

# IEC Appliance Outlet F, Snap-in Mounting, Front Side, IDC Terminal



new



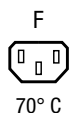
Arrangement "cross"  
(wires cross to pin axis)



Arrangement "along", view from rear side  
(wires along to pin axis)



6610 with integrated Light Pipe



## Description

- Panel Mount:  
Snap-in version, from front side
- Connector, Pin temperature 70 °C, Protection class I
- Wire gauge 1-1.5mm<sup>2</sup>/1.5mm<sup>2</sup>/2.5mm<sup>2</sup>/14AWG/12AWG
- IDC terminals acc. to IEC 60998-2-3 for solid wires

## Approvals

- ENEC File Number: 40035679
- UL File Number: E103791
- CCC File Number: 2010010204418560

## Characteristics

- IDC technology for efficient and cost saving mounting
- Protection cover can be used as "wire press"
- Live contact available as IDC, solder or quick connect terminal
- Suitable for use in equipment according to IEC/UL 60950

## Other versions on request

- UL approval for AWG 16; Versions for other wire gauges
- Protection class II, 70°C

## Weblinks

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

Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

The integration of light pipes in the appliance outlet provides status indication in smart PDUs. See Application Note for more information.

[Application Note](#)

## Technical Data

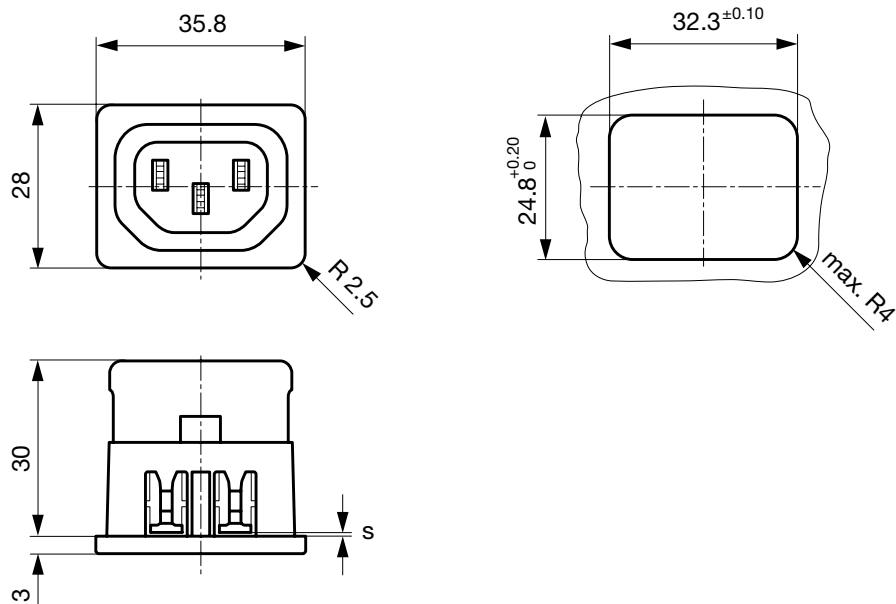
|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Ratings IEC               | 10A / 250VAC; 50Hz                                                |
| Ratings UL/CSA            | 15A / 250VAC; 60Hz                                                |
| 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                  | IDC terminals                                                     |
| Panel Thickness s         | Snap-in, 0.8/1/1.2/1.5/2/2.5/3.0 mm (other on request)            |
| Material: Housing         | Thermoplastic, black, UL 94V-0                                    |

|                  |                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------|
| Appliance Outlet | F acc. to IEC 60320<br>UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I |
|------------------|----------------------------------------------------------------------------------------------------------------------|

**Dimensions**

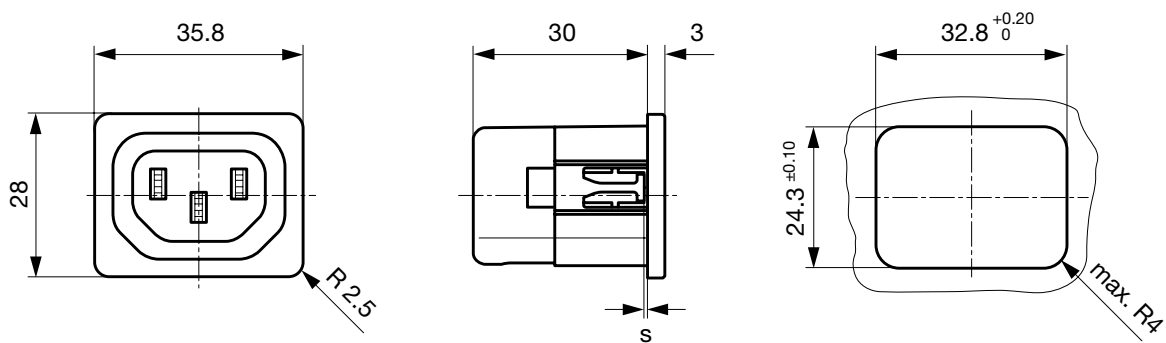
Version "cross" (wires cross to pin axis)

L/N/PE: IDC terminals



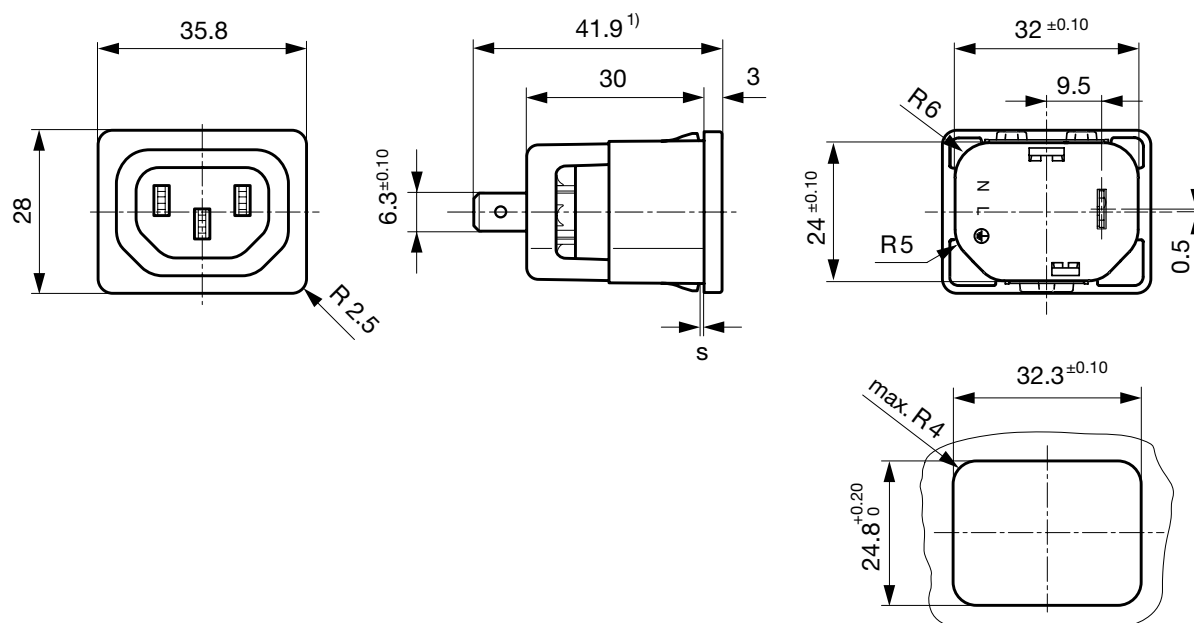
Version "along" (wires along to pin axis)

L/N/PE: IDC terminals



Version "cross" (wires cross to pin axis)

N/PE: IDC terminals, L: quick connect or solder terminal



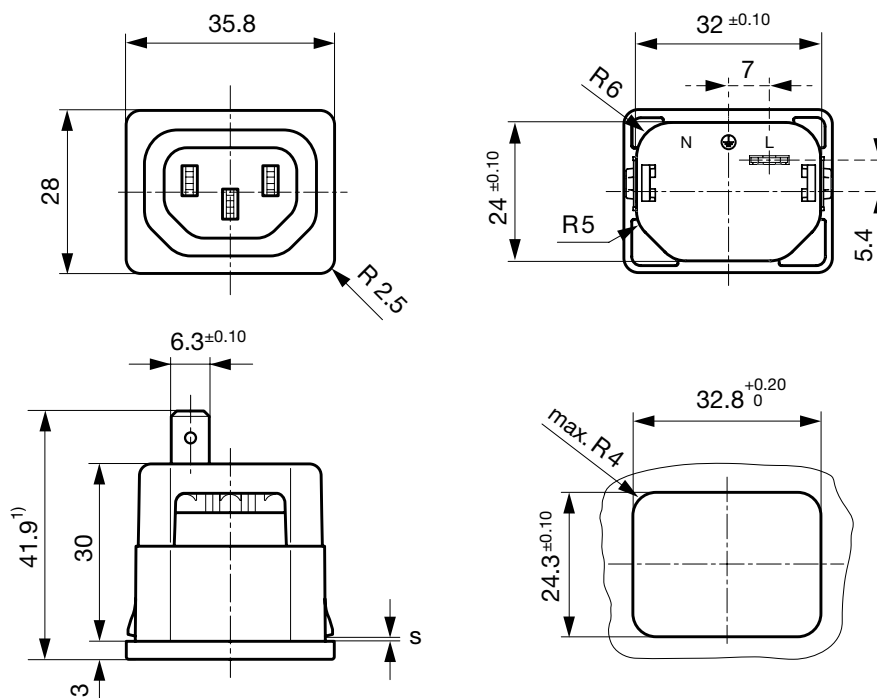
<sup>1)</sup> Other options:

Quick connect terminal 4.8x0.8: 40.3 mm

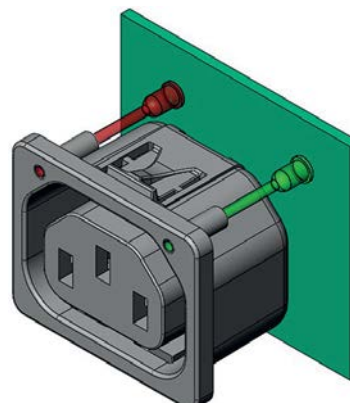
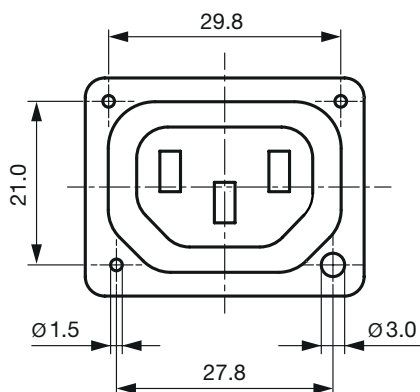
Solder terminal: 40.9 mm

Version "along" (wires along to pin axis)

N/PE: IDC terminals, L: quick connect or solder terminal



## Light Pipe integration



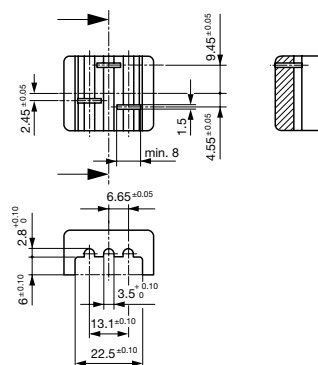
Arrangement of light pipes in the outlet and LEDs on the PCB. For more information, see the relevant Application Note.

The integration of light pipes in the appliance outlet provides status indication in smart PDUs. See Application Note for more information.

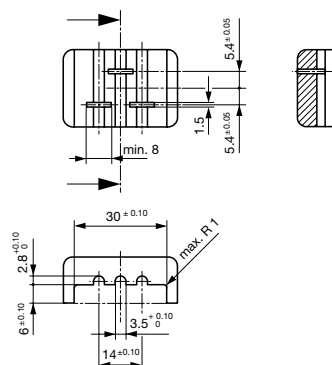
[Application Note](#)

## Assembly Instructions

## Mounting tool version "cross"



## Mounting tool version "along"



- The above mentioned dimensions are recommended when using an assembly tool.
- When using an assembly tool we recommend the above-mentioned dimensions.
- Use the cover or an assembly tool, to push the wires into the IDC terminals.
- The assembly force depends on the wire used and may require as much as 900 N.
- Press the wires into the IDC terminals until the wires touch with the plastic socket of the 6610 when using a tool.
- When using the cover be sure that it is properly mounted.
- The maximum diameter of the wire (including insulation) is 3.6 mm for along, 3.5 mm for cross version.
- The correct installation of the wires is essential for proper function of the 6610 in the end equipment.

## All Variants

| Alignment <sup>1)</sup> | Conductor cross section      | Panel Thickness<br>s [mm] | Terminal type live contact       | Order Number |
|-------------------------|------------------------------|---------------------------|----------------------------------|--------------|
| along                   | 1.0 - 1.5 mm <sup>2</sup>    | 2.5                       | IDC terminals                    | 6610.3016.03 |
| along                   | 1.5 mm <sup>2</sup> / 14 AWG | 1.5                       | IDC terminals                    | 6610.5014    |
| along                   | 1.5 mm <sup>2</sup> / 14 AWG | 1.5                       | IDC terminals                    | 6610.5014.03 |
| along                   | 1.5 mm <sup>2</sup> / 14 AWG | 2                         | IDC terminals                    | 6610.5015    |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 0.8                       | IDC terminals                    | 6610.1011    |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 1                         | IDC terminals                    | 6610.1012    |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.2                       | IDC terminals                    | 6610.1013    |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.5                       | IDC terminals                    | 6610.1014    |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 2                         | IDC terminals                    | 6610.1015    |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 2                         | IDC terminals                    | 6610.1015.03 |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 2.5                       | IDC terminals                    | 6610.1016    |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 3                         | IDC terminals                    | 6610.1017    |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.5                       | Quick connect terminal 6.3 x 0.8 | 6610.1254    |
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.5                       | Quick connect terminal 6.3 x 0.8 | 6610.1254.03 |

| Alignment <sup>1)</sup> | Conductor cross section      | Panel Thickness<br>s [mm] | Terminal type live contact       | Order Number |
|-------------------------|------------------------------|---------------------------|----------------------------------|--------------|
| along                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.5                       | Solder                           | 6610.1154    |
| cross                   | 1.5 mm <sup>2</sup> / 14 AWG | 1                         | IDC terminals                    | 6610.6012    |
| cross                   | 1.5 mm <sup>2</sup> / 14 AWG | 1.5                       | IDC terminals                    | 6610.6014    |
| cross                   | 1.5 mm <sup>2</sup> / 14 AWG | 1.5                       | Quick connect terminal 6.3 x 0.8 | 6610.6254    |
| cross                   | 2.5 mm <sup>2</sup> / 12 AWG | 1                         | IDC terminals                    | 6610.2012    |
| cross                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.2                       | IDC terminals                    | 6610.2013    |
| cross                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.5                       | IDC terminals                    | 6610.2014    |
| cross                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.5                       | IDC terminals                    | 6610.2014.03 |
| cross                   | 2.5 mm <sup>2</sup> / 12 AWG | 2                         | IDC terminals                    | 6610.2015    |
| cross                   | 2.5 mm <sup>2</sup> / 12 AWG | 2.5                       | IDC terminals                    | 6610.2016    |
| cross                   | 2.5 mm <sup>2</sup> / 12 AWG | 3                         | IDC terminals                    | 6610.2017    |
| cross                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.5                       | Quick connect terminal 6.3 x 0.8 | 6610.2254    |
| cross                   | 2.5 mm <sup>2</sup> / 12 AWG | 1.5                       | Solder                           | 6610.2154    |

Most Popular.

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

Articles for 1-1.5mm<sup>2</sup> only with ENEC approval. Outer diameter of wire (including insulation) max. 3.5 / 3.6 mm.

1) The alignment describes whether the wires are along or across to the connector pin axis.

Suffix ".03" corresponds to the version with V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

**Packaging unit** 50 Pcs

## Accessories

### Description



**Cord retaining kits**  
Cord retaining strain relief

|              |           |
|--------------|-----------|
| Flat head, E | 4700.0005 |
| Flat head, G | 4700.0007 |

## Mating Inlets/Plugs

### Category / Description

#### Plug Overview complete



|                                                                               |      |
|-------------------------------------------------------------------------------|------|
| IEC Plug E, Cord Connector (Rewireable), Straight, max. cable Diameter 8.5 mm | 4732 |
| IEC Plug E, Cord Connector (Rewireable), Straight, max. Cable Diameter 10 mm  | 4735 |
| IEC Plug E, Cord Connector (Rewireable), Straight                             | 9009 |
| IEC Plug E, Cord Connector (Rewireable), Angled, max. Cable Diameter 8.5 mm   | 4733 |
| IEC Plug E, Cord Connector (Rewireable), Angled, max. Cable Diameter 10 mm    | 4736 |

[Plug further types to 6610](#)

...

Mating Inlets/Plugs shuttered



Interconnection Cord Overview complete

|                                                               |           |
|---------------------------------------------------------------|-----------|
| VAC13KS, Interconnection, 2.0 m, Connector IEC C13, cord end: | 6051.2007 |
| VAC13KS, Interconnection, 3.0 m, Connector IEC C13, cord end: | 6051.2087 |
| VAC13KS, Interconnection, 1.5 m, Connector IEC C13, cord end: | 6051.2067 |

[Interconnection Cord further types to 6610](#)