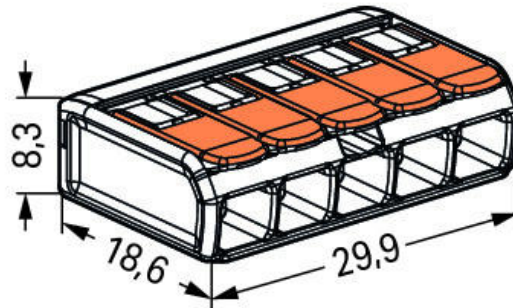


## Data sheet | Item number: 221-415

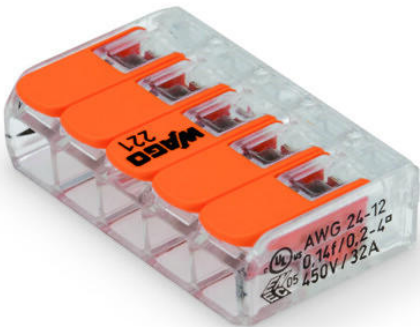
COMPACT Splicing Connector; for all conductor types; max. 4 mm<sup>2</sup>; 5-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm<sup>2</sup>; transparent

[www.wago.com/221-415](http://www.wago.com/221-415)



RoHS   
Compliant

[BOMcheck.net](https://www.bomcheck.net)



### Item description

Your Benefits:

- Ease of use – pull the lever up, insert a conductor and push the lever back down
- Available as 2-, 3- and 5-wire connectors
- Easily terminate conductors from 0.14 to 4 mm<sup>2</sup>
- Connect solid, stranded and fine-stranded conductors
- Time savings for installers and device manufacturers
- Quickly install devices with higher levels of power consumption

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

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at 01788 568 008.



- Safely install long cable runs with larger conductor cross sections
- Mounting carrier for installation conforms to standards
- Custom carriers are possible

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

## Data

### Electrical data

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

|                            |  |
|----------------------------|--|
| Ratings per                | EN 60664   |
| Nominal voltage (II/2)     | 450 V  |
| Rated surge voltage (II/2) | 4 kV   |
| Rated current              | 32 A   |
| Legend (ratings)           | (II / 2) $\triangleq$ Overvoltage category II / Pollution degree 2 |

#### Ratings per UL 1059

|                                |         |
|--------------------------------|---------|
| Approvals per                  | UL 486C |
| Rated voltage UL (Use Group C) | 600 V   |
| Rated current UL (Use Group C) | 20 A    |

### Connection data

|                                   |  |
|-----------------------------------|--|
| Connection technology             | CAGE CLAMP®                                |
| Actuation type                    | Lever                                      |
| Connectable conductor materials   | Copper                                     |
| Nominal cross-section             | 4 mm <sup>2</sup>                          |
| Solid conductor                   | 0.2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG  |
| Stranded conductor                | 0.2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG  |
| Fine-stranded conductor           | 0.14 ... 4 mm <sup>2</sup> / 24 ... 12 AWG |
| Strip length                      | 11 mm / 0.43 inch                          |
| Total number of connection points | 5  |
| Total number of potentials        | 1  |
| Wiring type                       | Side-entry wiring                          |

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

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at 01788 568 008.

## Physical data

|        |                      |
|--------|----------------------|
| Width  | 29.9 mm / 1.177 inch |
| Height | 8.3 mm / 0.327 inch  |
| Depth  | 18.6 mm / 0.732 inch |

## Material Data

|                             |             |
|-----------------------------|-------------|
| Color                       | transparent |
| Flammability class per UL94 | V2          |
| Color of actuator           | orange      |
| Weight                      | 4 g         |

## Environmental Requirements



|   |                |
|---|----------------|
| Surrounding air temperature (operation) | 85 ... 85 °C   |
| Continuous operating temperature        | 105 ... 105 °C |
| Temperature marking per EN 60998        | T85            |

## Commercial data

|                       |                     |
|-----------------------|---------------------|
| Product Group         | 7 (Push Wire Conn.) |
| Packaging type        | BOX                 |
| Country of origin     | DE                  |
| GTIN                  | 4055143234658       |
| Customs tariff number | 85369010000         |


## Approvals / Certificates

### Country specific Approvals



| Logo   | Approval                        | Additional Approval Text | Certificate name |
|--|---------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V. | EN 60998                 | NTR NL-7642      |
|  | CCA<br>DEKRA Certification B.V. | EN 60998                 | 71-101731        |

### Ship Approvals

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

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




#### UL-Approvals

| Logo   | Approval                                    | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|    | <b>UL</b><br>Underwriters Laboratories Inc. | UL 467                   | E201573          |
|  | <b>UL</b><br>Underwriters Laboratories Inc. | UL 486C                  | E69654           |

#### Counterpart

#### Compatible products

#### Jumper

|  |  |  |
|--|--|--|
|  | <b>Item no.: 221-941</b><br>Brücker mit Zuhaltfunktion; dunkelgrau   | <a href="http://www.wago.com/221-941">www.wago.com/221-941</a>                 |
|  | <b>Item no.: 221-941/000-006</b><br>Brücker mit Zuhaltfunktion; blau | <a href="http://www.wago.com/221-941/000-006">www.wago.com/221-941/000-006</a> |
|  | <b>Item no.: 221-942</b><br>Brücker ohne Zuhaltfunktion; dunkelgrau  | <a href="http://www.wago.com/221-942">www.wago.com/221-942</a>                 |

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



**Item no.: 221-942/000-006**  
Brücker ohne Zuhaltfunktion; blau

[www.wago.com/221-942/000-006](http://www.wago.com/221-942/000-006)

### Mounting adapter



**Item no.: 221-500**  
Mounting carrier; 221 Series - 4 mm<sup>2</sup>; for DIN-35 rail mounting/screw mounting; orange

[www.wago.com/221-500](http://www.wago.com/221-500)



**Item no.: 221-500/000-006**  
Mounting carrier; 221 Series - 4 mm<sup>2</sup>; for DIN-35 rail mounting/screw mounting; blue

[www.wago.com/221-500/000-006](http://www.wago.com/221-500/000-006)



**Item no.: 221-500/000-053**  
Mounting carrier; 221 Series - 4 mm<sup>2</sup>; for DIN-35 rail mounting/screw mounting; dark gray-yellow

[www.wago.com/221-500/000-053](http://www.wago.com/221-500/000-053)



**Item no.: 221-505**  
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; for screw mounting; white

[www.wago.com/221-505](http://www.wago.com/221-505)



**Item no.: 221-505/000-004**  
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; for screw mounting; black

[www.wago.com/221-505/000-004](http://www.wago.com/221-505/000-004)



**Item no.: 221-515**  
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; with snap-in mounting foot for horizontal mounting; white

[www.wago.com/221-515](http://www.wago.com/221-515)



**Item no.: 221-515/000-004**  
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; with snap-in mounting foot for horizontal mounting; black

[www.wago.com/221-515/000-004](http://www.wago.com/221-515/000-004)



**Item no.: 221-525**  
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; with snap-in mounting foot for vertical mounting; white

[www.wago.com/221-525](http://www.wago.com/221-525)



**Item no.: 221-525/000-004**  
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; with snap-in mounting foot for vertical mounting; black

[www.wago.com/221-525/000-004](http://www.wago.com/221-525/000-004)

### Downloads

#### Documentation

#### Bid Text

|                         |             |                 |          |
|-------------------------|-------------|-----------------|----------|
| 221-415<br>docx - Datei | 23-Jan-2019 | docx<br>15.7 kB | Download |
|-------------------------|-------------|-----------------|----------|

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| 221-415<br>X81 - Datei | 19-Feb-2019 | xml<br>3.5 kB | Download |
|------------------------|-------------|---------------|----------|

#### Additional Information

|                        |             |     |          |
|------------------------|-------------|-----|----------|
| Technical explanations | 03-Apr-2019 | pdf | Download |
|------------------------|-------------|-----|----------|

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

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at 01788 568 008.

## CAD/CAE-Data

### CAD data

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 221-415 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

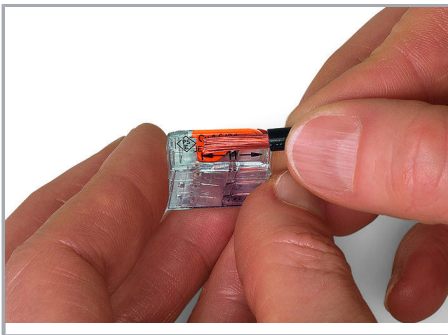
### CAE data

|                           |                     |                          |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 221-415 | <a href="#">URL</a> | <a href="#">Download</a> |
|---------------------------|---------------------|--------------------------|

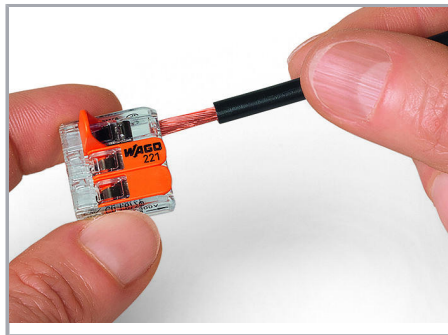
|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 221-415 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

## Installation Notes

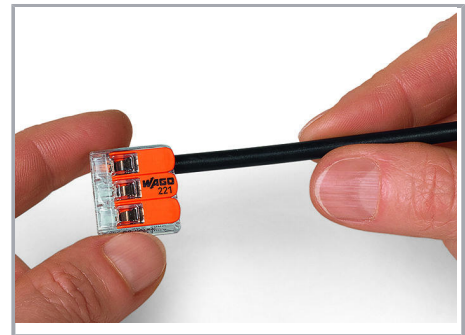
### Conductor termination



Strip conductor to 11 mm (0.43 inch).



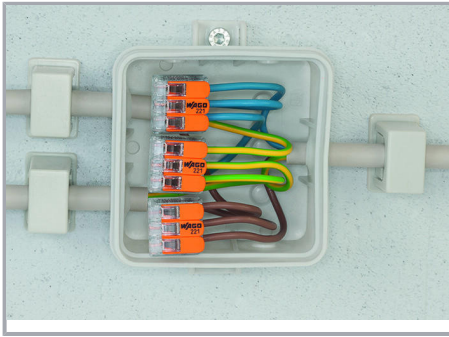
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



Then, lower the lever to close the clamp.

### Application

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



Wiring fine-stranded conductors in a junction box.



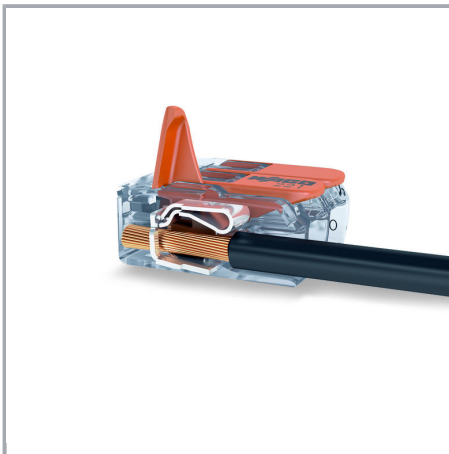
Custom low-voltage lighting system



Lighting distribution in ceiling canopy



Pendant light connection in suspended ceilings



COMPACT Splicing Connectors for All Conductor Types, 4 mm<sup>2</sup> (12 AWG), 221 Series

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



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

Tool-free connection of up to five stripped, fine-stranded conductors from 0.14 ... 4 mm<sup>2</sup>, as well as solid or stranded conductors from 0.2 ... 4 mm<sup>2</sup> (24 ... 12 AWG).

**How these work:**

Pull up one of the orange operating levers to open the clamping unit. Then insert the conductor and push the lever back down, flush with the connector housing.

**Safety:**

The specially designed rest position of the lever 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.

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