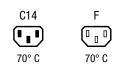
### IEC Appliance Inlet C14 Modular Assembling Options

## Felcom 54



Power Entry Module with Appliance Inlet, Appliance Outlet, Fuse Drawer, Line Switch and EMC Filter

Snap-in version



### Description

- Panel mount :
- Snap-in version 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 / quick connect terminals 6.3 x 0.8 mm



Power Entry Module with Appliance Outlet, Fuse Drawer and EMC Filter



Power Entry Module with Appliance Inlet, Appliance Outlet, Line Switch and EMC Filter

#### See below: Approvals and Compliances

#### **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 medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP)
- For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

#### Other versions on request

- Line switch with other rocker marking

#### References

Alternative: version without line filter Felcom 64 Alternative: Standard version

#### Weblinks

pdf data sheet, html datasheet, General Product Information, Approvals, Distributor-Stock-Check, Accessories, Detailed request for product

#### **Technical Data**

Ratings IEC	1 - 10A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 10A @ Ta 40 °C / 250 VAC; 60 Hz
Leakage Current	standard < 0.5 mA (250 V / 60 Hz)
	medical < 5 μA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N
	> 2.7 kVDC between L/N-PE
	Test voltage (2 sec)
Allowable Operation Tempe-	-25 °C to 85 °C
rature	
Climatic Category	25/085/21 acc. to IEC 60068-1
IP-Protection	front side IP40 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 / 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	Thermoplastic, black, UL 94V-0

Appliance inlet/-outlet	C14 acc. to IEC 60320-1, F acc. to UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I
Fuseholder	1-/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: 2 W (1 pole)/ 1.6 W (2-pole) per pole
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating cur- ves
Line Switch	Rocker switch 2-pole, non-illuminated, acc. to IEC 61058-1 Technical Details
Line Filter	Standard version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 1'400'000 h acc. to MIL-HB-217 F

#### **Approvals and Compliances**

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

# Felcom 54

## Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: Felcom

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 101307
c <b>FL</b> us	UL Approvals	UL	UR File Number: E72928

## Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
IEC	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
IEC	Designed according to	IEC 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links
IEC	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
<b>(h)</b>	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
<b>(h)</b>	Designed according to	UL 1283	Passive filters for suppressing electromagnetic interference
GE Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
CSA Group	Designed according to	CSA C22.2 no. 8	Electromagnetic interference (EMI) filters

### Application standards

Application standards where the product can be used

	•		
Organization	Design	Standard	Description
IEC.	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
IEC	Suitable for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
IEC	Suitable for applications acc.	IEC 60335-1	Safety of electrical appliances for household and similar purposes. Meets the requirements for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 & -13.

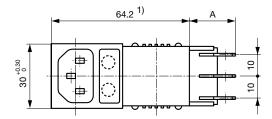
#### Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
<b>(</b>	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.
00	White Paper Glow wire test	SCHURTER AG	Meets the requirements of IEC 60335-1 for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 &-13.
T	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP)

## Felcom 54

### **Dimension** [mm]



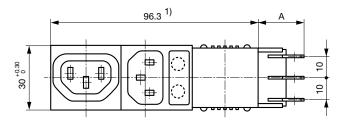
Variants 5411.XX5X.XXX

Mounting hole: 63 +0.2 x 27,6 +0.2

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

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

S: Panel thickness

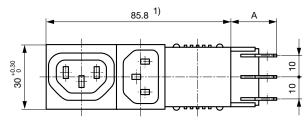


Variants 5423.XX5X.XXX

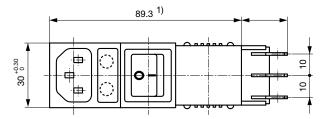
Mounting hole: 96.4+0,2 x 27.6+0,2

- A: Quick-connect terminal 6.3x0.8 mm: 22 mm
- A: Solder terminal 3.5x0.8 mm: 17.5 mm

S: Panel thickness



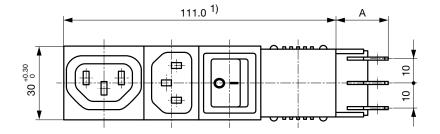
Variants 5421.X05X.XXX Mounting hole: 85.9+0,2 x 27.6+0,2 A: Quick-connect terminal 6.3x0.8 mm: 22 mm A: Solder terminal 3.5x0.8 mm: 17.5 mm S: Panel thickness



Variants 5424.XX5X.XXX

- Mounting hole: 87.9+0,2 x 27.6+0,2
- A: Quick-connect terminal 6.3x0.8 mm: 22 mm
- A: Solder terminal 3.5x0.8 mm: 17.5 mm

S: Panel thickness



Variants 5431.X05X.XXX

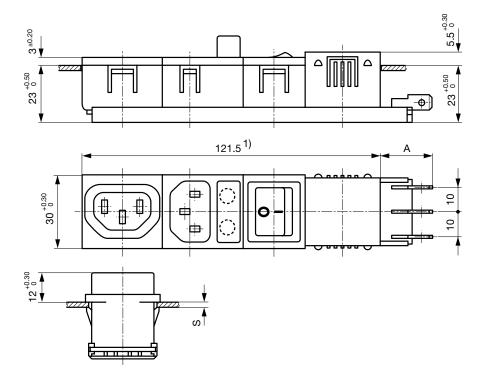
Mounting hole: 111.1+0,2 x 27.6+0,2

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

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

S: Panel thickness

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 x 27.6+0,2

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

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

S: Panel thickness

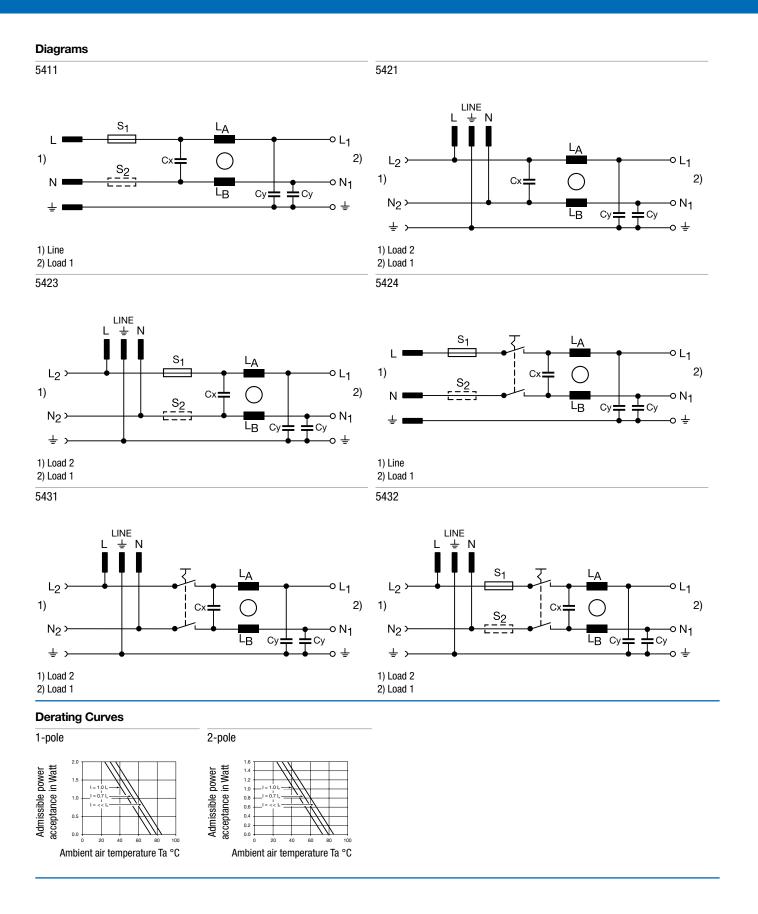
1) In an uninstalled state the total length of the combinations may be slightly bigger than the nominal dimension. However, they can always be installed in the specified mounting cutouts.

### **Technical Data of Filter-Components**

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	<b>R [Μ</b> Ω]
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

### Power Entry Modules with Line Filter https://www.schurter.com /PG06

# Felcom 54



### Variants

Туре	Rated Cur- rent [A]	Filter-Type	Panel Thick- ness s [mm]	Connection type	Line Switch	Fuseholder	Connectors	Connector	Order Number
Felcom 54	1	Standard version	1.5	Solder terminals 3.5 x 0.8 mm	-	1-pole	C14	-	5411.1151.151
Felcom 54	1	Standard version	2.5	Solder terminals 3.5 x 0.8 mm	-	1-pole	C14	-	5411.1151.251
Felcom 54	1	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.1253.151
Felcom 54	1	Standard version	2.0	Quick connect terminals 6.3 x 0.8 mm	-	-	C14	F	5421.1053.201
Felcom 54	1	Standard version	1.5	Solder terminals 3.5 x 0.8 mm	2-pole	1-pole	C14	-	5424.1151.151
Felcom 54	1	Standard version	2.0	Solder terminals 3.5 x 0.8 mm	2-pole	1-pole	C14	-	5424.1151.201
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	2.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	1-pole	C14	-	5424.1153.201
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	1.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.1253.101
Felcom 54	1	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.1253.151
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	Standard version	3.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.1253.301
Felcom 54	1	Standard version	2.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	1-pole	C14	F	5432.1153.251
Felcom 54	1	Standard version	2.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.1253.201
Felcom 54	1	Medical Version (M5)	2.0	Solder terminals 3.5 x 0.8 mm	-	2-pole	C14	-	5411.1251.203
Felcom 54	1	Medical Version (M5)	2.0	Solder terminals 3.5 x 0.8 mm	2-pole	2-pole	C14	-	5424.1251.203
Felcom 54	1	Medical Version (M5)	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.1253.153
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	1.2	Solder terminals 3.5 x 0.8 mm	-	1-pole	C14	-	5411.2151.121
Felcom 54	2	Standard version	2.0	Solder terminals 3.5 x 0.8 mm	-	-	C14	F	5421.2051.201
Felcom 54	2	Standard version	1.5	Solder terminals 3.5 x 0.8 mm	2-pole	1-pole	C14	-	5424.2151.151
Felcom 54	2	Standard version	2.5	Solder terminals 3.5 x 0.8 mm	2-pole	1-pole	C14	-	5424.2151.251
Felcom 54	2	Standard version	1.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	1-pole	C14	-	5424.2153.101
Felcom 54	2	Standard version	1.2	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.2253.121
Felcom 54	2	Standard version	2.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.2253.201
Felcom 54	2	Standard version	3.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.2253.301
Felcom 54	2	Standard version	1.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	-	C14	F	5431.2053.101
Felcom 54	2	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	1-pole	C14	F	5432.2153.151
Felcom 54	2	Standard version	1.2	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.2253.121
Felcom 54	2	Standard version	2.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.2253.201
Felcom 54	2	Standard version	2.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.2253.251
Felcom 54	2	Medical Version (M5)	1.2	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.2253.123
Felcom 54	2	Medical Version (M5)	2.0	Solder terminals 3.5 x 0.8 mm	2-pole	2-pole	C14	-	5424.2251.203
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	2	Medical Version (M5)	2.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.2253.203
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	2.5	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.4253.251
Felcom 54	4	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	-	-	C14	F	5421.4053.151
Felcom 54	4	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	F	5423.4253.151
Felcom 54	4	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	1-pole	C14	-	5424.4153.151
Felcom 54	4	Standard version	1.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.4253.101

## Felcom 54

Туре	Rated Cur- rent [A]	Filter-Type	Panel Thick- ness s [mm]	Connection type	Line Switch	Fuseholder	Connectors	Connector	Order Number
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	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.4253.201
Felcom 54	4	Standard version	2.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.4253.251
Felcom 54	4	Standard version	2.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	1-pole	C14	F	5432.4153.251
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	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.4253.151
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)	1.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.4253.103
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)	2.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.4253.203
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
Felcom 54	6	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.6253.151
Felcom 54	6	Standard version	2.0	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.6253.201
Felcom 54	6	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	F	5423.6253.151
Felcom 54	6	Standard version	2.0	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	F	5423.6253.201
Felcom 54	6	Standard version	3.0	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	F	5423.6253.301
Felcom 54	6	Standard version	1.5	Solder terminals 3.5 x 0.8 mm	2-pole	1-pole	C14	-	5424.6151.151
Felcom 54	6	Standard version	1.2	Quick connect terminals 6.3 x 0.8 mm	2-pole	1-pole	C14	-	5424.6153.121
Felcom 54	6	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	1-pole	C14	-	5424.6153.151
Felcom 54	6	Standard version	1.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.6253.101
Felcom 54	6	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.6253.151
Felcom 54	6	Standard version	2.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.6253.201
Felcom 54	6	Standard version	2.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.6253.251
Felcom 54	6	Standard version	3.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	-	5424.6253.301
Felcom 54	6	Standard version	2.0	Solder terminals 3.5 x 0.8 mm	2-pole	2-pole	C14	F	5432.6251.201
Felcom 54	6	Standard version	1.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.6253.101
Felcom 54	6	Standard version	1.5	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.6253.151
Felcom 54	6	Standard version	3.0	Quick connect terminals 6.3 x 0.8 mm	2-pole	2-pole	C14	F	5432.6253.301
Felcom 54	6	Medical Version (M5)	2.5	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.6253.253
Felcom 54	8	Standard version	1.2	Quick connect terminals 6.3 x 0.8 mm	-	2-pole	C14	-	5411.6253.121

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

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



4732, Mounting: Power Cord, Plug: IEC E, Cable	4732
4735, Mounting: Power Cord, Plug: IEC E, Cable	4735
9009, Mounting: Plug: IEC E, Screw clamps	9009
4733, Mounting: Power Cord, Plug: IEC E, Cable	4733
4736, Mounting: Power Cord, Plug: IEC E, Cable	4736

### Mating Outlets/Connectors



#### Appliance Outlet Overview complete

4787, Mounting: Screw-on mounting, Appliance Outlet: IEC Solder terminals, 10 A, Suitable for appliances with pro- tection class I	4787
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091

#### Connector Overview complete



4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4785 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C13	4785
4300-06 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
4781 Mounting: Power Cord, Cable, Connector: IEC C15	4781
4784 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C15	4784

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Schurter:

5411.1151.1515411.2253.1235411.4253.1035411.4253.1535411.6253.1215423.2153.1515424.1151.1515424.1153.1515424.1153.3015424.1251.1515424.1253.1515424.2253.2035424.4253.1515424.4253.1535424.4253.2035424.6253.1515424.6253.3015432.2253.1215432.2253.2535432.6253.1515432.6253.3015411.4253.1515411.6253.2535424.4253.2515432.4153.2515424.2253.2535431.6053.301