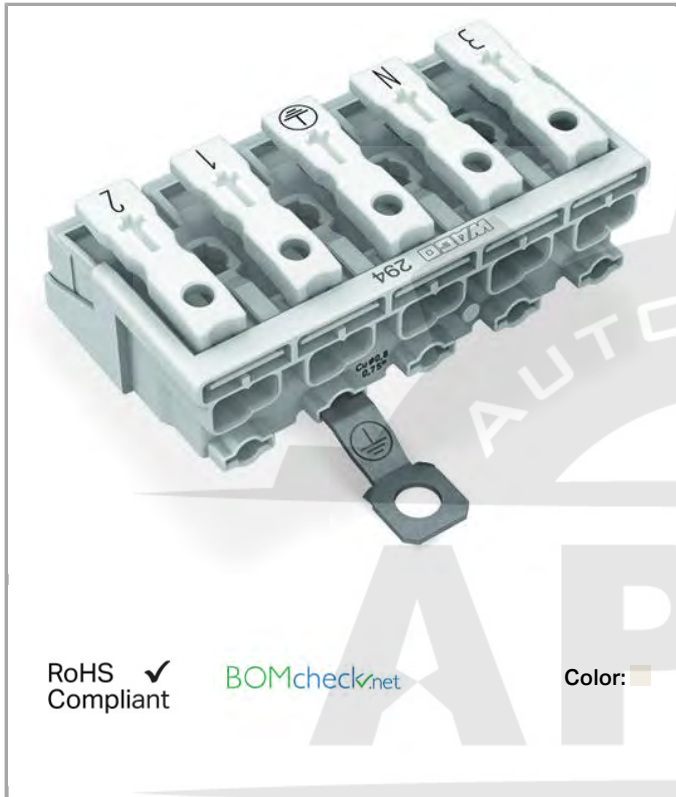


## Data sheet | Item number: 294-4455

Lighting connector; push-button, external; with screw-type ground contact;  
5-pole; Lighting side: for all conductor types; Inst. side: for solid conductors;  
max. 2.5 mm<sup>2</sup>; Ambient temperature: max. 85 °C (T85)



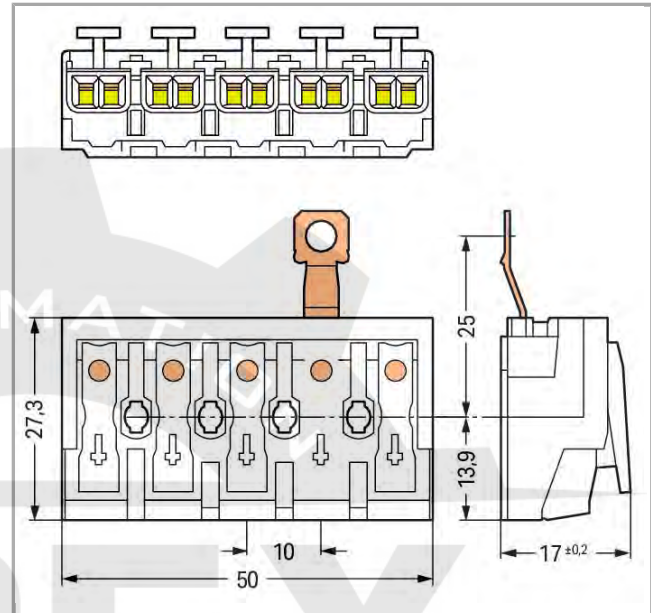
294-4455



RoHS  
Compliant

BOMcheck.net

Color:  



### Item description

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

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

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



|                                  |                   |
|----------------------------------|-------------------|
| Ratings note 2                   | Connection points |
| Rated voltage (II / 2) 2         | 500 V             |
| Rated impulse voltage (II / 2) 2 | 4 kV              |
| Rated current (2)                | 24 A              |
| Rated current (3)                | 16 A              |

## Connection data

|                                                             |                                                     |
|-------------------------------------------------------------|-----------------------------------------------------|
| Connection type (1)                                         | External 1                                          |
| Connection technology                                       | Push-in CAGE CLAMP®                                 |
| Number of connection points (connection type)               | 2                                                   |
| Actuation type                                              | Operating tool<br>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 ferrule with plastic collar    | 0.5 ... 1.5 mm² / 18 ... 16 AWG                     |
| Fine-stranded conductor with ferrule without plastic collar | 0.5 ... 1.5 mm² / 18 ... 16 AWG                     |
| Strip length                                                | 8 ... 9 mm / 0.31 ... 0.35 inch                     |
| Connection type (2)                                         | Internal 2                                          |
| Connection technology 2                                     | PUSH WIRE®                                          |
| Number of connection points                                 | 1                                                   |
| 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 inch                     |
| Connection type (3)                                         | Internal 3                                          |
| Number of connection points                                 | 1                                                   |
| 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 0.5 ... 0.75 mm² / 18 AWG |
| Fine-stranded conductor with uninsulated ferrule (3)        | 0.5 ... 1 mm² / 18 AWG                              |
| Connection type (4)                                         | Internal 4                                          |
| Number of connection points                                 | 1                                                   |
| Solid conductor (4)                                         | 0.5 ... 0.75 mm² / 18 AWG                           |
| No. of poles                                                | 5                                                   |
| Total number of connection points                           | 25                                                  |
| Total number of potentials                                  | 5                                                   |
| Number of connection types                                  | 4                                                   |
| Type of wiring                                              | Side-entry wiring                                   |
| Ground function                                             | with screw-type GND contact                         |

## Geometrical Data

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

## Mechanical data

|         |            |
|---------|------------|
| Marking | 3-N-PE-1-2 |
|---------|------------|

## Material Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | white                                  |
| Material group              | III a                                  |
| Insulating 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-plated                             |
| Fire load                   | 0.301 MJ                               |
| Weight                      | 15.77 g                                |

## Environmental Requirements

|                       |        |
|-----------------------|--------|
| Temperature stability | 120 °C |
|-----------------------|--------|

## Commercial data

|                    |                                |
|--------------------|--------------------------------|
| Product Group      | 8 (Misc. Chassis Mount Blocks) |
| Country of origin  | PL                             |
| GTIN               | 4050821098126                  |
| Customs Tariff No. | 85369010000                    |

## Approvals / Certificates

### Country specific Approvals

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

## Compatible products

### tools

|                                                                                  |                                                                                                                                                                              |         |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|  | <b>Item no.: 206-294</b><br>Disconnection tool; suitable for removing conductors from PUSH WIRE® contacts                                                                    | 206-294 |
|  | <b>Item no.: 294-199</b><br>Operating tool; for pressing the snap-in mounting feet into the mounting plate; For safe and easy fitting of the ground contacts; for 294 Series | 294-199 |

### Strain relief plate

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

## Downloads

### Documentation

#### Bid Text

|          |                |          |
|----------|----------------|----------|
| 294-4455 | doc<br>29.2 kB | Download |
|----------|----------------|----------|

### CAD/CAE - Smart Data

#### CAD data

|                      |     |          |
|----------------------|-----|----------|
| 3D Download 294-4455 | URL | Download |
|----------------------|-----|----------|

Subject to changes.