Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com
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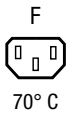## IEC Appliance Outlet F, Snap-in Mounting, Front Side, IDC Terminal

**V-Lock**

**new**



Arrangement "cross"
(wires cross to pin axis)



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



6610 with integrated Light Pipe

**F**

70° C

RoHS COMPLIANT

### Description
- Panel Mount :
  Snap-in version , from front side
- Connector , Pin temperature 70 °C , Protection class I
- Wire gauge 1-1.5mm²/1.5mm²/2.5mm²/14AWG/12AWG
- IDC terminals acc. to IEC 60998-2-3 for solid wires

### Unique Selling Proposition
- IDC terminals for efficient wiring
- Significant reduces labor costs
- Cross and along orientation
- Ideal for PDU applications

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

### Characteristics
- 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

### References
Alternative: version for 16 A (20 A)

### Weblinks
pdf datasheet, html-datasheet, General Product Information, RoHS, CHINA-RoHS, REACH, Distributor-Stock-Check, Accessories, Mounting instruction, 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.
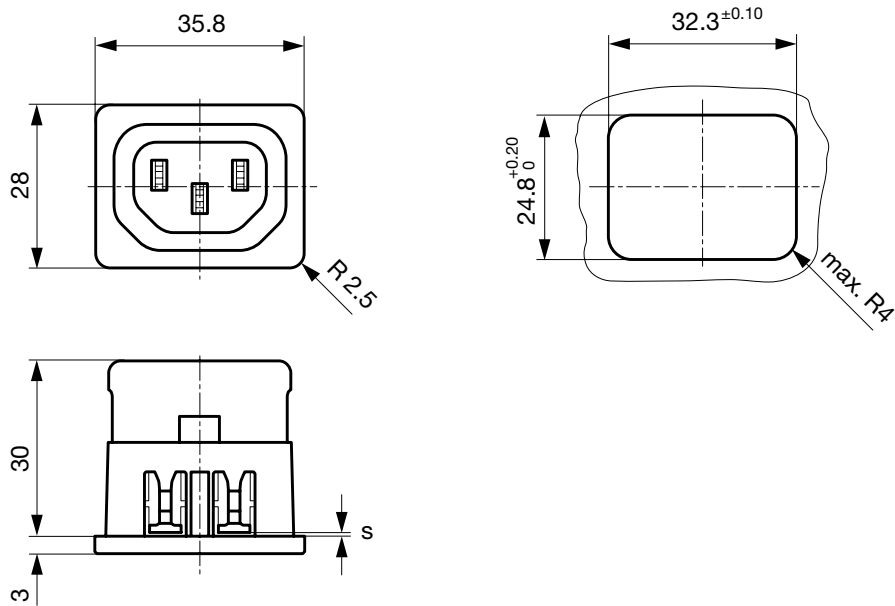Application Note

### Technical Data

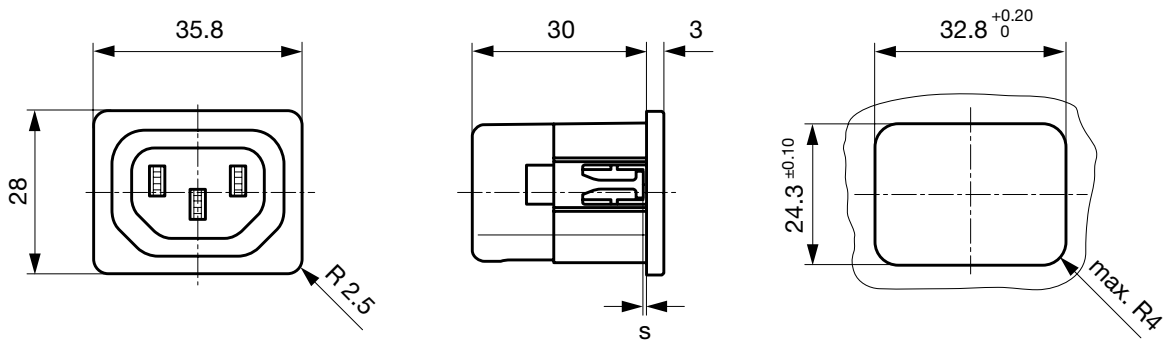| | | | |
|---|---|---|---|
| Ratings IEC | 10A / 250VAC; 50Hz | appliance inlet/-outlet | F acc. to IEC 60320-1 |
| Ratings UL/CSA | 15A / 250VAC; 60Hz | | UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I |
| Allowable Operation Temperature | -25°C to 70°C | | |
| IP-Protection | from front side IP 40 acc. to IEC 60529 | | |
| Insulation cover | 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 | | |

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in
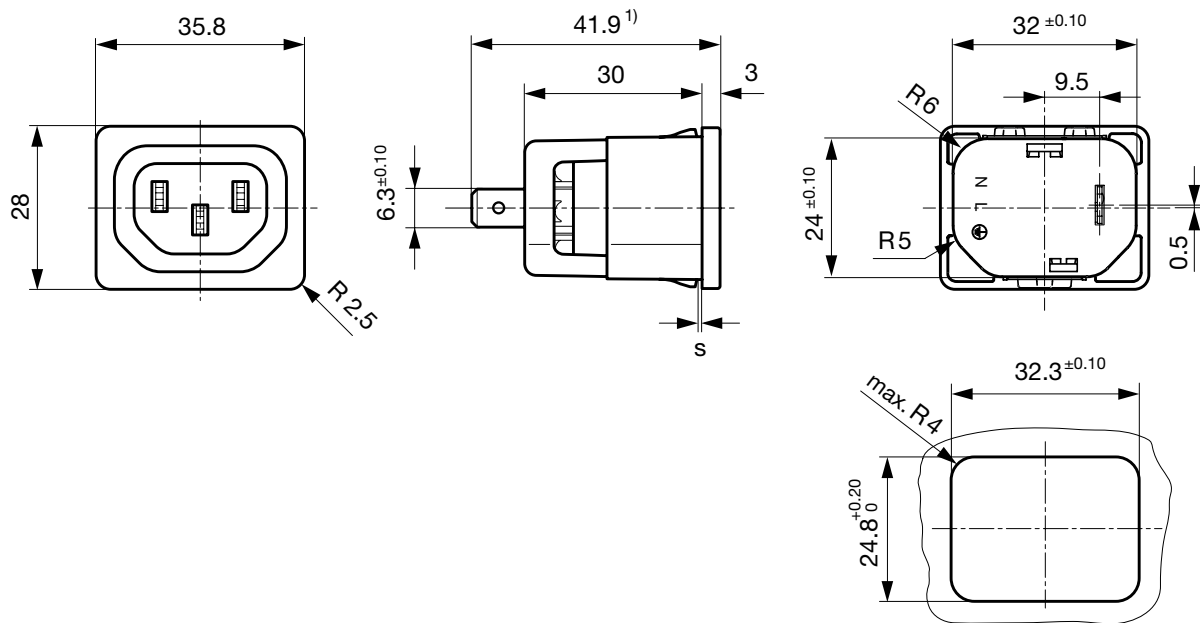General Product Information

**Dimensions**
Version "cross" (wires cross to pin axis)
L/N/PE: IDC terminals

35.8

28

R 2.5

$32.3^{\pm0.10}$

$24.8^{+0.20}_{0}$

max. R4

30

s

3

Version "along" (wires along to pin axis)
L/N/PE: IDC terminals

35.8

28

R 2.5

30

3

s

$32.8^{+0.20}_{0}$

$24.3^{\pm0.10}$

max. R4

Version "cross" (wires cross to pin axis)
N/PE: IDC terminals, L: quick connect or solder terminal

35.8    41.9 [1]    32 ±0.10

28    30   3    9.5

6.3 ±0.10    R6

24 ±0.10    R5   0.5

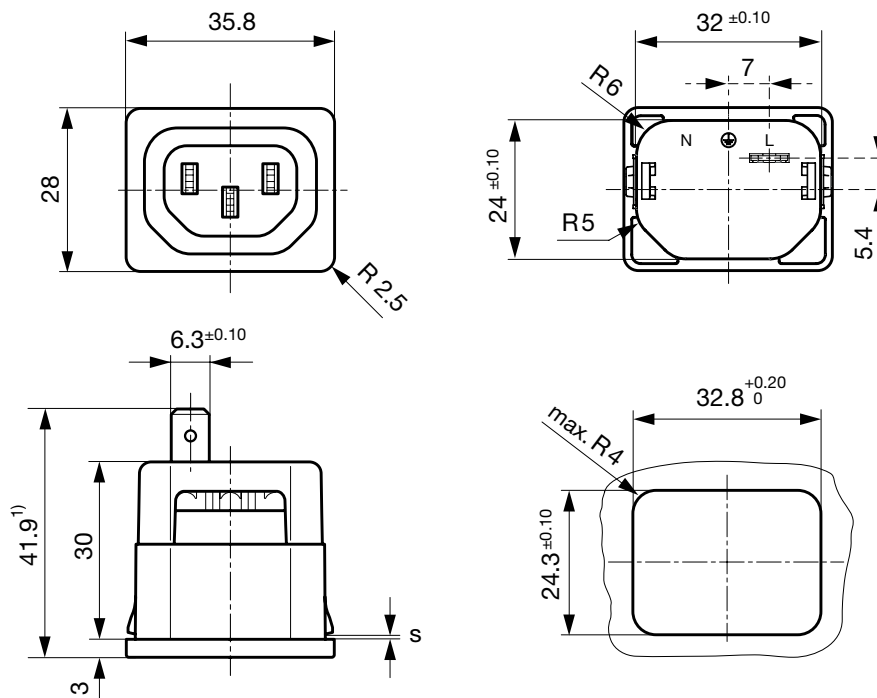R 2.5    s

N   L

32.3 ±0.10

max. R 4

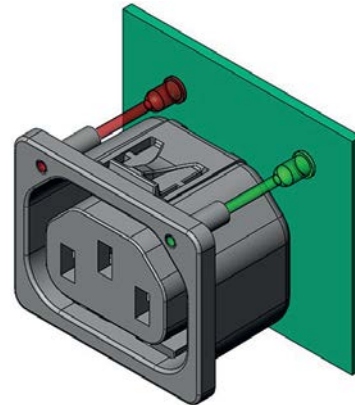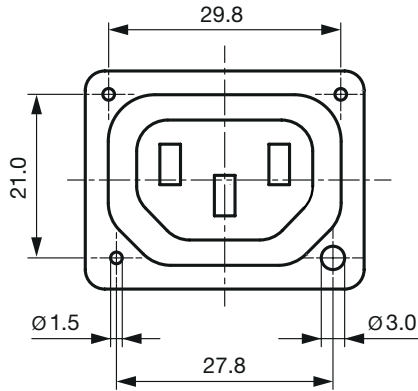24.8 +0.20/0

[1] 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

35.8    32 ±0.10

28    7

R6

24 ±0.10    R5   5.4

R 2.5    N   L

6.3 ±0.10

41.9 [1]   30   3    s

32.8 +0.20/0

max. R 4

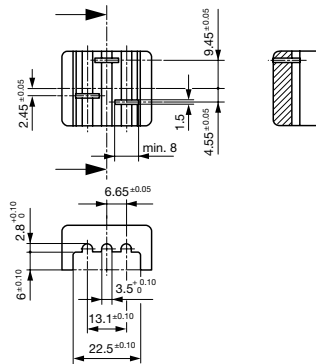24.3 ±0.10

## Light Pipe integration

Arrangement of light pipes in the outlet and LEDs on the PCB. For more information, see the relevant Application Note.
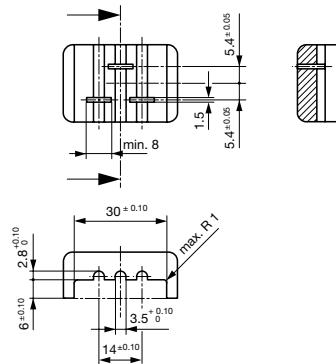
The integration of light pipes in the appliance outlet provides status indication in smart PDUs. See Application Note for more information.
Application Note

## 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 [1] | Conductor cross section | Panel Thickness s [mm] | Terminal type live contact | Order Number |
|---|---|---|---|---|
| along | 1.0 - 1.5 mm² | 2.5 | IDC terminals | 6610.3016.03 |
| along | 1.5 mm² / 14 AWG | 1.5 | IDC terminals | 6610.5014 |
| along | 1.5 mm² / 14 AWG | 1.5 | IDC terminals | 6610.5014.03 |
| along | 1.5 mm² / 14 AWG | 2 | IDC terminals | 6610.5015 |
| along | 2.5 mm² / 12 AWG | 0.8 | IDC terminals | 6610.1011 |
| along | 2.5 mm² / 12 AWG | 1 | IDC terminals | 6610.1012 |
| along | 2.5 mm² / 12 AWG | 1.2 | IDC terminals | 6610.1013 |
| along | 2.5 mm² / 12 AWG | 1.5 | IDC terminals | 6610.1014 |
| along | 2.5 mm² / 12 AWG | 2 | IDC terminals | 6610.1015 |
| along | 2.5 mm² / 12 AWG | 2 | IDC terminals | 6610.1015.03 |
| along | 2.5 mm² / 12 AWG | 2.5 | IDC terminals | 6610.1016 |
| along | 2.5 mm² / 12 AWG | 3 | IDC terminals | 6610.1017 |

| Alignment [1] | Conductor cross section | Panel Thickness s [mm] | Terminal type live contact | Order Number |
|---|---|---|---|---|
| along | 2.5 mm² / 12 AWG | 1.5 | Quick connect terminal 4.8 x 0.8 | 6610.1354 |
| along | 2.5 mm² / 12 AWG | 1.5 | Quick connect terminal 4.8 x 0.8 | 6610.1354.03 |
| along | 2.5 mm² / 12 AWG | 1.5 | Quick connect terminal 6.3 x 0.8 | 6610.1254 |
| along | 2.5 mm² / 12 AWG | 1.5 | Quick connect terminal 6.3 x 0.8 | 6610.1254.03 |
| along | 2.5 mm² / 12 AWG | 1.5 | Solder | 6610.1154 |
| cross | 1.5 mm² / 14 AWG | 1 | IDC terminals | 6610.6012 |
| cross | 1.5 mm² / 14 AWG | 1.5 | IDC terminals | 6610.6014 |
| cross | 1.5 mm² / 14 AWG | 1.5 | Quick connect terminal 6.3 x 0.8 | 6610.6254 |
| cross | 2.5 mm² / 12 AWG | 1 | IDC terminals | 6610.2012 |
| cross | 2.5 mm² / 12 AWG | 1.2 | IDC terminals | 6610.2013 |
| cross | 2.5 mm² / 12 AWG | 1.5 | IDC terminals | 6610.2014 |
| cross | 2.5 mm² / 12 AWG | 1.5 | IDC terminals | 6610.2014.03 |
| cross | 2.5 mm² / 12 AWG | 2 | IDC terminals | 6610.2015 |
| cross | 2.5 mm² / 12 AWG | 2.5 | IDC terminals | 6610.2016 |
| cross | 2.5 mm² / 12 AWG | 3 | IDC terminals | 6610.2017 |
| cross | 2.5 mm² / 12 AWG | 1.5 | Quick connect terminal 6.3 x 0.8 | 6610.2254 |
| cross | 2.5 mm² / 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 1-1.5mm² 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, V-Lock cord retaining, 0.6 m, Connector IEC C13, H05VV-F3G0.75 / SVT 3x18 AWG, black | 3-100-354 |
| VAC13KS, Interconnection, V-Lock cord retaining, 1.2 m, Connector IEC C13, H05VV-F3G0.75 / SVT 3x18 AWG, black | 3-100-355 |
| VAC13KS, Interconnection, V-Lock cord retaining, 1.5 m, Connector IEC C13, H05VV-F3G0.75 / SVT 3x18 AWG, black | 3-100-356 |
| VAC13KS, Interconnection, V-Lock cord retaining, 3.0 m, Connector IEC C13, SVT 3x18 AWG, black | 3-100-361 |
| VAC13KS, Interconnection, V-Lock cord retaining, 1.8 m, Connector IEC C13, H05VV-F3G0.75 / SVT 3x18 AWG, black | 3-100-734 |
| Interconnection Cord further types to 6610 | ... |

07.03.2017