

## IEC Appliance Inlet C14 Modular Assembling Options

Standard- or Medical-Filter



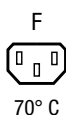
Snap-In Version



5411.XX5X.XXX  
Appliance inlet  
Fuseholder  
Line filter



5431.X05X.XXX  
Appliance inlet  
Appliance outlet  
Switch  
Line filter



### Description

- Panel Mount:  
Snap-in version from front side
- 2 - 5 Functions:  
Appliance Inlet Protection class I, Connector, Line Switch 2-pole, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole, Line filter in standard and medical version
- Solder terminals 3.5 x 0.8 mm or quick connect terminals 6.3 x 0.8 mm

### Approvals

- VDE Certificate Number: 101307
- UL File Number: E72928

### Characteristics

- Modular component selection
- Individual components soldered on a printed circuit board
- Plug removal necessary for fuse-link replacement
- Technical data of filter-components see blockfilter type 5500
- Fully insulated from the rear
- Suitable for use in equipment according to IEC/UL 60950  
Suitable for use in medical equipment according to IEC/UL 60601-1

### Other versions on request

- Line switch with other rocker marking

### References

Alternative: version without line filter [Felcom 64](#)  
Alternative: Standard version

### Weblinks

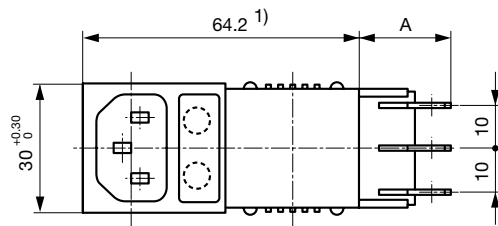
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Detailed request for product](#)

### Technical Data

|                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| Ratings IEC               | 1 - 10A @ Ta 40 °C / 250VAC; 50Hz                                         |
| Ratings UL/CSA            | 1 - 10A @ Ta 40 °C / 250VAC; 60Hz                                         |
| Leakage Current           | standard < 0.5mA (250V / 60Hz)<br>medical < 5 µA (250 V / 60 Hz)          |
| Dielectric Strength       | > 1.7kVDC between L-N<br>> 2.7kVDC between L/N-PE<br>Test voltage (2 sec) |
| Allowable Operation Temp. | -25 °C to 85 °C                                                           |
| Climatic Category         | 25/085/21 acc. to IEC 60068-1                                             |
| Degree of Protection      | from front side IP 40 acc. to IEC 60529                                   |
| Protection Class          | Suitable for appliances with protection class I acc. to IEC 61140         |
| Terminal                  | Solder terminals 3.5 x 0.8 mm or quick connect terminals 6.3 x 0.8 mm     |
| Panel Thickness s         | Snap-in: 1/1.2/1.5/2/2.5/3mm1/1.2/1.5/2/2.5/3 mm                          |
| Material: Housing         | Thermoplastic, black, UL 94V-0                                            |

|                                   |                                                                                                                                                 |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Appliance-Inlet/-Outlet           | C14 acc. to IEC 60320,<br>F acc. to IEC 60320,<br>UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I |
| Fuseholder                        | 1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20mm                                                                |
| Rated Power Acceptance @ Ta 23 °C | 5 x 20: 2W (1 pole)/ 1.6W (2-pole) per pole                                                                                                     |
| Power Acceptance @ Ta > 23°C      | Admissible power acceptance at higher ambient temperature see derating curves                                                                   |
| Line Switch                       | Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1<br><a href="#">Technical Details</a>                                                 |
| Line Filter                       | Standard Version, IEC 60939, UL 1283, CSA C22.2 no. 8<br><a href="#">Technical Details</a>                                                      |
| MTBF                              | > 1'400'000h acc. to MIL-HB-217 F                                                                                                               |

## Dimension

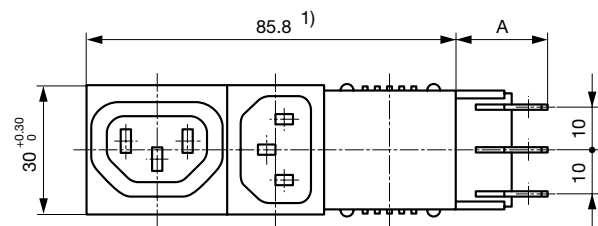


Variants 5411.XX5X.XXX

Mounting hole:  $63^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

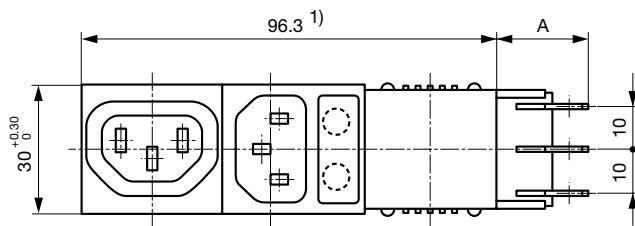


Variants 5421.X05X.XXX

Mounting hole:  $85.9^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

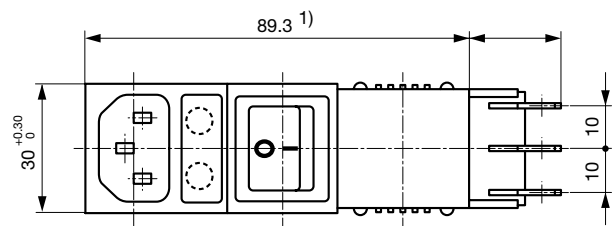


Variants 5423.XX5X.XXX

Mounting hole:  $96.4^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

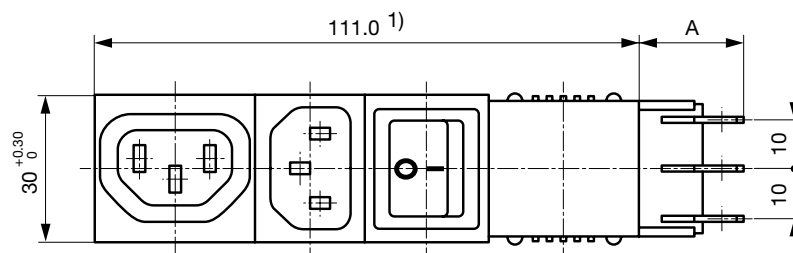


Variants 5424.XX5X.XXX

Mounting hole:  $87.9^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm



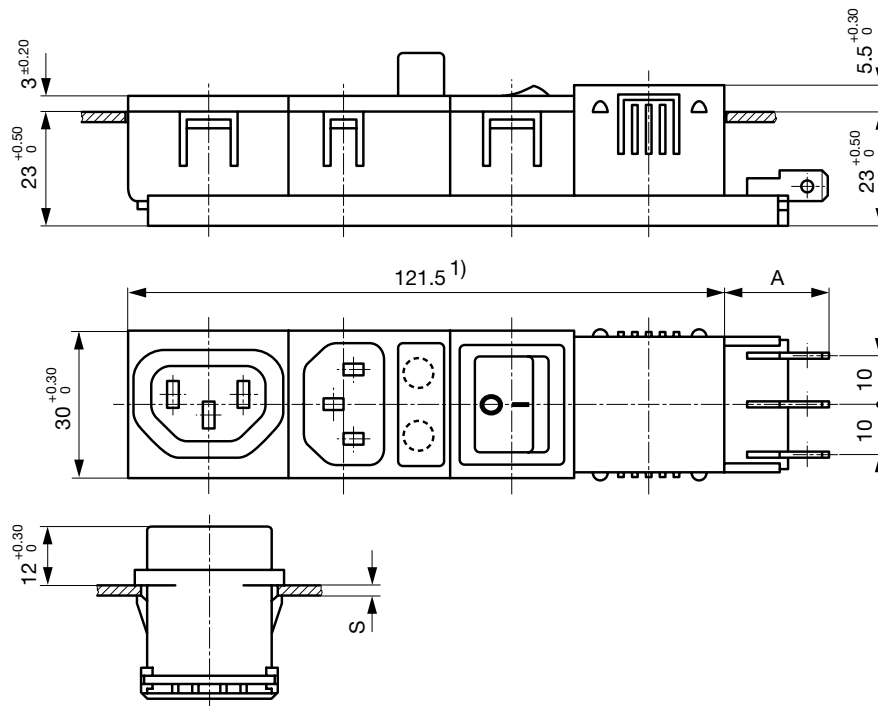
Variants 5431.X05X.XXX

Mounting hole:  $111.1^{+0.2}_{-0} \times 27.6^{+0.2}_{-0}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

1) In an uninstalled state the total length of the combinations may be slightly bigger than the nominal dimension. However, they can always be installed in the specified mounting cutouts.



Variants 5432.XX5X.XXX

Mounting hole:  $121.6^{+0.2} \times 27.6^{+0.2}$

A: Quick-connect terminal 6.3x0.8 mm: 22 mm

A: Solder terminal 3.5x0.8 mm: 17.5 mm

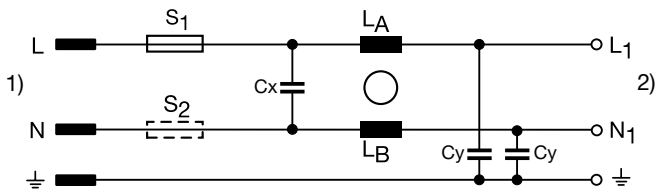
1) In an uninstalled state the total length of the combinations may be slightly bigger than the nominal dimension. However, they can always be installed in the specified mounting cutouts.

#### Technical Data of Filter-Components

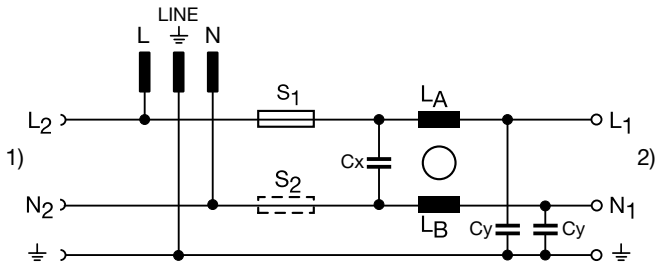
| Rated Current<br>[A] | Filter-Type          | Inductances<br>L [mH] | Capacitance<br>CX [nF] | Capacitance<br>CY [nF] | R [MΩ] |
|----------------------|----------------------|-----------------------|------------------------|------------------------|--------|
| 1                    | Standard Version     | 2 x 11                | 47                     | 2.2                    | -      |
| 2                    | Standard Version     | 2 x 4                 | 47                     | 2.2                    | -      |
| 4                    | Standard Version     | 2 x 1.6               | 47                     | 2.2                    | -      |
| 6                    | Standard Version     | 2 x 0.7               | 47                     | 2.2                    | -      |
| 8                    | Standard Version     | 2 x 0.6               | 47                     | 2.2                    | -      |
| 10                   | Standard Version     | 2 x 0.4               | 47                     | 2.2                    | -      |
| 1                    | Medical Version (M5) | 2 x 11                | 47                     | -                      | 1      |
| 2                    | Medical Version (M5) | 2 x 4                 | 47                     | -                      | 1      |
| 4                    | Medical Version (M5) | 2 x 1.6               | 47                     | -                      | 1      |
| 6                    | Medical Version (M5) | 2 x 0.7               | 47                     | -                      | 1      |
| 8                    | Medical Version (M5) | 2 x 0.6               | 47                     | -                      | 1      |
| 10                   | Medical Version (M5) | 2 x 0.4               | 47                     | -                      | 1      |

Diagrams

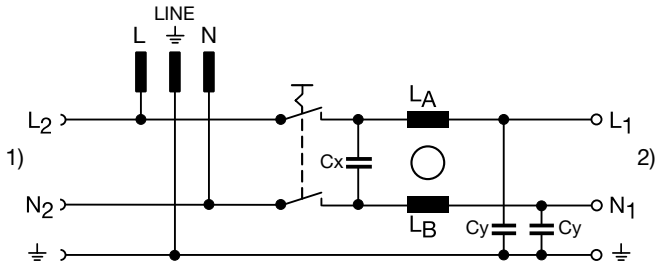
5411



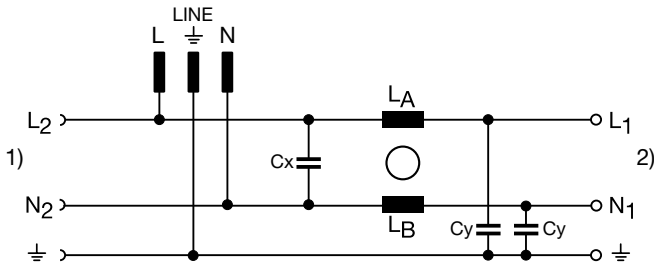
5423



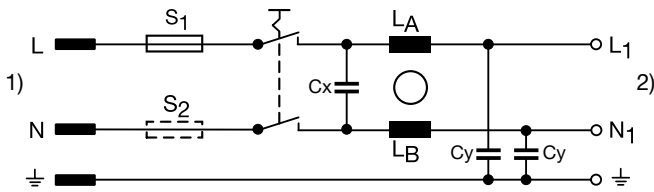
5431



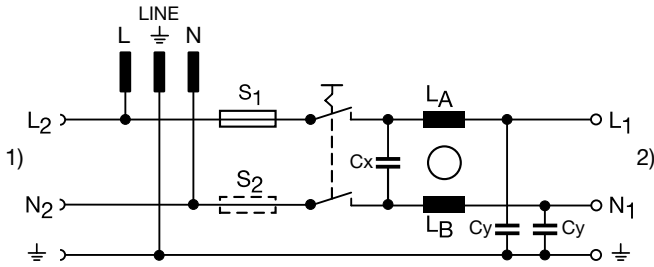
5421



5424

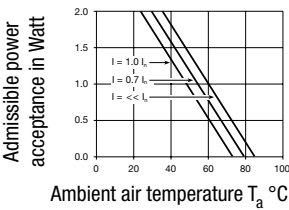


5432

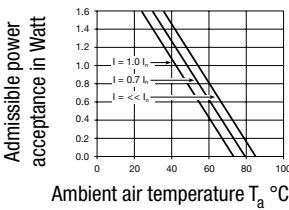


Derating Curves

1-pole



2-pole



## Ordering instructions

54 XX.X X XX.XX X

**Type of line filter**  
1 = standard  
3 = medical

**"Snap-in" panel thickness**  
10 = 1,0 mm  
12 = 1,2 mm  
15 = 1,5 mm  
20 = 2,0 mm  
25 = 2,5 mm  
30 = 3,0 mm

**Connection**  
51 = solder terminals 3,5 x 0,8 mm  
53 = quick connect terminals 6,3 x 0,8 mm

**Fuseholder 5 x 20 mm**  
0 = without fuseholder  
1 = 1-pole  
2 = 2-pole

**Line filter**  
1 = 1 Amp.  
2 = 2 Amp.  
4 = 4 Amp.  
6 = 6 Amp.  
8 = 8 Amp.  
9 = 10 Amp.

**Module combination**  
11 = Appliance inlet, fuseholder  
21 = Appliance inlet, appliance outlet  
23 = Appliance inlet, fuseholder, appliance outlet  
24 = Appliance inlet, fuseholder, switch  
31 = Appliance inlet, appliance outlet, switch  
32 = Appliance inlet, fuseholder, appliance outlet, switch

Base model

## All Variants

| Type      | Rated Current [A] | Filter-Type          | Panel Thickness [mm] | connection type                      | Line Switch | Fuseholder | Connectors | Connector | Order Number  |
|-----------|-------------------|----------------------|----------------------|--------------------------------------|-------------|------------|------------|-----------|---------------|
| Felcom 54 | 1                 | Standard Version     | 3.0                  | Solder terminals 3.5 x 0.8 mm        | 2-pole      | 1-pole     | C14        | -         | 5424.1151.301 |
| Felcom 54 | 1                 | Standard Version     | 3.0                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 1-pole     | C14        | -         | 5424.1153.301 |
| Felcom 54 | 1                 | Standard Version     | 2.0                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 2-pole     | C14        | -         | 5424.1253.201 |
| Felcom 54 | 1                 | Medical Version (M5) | 3.0                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 2-pole     | C14        | -         | 5424.1253.303 |
| Felcom 54 | 2                 | Standard Version     | 2.5                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 2-pole     | C14        | -         | 5424.2253.251 |
| Felcom 54 | 2                 | Standard Version     | 3.0                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 2-pole     | C14        | F         | 5432.2253.301 |
| Felcom 54 | 2                 | Medical Version (M5) | 1.5                  | Quick connect terminals 6.3 x 0.8 mm | -           | 2-pole     | C14        | -         | 5411.2253.151 |
| Felcom 54 | 2                 | Medical Version (M5) | 1.5                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 2-pole     | C14        | -         | 5424.2253.153 |
| Felcom 54 | 4                 | Standard Version     | 1.5                  | Quick connect terminals 6.3 x 0.8 mm | -           | 2-pole     | C14        | -         | 5411.4253.151 |
| Felcom 54 | 4                 | Standard Version     | 1.5                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 2-pole     | C14        | -         | 5424.4253.151 |
| Felcom 54 | 4                 | Standard Version     | 2.0                  | Solder terminals 3.5 x 0.8 mm        | 2-pole      | 2-pole     | C14        | F         | 5432.4251.201 |
| Felcom 54 | 4                 | Standard Version     | 2.0                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 2-pole     | C14        | F         | 5432.4253.201 |
| Felcom 54 | 4                 | Medical Version (M5) | 1.0                  | Quick connect terminals 6.3 x 0.8 mm | -           | 2-pole     | C14        | -         | 5411.4253.103 |
| Felcom 54 | 4                 | Medical Version (M5) | 1.5                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 2-pole     | C14        | -         | 5424.4253.153 |
| Felcom 54 | 4                 | Medical Version (M5) | 3.0                  | Quick connect terminals 6.3 x 0.8 mm | 2-pole      | 2-pole     | C14        | -         | 5424.4253.303 |

Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Packaging unit 10 Pcs

Accessories

Description



[Cord retaining kits](#)  
Cord retaining strain relief

|              |           |
|--------------|-----------|
| Flat head, A | 4700.0001 |
|--------------|-----------|

Mating Inlets/Plugs

Category / Description

[Plug Overview complete](#)



|                                                                               |      |
|-------------------------------------------------------------------------------|------|
| IEC Plug E, Cord Connector (Rewireable), Straight, max. cable Diameter 8.5 mm | 4732 |
| IEC Plug E, Cord Connector (Rewireable), Straight, max. Cable Diameter 10 mm  | 4735 |
| IEC Plug E, Cord Connector (Rewireable), Straight                             | 9009 |
| IEC Plug E, Cord Connector (Rewireable), Angled, max. Cable Diameter 8.5 mm   | 4733 |
| IEC Plug E, Cord Connector (Rewireable), Angled, max. Cable Diameter 10 mm    | 4736 |
| <a href="#">Plug further types to Felcom 54</a>                               | ...  |

Mating Outlets/Connectors

[Appliance Outlet Overview complete](#)



|                                                                                                   |      |
|---------------------------------------------------------------------------------------------------|------|
| IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal                            | 4787 |
| IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal            | 4788 |
| IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal | 5091 |
| <a href="#">Appliance Outlet further types to Felcom 54</a>                                       |      |

[Connector Overview complete](#)



|                                                                                 |         |
|---------------------------------------------------------------------------------|---------|
| 4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13    | 4782    |
| 4022 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13 | 4022    |
| 4785 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13    | 4785    |
| 4300-06 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13 | 4300-06 |
| 4012 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13 | 4012    |
| <a href="#">Connector further types to Felcom 54</a>                            | ...     |