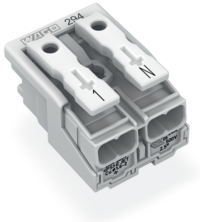
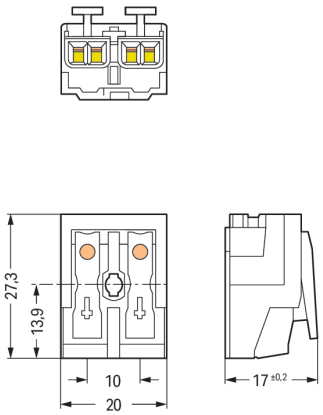
# Data Sheet | Item Number: 294-4052

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

https://www.wago.com/294-4052






Color: white

Dimensions in mm

Field-wiring terminal block, 294 Series, Push-in CAGE CLAMP®

Quick and easy connections are guaranteed with this field-wiring terminal block (item number 294-4052). Strip lengths must be between 8 and 9 mm when connecting conductors to this field-wiring terminal block. This product incorporates four conductor terminals and utilizes Push-in CAGE CLAMP® and PUSH WIRE®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Solid and fine-stranded conductors with ferrules can be plugged in without needing to use any tools—all thanks to its pluggable design. Our trusted PUSH WIRE® connection offers the fastest method for clamping conductors. It utilizes the conductor's stiffness to overcome the clamping spring's contact force. The item's dimensions are (20 x 17 x 27.3) mm (width x height x depth). Depending on the type of conductor, this field-wiring terminal block is designed for conductor cross sections ranging from 0.5 mm² to 2.5 mm² on one side and for conductor cross sections from 0.5 mm² to 2.5 mm² on the other side as well as conductor cross sections from 0.5 mm² to 1.5 mm² and from 0.5 mm² to 0.75 mm².

The contact surface is coated with tin.

## Electrical data

| Ratings per | IEC/EN 60998-1 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | - | - | 500 V |
| Rated impulse withstand voltage | - | - | 4 kV |
| Rated current | - | - | 24 A |

| Ratings per IEC/EN – Notes | |
|---|---|
| Ratings (note) | Connection points |

| Ratings per | IEC/EN 60998-2-2 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | - | - | 500 V |
| Rated impulse withstand voltage | - | - | 4 kV |
| Rated current | - | - | 24 A |

| General information | |
|---|---|
| Wiring direction | Side-entry wiring |

## Connection Data

| | |
|---|---|
| Clamping units | 10 |
| Total number of potentials | 2 |
| Number of connection types | 4 |
| PE function | without PE contact |

### Connection 1

| | |
|---|---|
| Connection type | External 1 |
| Connection technology | Push-in CAGE CLAMP® |
| Number of connection points | 2 |
| Actuation type | Push-button |
| Connectable conductor materials | 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 | 2 |
| Wiring direction | Side-entry wiring |

### Connection 2

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

### Connection 3

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

### Connection 4

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

## Physical data

| | |
|---|---|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 20 mm / 0.787 inches |
| Height | 17 mm / 0.669 inches |
| Depth | 27.3 mm / 1.075 inches |


Continued on next page

## Mechanical data

| | |
|---|---|
| Marking | 1-N |
| Mounting type | without snap-in mounting feet |

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | white |
| Material group | IIIa |
| Insulation material (main housing) | 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 | 0.093 MJ |
| Halogen-free | Yes |
| Weight | 6.1 g |

## Environmental requirements

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

## Commercial data

| | |
|---|---|
| Product Group | 8 (Misc. Chassis Mount Blocks) |
| PU (SPU) | 1000 pcs |
| Packaging type | Foil |
| Country of origin | CH |
| GTIN | 4050821097792 |
| Customs tariff number | 85369010000 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121402 |
| eCl@ss 10.0 | 27-14-11-06 |
| eCl@ss 9.0 | 27-14-11-06 |
| ETIM 9.0 | EC001284 |
| ETIM 10.0 | EC001284 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,No Exemption |
| SCIP notification number (Austria) | 5a5e424c-db60-4a3e-b813-06ce5c58e0cc |
| SCIP notification number (Belgium) | 35e86fff-6302-4612-81e9-3c3c5da25dae |
| SCIP notification number (Bulgaria) | 4fe6f42a-880a-4997-85e2-382c2c977a81 |
| SCIP notification number (Czech Republic) | 83626a17-565c-415a-9167-8db1cd8bbbdf |
| SCIP notification number (Denmark) | a6a2e812-6d98-4e34-b48e-420e3a325b5c |
| SCIP notification number (Finland) | 9f8587f5-a86b-4cb0-939b-32e165360d80 |
| SCIP notification number (France) | 76bd005a-4b82-4071-bfc9-13c817e72197 |
| SCIP notification number (Germany) | 9468f96c-bec1-4c33-a795-c35969f5ed05 |
| SCIP notification number (Hungary) | 884521a0-36c6-4bf9-9daf-bc1f56d58fbf |
| SCIP notification number (Italy) | f5f2aeb7-16a9-4a0d-96bd-de5de41cb4b3 |
| SCIP notification number (Netherlands) | 4bfe47c4-fb43-48ac-9a57-2a38824aff2e |
| SCIP notification number (Poland) | 3bdc64d8-69ae-4f6f-ba2f-22ad93a9ac07 |
| SCIP notification number (Romania) | 4f420822-6ea7-4409-a7cd-d3a422728293 |


Continued on next page

## Environmental Product Compliance

| | |
|---|---|
| SCIP notification number (Sweden) | d2b1e3f8-9b1e-4ab8-8aa1-c63b7df88fd3 |

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| ENEC 05<br>DEKRA Certification B.V. | EN 60998 | 2128791.01 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 294-4052

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 294-4052 | 13.06.2017 | doc<br>27.00 KB |
| 294-4052 | 19.02.2019 | xml<br>5.57 KB |

## CAD/CAE-Data

**CAD data**

2D/3D Models 294-4052

**CAE data**

WSCAD Universe 294-4052

ZUKEN Portal 294-4052


Continued on next page

# 1 Compatible Products

## 1.1 Optional Accessories

### 1.1.1 Strain relief

#### 1.1.1.1 Strain relief



Item No.: 294-370
Strain relief; for 294 Series; with snap-in mounting feet; white



Item No.: 294-375
Strain relief; for 294 Series; without snap-in mounting feet; white

#### 1.1.1.2 Strain relief plate



Item No.: 294-364
Strain relief plate; for 294 Series; for multi-core cables; 3- to 5-pole; with secured clamp; white



Item No.: 294-384
Strain relief plate; for 294 Series; for single strands; 3- to 5-pole; with secured clamp; white

### 1.1.2 Tool

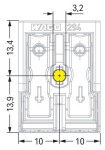
#### 1.1.2.2 Operating tool



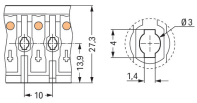
Item No.: 206-294
Disconnection tool; green

# Installation Notes

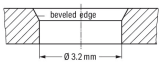
## Installation




2-pole – without ground contact

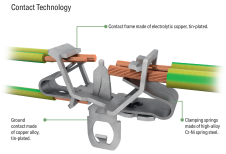



Mounting hole for screw
**Notice:** The maximum thread diameter for self-tapping screws is 3 mm.




Hole for screw mount
**Notice:** The maximum thread diameter for self-tapping screws is 3 mm.

## Conductor termination

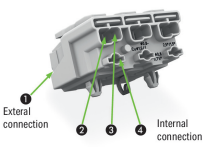



| EUROPE |
|---|
| 1 x 0.5 … 2.5 mm² "s" |
| 1 x 0.5 … 1.5 mm² "s" |
| 1 x 0.5 … 0.75 mm² "s" |
| AMERICA |
| 1 x AWG 18 … 14 "s" |
| 1 x AWG 18 … 16 "s" |
| 1 x AWG 18 "s" |
| JAPAN |
| 1 x 0.8 … 1.6 mm diam. "s" |
| 1 x 0.8 … 1 mm diam. "s" |
| 1 x 0.8 mm diam. "s" |

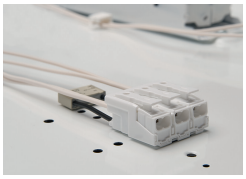
**Internal connection:**
PUSH WIRE® for internal wiring with solid conductors

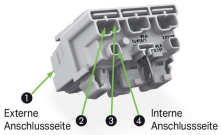
| EUROPE |
|---|
| 2 x 0.5 … 2.5 mm² "s, str, f-str" |
| AMERICA |
| 2 x AWG 18 … 12 "s" |
| 2 x AWG 18 … 14 "s, f-str" |
| JAPAN |
| 2 x 0.8 … 2 mm diam. "s" |
| 2 x 0.5 … 2 mm² "str, f-str" |

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



## Conductor termination






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

