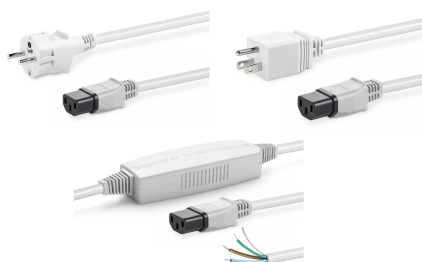


Power Cord Input EMC Filter IF 13



- High frequency attenuation
- Shielding and ferrite cable
- Easy to integrate in any design
- Retrofit for any IEC C14 inlet
- Rated current up to 10A
- Various powerline plugs for international usage



Technical specifications

Maximum continuous operating voltage	250 VAC (120V for US plug version), 50/60 Hz
Rated currents	10 A
High potential test voltage	P+N -> PE 2100 VDC (1 min) IF13-SE: P+N -> PE 2100 VAC (1 min 50Hz) P -> N 2100 VDC (1 min) IF13-SE: P -> N 1200 VDC (1 min)
Protection category	IP 20 according IEC 60529
Temperature range (operation and storage)	-25°C to +70°C
Connector (load side)	IEC C13 according to IEC/EN 60320-2-2 stripped ends
Connector (line side)	Schuko Plug CEE7/VI US NEMA5-15 plug standard stripped ends
Flammability corresponding to	Cable: UL VW-1

Approvals



The IF13 power cord with integrated filter is the easiest way to integrate an EMC filter into a given design (with a power cord). The approach to incorporate the filter in an external cable can help to pass compliance testing at the end of the design phase. The performance of the filter is enhanced through the ferrite cable and shielding. With different versions of input and output connections the cord can be easily implemented. Complying with RoHS and REACH the power cords fulfill worldwide environmental regulations.

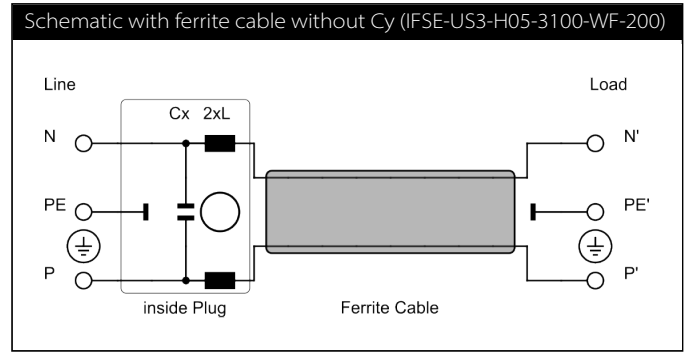
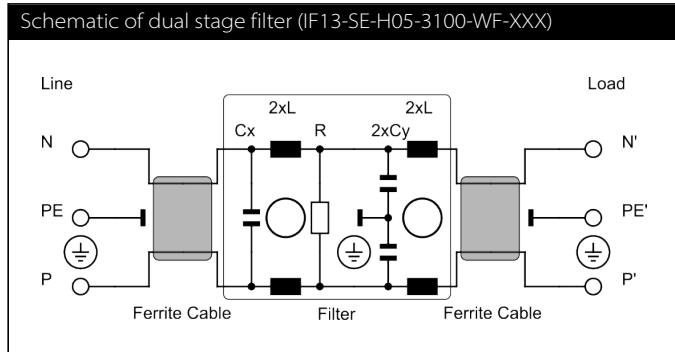
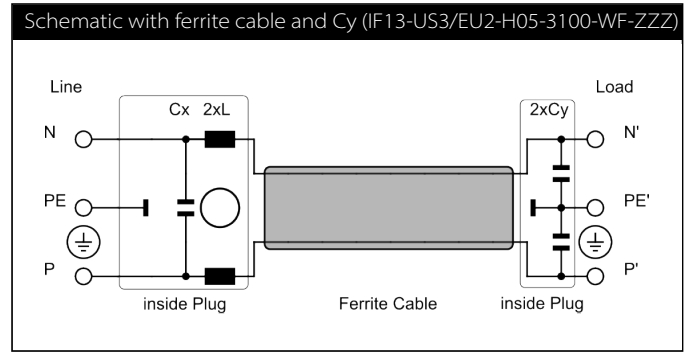
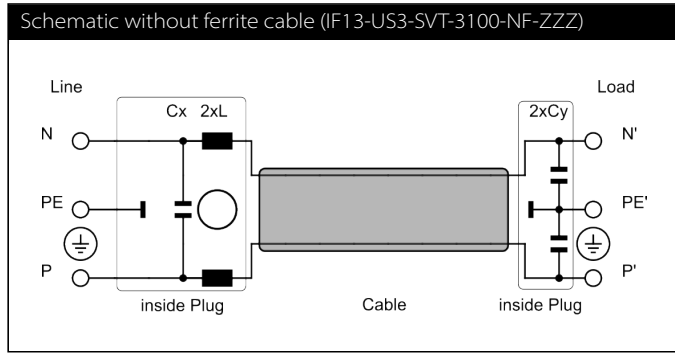
Features and benefits

- Easy to implement, no redesign required
- EMC lifeline at last design stage
- High performance in high frequency range
- Retrofit for cord connected devices
- no space allocation required for filter

Typical applications

- All cord connected applications
- Datacenter
- Communication Technology
- Medical and Laboratory devices
- Security applications
- High frequency applications
- Applications with critical housing dimensions (cable is external)

Typical electrical schematics



Filter selection table

Filter*	Rated current @ 40°C (25°C) [A]	Leakage current** @ 250V AC/50 Hz @ 120V AC/60 Hz [mA]	Inductance L [mH]	Capacitance		Resistance R [kΩ]	Ferrite Cable***	Input connection	Output connection	Weight (200 cm) [g]
				Cx [μF]	Cy [nF]					
IF13-US3-SVT-3100-NF-...	10	0.31 (0.18)	0.8	0.1	2.2		no	NEMA5-15	C13	240
IF13-US3-H05-3100-WF-...	10	0.31 (0.18)	0.8	0.1	2.2		yes	NEMA5-15	C13	340
IF13-EU2-H05-3100-WF-...	10	0.31 (0.18)	0.8	0.1	2.2		yes	CEE7/VII	C13	360
IF13-SE-H05-3100-WF-...	10	0.31 (0.18)	0.8 (2x)	0.1	2.2	1000	yes	Stripped Ends	C13	410
IFSE-US3-H05-3100-WF-...	10	0	0.8	0.1			yes	NEMA5-15	Stripped Ends	310

* To compile a complete part number, please replace the -.. with the required length.
 ** 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.
 *** All cable is shielded

Product selector IF 13

IFxx-yyy-zzz-aaaa-bb-ccc:

- Cable length: 200 – 200cm
- Cable version: WF – With ferrite cable
NF – without ferrite cable
- Cable core: 3100 – 3 X 1.00 mm² (US: AWG 18)
- Cable type: H05 - H05VV-F
SVT - SVT
- Line side plug: EU2 – CEE7/VII straight, integrated filter
US3 – NEMA5-15, straight, integrated filter
SE – with stripped ends
- Load side plug: 13 - IEC C13 female plug, straight, integrated filter
SE – with stripped ends

Cable* selection table IF 13

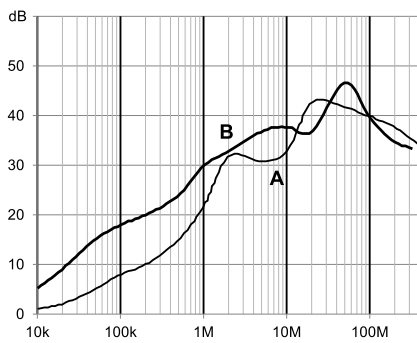
IF 13-US3-SVT-3100-NF-...	IEC cable assembly with input EMC Filter, IEC C13 connector, without ferrite coated cable, US version
IF 13-US3-H05-3100-WF-...	IEC cable assembly with input EMC Filter, IEC C13 connector, with ferrite coated cable, US version
IF 13-EU2-H05-3100-WF-...	IEC cable assembly with input EMC Filter, IEC C13 connector, with ferrite coated cable, EU version
IF 13-SE-H05-3100-WF-...	IEC cable assembly with EMC Filter, IEC C13 connector, with ferrite coated cable, stripped version
IF SE-US3-H05-3100-WF-...	IEC cable assembly with input EMC Filter, stripped output, with ferrite coated cable, US version

* All cables are shielded

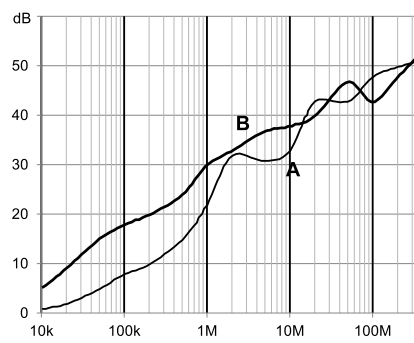
Typical filter attenuation

Per CISPR 17; A=50 Ω /50 Ω sym; B=50 Ω /50 Ω asym

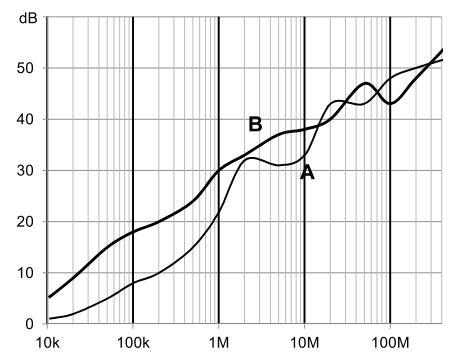
IF13-US3-SVT-3100-NF-200



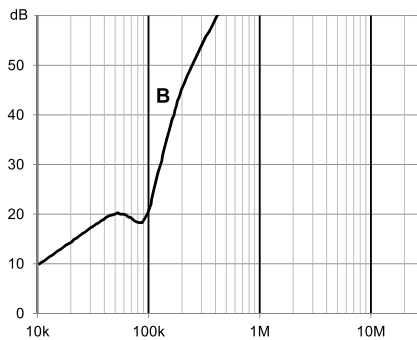
IF13-US3-H05-3100-WF-200



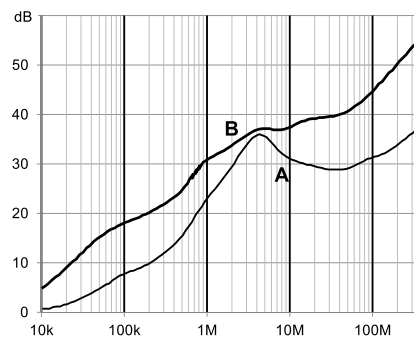
IF13-EU2-H05-3100-WF-200



IF13-SE-H05-3100-WF-200



IFSE-US3-H05-3100-WF-200





Headquarters, global innovation and development

Switzerland

Schaffner Group

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



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 50 468 7284
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
Malleswaram (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.

1-32-12, Kamiyama, Setagaya-ku
7F Mitsui-seimei Sangenjaya Bldg.
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

Tegeluddsvägen 76, 2tr
115 28 Stockholm
T +46 8 5050 2425
swedensales@schaffner.com
www.schaffner.com

Switzerland

Schaffner EMV AG

Nordstrasse 11
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
08837 Edison, New Jersey
T +1 800 367 5566
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

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