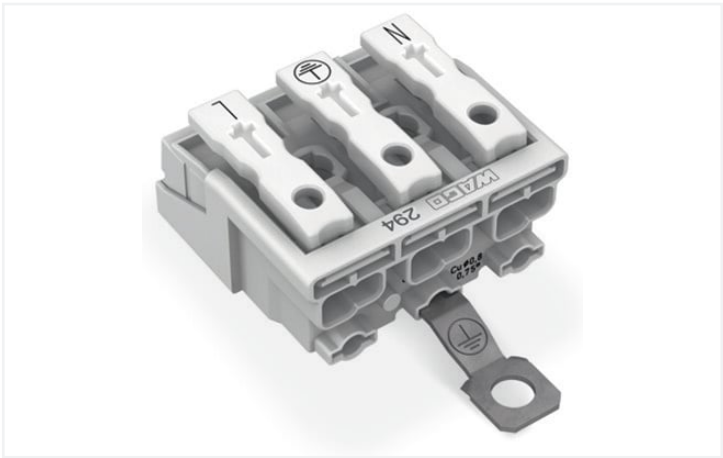


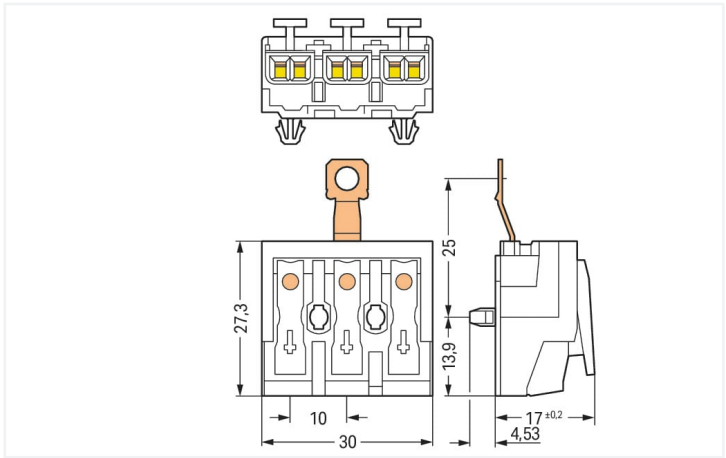
Data Sheet | Item Number: 294-5413

Lighting connector; push-button, external; with screw-type ground contact; N-PE-L;  
3-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

<https://www.wago.com/294-5413>



Color: white



Dimensions in mm

- 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

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

| Connection data            |                       | Connection 1                                               |                                   |
|----------------------------|-----------------------|------------------------------------------------------------|-----------------------------------|
| Connection points          | 15                    | Connection type 1                                          | External 1                        |
| Total number of potentials | 3                     | Connection technology                                      | Push-in CAGE CLAMP®               |
| Number of connection types | 4                     | Number of connection points                                | 2                                 |
| PE function                | Screw-type PE contact | 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                                                | 3                                 |
|                            |                       | Wiring direction                                           | Side-entry wiring                 |



| Connection 2                                        |                                   |
|-----------------------------------------------------|-----------------------------------|
| Connection type 2                                   | Internal 2                        |
| Connection technology 2                             | PUSH WIRE®                        |
| Number of connection points 2                       | 1                                 |
| Actuation type 2                                    | 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 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                   |  | 30 mm / 1.181 inches    |
| Height                  |  | 21.53 mm / 0.848 inches |
| Height from the surface |  | 17 mm / 0.669 inches    |
| Depth                   |  | 27.3 mm / 1.075 inches  |

| Mechanical data |              |
|-----------------|--------------|
| Marking         | N- -L        |
| Mounting type   | Snap-in foot |

| Material data               |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | white                                                                                                                  |
| Material group              | IIa                                                                                                                    |
| Insulation material         | Polycarbonate (PC)                                                                                                     |
| Flammability class per UL94 | V0                                                                                                                     |
| Clamping spring material    | Chrome-nickel spring steel (CrNi)                                                                                      |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                                                                                 |
| Contact plating             | Tin                                                                                                                    |
| Fire load                   | 0.183 MJ                                                                                                               |
| Halogen-free                | Yes                                                                                                                    |
| Weight                      | 9.7 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                                                                                                                                     |
| PU (SPU)                                  | 500 pcs                                                                                                                                      |
| Packaging type                            | Bag                                                                                                                                          |
| Country of origin                         | PL                                                                                                                                           |
| GTIN                                      | 4050821020806                                                                                                                                |
| Customs tariff number                     | 85369010000                                                                                                                                  |
|                                           |                                                                                                                                              |
| Environmental Product Compliance          |                                                                                                                                              |
| CAS-No.                                   | 131651-65-5<br>144317-44-2<br>220133-51-7<br>220689-12-3<br>25628-08-4<br>29420-49-3<br>375-73-5<br>503155-89-3<br>507453-86-3<br>68259-10-9 |
| REACH Candidate List Substance            | Perfluorobutane sulfonic acid (PFBS) and its salts                                                                                           |
| RoHS Compliance Status                    | Compliant,With Exemption                                                                                                                     |
| RoHS Exemption                            | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II                                                                                                            |
| SCIP notification number (Austria)        | f05376db-10ff-40e1-a6cd-75f67b014b25                                                                                                         |
| SCIP notification number (Belgium)        | d2a9d00c-f873-4989-a37c-0302ebec3048                                                                                                         |
| SCIP notification number (Bulgaria)       | 9c99ab35-59b5-4f12-bdad-39d89db47dbf                                                                                                         |
| SCIP notification number (Czech Republic) | 063325ac-93c1-4f92-b154-3ab64eaba91a                                                                                                         |
| SCIP notification number (Denmark)        | f0880a50-9801-461c-b412-76d231b3ab2d                                                                                                         |
| SCIP notification number (Finland)        | 2e2d72d8-48f6-4128-8ea5-8c6c9f80ecd5                                                                                                         |
| SCIP notification number (France)         | 2962d921-90da-45dc-8252-c8cfce09d2bc                                                                                                         |
| SCIP notification number (Germany)        | 110fef0c-78e8-44e4-bbff-0d282bdce3b3                                                                                                         |
| SCIP notification number (Hungary)        | 0dc0c454-8231-4c35-820d-894a94d1fa3a                                                                                                         |
| SCIP notification number (Italy)          | d983fd45-cfda-4f01-9f00-503c12d15d7b                                                                                                         |
| SCIP notification number (Netherlands)    | ab1ac0f7-14a5-4fab-a4b7-aba81ebb2084                                                                                                         |
| SCIP notification number (Poland)         | 78334854-85ee-4e04-a6c7-a38ea8a35975                                                                                                         |
| SCIP notification number (Romania)        | ae74c2d0-5bab-4d84-ad8a-2569c9271c55                                                                                                         |
| SCIP notification number (Sweden)         | 478d45c1-4700-4f22-b3d8-1afa3bd7a1ed                                                                                                         |



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 Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

Downloads

Environmental Product Compliance

| Compliance Search                            |
|----------------------------------------------|
| Environmental Product<br>Compliance 294-5413 |



Documentation

| Additional Information |
|------------------------|
| Technical Section      |
| pdf<br>2240.62 KB      |



| Bid Text        |
|-----------------|
| 294-5413        |
| 19.02.2019      |
| xml<br>5.58 KB  |
| 294-5413        |
| 13.06.2017      |
| doc<br>28.00 KB |



CAD/CAE-Data

| CAD data                 |
|--------------------------|
| 2D/3D Models<br>294-5413 |



| CAE data                   |
|----------------------------|
| WSCAD Universe<br>294-5413 |
| ZUKEN Portal<br>294-5413   |



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

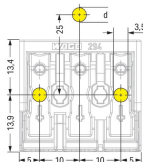
1.1.2.2 Operating tool



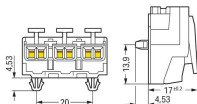
**Item No.: 206-294**  
Disconnection tool; green

Installation Notes

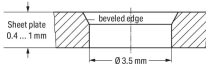
Installation



3-pole – with screw-type ground contact,  $d \leq 4.1 \text{ mm}$

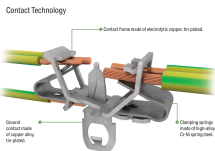


Snap-in foot



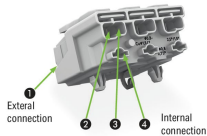
Drilled hole for snap-in mounting foot

Conductor termination



| EUROPE                               |
|--------------------------------------|
| 1 x 0.5 ... 2.5 mm <sup>2</sup> "s"  |
| 1 x 0.5 ... 1.5 mm <sup>2</sup> "s"  |
| 1 x 0.5 ... 0.75 mm <sup>2</sup> "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"                 |

| EUROPE                                          |
|-------------------------------------------------|
| 2 x 0.5 ... 2.5 mm <sup>2</sup> "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 mm <sup>2</sup> "str, f-str"      |

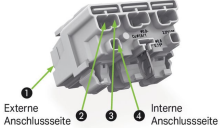


**Internal connection:**  
PUSH WIRE® for internal wiring with solid conductors



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

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



External connection

