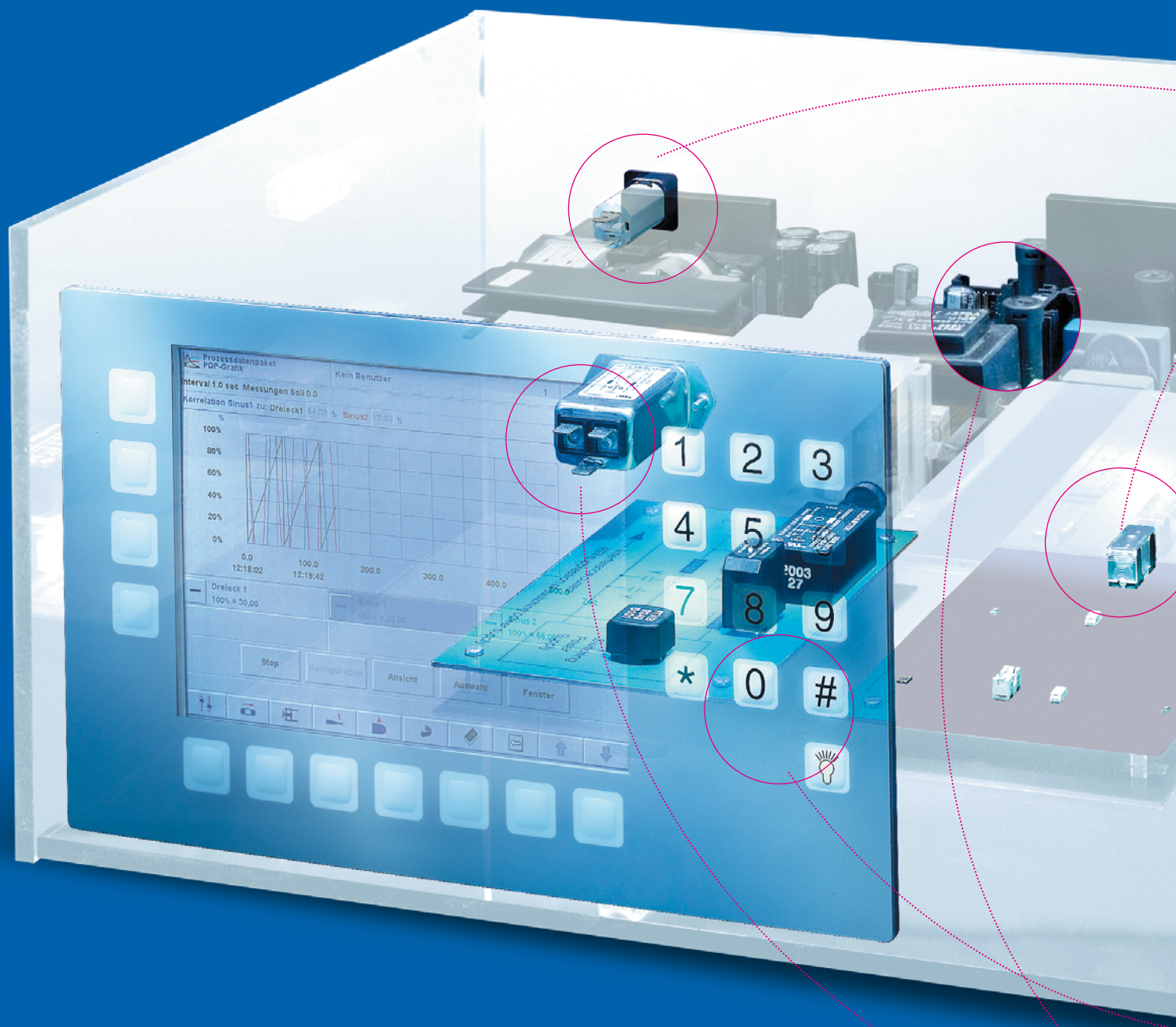


Distribution Units



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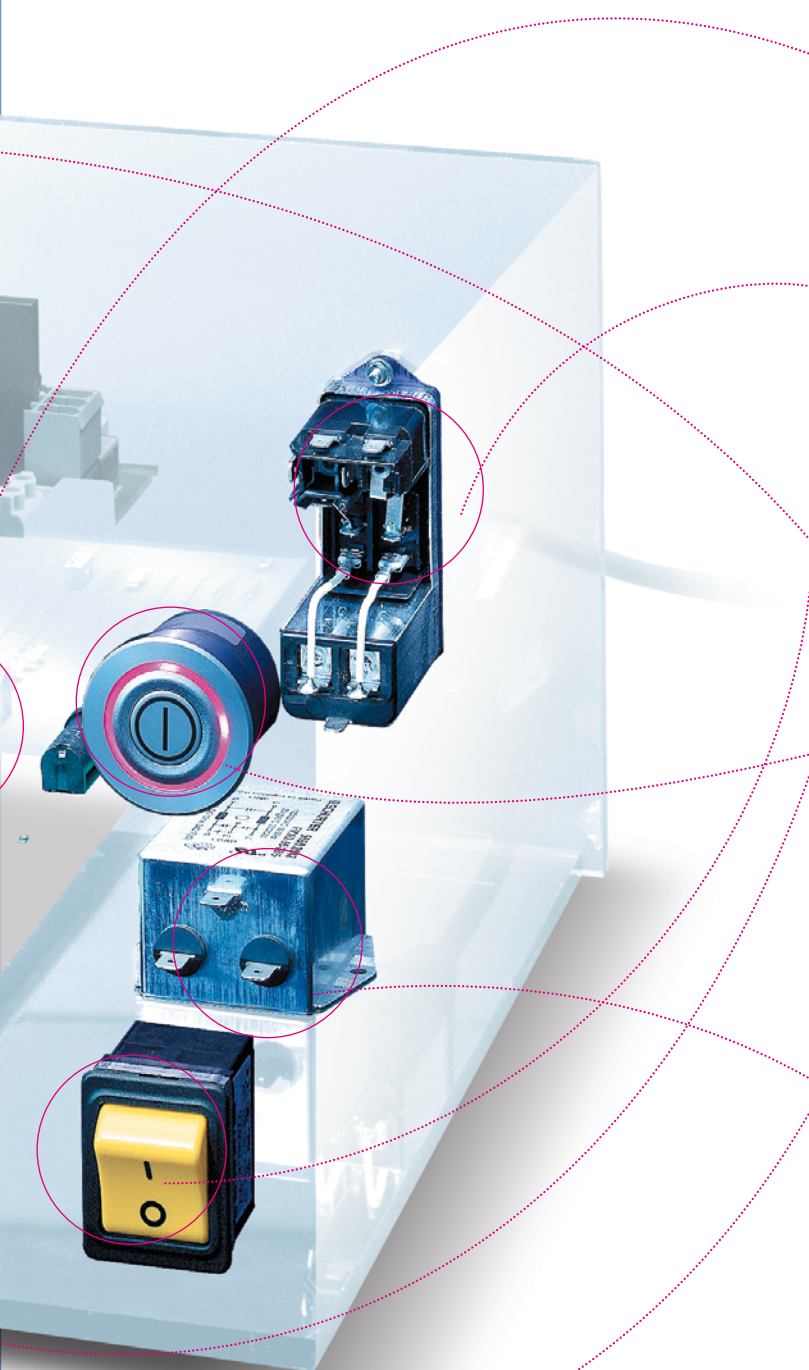


“We rely on reliability and flexibility; that is why we produce your products by our qualified and motivated employee.”

Battista Filippini, CEO Ticomel SA (a member of the SCHURTER Group)

> the Schurter Range at the Glance

SCHURTER is a progressive innovator and manufacturer of fuses, connectors, circuit breakers, input systems, EMC products and manufacturing services for the electronics industry. We focus on components that ensure safe supply of power and make the interface between human and machine easier.



■ fuses

- non resettable fuses
- telecom fuses
- resettable fuses
- fuseholders
- fuseholders blocks & clips

■ connectors

- power entry modules without line filter
- power entry modules with line filter
- appliance couplers
- cord connectors (rewireable)
- distribution units
- cord sets

■ circuit breakers

- thermal (t- and ta-line)
- thermal-magnetic (tm- and as-line)
- undervoltage protection
- power entry modules with CBE

■ input systems

- printmount switches
- frontpanel switches
- public transport switch
- metal line switches
- sensor switches
- membrane keypads
- sensor keypad
- metal line keypads
- touch panel / touch screen
- housing systems and front panels

■ EMC products

- power entry modules with line filter
- 1-phase line filters
- 3-phase line filters
- chokes
- pulse transformers
- power stage driver modules

■ other products

- voltage selector
- test jacks & probes
- indicators
- data & signal, audio, dc/ din connectors

■ EMS

- Electronic Manufacturing Services



Description Approvals	Rated Current IEC/UL	Mounting Style Mounting Side	Appliance Inlet	Connector	Terminal	Web Reference or Type
Distribution Unit for Snap Mounting with 1 IEC Appliance Connector C14 and 1 Plug F     	10A / 10A	- Snap-in - Front-Side - Solder or Quick-Connect	C14  70° C	F  70° C	1 In, 1 out	0712 10
Distribution Unit for Screw Mounting with 1 IEC Appliance Plug C14 and 1 -Connector F     	10A / 15A	- Screw-on - Front-Side - Solder or Quick-Connect	C14  70° C	F  70° C	1 In, 1 out	1050 13
Distribution Unit for Screw Mounting with 1 IEC Appliance Plug C14 and 1 -Connector F     	10A / 15A	- Screw-on - Front-Side - Solder or Quick-Connect	C14  70° C	F  70° C	1 In, 1 out	1051 14
IEC gender changer IEC C20 / IEC J, screw-on mounting	16A / 20A	- Screw-on - Front-/Rear-Side - Plug and Connector	C20  70° C		1 In, 1 out	4730 15
Distribution Unit with 1 IEC Appliance Connector C14 and 2 Plugs F, shuttered	10A / 15A	Plug and Connector	C14  70° C	F  70° C	1 In, 2 out	4741 17



new



new



Description Approvals	Rated Current IEC/ UL	Mounting Style Mounting Side	Appliance Inlet	Connector	Terminal	Web Reference or Type
 Stripp Block for Snap Mounting with up to 7 IEC Appliance Outlets C14  	10A / 15A	- Snap-in - Front-Side - Solder	-	 70° C	7 out	0909 19
 Stripp Block for Snap Mounting with 4 IEC Appliance Outlets C14   	10A / 15A	- Snap-in - Front-Side - Connector	-	 70° C	4 out	4752 21
 Stripp Block for Snap Mounting with 4 IEC Appliance Outlets C14 and space for extra component   	10A / 15A	- Snap-in - Front-Side - Plug and Connector	-	 70° C	1 In, 4 out	4754 24
 Stripp Block for Snap Mounting with 4 IEC Appliance Outlets C14 and space for 2 extra components   	10A / 15A	- Snap-in - Front-Side - Plug and Connector	-	 70° C	1 In, 4 out	4758 27
 Distribution Unit with 1 IEC Appliance Connector C14 and 4 Plugs F  	10A / 15A	Line	 70° C	 70° C	1 In, 4 out	4747 30



Description Approvals	Rated Current IEC/ UL	Mounting Style Mounting Side	Appliance Inlet	Connector	Terminal	Web Reference or Type
Distribution Unit with Power Cord and 4 IEC Appliance Plugs F	10A / 15A	Line	-	F  70° C	4 out	4748 32
Distribution Unit with 1 IEC Appliance Connector C14 or Power Cord and 4 IEC Appliance Plugs F	10A / 15A	Plug and Connector	C14  70° C	F  70° C	1 In, 6 out	4740 34

General Product Information see IEC Connector page [50](#)



Gender Changer 20 A

The gender changer 4730 is designed to connect rack appliances with an appliance coupler type J in a stand alone mode with a standard power cord.

The construction can either be used for screw on mounting or for stand alone installation.



Solid Engineering and a Customized Solutions

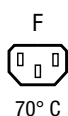
“What won our customer over was the combination of solid engineering and a customized solution we could offer them.”

Erick Pieters

Distribution Unit for Snap Mounting with 1 IEC Appliance Connector C14 and 1 Plug F



Snap-In Version

**Description**

- Panel Mount:
- Snap-in version from front side
- 2 Functions:
- Appliance Inlet, Connector, Pin temperature 70 °C, Protection class I

Approvals

- VDE License Number: 105576
- UL License Number: E103791
- CSA License Number: 73165

Characteristics

- Qualified for use in equipment according IEC/EN 60950

References

[General Product Information](#)

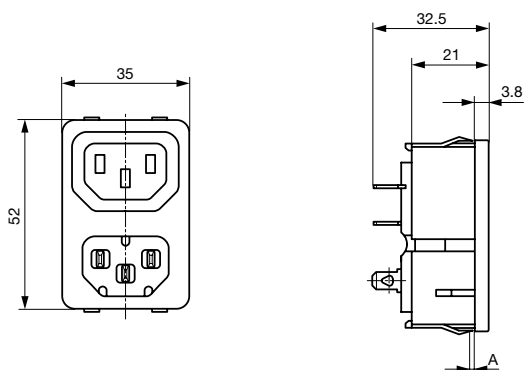
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 125 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 30 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 4.8 x 0.8 mm Solder terminal on request
Panel Thickness s	Snap-in 0.8 mm to 2 mm
Material: Housing	Thermoplastic, black, UL 94V-0

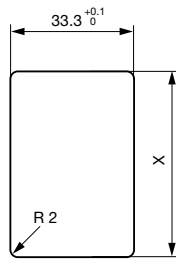
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, F acc. to IEC/EN 60320-2-2, UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
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Dimensions

A = 1,3 - 2: X = 50,5 + 0,1

A = 0,8 - 1,2: X = 50,3 + 0,1

Diagrams



Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Type	Order Number
0712	4300.0301

Packaging unit 50 Pcs

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Mating Outlets/Connectors

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



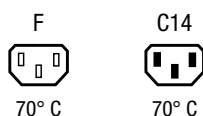
Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

Distribution Unit for Screw Mounting with 1 IEC Appliance Plug C14 and 1 -Connector F



Screw-On Version

**Description**

- Panel Mount:
- Screw-on, from front side appliance inlet/-outlet, Pin temperature 70 °C
- Protection class I
- Solder terminals or quick connect terminals

Approvals

- UL License Number: E45115
- CSA License Number: 1894886

References

[General Product Information](#)

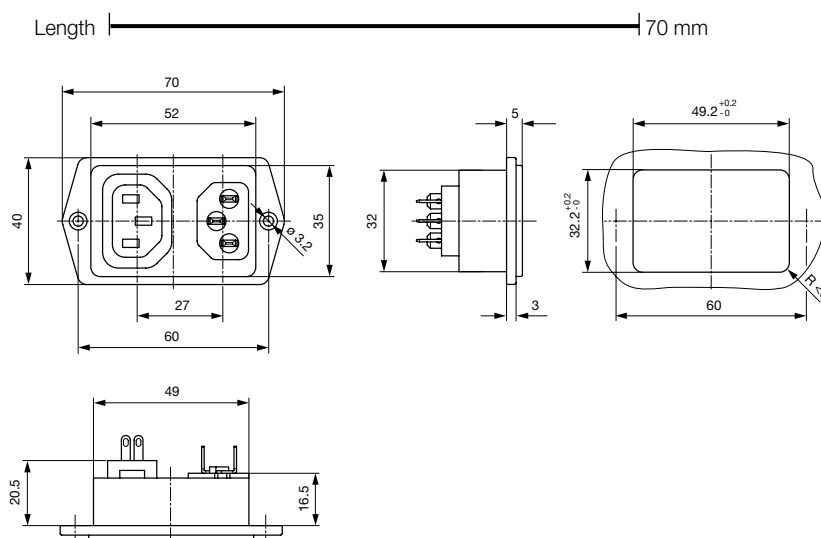
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 4 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 F acc. to IEC/EN 60320-2-2 UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
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Dimensions

length of the terminal please find at the order code configuration table

Packaging unit

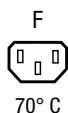
50 Pcs

Distribution Unit for Screw Mounting with 1 IEC Appliance Plug C14 and 1 -Connector F

new



Screw-On Version

**Description**

- Panel Mount:
- Screw-on, from front side appliance inlet/-outlet, Pin temperature 70 °C Protection class I Solder terminals or quick connect terminals

Approvals

- UL License Number: E45115
- CSA License Number: 1894886

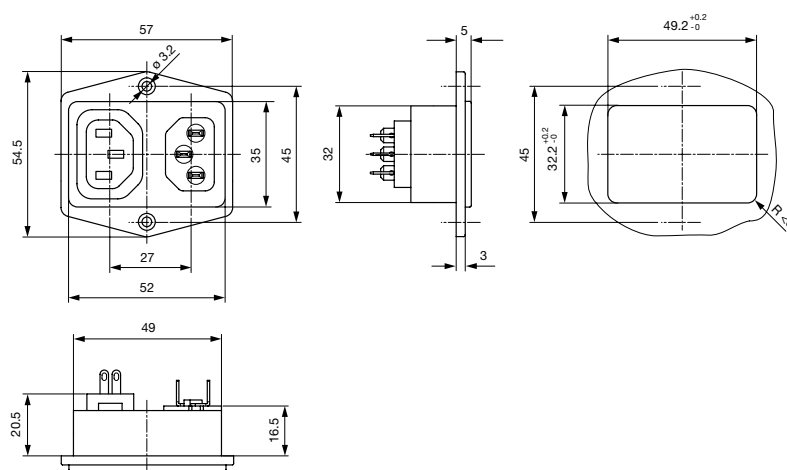
References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 3 kVAC between L-N > 1.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals Solder terminals or quick connect terminals
Material: Housing	UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1 F acc. to IEC/EN 60320-2-2 UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
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Dimensions

Length | 57 mm



length of the terminal please find at the order code configuration table

Packaging unit

50 Pcs

IEC gender changer IEC C20 / IEC J, screw-on mounting



Screw-On Version

Rear side
Screw-On VersionC20
70° C**Description**

- Panel Mount:
Screw-on from front or rear-side
- Appliance Inlet, Pin temperature 70 °C, Protection class I

Approvals

- UL License Number: E96454

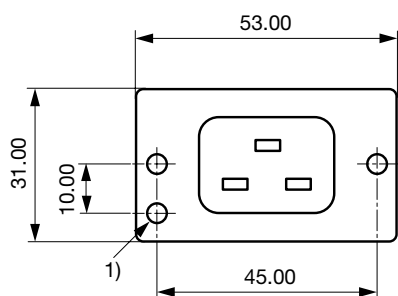
References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Ratings IEC	16 A / 250VAC; 50Hz
Ratings UL/CSA	20 A / 125VAC; 60Hz
Dielectric Strength	> 4kVAC between L-N > 6kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529 from rear-side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Panel Thickness s	Screw-on: Mounting screw torque max 0.5Nm
Material: Housing	Thermoplastic, black, UL 94V-0

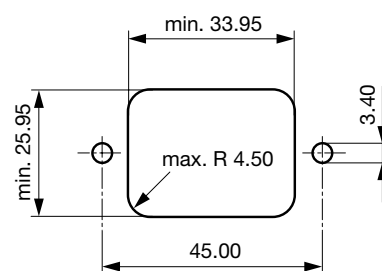
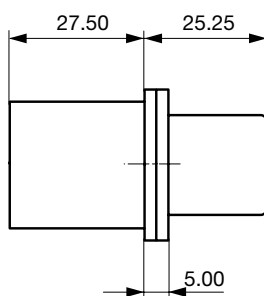
Appliance-Inlet/-Outlet	C20 acc. to IEC/EN 60320-1 and J acc. to IEC/EN 60320-2-2, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16 A, Protection class I
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Dimensions

Length | 53 mm



1) Orientation hole

**Variants**

Panel mounting	Panel Thickness s [mm]	Order Number
Screw-on	8	4730.0100

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)
Packaging unit

100 Pcs

Mating Inlets/Plugs

Category / Description

Plug Connector



IEC plug connector I, rewirable, straight	0106
IEC plug connector I, rewirable, angled	1611
IEC plug connector I, rewirable, straight	1612
IEC plug connector I, rewirable, angled	4789
IEC plug connector I, rewirable, straight	4796



Rewireable Plug for cable, straight entry

IEC plug connector I, rewirable, straight	0922
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Mating Outlets/Connectors

Connector



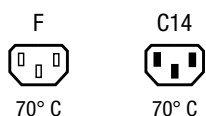
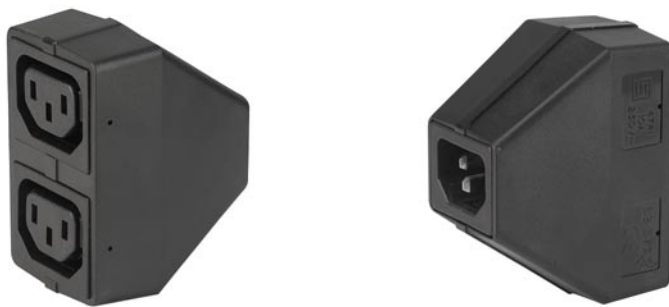
IEC connector C19, rewirable, straight	0104
IEC connector C19, rewirable, angled	1651
IEC connector C19, rewirable, straight	1652
IEC connector C19, rewirable, angled	4790
IEC connector C19, rewirable, straight	4795



Power Supply or Interconnection Cord

Power Cord with IEC Appliance Connector C19, straight, 70°C	1654
Power Cord with IEC Appliance Connector C19, Line Plug North America, 70°C	4300.0920
Power Cord Medical Grade with IEC Appliance Connector C19, Line Plug North America, 70°C	6009.5195

Distribution Unit with 1 IEC Appliance Connector C14 and 2 Plugs F, shuttered

**Description**

- Stand alone module
- 2 Functions:
of 2 outlets, Appliance Inlet, Pin temperature 70 °C, Protection class I, shuttered

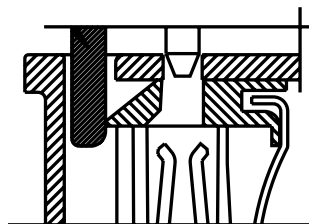
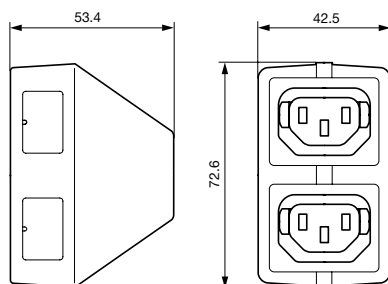
References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 2.5 kVAC between L/N-PE (3 sec/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Material: Housing	Thermoplastic, black, UL 94V-0

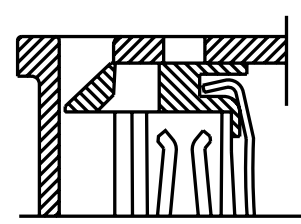
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, F acc. to IEC/EN 60320-2-2, UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
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Dimensions

Length | 72.6 mm



Shutter operation:
shutters opened by plug insertion



Shutter operation:
shutters closed when plug is removed

Variants
[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Type	Order Number
4741	4741.0000

Packaging unit 50 Pcs

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Mating Outlets/Connectors

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

Stripp Block for Snap Mounting with up to 7 IEC Appliance Outlets C14



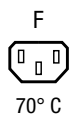
Snap-In Version



Snap-In Version



Snap-In Version



Description

- Panel Mount:
Snap-in version from front side
- 2 Functions:
Module of 2 up to 7 outlets, Pin temperature 70 °C, Protection class I
- Solder terminals

Characteristics

- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Other panel thickness

References

[General Product Information](#)

Weblinks

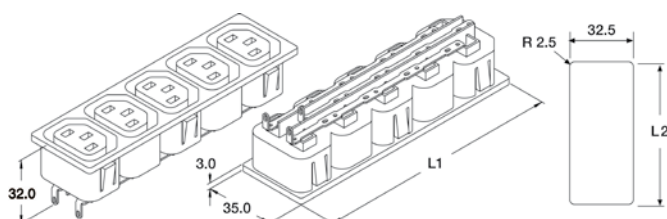
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 30 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals
Panel Thickness s	Snap-in 1.5 mm tolerance +0.0/-0.1
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	F acc. to IEC/EN 60320-2-2, UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
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Dimensions



Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Panel Thickness s [mm]	Connector	Length L1 [mm]	Length L2 [mm]	Order Number
1.5	2	51.2	48.3	0909.0001
1.5	3	75.2	72.3	0909.0011
1.5	4	99.2	96.3	0909.0021
1.5	5	123.2	120.3	0909.0031
1.5	6	147.2	144.4	0909.0041
1.5	7	171.2	168.4	0909.0051

Packaging unit 120 Pcs

Accessory

Description



Cord retaining kits

Cord retaining strain relieve

Flat head, Z

0888.0021

Countersunk, C

4700.0003

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C

0607

Power Cord with IEC Appliance Plug E, angled, 70°C

0608

Power Cord with IEC Appliance Plug E, straight, 70°C

0609

Power Cord with IEC Appliance Plug G, angled, 70°C

607B

Power Cord with IEC Appliance Plug G, angled, 70°C

608B

Power Cord with IEC Appliance Plug G, straight, 70°C

609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm

4732

IEC plug connector E, rewirable, angled, max. cable diameter 10 mm

4733

IEC plug connector E, rewirable, straight, max. cable diameter 10 mm

4735

IEC plug connector E, rewirable, angled, max. cable diameter 10 mm

4736

IEC plug connector E, rewirable, straight

9009

IEC plug connector E, rewirable, angled

9013

IEC plug connector E, rewirable, angled

P685

Stripp Block for Snap Mounting with 4 IEC Appliance Outlets C14



Snap-In Version

4752

Quadblock



70° C

**Description**

- Panel Mount:
Snap-in version from front side
- 2 Functions:
Module of 4 outlets, Pin temperature 70 °C, Protection class I
- Solder terminals or quick connect terminals

Approvals

- CSA License Number: 56242

Characteristics

- Busbar is of single piece (no soldering)
- Insulation cover on the rear-side
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- For protection class II

References

[General Product Information](#)

Weblinks

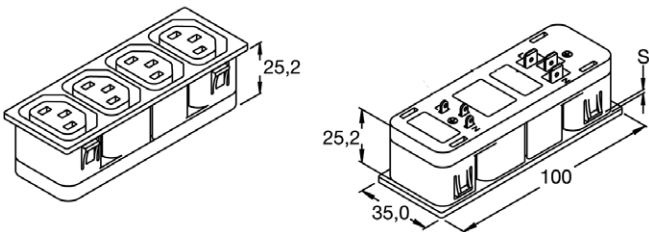
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 30 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Panel Thickness s	Snap-in 1 / 1.2 / 1.5 / 2 / 2.5 / 3 mm tolerance +0.0/-0.1
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	F acc. to IEC/EN 60320-2-2, UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
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Dimensions
Quadbloc 4752



Panel cut-out 96,2 x 32,5 mm, corner radius max. 1 mm

Variants

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Panel Thickness s [mm]	Terminal	Length [mm]	Length L2 [mm]
1	Quick connect terminals 6.3 x 0.8 mm	100	96.2
1.2	Quick connect terminals 6.3 x 0.8 mm	100	96.2
1.5	Quick connect terminals 6.3 x 0.8 mm	100	96.2
2	Quick connect terminals 6.3 x 0.8 mm	100	96.2
2.5	Quick connect terminals 6.3 x 0.8 mm	100	96.2
3	Quick connect terminals 6.3 x 0.8 mm	100	96.2
1	Solder terminals 4 x 0.8 mm	100	96.2
1.2	Solder terminals 4 x 0.8 mm	100	96.2
1.5	Solder terminals 4 x 0.8 mm	100	96.2
2	Solder terminals 4 x 0.8 mm	100	96.2
2.5	Solder terminals 4 x 0.8 mm	100	96.2
3	Solder terminals 4 x 0.8 mm	100	96.2
1	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	100	96.2
1.2	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	100	96.2
1.5	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	100	96.2
2	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	100	96.2
2.5	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	100	96.2
3	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	100	96.2

Please note, all quadblocs are available in protection-class II upon request.

Cord retaining clamp see accessories

Packaging unit 50 Pcs

Accessory

Description



Cord retaining kits

Cord retaining strain relieve

Flat head, E	4700.0005
Flat head, G	4700.0007

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Stripp Block for Snap Mounting with 4 IEC Appliance Outlets C14 and space for extra component



Snap-In Version

4754
Quadblock + One



Description

- Panel Mount:
 Snap-in version from front side
- 3 Functions:
 Module of 4 outlets, with additional carrier frame for accessory modules, Pin temperature 70 °C, Protection class I
- Solder terminals or quick connect terminals

Approvals

- CSA License Number: 56242

Characteristics

- Insulation cover on the rear-side
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- For protection class II

References

[General Product Information](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

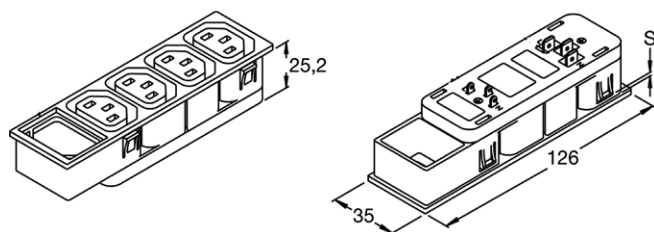
Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 30 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Panel Thickness s	Snap-in 1 / 1.2 / 1.5 / 2 / 2.5 / 3 mm tolerance +0.0/-0.1
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	F acc. to IEC/EN 60320-2-2, UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
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Dimensions

Quadbloc + One 4754

Cut-out for 2 mm Snap-in Inlet



Panel cut-out 122.1 x 32.5 mm, corner radius max. 1 mm
With appliance inlet, type 6100

Variants
[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Panel Thickness s [mm]	Terminal	Length [mm]	Length L2 [mm]
1	Quick connect terminals 6.3 x 0.8 mm	126	122.1
1.2	Quick connect terminals 6.3 x 0.8 mm	126	122.1
1.5	Quick connect terminals 6.3 x 0.8 mm	126	122.1
2	Quick connect terminals 6.3 x 0.8 mm	126	122.1
2.5	Quick connect terminals 6.3 x 0.8 mm	126	122.1
3	Quick connect terminals 6.3 x 0.8 mm	126	122.1
1	Solder terminals 4 x 0.8 mm	126	122.1
1.2	Solder terminals 4 x 0.8 mm	126	122.1
1.5	Solder terminals 4 x 0.8 mm	126	122.1
2	Solder terminals 4 x 0.8 mm	126	122.1
2.5	Solder terminals 4 x 0.8 mm	126	122.1
3	Solder terminals 4 x 0.8 mm	126	122.1
1	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	126	122.1
1.2	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	126	122.1
1.5	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	126	122.1
2	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	126	122.1
2.5	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	126	122.1
3	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	126	122.1

Please note, all quadblocks are available in protection-class II upon request.

Cord retaining clamp see accessories

Packaging unit

40 Pcs

Accessory

Description



Cord retaining kits

Cord retaining strain relieve

Flat head, Z	0888.0021
Flat head, E	4700.0005
Flat head, G	4700.0007
Flat head, H	4700.0008

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Stripp Block for Snap Mounting with 4 IEC Appliance Outlets C14 and space for 2 extra components



Snap-In Version

4758

Quadblock + Two



70 °C



Description

- Panel Mount:
Snap-in version from front side
- 4 Functions:
Module of 4 outlets, with additional carrier frame for accessory modules, Pin temperature 70 °C, Protection class I
- Solder terminals or quick connect terminals

Approvals

- VDE License Number: 40010521
- UL License Number: E96454
- CSA License Number: 56242

Characteristics

- Busbar is of single piece (no soldering)
- Insulation cover on the rear-side
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- For protection class II

References

[General Product Information](#)

Weblinks

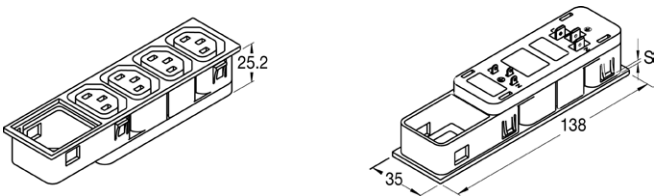
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Ratings IEC	10A / 250VAC; 50Hz
Ratings UL/CSA	15A / 250VAC; 60Hz
Dielectric Strength	> 2kVAC between L-N > 2kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Degree of Protection	from front side IP 30 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Solder terminals or quick connect terminals
Panel Thickness s	Snap-in 1 / 1.2 / 1.5 / 2 / 2.5 / 3 mm tolerance +0.0/-0.1
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	F acc. to IEC/EN 60320-2-2, UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
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Dimensions
Quadbloc + Two 4758
Cut-out for 2 mm Snap-in Inlet



Panel cut-out 134 x 32,5 mm, corner radius max. 5 mm
With power entry module, type 6200 or type 6220

Variants

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Panel Thickness s [mm]	Terminal	Length [mm]	Length L2 [mm]
1	Quick connect terminals 6.3 x 0.8 mm	138	134
1.2	Quick connect terminals 6.3 x 0.8 mm	138	134
1.5	Quick connect terminals 6.3 x 0.8 mm	138	134
2	Quick connect terminals 6.3 x 0.8 mm	138	134
2.5	Quick connect terminals 6.3 x 0.8 mm	138	134
3	Quick connect terminals 6.3 x 0.8 mm	138	134
1	Solder terminals 4 x 0.8 mm	138	134
1.2	Solder terminals 4 x 0.8 mm	138	134
1.5	Solder terminals 4 x 0.8 mm	138	134
2	Solder terminals 4 x 0.8 mm	138	134
2.5	Solder terminals 4 x 0.8 mm	138	134
3	Solder terminals 4 x 0.8 mm	138	134
1	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	138	134
1.2	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	138	134
1.5	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	138	134
2	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	138	134
2.5	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	138	134
3	Solder terminals 4 x 0.8 mm and quick connect terminals 6.3 x 0.8 mm	138	134

Please note, all quadblocs are available in protection-class II upon request.
Cord retaining clamp see accessories

Packaging unit 50 Pcs

Required Accessory

Description



6200

IEC Appliance Connector C14 with Fuseholder 1-pole

IP 40, 5 x 20, 1 pole	6200.4120
IP 40, 5 x 20, 1 pole	6200.4220
IP 40, 5 x 20, 1 pole	6200.4320



6220

IEC Appliance Connector C14 with Fuseholder 2-pole

IP 40, 5 x 20, 2-pole	6220.5120
IP 40, 5 x 20, 2-pole	6220.5220
IP 40, 5 x 20, 2-pole	6220.5320

Accessory

Cord retaining kits

Cord retaining strain relieve



Flat head, Z	0888.0021
Flat head, E	4700.0005
Flat head, G	4700.0007
Flat head, H	4700.0008

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector

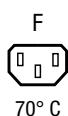


IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Distribution Unit with 1 IEC Appliance Connector C14 and 4 Plugs F



Minibloc 4747



Description

- Stand alone module
- 2 Functions:
of 4 outlets, Appliance Inlet, Pin temperature 70 °C, Protection class I

Approvals

- CSA License Number: 56242

Characteristics

- Qualified for use in equipment according IEC/EN 60950

References

[General Product Information](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

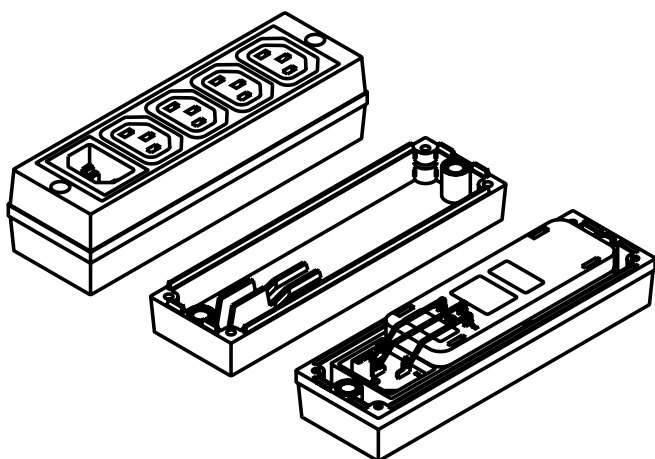
Technical Data

Ratings IEC	10A / 250 VAC; 50Hz
Ratings UL/CSA	15A / 250 VAC; 60Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, F acc. to IEC/EN 60320-2-2, UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
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Dimensions

Minibloc 4747



Mounting holes for 3 mm screws on 135 mm centres
Dimensions: 147 mm long x 44 mm wide x 37 mm high

Variants

Terminal	Version with	Order Number
-	inlet	4747.0000

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Packaging unit 30 Pcs

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Mating Outlets/Connectors

Appliance Outlet



IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092

Connector



IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06
...	...

Power Supply or Interconnection Cord

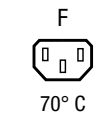


Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L
...	...

Distribution Unit with Power Cord and 4 IEC Appliance Plugs F



Minibloc 4748 with cable



Description

- Stand alone module
- 2 Functions:
 - of 4 outlets, country specific cable and plug, Pin temperature 70 °C, Protection class I

Characteristics

- Qualified for use in equipment according IEC/EN 60950

References

[General Product Information](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

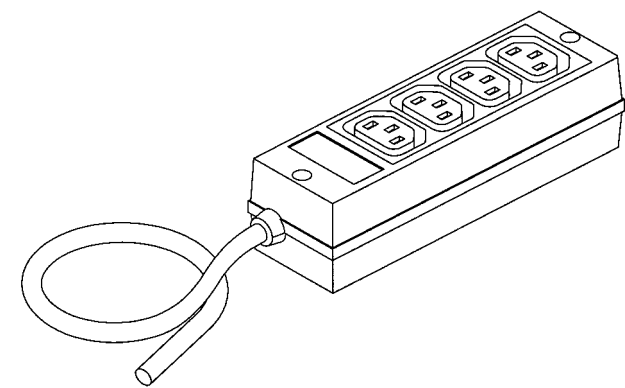
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance-Inlet/-Outlet	F acc. to IEC/EN 60320-2-2, UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
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Dimensions

Minibloc 4748 with cable



Mounting holes for 3 mm screws on 135 mm centres
Dimensions: 147 mm long, 45 mm wide, 43 mm high,
with 2 meter cable and appropriate plug

Variants

Terminal	Version with	Order Number
United Kindom BS 1363 A, 10A	2 m cable	4748.0300
Continental Europe CEE7/VII (Schuko), 10A	2 m cable	4748.1300
IEC/EN 60320-2-2/E, 10A	2 m cable	4748.2300
North America NEMA 5-15A, 15A	2 m cable	4748.3300

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Packaging unit 10 Pcs

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Distribution Unit with 1 IEC Appliance Connector C14 or Power Cord and 4 IEC Appliance Plugs F



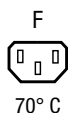
4740.6X00



4740.3X00



4740.4X00

**Description**

- Stand alone module
- 2 - 4 Functions:
Appliance Inlet Protection class I, Connector shuttered Protection class I, Line switch, Fuseholder with neon indicator

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 2.5 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Material: Housing	Thermoplastic, black, UL 94V-0

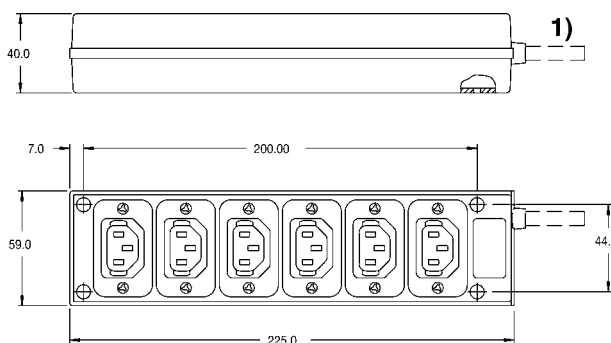
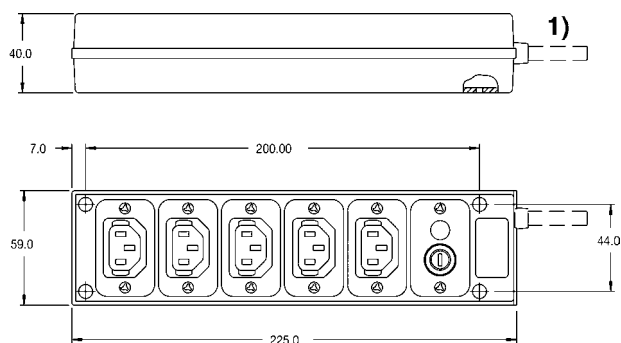
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, F acc. to IEC/EN 60320-2-2, UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 pole, acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch, illuminated, acc. to IEC 61058-1 Technical details

Dimensions

Stripbloc 4740.3X00

Length 225 mm

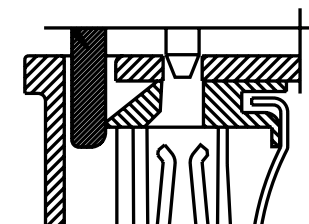
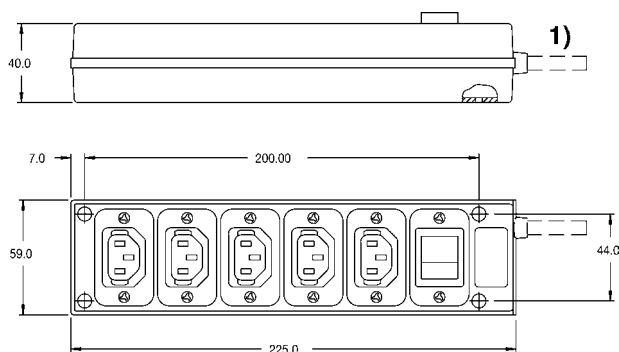
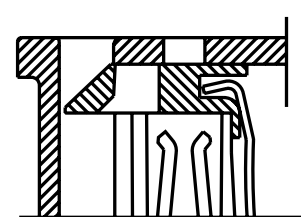
Stripbloc 4740.4X00



1) Version with plug and cable, see variants
Mounting Øs for 3 mm screws

1) Version with plug and cable, see variants
Mounting Øs for 3 mm screws

Stripbloc 4740.6X00

Shutter operation:
shutters opened by plug insertionShutter operation:
shutters closed when plug is removed

1) Version with plug and cable, see variants
Mounting Øs for 3 mm screws

Variants

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Connector	Fuseholder	Line Switch	Neon indication	Terminal	cable	Order Number
6	-	-	●	-	inlet	4740.4000
6	-	-	●	Continental Europe CEE7/VII (Schuko), 10A	2 m cable	4740.4600
6	-	-	●	United Kindom BS 1363 A, 10A	2 m cable	4740.4300
5	-	2-pole	●	-	inlet	4740.6000
5	-	2-pole	●	Continental Europe CEE7/VII (Schuko), 10A	2 m cable	4740.6600
5	-	2-pole	●	United Kindom BS 1363 A, 10A	2 m cable	4740.6300
5	1 pole	-	●	-	inlet	4740.3000
5	1 pole	-	●	Continental Europe CEE7/VII (Schuko), 10A	2 m cable	4740.3600
5	1 pole	-	●	United Kindom BS 1363 A, 10A	2 m cable	4740.3300

- 1) SP 5 x 20; 10 A / 250VAC, quick acting F, part No. 0001.1014
 2) SP 5 x 20; 6.3 A / 250VAC, quick acting F, part No. 0001.1012
 3) cable acc. countryspecific standards

Packaging unit

10 Pcs

Mating Inlets/Plugs

Category / Description

Interconnection Cord



Power Cord with IEC Appliance Plug E, angled, 70°C	0607
Power Cord with IEC Appliance Plug E, angled, 70°C	0608
Power Cord with IEC Appliance Plug E, straight, 70°C	0609
Power Cord with IEC Appliance Plug G, angled, 70°C	607B
Power Cord with IEC Appliance Plug G, angled, 70°C	608B
Power Cord with IEC Appliance Plug G, straight, 70°C	609B

Plug Connector



IEC plug connector E, rewirable, straight, max. cable diameter 8.5 mm	4732
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4733
IEC plug connector E, rewirable, straight, max. cable diameter 10 mm	4735
IEC plug connector E, rewirable, angled, max. cable diameter 10 mm	4736
IEC plug connector E, rewirable, straight	9009
IEC plug connector E, rewirable, angled	9013
IEC plug connector E, rewirable, angled	P685

Mating Outlets/Connectors



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06
IEC cord connector C13, rewirable, straight	4782
IEC cord connector C13, rewirable, angled	4785

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...



accessories types

Cord retaining kits	38
6200	40
6220	43

Cord retaining strain relieve



4700.00XX



0888.0021



Description

- Front-side:
Screw-on from front side
- 1 Function:
Protection against accidental disconnection of the plug

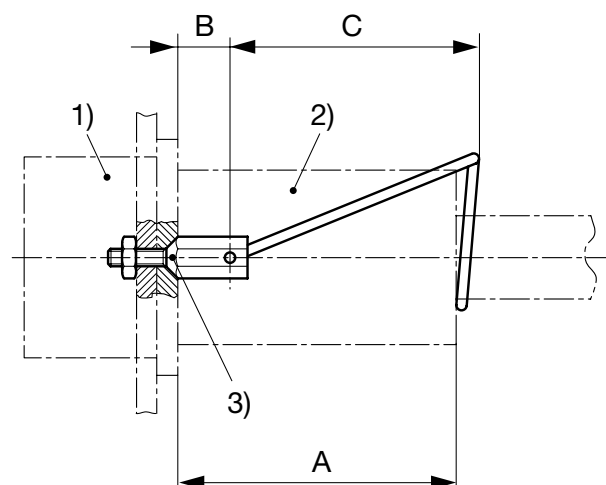
References

[General Product Information](#)

Weblinks

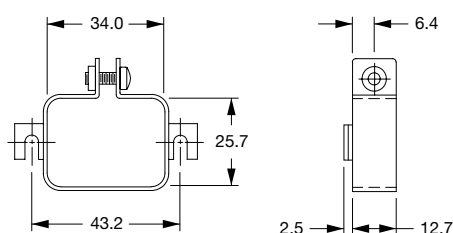
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Dimensions

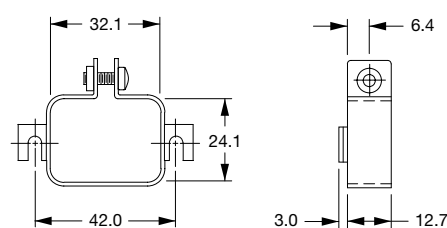


(Details see overview table and table of variants)

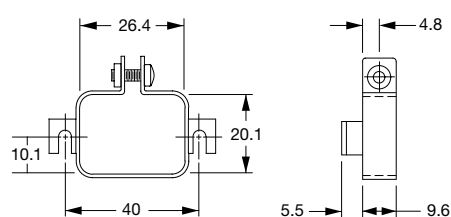
1) Inlet/Outlet 2) Plug/Connector 3) Design



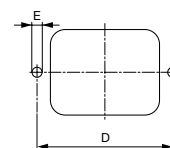
0888.0019



0888.0020

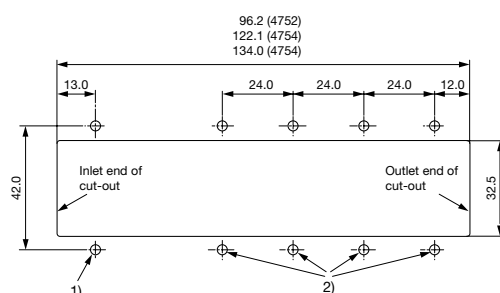


0888.0021



(Details see overview table and table of variants)

Holes according inlet/outlet dimensions centered to respectively inlet/outlet



(Details see overview table)

Packaging unit 50 Pcs

IEC Appliance Connector C14 with Fuseholder 1-pole

Types 6200, 6205

Types 6200, 6205



1-pole

1-pole

Type 6202: for protection class II

C14



70 °C

**Description**

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 2 Functions:
Appliance Inlet Protection class I, Fuseholder for fuse-links 5 x 20 mm 1-pole
- Solder terminals or quick connect terminals
- Alternative: version with line filter
- Alternative: Fuseholder 2-pole [6220](#)

Approvals

- VDE License Number: 40011091
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- All single elements are already wired
- Plug removal necessary for fuse-link replacement
The fuseholder is accessible from the equipment front
With spare fuse compartment
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Types for rivet mounting available upon request

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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 or quick connect terminals, tin-plated
Panel Thickness s	Screw-on: max 6 mm Mounting screw torque max 0.5 Nm Snap-in: 1 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

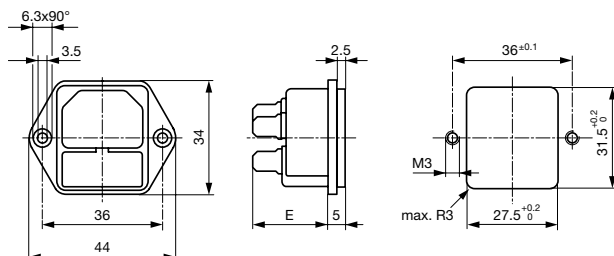
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	1 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions

Screw-on mounting types 6200/05

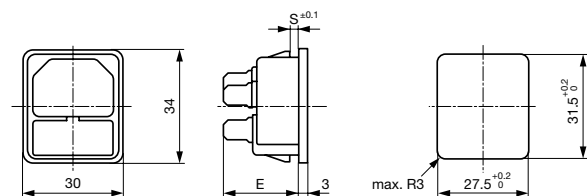
Length | 44 mm

Snap-in mounting types 6200/05



E: solder terminals 20.5 mm

E: quick-connect terminals 23.5 mm



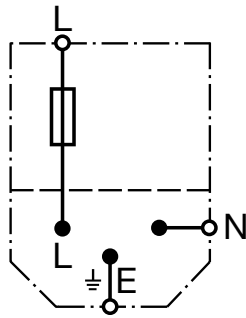
E: solder terminals 22.5 mm

E: quick-connect terminals 25.5 mm

S: 1.0/1.5/2.0/2.5/3.0 mm

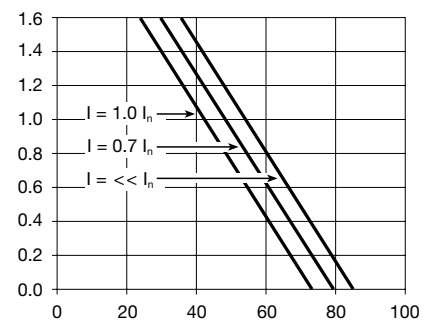
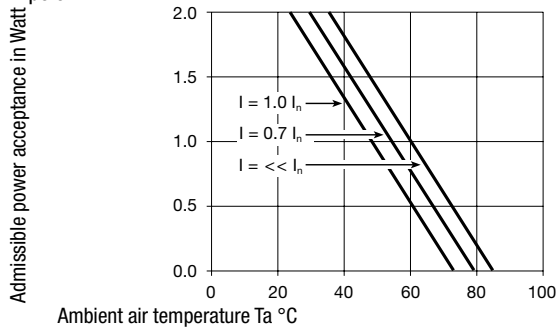
Diagrams

6200/05



Derating Curves

1-pole



Packaging unit

50 Pcs

Accessory

Description

Assorted Covers
Rear CoverCord retaining kits
Cord retaining strain relieve

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

...

Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

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IEC Appliance Connector C14 with Fuseholder 2-pole

Plug removal necessary for fuse replacement

Type 6220

Type 6220



2-pole

2-pole

**Description**

- Panel Mount:
Screw-on version from front or rear side, snap-in version from front side
- 2 Functions:
Appliance Inlet Protection class I, Fuseholder for fuse-links 5 x 20 mm 2-pole
- Solder terminals or quick connect terminals
- Alternative: version with line filter
- Alternative: Fuseholder 1-pole 6200; 6202

Approvals

- VDE License Number: 40011091
- UL License Number: E93617
- CSA License Number: 38456

Characteristics

- All single elements are already wired
- Plug removal necessary for fuse-link replacement
Fuse drawer meets requirements of medical standard IEC/EN 60601-1
The fuseholder is accessible from the equipment front
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Types for rivet mounting available upon request

References

General Product Information

Weblinks

Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

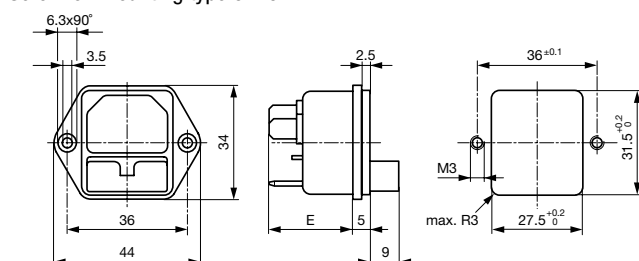
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	10 A / 250 VAC; 60 Hz
Dielectric Strength	> 2 kVAC between L-N > 2 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-25 °C to 70 °C
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 or quick connect terminals, tin-plated
Panel Thickness s	Screw-on: max 6 mm Mounting screw torque max 0.5 Nm Snap-in: 1 / 1.5 / 2 / 2.5 / 3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

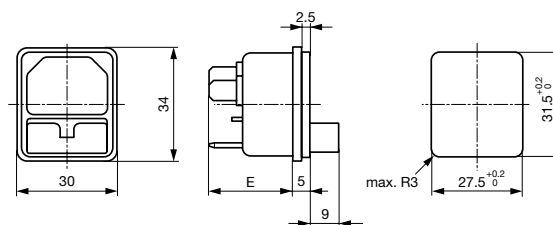
Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection class I
Fuseholder	2-pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 1.6 W 2-pole
Power Acceptance @ Ta > 23 °C	Admissible power acceptance at higher ambient temperature see derating curves

Dimensions**Screw-on mounting type 6220**

Length 44 mm

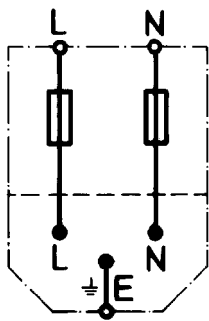
Snap-in mounting type 6220

E: solder terminals 20.5 mm
E: quick-connect terminals 23.5 mm



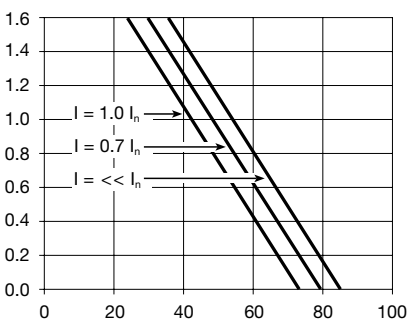
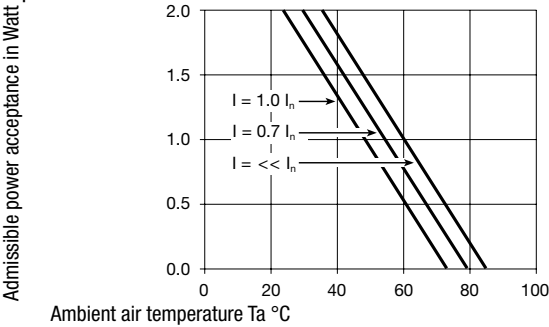
E: solder terminals 22.5 mm
E: quick-connect terminals 25.5 mm
S: 1.0/1.5/2.0/2.5/3.0 mm

Diagrams
6220



Derating Curves

1-pole



Packaging unit 50 Pcs

Accessory

Description



Assorted Covers
Rear Cover



Cord retaining kits
Cord retaining strain relieve

Mating Outlets/Connectors

Category / Description



Appliance Outlet

IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4787
IEC appliance outlet F, screw-on mounting, front side, solder /quick connect terminal	4788
IEC appliance outlet F oder H, screw-on mounting, front side, solder/PCB/quick connect terminal	5091
IEC appliance outlet F oder H, screw-on mounting, front side, solder/quick connect terminal	5092



Connector

IEC cord connector C15, rewirable, straight	0101
IEC cord connector C15A, rewirable, straight	0102
IEC cord connector C15A, rewirable, straight	0102-G
IEC cord connector C15A, rewirable, angled	0112
IEC cord connector C13, rewirable, angled	4012
IEC cord connector C13, rewirable, angled	4013
IEC cord connector C13, rewirable, straight	4020
IEC cord connector C13, rewirable, straight	4021
IEC cord connector C13, rewirable, straight	4022
IEC cord connector C13, rewirable, angled	4300-06

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Power Supply or Interconnection Cord



Power Cord with IEC Appliance Connector C13, angled, 70°C	0311
Power Cord with IEC Appliance Connector C13, angled, 70°C	3011
Power Cord with IEC Appliance Connector C13, angled, 70°C	3012
Power Cord with IEC Appliance Connector C13, angled, 70°C	3013
Power Cord with IEC Appliance Connector C13, 70°C	3020
Power Cord with IEC Appliance Connector C13, straight, 70°C	3027
Power Cord with IEC Appliance Connector C13, straight, 70°C	302U
Power Cord with IEC Appliance Connector C13, straight, 70°C	3030
Power Cord with IEC Appliance Connector C13, angled, 70°C	311L
Power Cord with IEC Appliance Connector C13, angled, 70°C	312L

...

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general product-information

Product standard equipment standard

The product standard only contains minimum requirements. Attention is drawn to the fact that appliance specifications might contain requirements additional to or deviating from those specified in the relevant product standards.

Comments on definitions used

Please be aware that the specifications nominal value used in the German part of the Schurter catalogue and the data sheets, is synonymous with rated value.
The difference between these two values is a pure matter of definition. In order to avoid any unnecessary complications we will continue to use the specifications nominal value.

CE marking acc. to EU-directives

CE marking is the only marking which indicates that a product conforms to the relevant EU-directive.
This means that the CE-mark is no quality or standard conformity mark but only an administration mark.
SCHURTER products are covered by the low voltage directives 72/23/EEC and 93/68/EEC. Those are valid for equipment and appliances with rated voltage values between AC 50 V to AC 1000 V as well as DC 75 V to DC 1500 V.
The CE marking of SCHURTER parts will be found on the label of the smallest packing unit. On request we will submit a CE conformity statement for each component. CE conformity statements and approvals can also be retrieved from the internet under www.schurter.com.

Conformity to component standards, national approvals

National testing institutions are testing according to national and international standards or other generally recognized rules of technology. Their certification/approval-marks confirm the observance of the safety requirements which electric appliances must fulfil.

National approvals

	(Recognition)	UL	Underwriters Laboratories (USA)
	(Listing)	UL	Underwriters Laboratories (USA, Canada)
	(Recognition)	UL	Underwriters Laboratories (USA, Canada)
	(Listing)	UL	Underwriters Laboratories (USA, Canada)
		CSA	Canadian Standard Association, Component Acceptance Service
		CSA	Canadian Standard Association
		SEV	Schweizerischer Elektrotechnischer Verein
		ASE	Association Suisse des Electriciens
	(Mark)	VDE	Verband Deutscher Elektrotechniker
	(Certificate of conformity with factory surveillance)		
		BSI	British Standard Institute
		SEMKO	Svenska Elektriska Materielkontrollanstalten
		NEMKO	Norges Elektriske Materielkontroll
		DEMKO	Danmarks Elektriske Materielkontroll
		FIMKO	Finnish Electrical Inspectorate
		ÖVE	Österreichischer Verband für Elektrotechnik
		KEMA	Keuring van Elektrotechnische Materialen
		IMQ	Instituto italiano del marchio di qualità
	(Mark)		European Norms Electrical Certification
		CCC	China Compulsory Certification

In addition to the combined UL/CSA approvals, most of the SCHURTER components are also approved by one of the European Certification Bodies like VDE (Germany), Electrosuisse (Switzerland) or SEMKO (Sweden). The safety testing of all these European Certification Bodies are based on the common European Safety Standards. With the harmonisation effort in Europe, the different National European Certification Bodies have lost their importance and SCHURTER has decided to maintain only one European approval (e.g. VDE, SEV or SEMKO) in future. The others will not be renewed once they have expired.

Because UL and CSA are not members of the CENELEC, the standards of UL and CSA are not harmonised yet with the European Standards. However, UL and CSA are trying to harmonize their standards with each other. Where possible, SCHURTER will apply for the combined cULus or cURus approval.

Further to development in Asia, SCHURTER has obtained national approvals from China, Japan and Korea.



general product-information

IP degrees of protection provided by enclosures (IP code)

Standards IEC 60529; EN 60529

Scope

These standards apply to the classification of degrees of protection provided by enclosures for electrical equipment with a rated voltage not exceeding 72.5 kV.

Object

The object of these standards is to give:

- a) Definitions** for degrees of protection provided by enclosures of electrical equipment as regards:
 - 1. Protection of persons against access to hazardous parts inside the enclosure
 - 2. Protection of the equipment inside the enclosure against ingress of solid foreign objects
 - 3. Protection of the equipment inside the enclosure against harmful effects due to the ingress of water.
- b) Designations** for these degrees of protection.
- c) Requirements** for each designation.
- d) Tests** to be performed to verify that the enclosure meets the requirements of these standards.

Designations

The degree of protection provided by an enclosure is indicated by the IP Code.

Elements of the IP Code and their meanings

A brief description of the IP Code elements is given in the following table.

IP xy	Meaning for the protection of equipment	Meaning for the protection of persons
	Against ingress of solid foreign objectif	Against access to hazardous parts with
x = 0	(non-protected)	(non-protected)
x = 1	50 mm diameter	back of hand
x = 2	12.5 mm diameter	finger
x = 3	2.5 mm diameter	tool
x = 4	1.0 mm diameter	wire
x = 5	dust-protected	wire
x = 6	dust-tight	wire
	Against ingress of water with harmful effects	
y = 0	(non protected)	
y = 1	vertically dripping	
y = 2	dripping (15° tilted)	
y = 3	spraying	
y = 4	splashing	
y = 5	jetting	
y = 6	powerful jetting	
y = 7	temporary immersion	
y = 8	continuous immersion	

Protection against electric shock

1. Protection against direct and indirect contact General terms

The protection against electric shock on electric equipment as well as their components are divided into the following parts:

- Protection against direct contact with live parts concerns all measures for the protection of human beings and animals against hazards which result from direct contact with live parts of electric equipment and their components.
- Protection against indirect contact is the protection of human beings and animals against hazards which result from contact of live parts 1 of electric equipment as well as components thereof, which have become live due to an insulation failure.

¹⁾ Accessible, conductive part, which is not conductive normally but which may be conductive due to a failure.

2. Protection against direct contact with live parts e.g. of a fuseholder

The data sheets of the relevant components inform about the taken measures.

3. Protection against indirect contact

Measures for the protection against indirect contact on electrical equipment are defined according to IEC 61140 by the 4 protection classes 0, I, II, III. Each protection class includes two protection measures. Even if one of these measures should fail, no electric shocks will occur.

Protection class	Main protective measures
0	1. Basic insulation between live parts and accessible conductive parts. 2. Earth-free location, non-conducting environment.
I	 1. Basic insulation between live parts and accessible conductive parts. 2. Means are provided for the connection of accessible conductive parts of the equipment to the protective (earthing) conductor in the fixed wiring of the installation in such a way that accessible conductive parts cannot become live in the event of a failure of the basic insulation.
II	 1. Basic insulation between live parts and accessible conductive parts. 2. Additional insulation. Basic and supplementary insulation are summarised under the term "double insulation". Under certain circumstances also a "reinforced insulation" (single insulation system) may guarantee an equivalent protection against electric shock as a "double-insulation" does. No terminal for a protective conductor is allowable. A possibly existing protective conductor must not be connected and has to be insulated like any live part.
III	 1. Functional insulation. 2. Supply at safety extra-low voltage SELV (the circuit is isolated from the mains supply by such means as a safety isolating transformer). The protection against electric shock is in this case completely based on the supplying by SELV-circuits ($U \leq 42$ V). Higher voltages are not generated in the equipment. No terminal for a protective conductor is allowable.



general product-information

IEC connectors

Appliance couplers approved according IEC 60320 are designed as two pole appliance couplers for alternate current with or without protective conductor with a rated voltage of 250 V and a rated current of 16A for technical application that are desired for interconnection to flexible cords of electrical equipment for power supply of 50Hz or 60Hz.

Appliance couplers according mentioned standard are suitable for operation under environmental temperatures of normally 25° C and do not have to exceed 35° C.

Appliance couplers are designed for use without especial moisture protection. So the design of the appliance needs to assure ingress protection if it is designed to be used under these circumstances.

Following figures need to be respected in order to meet standard IEC 60320:

- Rated voltage: 250 VAC
- Rated current according type: 0.2A, 2.5A, 6A, 10A, 16A

The appliance couplers are separated according the maximum operation temperature at the base of the connector pin:

- Pin temperature up to 70°C: Appliance couplers for cold condition
- Pin temperature up to 120°C: Appliance couplers for warm condition
- Pin temperature up to 155°C: Appliance couplers for hot condition

Their outlines are coded in a way, that appliance couplers for hot conditions may also be used under cold conditions, and appliance couplers for very hot conditions may also be used under cold or hot conditions.

The Appliance couplers are separated according the categories of equipment:

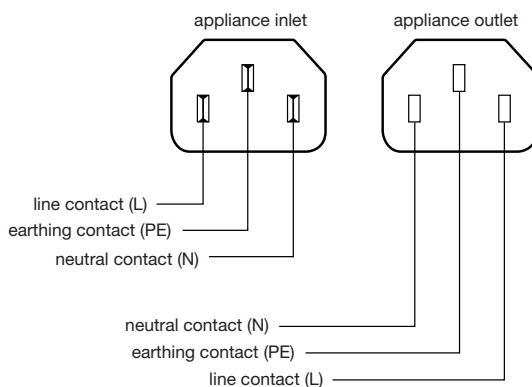
- Appliance couplers for appliances according protection class I
- Appliance couplers for appliances according protection class II
- The protection classes are described in standard IEC 61140

Appliance couplers will be additionally separated according the connection method to a flexible cord:

- Rewireable connectors
- Non-Rewireable connectors

Contact positions

In non-reversible connectors, the contact positions shall be established by looking at the engagement face of the connectors and their disposition shall be as follows:



Definitions

Appliance couplers:

Enabling the connection and disconnection at will, of a flexible cable or cord to an appliance or other equipment. It consists of two parts:

- Connector
- Appliance inlet

Cord set:

is an assembly consisting of a flexible cable or cord complete with a non-rewirable mains plug and a non-rewirable connector, for connecting an appliance or other equipment with power.

Customer specific connectors

The SCHURTER power mains plugs, power interconnection plugs, and cord connectors displayed in this catalogue are designed and manufactured in accordance with national and international standards. These standard have been published to create a worldwide understanding about basic dimensions and safety targets of coupler systems. This way a high degree of compatibility of components of different origins has been achieved.

Power mains plugs are designed to the relevant national standards whereas appliance couplers meet the standards as follows: DIN VDE 0625, EN 60320, IEC320 "Appliance couplers for household and similar general purposes, Part 2: interconnection couplers for household and similar equipment".

For different reasons you might consider or be forced to use a **coupler system on your application that does not mate or interchange with standardized couplers**:

- The **applicable standard for your appliance defines a certain coupler system or provides a certain restriction concerning couplers that can be used**. For example IEC335-1 "Safety of household and similar electrical appliances, Part 1: General requirements" states in §24.5:
"Plugs and socket-outlets and other connecting devices on flexible cord, used for an intermediate connection between different parts of an appliance, shall not be interchangeable (...) with connectors and appliance inlets complying with the standard sheets of IEC 60320, if direct supply of these parts from the mains could cause danger to persons or surroundings, or danger to the appliance".
- For marketing reasons it might be desirable to **use a unique and non-interchangeable coupler system for your appliance or appliance family**.

Down-sizing of housing is an aspect that is ever more important for design of new appliances. You might consider a modification of standard or non-standard **coupler systems that perfectly adapts your mounting requirements**. The broad range of SCHURTER's standardized interconnection plugs and connectors is constantly being extended by new variations. When it comes to a special cord end terminations a high number of variations is available.

All SCHURTER standard and non-standard coupler systems meet the relevant requirements of product safety proved by multiple approval markings of international testing agencies.



general product-information

comparison chart metric-AWG wire sizes

AWG	CSA in mm ²	closest stdd. equivalent in mm ²
30	0.0503	0.05
29	0.0646	-
28	0.0804	-
27	0.102	0.1
26	0.128	0.14
25	0.163	-
24	0.205	0.2
23	0.259	0.25
22	0.325	-
21	0.412	-
20	0.519	0.5
19	0.653	-
18	0.823	0.75
17	1.04	1
16	1.31	-
15	1.65	1.5
14	2.08	-
13	2.63	2.5
12	3.13	-
11	4.15	4
10	5.27	-
9	6.62	6
8	8.35	-
7	10.6	10
6	13.3	-
5	16.8	16
4	21.2	-
3	26.7	25
2	33.6	35
1	42.4	-
0	53.4	50
2/0	67.5	70
3/0	85	95
4/0	107.2	120
5/0	135.1	150
6/0	170.3	185

type and min. nominal cross-sectional area for flexible cords or cables

type of connector	types of flexible cords or cable	nominal cross-sectional area (mm ²)
2.5 A for class-I-equipment	60227 IEC 52	0.75
2.5 A for class-II-equipment	60227 IEC 52	0.75*
6 A	60227 IEC 52	0.75
10 A for cold conditions	60227 IEC 53 or 60245 IEC 53	0.75**
10 A for hot conditions	60245 IEC 51 or 60245 IEC 53	0.75**
10A for very hot conditions	60245 IEC 51 or 60245 IEC 53	0.75*
16A for cold conditions	60227 IEC 53 or 60245 IEC 53	1**

* if the flexible cord or cable is not longer than 2 m, a nominal cross-sectional area of 0.5 mm² is admissible.

** if the flexible cord or cable is longer than 2 m, the nominal cross-sectional area for the connectors have to be:

- 1 mm² for connectors 10 A
- 1.5 mm² for connectors 16 A

7.5.6.4

Fuseholders, part of a power entry module

Fusedrawer 1 www.schurter.ch/pdf/english/typ_Fusedrawer_1.pdf

Fusedrawer 2 www.schurter.ch/pdf/english/typ_Fusedrawer_2.pdf

Fusedrawer 3 www.schurter.ch/pdf/english/typ_Fusedrawer_3.pdf

Explanations, thermal requirements, selection criteria

7.5.6.4.1

Protection against electric shock (against direct contact with live parts) for fuseholders

The assessment of the protection against electric shock assumes that the fuseholder is properly assembled, installed and operated as in normal use, e.g. on the front panel of the equipment. IEC 60127-6 and EN 60127-6 divides into three categories:

Category	Features
PC1	Fuseholders without integral protection against electric shock. They are only suitable for applications where corresponding additional means are provided to protect against electric shock.
PC2	Fuseholders with integral protection against electric shock live part is not accessible: - when the fuseholder is closed - after the fuse carrier (incl. fuse-link) has been removed - either during insertion or removal of the fuse carrier (incl. fuse-link) Compliance is checked by using the standard test finger specified in IEC 60529.
PC3	Fuseholder with enhanced integral protection against electric shock The requirements for this category are the same as those for category PC2, with the exception that the testing is carried



general product-information

Extra-safe handling with SCHURTER power entry modules

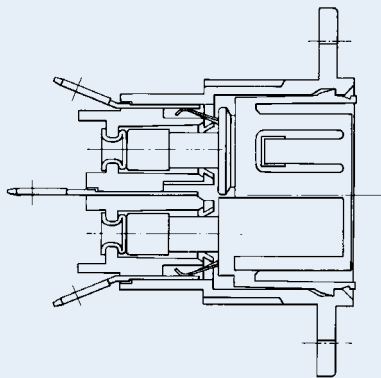
Protection against contact with live parts is an important aspect when dealing with electrical connecting devices. Both your customers and your servicing engineers will appreciate the greatest possible protection against accidental contact with live parts something which can easily happen as a result of inappropriate use, or during servicing or repair work.

In particular, our "shock-safe", "extra-Safe fuse-drawers" and "protective covers" precautions are effective ways of protecting against accidental contact when using the power entry modules.

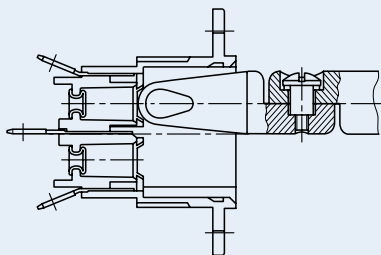
Example:

Power entry module with fuseholder, shocksafe category PC2

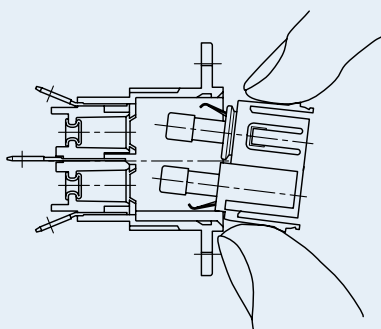
Closed fuseholder and appliance inlet.



It is not possible to touch any live parts on the SCHURTER fuseholders when the fuse-carrier is extracted.



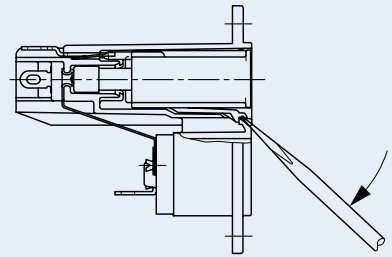
When a fuse-link 5 x 20 mm or 6,3 x 32 mm (1/4" x 1 1/4") is inserted or replaced, neither the fuse nor the fuse-carrier can come in contact with any live parts.



The Extra-Safe versions of shock-safe power entry modules are now available.

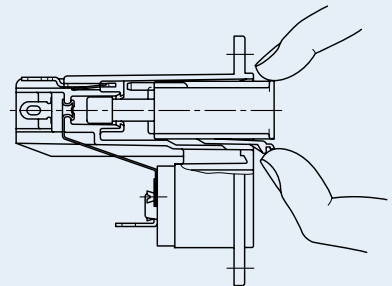
They are thus also able to satisfy requirements of the following standard: IEC 60601-1 (medical equipments)

The drawer can only be extracted with the aid of a tool (e.g. screwdriver) so that opening by hand is quite impossible.



With some types it is also necessary to pull out the mains outlet first. Only then can the drawer be removed from the socket.

The drawer can then be removed by hand.



7.5.6.4.2

Thermal requirements of the fuseholder

7.5.6.4.2.1

Influencing factors

The design engineer of electrical equipment is responsible for its safety and functioning to humans, animals and real values. Above all, it is his task to make sure that the state of the art as well as the valid national and international standards and regulations be observed.

In view of the safety of electrical equipment the selection of the most suitable fuseholder is of great importance. Among other parameters, one has to make sure that the maximum admissible power acceptances and temperatures defined by the manufacturer are followed. Differing definitions and requirements in the most important standards for fuse-links and fuseholders are time and again origin for the incorrect selection of fuseholders.

To equate the rated current of a fuse-link with the rated current of the fuseholder, may, especially at higher currents, cause high, not admissible temperatures, when the influence of the power dissipation in the contacts of the fuseholder was not taken into consideration.

For a correct selection the following influence factors depending on the application and mounting method, have to be followed:

1. Rated power dissipation of the suitable fuse-link.
2. Admissible power acceptance, operating current and temperatures of the suitable fuseholder.
3. Differing ambient air temperature outside and inside of the equipment.
4. Electrical load alternation
5. Long time (> 500 h) operation with load > 0.7 I_n .
6. Heat dissipation/cooling and ventilation. Heat influence of adjacent components.
7. Length and cross section of the connecting wire.

7.5.6.4.2.2

Rated current of a fuseholder

The value of current assigned by the manufacturer of the fuseholder and to which the rated power acceptance is referred.

7.5.6.4.2.3

Rated power dissipation of the fuse-link

(power dissipation at rated current)
See sep. catalogue "fuses".

7.5.6.4.2.4

Rated power acceptance and admissible temperatures of a fuseholder.

The rated power acceptance of a fuseholder is determined by a standardised testing procedure according to IEC 60127-6. It is intended to be the power dissipation caused by the inserted dummy fuse-link at the rated current of the fuseholder and at an ambient air temperature of $T_{A1} = T_{A2} = 23^\circ\text{C}$ (over a long period). During this test the following temperatures must not be exceeded on the surface of the fuseholder:

Fuseholder surface area	Maximum allowable temperature measuring points (see figure 1)	$^\circ\text{C}$
1. Accessible parts ¹⁾	T_{S1}	85
2. Inaccessible parts ¹⁾ Insulating parts	T_{S2}	2)

NOTES:

- 1) When the fuse-holder is properly assembled, installed and operated as in normal use, e.g. on the front panel of equipment.
- 2) The maximum allowable temperature of the used insulating materials corresponds to the Relative Temperature Index (RTI) according to IEC 60216-1 or UL 746 B.

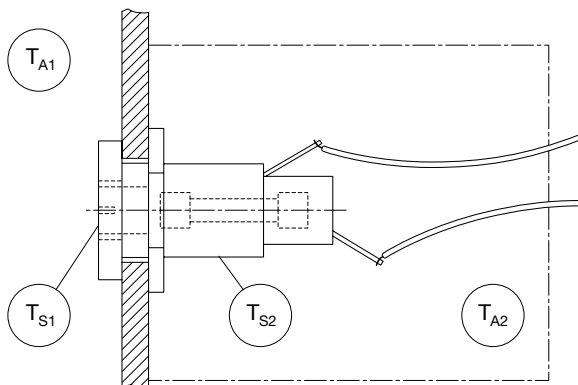


Illustration of temperatures experienced

T_{A1} = ambient air temperature, surrounding the equipment

T_{A2} = ambient air temperature in the equipment

T_{S1} = temperature of accessible parts on fuseholder surface

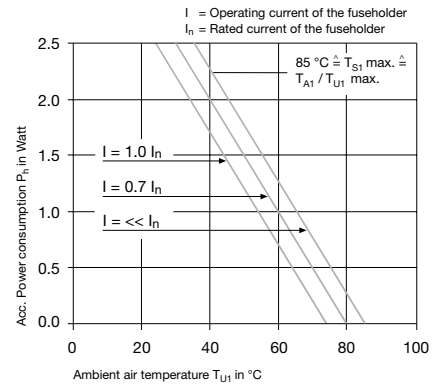
T_{S2} = temperature of inaccessible parts on fuseholder surface

7.5.6.4.2.5

Correlation between operating current I , ambient air temperature T_{A1} and the power acceptance P_n of the fuseholder.

This correlation is demonstrated by derating curves.

Example of a derating curve



I = operating current of the fuseholder
 I_n = rated current of the fuseholder

The derating curves demonstrate the admissible power acceptance of a fuseholder depending on the ambient air temperature T_{A1} for the following fuseholder operating currents: $I < I_n$, $I = 0,7 \cdot I_n$ and $I = 1,0 \cdot I_n$. This power acceptance corresponds to the max. admissible power dissipation of a fuse-link.

A calculation example can be looked up in the technical information for fuses.



general product-information

Technical Data to Line Switches

Line switch used by type	Technical data	
CMF1, CMF2, CMF3, CMF4	Electrical rating acc. to IEC/EN 61058-1	10 (4) A / 250 VAC, 10 000 switch operations 6 (4) A / 250 VAC, 50 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	6 A, 125250 VAC, 6000 switch operations (1/4) HP, 125 VAC (1/2) HP, 250 VAC Statement in () at inductive load with p. f. 0.45
	Inrush current acc. to IEC/EN 61058-1	capacitive 70 A, 34 ms continuous current 5 A 10 000 switch operations
	Contact gap	≥3 mm
KM, KMF, PMM, GRM1, GRM2, GRM4	Electrical rating acc. to IEC/EN 61058-1	10 (4) A / 250 VAC, 10 000 switch operations 6 (4) A / 250 VAC, 50 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	12 A, 125250 VAC, 6000 switch operations (1/3) HP, 125 VAC (1/2) HP, 250 VAC Statement in () at inductive load with p. f. 0.45 Meets switching current test acc. to UL 1054, TV-3
	Inrush current acc. to IEC/EN 61058-1	capacitive 100 A, 34 ms continuous current 5 A 10 000 switch operations
	Contact gap	≥3 mm
KEB1, KFB1	Electrical rating acc. to DIN/VDE 0630	12 (3) A / 250 VAC, 10 000 switch operations Statement in () at inductive load with p. f. 0.6
	Inrush current acc. to	capacitive 20 A, < 5 ms continuous current 5 A
	IEC/EN 61058-1	10 000 switch operations
	Contact gap	≥3 mm
DC11, DC12, DC21, DC22, DD11, DD12, DD21, DD22	Electrical rating acc. to IEC/EN 61058-1	16 (4) A / 250 VAC, 10 000 switch operations 10 (4) A / 250 VAC, 50 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	16 A / 125250 VAC, 6000 switch operations (1) HP 125 VAC / (2) HP 250 VAC Statement in () at inductive load with p. f. 0.45
	Inrush current acc. to IEC/EN 61058-1	capacitive 100 A, 3-4 ms 100 A, 3-4 ms continuous current 5 A
KP (Schalter), KEB2, KFB2, KD, CD, KG, CG, Felcom 54, Felcom 64, FKH, FK1, FKHD, FKID	Electrical rating acc. to IEC/EN 61058-1	12 (4) A / 250 VAC, 10 000 switch operations 8 (8) A / 250 VAC, 50 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	15 A, 125250 VAC, 6000 switch operations (3/4) HP, 125 VAC (1 1/2) HP, 250 VAC Statement in () at inductive load with p. f. 0.45 Meets switching current test acc. to UL 1054, TV-3
	Inrush current acc. to IEC/EN 61058-1	capacitive 70 A, 34 ms continuous current 5 A 10 000 switch operations
	Contact gap	≥3 mm
KD Bowden cable, CD Bowden cable, KG Bowden cable, CG Bowden cable	Electrical rating acc. to IEC/EN 61058-1	6 (4) A / 250 VAC, 10 000 switch operations Statement in () at inductive load with p. f. 0.6
	Electrical rating acc. to UL 1054	6 A, 250 VAC, 10 000 switch operations 8 A, 125 VAC, 10 000 switch operations
	Inrush current acc. to IEC/EN 61058-1	capacitive 36 A, < 5 ms continuous current 6 A 6000 switch operations
	Contact gap	≥3 mm
EC11, EC12	Electrical rating acc. to IEC/EN 61058-1	16 (4) A / 250 VAC, 10 000 switch operations 10 (4) A / 250 VAC, 50 000 switch operations



general product-information

Line switch used by type	Technical data
	Statement in () at inductive load with p. f. 0.6
Electrical rating acc. to UL 1054	20 A, 125/250 VAC, 6000 switch operations (1) HP, 125 VAC (2) HP, 250 VAC
	Statement in () at inductive load with p. f. 0.45
	Meets switching current test acc. to UL 1054, TV-3
Inrush current acc. to IEC/EN 61058-1	capacitive 100 A, 34 ms continuous current 5 A 10 000 switch operations
Contact gap	≥3 mm



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4740.3000	4740.6600	4740	34
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4752.3000	4752.8400	4752	21
4754.3000	4754.8400	4754	24
4758.3000	4758.8400	4758	27

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safe&easy

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