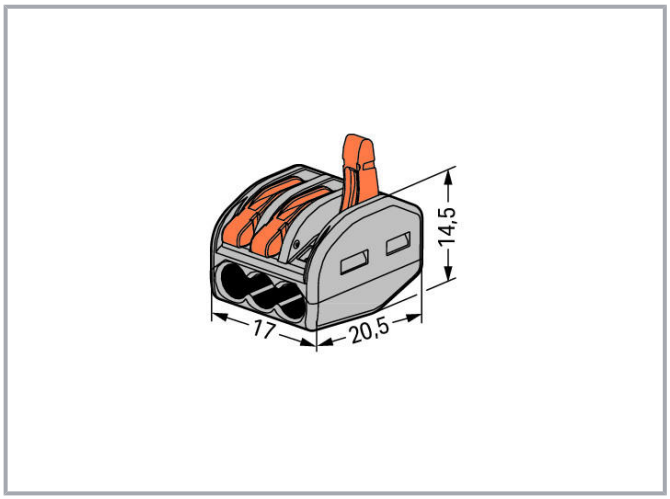
# Data sheet | Item number: 222-413

CLASSIC Splicing Connector; for all conductor types; max. 4 mm²; 3-conductor; with levers; gray housing; Surrounding air temperature: max 40° C; 2,50 mm²; gray

www.wago.com/222-413




## Item description

**Safety information 1:**
in grounded power lines

## Data

## Electrical data

### Ratings per IEC/EN

| | |
|---|---|
| Ratings per | EN 60664 |
| Nominal voltage (II/2) | 400 V |
| Rated surge voltage (II/2) | 4 kV |
| Rated current | 32 A |
| Legend (ratings) | (II / 2) ≙ Overvoltage category II / Pollution degree 2 |

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

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## Connection data

| | |
|---|---|
| Connection technology | CAGE CLAMP® |
| Actuation type | Lever |
| Connectable conductor materials | Copper |
| Solid conductor | 0.08 … 2.5 mm² / 28 … 12 AWG |
| Stranded conductor | 0.08 … 2.5 mm² / 28 … 12 AWG |
| Fine-stranded conductor | 0.08 … 4 mm² / 28 … 12 AWG |
| Strip length | 9 … 10 mm / 0.35 … 0.39 inch |
| Total number of connection points | 3 |
| Total number of potentials | 1 |
| Wiring type | Side-entry wiring |

## Physical data

| | |
|---|---|
| Width | 17 mm / 0.669 inch |
| Height | 14.5 mm / 0.571 inch |
| Depth | 20.5 mm / 0.807 inch |

## Material data

| | |
|---|---|
| Color | gray |
| Flammability class per UL94 | V0 |
| Fire load | 0.088 MJ |
| Color of actuator | orange |
| Weight | 4.3 g |

## Environmental requirements

| | |
|---|---|
| Surrounding air temperature (operation) | 40 °C |
| Continuous operating temperature | 85 °C |

## Commercial data

| | |
|---|---|
| Product Group | 7 (Push Wire Conn.) |
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4017332955676 |
| Customs tariff number | 85369010000 |

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## Approvals / Certificates

### Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **ENEC 15**<br>UL International Demko A/S | EN 60998 | ENEC-01360 |

### Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **ABS**<br>American Bureau of Shipping | - | 18-HG1755093-PDA |
| | **DNV GL**<br>Det Norske Veritas, Germanischer Lloyd | EN 60998 | TAE000015T |
| | **LR**<br>Lloyds Register | EN 60998 | 04/20013 (E8) |

### UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **UL**<br>UL International Germany GmbH | UL 486C | E69654 |
| | **UL**<br>Underwriters Laboratories Inc. | UL 467 | E201573 |

## Compatible products

### Mounting adapter

| | | |
|---|---|---|
| | **Item no.: 222-500**<br>Mounting carrier; 222 Series; for DIN-35 rail mounting/screw mounting; orange | www.wago.com/222-500 |

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

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## Downloads

### Documentation

#### Bid Text

| | | | |
|---|---|---|---|
| 222-413<br>X81 - Datei | Feb 19, 2019 | xml<br>3.5 kB | Download |
| 222-413<br>docx - Datei | Jan 23, 2019 | docx<br>15.8 kB | Download |

#### Additional Information

| | | | |
|---|---|---|---|
| Technical explanations | Apr 3, 2019 | pdf<br>2.2 MB | Download |

## CAD/CAE-Data

#### CAD data

| | | |
|---|---|---|
| 2D/3D Models 222-413 | URL | Download |

#### CAE data

| | | |
|---|---|---|
| EPLAN Data Portal 222-413 | URL | Download |
| WSCAD Universe 222-413 | URL | Download |
| ZUKEN Portal 222-413 | URL | Download |

## Environmental Product Compliance

#### Compliance Search

| | | |
|---|---|---|
| Environmental Product Compliance 222-413<br>CLASSIC Splicing Connector; for all conductor types; max. 4 mm²; 3-conductor; with levers; gray housing; Surrounding air temperature: max 40°C; 2,50 mm²; gray | URL | Download |

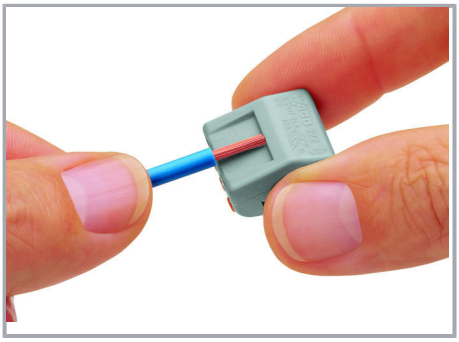
## Installation Notes

#### Conductor termination

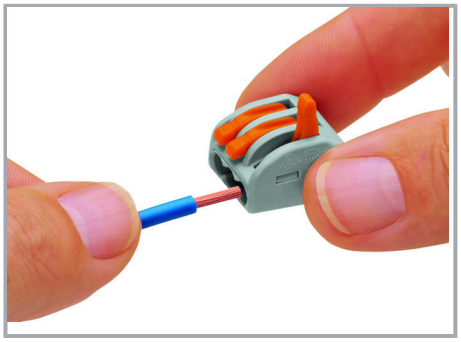
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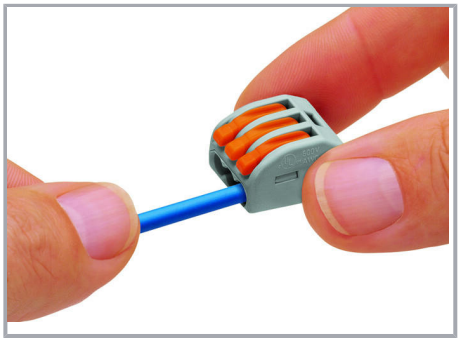
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Strip conductor to 9 … 10 mm (0.35 … 0.39 inch).

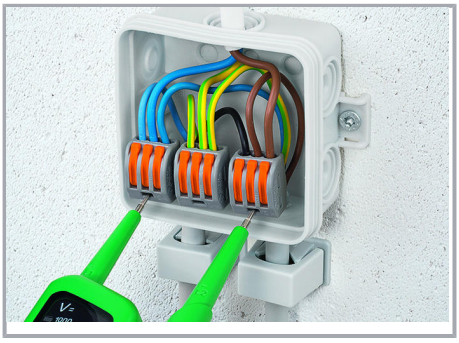


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



Then, lower the lever to close the clamp.

## Testing



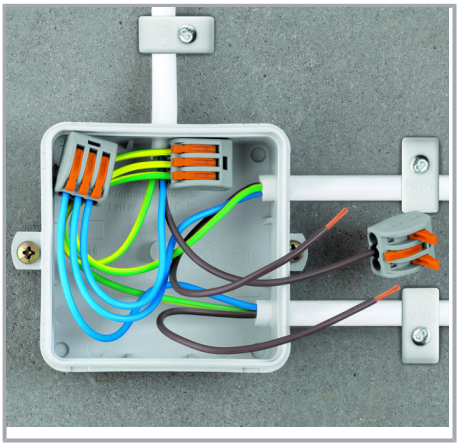
Testing via Profi-LED+ voltage tester (206-806).

## Application



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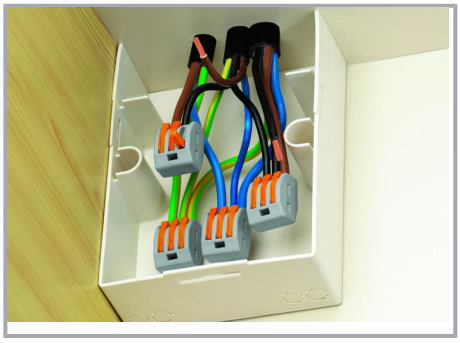
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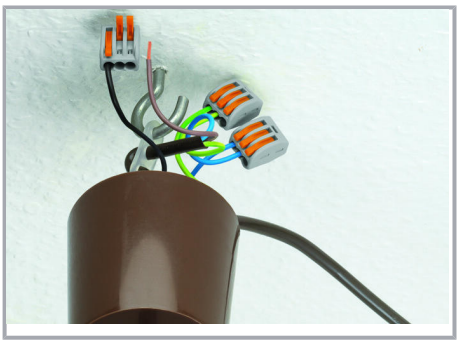
Wiring fine-stranded conductors in junction boxes.



Custom low-voltage lighting system



Connecting pre-wired and pre-fabricated components (e.g., in mobile homes).



Lighting fixture connection with fine-stranded wires and power feed

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**Compact, lever-operated splicing connectors:**

They connect up to five stripped, fine-stranded conductors from 0.08 to 4 mm² (28 … 12 AWG), as well as solid or stranded conductors from up to 2.5 mm² (12 AWG) – without tools!

**How they work:**

Pull up one of the orange operating levers to open the clamping unit so that the lever engages and keeps the clamp in its opened position. Then insert the conductor and push the lever back down, flush with the connector housing.

**Safety:**

The lever's specially designed rest position reliably prevents accidental unclamping of a connected conductor. Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.

ENEC is the European mark for electrical products that demonstrates compliance with European safety standards. The ENEC mark is subjected to the same EN standards as the VDE mark.

While the VDE mark is only permitted in Germany, the ENEC mark is accepted in more than 20 European countries.

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