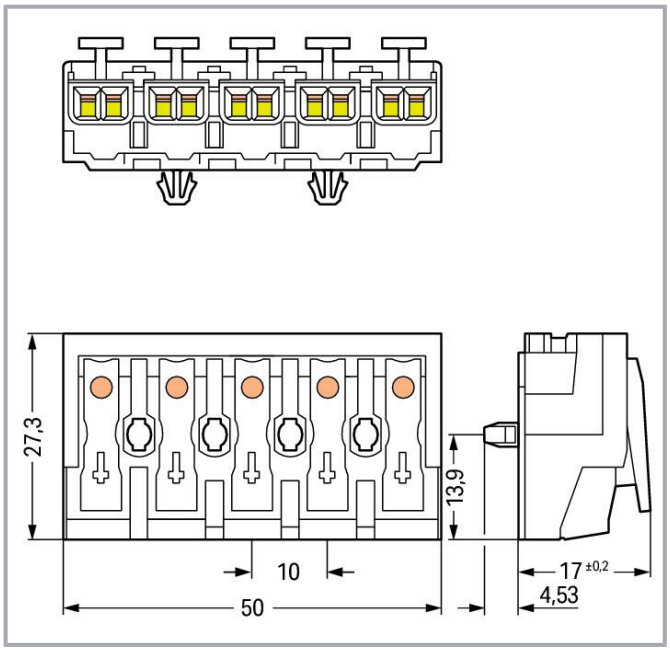
**Data sheet | Item number: 294-5045**

Lighting connector; push-button, external; without ground contact; 5-pole; Lighting side: for solid conductors; Inst. side: for all conductor types; max. 2.5 mm²; Surrounding air temperature: max 85°C (T85); 2,50 mm²; white

www.wago.com/294-5045




## Item description

- External connection of solid, stranded and fine-stranded conductors
- Universal conductor termination (AWG, metric)
- Third contact located at the bottom of internal connection end
- Strain relief plate can be retrofitted

## Data

## Electrical data

### Ratings per IEC/EN

| | |
|---|---|
| Ratings per | IEC/EN 60998-1 |
| Nominal voltage (II/2) | 500 V |
| Rated surge voltage (II/2) | 4 kV |
| Rated current | 24 A |

Subject to changes. Please also observe the further product documentation!

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| | |
|---|---|
| Legend (ratings) | (II / 2) ≙ Overvoltage category II / Pollution degree 2 |

## Ratings per IEC/EN – Notes

| | |
|---|---|
| Ratings (note) | Connection points |

## Ratings per IEC/EN 2

| | |
|---|---|
| Ratings per 2 | IEC/EN 60998-2-2 |
| Ratings (note) 2 | Connection points |
| Rated voltage (II/2) 2 | 500 V |
| Rated surge voltage (II/2) 2 | 4 kV |
| Rated current 2 | 24 A |

## Connection data

| | |
|---|---|
| Connection points | 25 |
| Total number of potentials | 5 |
| Number of connection types | 4 |
| PE function | without PE contact |

## Connection 1

| | |
|---|---|
| Connection type 1 | External 1 |
| Connection technology | Push-in CAGE CLAMP® |
| Number of connection points | 2 |
| Actuation type | Push-button |
| Connectable conductor materials | Copper<br>Copper |
| Solid conductor | 0.5 … 2.5 mm² / 18 … 12 AWG |
| Solid conductor; push-in termination | 0.5 … 2.5 mm² / 18 … 12 AWG |
| Stranded conductor | 0.5 … 2.5 mm² / 18 … 14 AWG |
| Fine-stranded conductor | 0.5 … 2.5 mm² / 18 … 14 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.5 … 1.5 mm² / 18 … 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0.5 … 1.5 mm² / 18 … 16 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0.5 mm² / 18 AWG |
| Strip length | 8 … 9 mm / 0.31 … 0.35 inches |
| Pole number | 5 |
| Wiring direction | Side-entry wiring |

Subject to changes. Please also observe the further product documentation!

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## Connection 2

| | |
|---|---|
| Connection type 2 | Internal 2 |
| Connection technology 2 | PUSH WIRE® |
| Number of connection points 2 | 1 |
| Actuation type 2 | Push-in<br>Push-in |
| Solid conductor 2 | 0.5 … 2.5 mm² / 18 … 14 AWG |
| Fine-stranded conductor; with insulated ferrule 2 | 0.5 … 1 mm² / 18 … 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule 2 | 0.5 … 1.5 mm² / 18 … 14 AWG |
| Strip length 2 | 8 … 9 mm / 0.31 … 0.35 inches |

## Connection 3

| | |
|---|---|
| Connection type 3 | Internal 3 |
| Connection technology 3 | PUSH WIRE® |
| Number of connection points 3 | 1 |
| Actuation type 3 | Push-in |
| Solid conductor 3 | 0.5 … 1.5 mm² / 18 … 16 AWG |
| Fine-stranded conductor; with insulated ferrule 3 | 0.5 … 0.75 mm² / 18 AWG |
| Fine-stranded conductor; with uninsulated ferrule 3 | 0.5 … 1 mm² / 18 AWG |
| Strip length 3 | 8 … 9 mm / 0.31 … 0.35 inches |

## Connection 4

| | |
|---|---|
| Connection type 4 | Internal 4 |
| Connection technology 4 | PUSH WIRE® |
| Number of connection points 4 | 1 |
| Actuation type 4 | Push-in |
| Solid conductor 4 | 0.5 … 0.75 mm² / 18 AWG |
| Strip length 4 | 8 … 9 mm / 0.31 … 0.35 inches |

## Physical data

| | |
|---|---|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 50 mm / 1.969 inches |
| Height | 21.53 mm / 0.848 inches |
| Height from the surface | 17 mm / 0.669 inches |
| Depth | 27.3 mm / 1.075 inches |

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## Mechanical data

| | |
|---|---|
| Marking | 5-4-3-2-1 |
| Mounting type | Snap-in foot |

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | white |
| Material group | IIIa |
| Insulation material | Polycarbonate (PC) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Electrolytic copper ($E_{Cu}$) |
| Contact plating | Tin |
| Fire load | 0.302 MJ |
| Halogen-free | Yes |
| Weight | 15.2 g |

## Environmental requirements

| | |
|---|---|
| Temperature stability | 120 °C |
| T marking | T85 |

## Commercial data

| | |
|---|---|
| Product Group | 8 (Misc. Chassis Mount Blocks) |
| eCl@ss 10.0 | 27-14-11-06 |
| eCl@ss 9.0 | 27-14-11-06 |
| ETIM 8.0 | EC001284 |
| ETIM 7.0 | EC001284 |
| ECCN | NO DATA |
| PU (SPU) | 250 pcs |
| Packaging type | Foil |
| Country of origin | CH |
| GTIN | 4050821098270 |
| Customs tariff number | 85369010000 |

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## Environmental Product Compliance

| | |
|---|---|
| REACH Candidate List Substance | Perfluorobutane sulfonic acid (PFBS) and its salts |
| RoHS Compliance Status | Compliant,No Exemption |
| SCIP notification number (Austria) | 728c3aac-47c4-4a97-a754-78075a32112c |
| SCIP notification number (Belgium) | 07ecfe28-5ccc-48cb-9edc-f5e73653b14a |
| SCIP notification number (Bulgaria) | 884e9ee2-f2b3-418c-a184-f359a3fb320a |
| SCIP notification number (Czech Republic) | 2863f9b5-e34d-4ed2-8c3e-b3edaae09e26 |
| SCIP notification number (Denmark) | 1b4ced9a-b5f5-4814-b441-836b47fcdda6 |
| SCIP notification number (Finland) | b2d2f321-dcdb-4572-b768-5313fae2f14f |
| SCIP notification number (France) | a233ad2b-2e80-491e-aba7-a499418755d8 |
| SCIP notification number (Germany) | 5a5f32d5-74cc-4035-8ee6-c7b38f8e904c |
| SCIP notification number (Hungary) | a6a6cb9a-d4d1-4d38-ada2-190001b1217e |
| SCIP notification number (Italy) | 9974ee40-f81b-4106-bc69-bbf3ae4638c8 |
| SCIP notification number (Netherlands) | d7d91bd3-577d-448c-9213-8d363e0ba57f |
| SCIP notification number (Poland) | 71c70f97-3b87-4c87-b440-bf4fc41b4784 |
| SCIP notification number (Romania) | e08335e4-0c56-4393-babb-9c12ec5fae66 |
| SCIP notification number (Sweden) | 778a80c9-4ce9-4f69-9a7e-22afd755c153 |

## Approvals / Certificates

### General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **ENEC 05**<br>DEKRA Certification B.V. | EN 60998 | 2128791.01 |

### Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **EU-Declaration of Conformity**<br>WAGO GmbH & Co. KG | - | - |
| | **UK-Declaration of Conformity**<br>WAGO GmbH & Co. KG | - | - |

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## Optional accessories

### Strain relief

| | | |
|---|---|---|
| Strain relief | | |
|  | **Item no.: 294-370**<br>Strain relief; for 294 Series; with snap-in mounting feet; white | www.wago.com/294-370 |
|  | **Item no.: 294-375**<br>Strain relief; for 294 Series; without snap-in mounting feet; white | www.wago.com/294-375 |
| Strain relief plate | | |
|  | **Item no.: 294-364**<br>Strain relief plate; for 294 Series; for multicore cables; 3- to 5-pole; with secured clamp; white | www.wago.com/294-364 |
|  | **Item no.: 294-384**<br>Strain relief plate; for 294 Series; for single strands; 3- to 5-pole; with secured clamp; white | www.wago.com/294-384 |

### Tool

| | | |
|---|---|---|
| Operating tool | | |
|  | **Item no.: 206-294**<br>Disconnection tool; green | www.wago.com/206-294 |

## Downloads

### Documentation

#### Bid Text

| | | | |
|---|---|---|---|
| 294-5045<br>X81 - Datei | 2019 年2月19 日 | xml<br>5.7 kB | Download |
| 294-5045<br>doc - Datei | 2017 年6月13 日 | doc<br>29.2 kB | Download |

#### Additional Information

| | | | |
|---|---|---|---|
| Technical Section<br>Technical explanations | | pdf<br>2.3 MB | Download |

## CAD/CAE-Data

### CAD data

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| | | |
|---|---|---|
| 2D/3D Models 294-5045 | URL | Download |

**CAE data**

| | | |
|---|---|---|
| ZUKEN Portal 294-5045 | URL | Download |
| WSCAD Universe 294-5045 | URL | Download |

**Asset Administration Shell**

| | | |
|---|---|---|
| Asset Administration Shell 294-5045 | URL | Download |

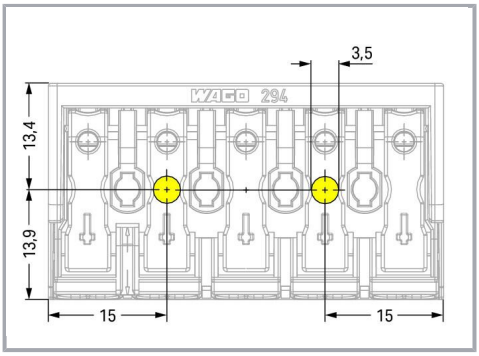
## Environmental Product Compliance

**Compliance Search**

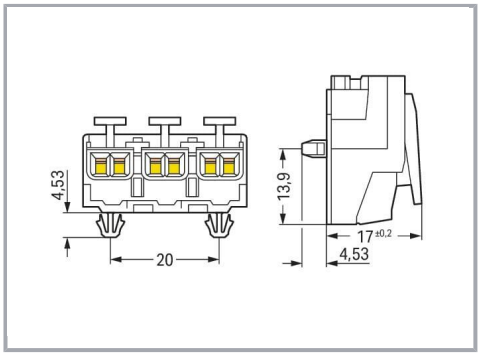
| | | |
|---|---|---|
| Environmental Product Compliance 294-5045<br>Lighting connector; push-button, external; without ground contact; 5-pole; Lighting side: for solid conductors; Inst. side: for all conductor types; max. 2.5 mm²; Surrounding air temperature: max 85°C (T85); 2,50 mm²; white | URL | Download |

## Installation Notes

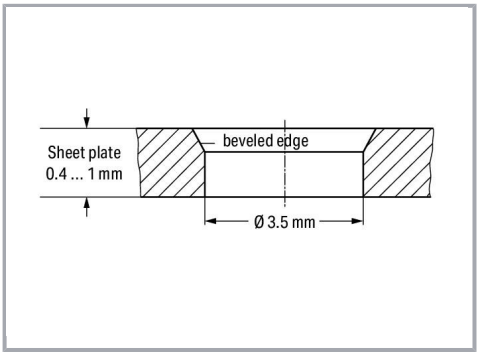
**Installation**




5-pole – without ground contact

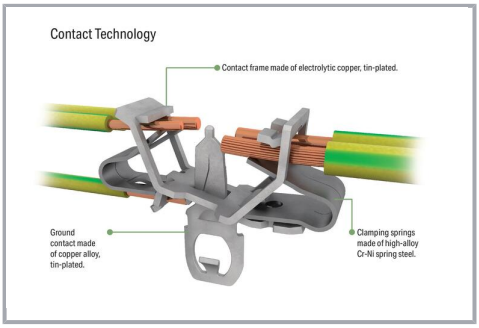


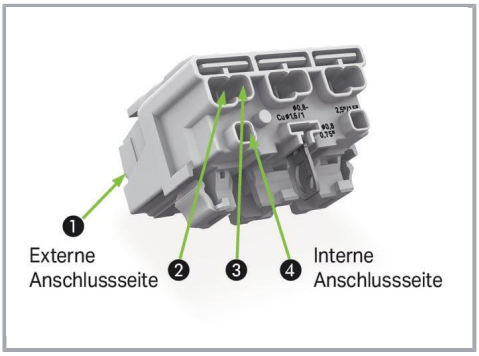

Snap-in foot




Drilled hole for snap-in mounting foot

### Conductor termination




| EUROPE |
| --- |
| 1 x 0.5 … 2.5 mm² "s" |
| 1 x 0.5 … 1.5 mm² "s" |
| 1 x 0.5 … 0.75 mm² "s" |
| AMERICA |
| 1 x AWG 18 … 14 "s" |
| 1 x AWG 18 … 16 "s" |
| 1 x AWG 18 "s" |
| JAPAN |
| 1 x 0.8 … 1.6 mm diam. "s" |
| 1 x 0.8 … 1 mm diam. "s" |
| 1 x 0.8 mm diam. "s" |

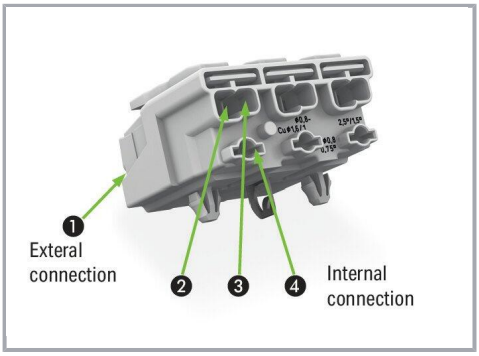
**Internal connection:**
PUSH WIRE® for internal wiring with solid conductors

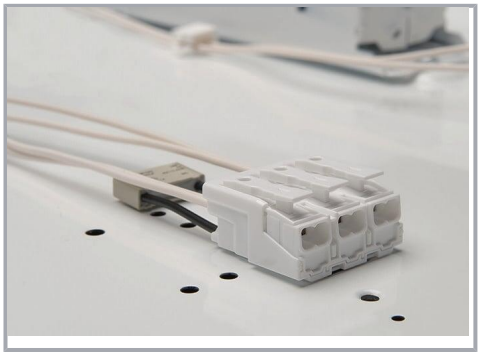
| EUROPE |
| --- |
| 2 x 0.5 … 2.5 mm² "s, str, f-str" |
| |
| |
| AMERICA |
| 2 x AWG 18 … 12 "s" |
| 2 x AWG 18 … 14 "s, f-str" |
| |
| JAPAN |
| 2 x 0.8 … 2 mm diam. "s" |
| 2 x 0.5 … 2 mm² "str, f-str" |
| |

**External connection:**
Push-in CAGE CLAMP® for field-wiring with all conductor types

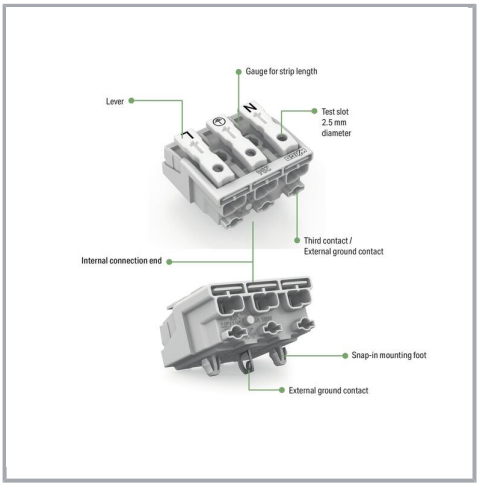


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Terminating five conductors per pole – solid and fine-stranded.






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