ 40°C/230 V

* High potential test voltage: Repetition with max. 80% of specified values

Downloaded from Arrow.com.

Filter Selection Table

Filter	Rated current	Leakage current*	Power loss	Inductance**		Capacitance**				Resistance**	Connections					Weight max***
	@ 40°C	@ 250 VAC/ 50 Hz (@ 120 VAC/ 60 Hz)	@ 25°C	L1	L2	Cx1	Cx2	Cy1	Cy2	R	line side	load side				
	[A]	[mA]	[W]	[mH]	[mH]	[µF]	[µF]	[nF]	[nF]	[kΩ]	C14 C20					[kg]
Two-stage																
FN2660-10-yy-C0909	10	0.35 (0.20)	8.2	8.3	8.3	1	0.47	2.2	2.2	680		-05	-07	-08	-103	0.5
FN2660-15-yy-C0909	15	0.35 (0.20)	8.2	4.0	4.0	1	0.47	2.2	2.2	680		-05	-07	-08	-103	0.5
FN2660-16-yy-C0909	16	0.35 (0.20)	9.4	4.0	4.0	1	0.47	2.2	2.2	680		-05	-07	-08	-103	0.5
FN2660-20-yy-C0909	20	0.35 (0.20)	10.6	2.4	2.4	1	0.47	2.2	2.2	680		-05	-07	-08	-103	0.5

* Maximum leakage current under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage current could reach twice this level.
** Tolerances apply: Inductance: -30/+50%, Capacitance: ±20%, Resistance: ±10%.
*** Weight depending on choice of connectors.

Product selector

FN2660-xx-yy-C0909

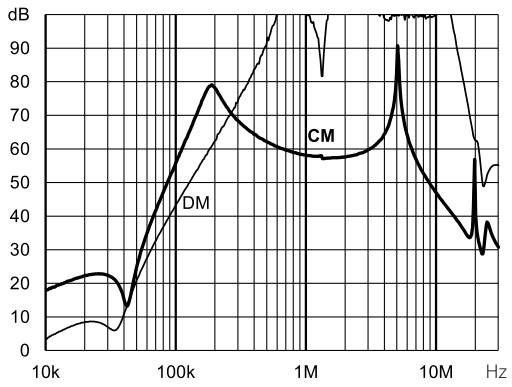
yy – Load terminal type
05: fast-on 6.3 x 0.8 mm
07: wire leads
08: M4 screw
103: push-in terminal

xx – Rated current
10-20: 10 A – 20 A

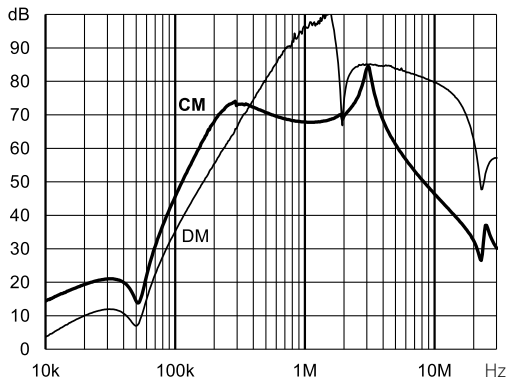
Typical Filter Attenuation

Per CISPR 17: symmetrical 50 Ω/50 Ω -> Differential Mode (DM); asymmetrical 50 Ω/50 Ω -> Common Mode (CM)

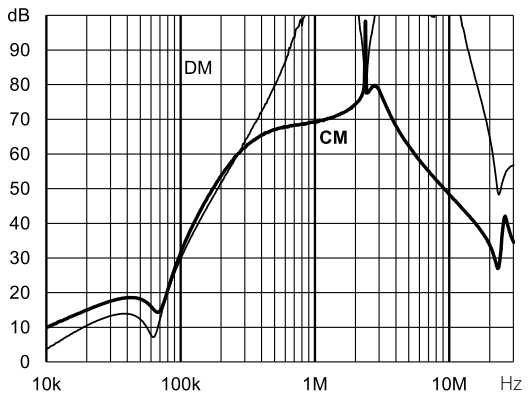
FN2660 - Two-stage filter



FN2660-10-yy-C0909



FN2660-15-yy-C0909 & FN2660-16-yy-C0909

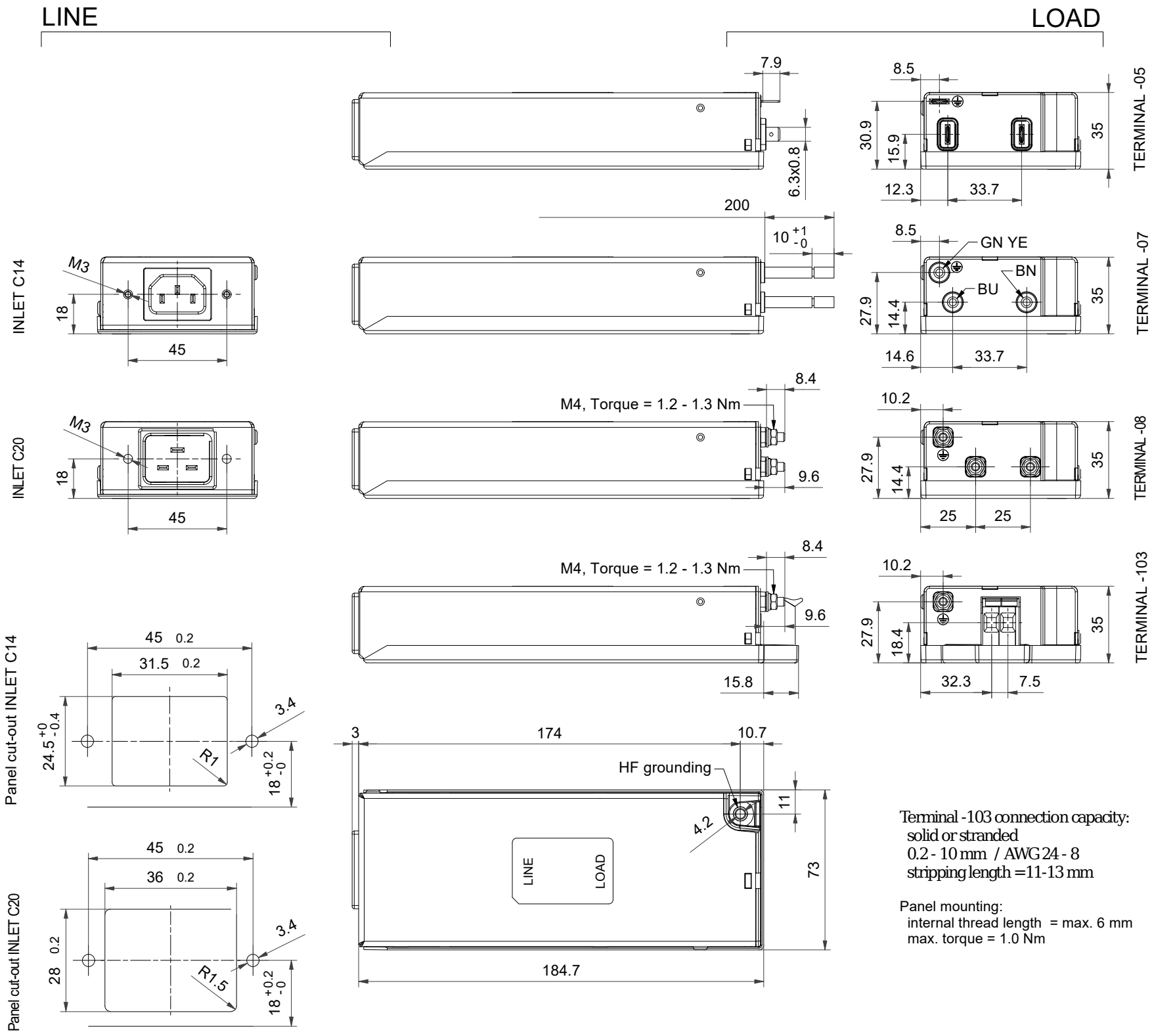


FN2660-20-yy-C0909

Downloaded from Arrow.com.

Dimensions FN2660 - Two-stage Filter

For dimensions [mm] without tolerances: ISO2768-cL/EN22768-cL applies



Terminal -103 connection capacity:
solid or stranded
0.2 - 10 mm / AWG 24 - 8
stripping length =11-13 mm

Panel mounting:
internal thread length = max. 6 mm
max. torque = 1.0 Nm

Downloaded from Arrow.com.

We are here to help



Read more insights from TE's experts:

Schaffner is now part of TE Connectivity →

Learn more about Corcom products →

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** to chat with a Product Information Specialist.

Contact a TE expert today →

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.

ED 01/25

schaffner MORE POWER TO YOU is now part of TE connectivity

Downloaded from Arrow.com.