

## Gegevensblad | Artikelnummer: 221-415

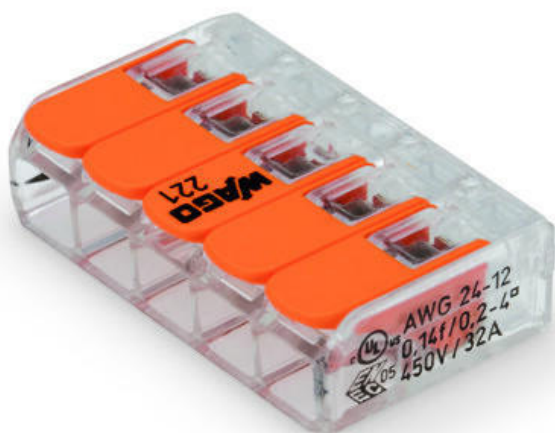
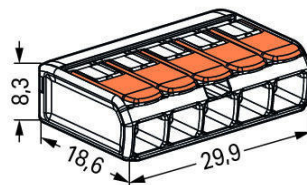
COMPACT Splicing Connector; for all conductor types; max. 4 mm<sup>2</sup>; 5-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm<sup>2</sup>; transparent

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



RoHS Compliant

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



### Artikelbeschrijving

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>

Wijzigingen voorbehouden. Let ook op de verdere productdocumentatie!

WAGO BeLux nv  
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Hebt u vragen over onze producten?  
U kunt ons telefonisch bereiken op het nr. +32 (0) 2 7179090.



- Connect solid, stranded and fine-stranded conductors
- Time savings for installers and device manufacturers
- Quickly install devices with higher levels of power consumption
- 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

## Gegevens

### 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) △ Overvoltage category II / Pollution degree 2 |

#### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| 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 mm²                          |
| Solid conductor                   | 0.2 ... 4 mm² / 24 ... 12 AWG  |
| Stranded conductor                | 0.2 ... 4 mm² / 24 ... 12 AWG  |
| Fine-stranded conductor           | 0.14 ... 4 mm² / 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              |

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## Geometrical 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         |

## Vergunningen / certificaten

### Country specific Approvals

| Logo                                                                               | Vergunning                      | Norm     | Certificaatsnaam |
|------------------------------------------------------------------------------------|---------------------------------|----------|------------------|
|  | CCA<br>DEKRA Certification B.V. | EN 60998 | NTR NL-7642      |
|  | CCA<br>DEKRA Certification B.V. | EN 60998 | 71-101731        |

### Ship Approvals

| Logo | Vergunning | Norm | Certificaatsnaam |
|------|------------|------|------------------|
|      | ABS        | -    | 18-HG1755093-    |

Wijzigingen voorbehouden. Let ook op de verdere productdocumentatie!



American Bureau of Shipping

PDA


**DNV GL**  
 Det Norske Veritas, Germanischer Lloyd

EN 60998

TAE000015T


**LR**  
 Lloyds Register

EN 60998

04/20013 (E8)

## UL-Approvals

| Logo                                                                              | Vergunning                                  | Norm    | Certificaatsnaam |
|-----------------------------------------------------------------------------------|---------------------------------------------|---------|------------------|
|   | <b>UL</b><br>Underwriters Laboratories Inc. | UL 467  | E201573          |
|  | <b>UL</b><br>Underwriters Laboratories Inc. | UL 486C | E69654           |

## Relevante producten

## Mounting adapter

|                                                                                    |                                                                                                                                                        |                                                                                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  | <b>Artikelnummer: 221-500</b><br>Mounting carrier; 221 Series - 4 mm <sup>2</sup> ; for DIN-35 rail mounting/screw mounting; orange                    | <a href="http://www.wago.com/221-500">www.wago.com/221-500</a>                 |
|  | <b>Artikelnummer: 221-500/000-006</b><br>Mounting carrier; 221 Series - 4 mm <sup>2</sup> ; for DIN-35 rail mounting/screw mounting; blue              | <a href="http://www.wago.com/221-500/000-006">www.wago.com/221-500/000-006</a> |
|  | <b>Artikelnummer: 221-500/000-053</b><br>Mounting carrier; 221 Series - 4 mm <sup>2</sup> ; for DIN-35 rail mounting/screw mounting; dark gray-yellow  | <a href="http://www.wago.com/221-500/000-053">www.wago.com/221-500/000-053</a> |
|  | <b>Artikelnummer: 221-505</b><br>Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm <sup>2</sup> ; for screw mounting; white         | <a href="http://www.wago.com/221-505">www.wago.com/221-505</a>                 |
|  | <b>Artikelnummer: 221-505/000-004</b><br>Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm <sup>2</sup> ; for screw mounting; black | <a href="http://www.wago.com/221-505/000-004">www.wago.com/221-505/000-004</a> |
|                                                                                    | <b>Artikelnummer: 221-515</b>                                                                                                                          |                                                                                |

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Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; white [www.wago.com/221-515](http://www.wago.com/221-515)

**Artikelnummer: 221-515/000-004**

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; black [www.wago.com/221-515/000-004](http://www.wago.com/221-515/000-004)

**Artikelnummer: 221-525**

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; white [www.wago.com/221-525](http://www.wago.com/221-525)

**Artikelnummer: 221-525/000-004**

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; 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           | 23-jan-2019 | docx<br>15,7 kB | Download |
| GAEB docx - Datei |             |                 |          |

|                  |             |               |          |
|------------------|-------------|---------------|----------|
| 221-415          | 19-feb-2019 | xml<br>3,5 kB | Download |
| GAEB X81 - Datei |             |               |          |

**Additional Information**

|                        |            |               |          |
|------------------------|------------|---------------|----------|
| Technical explanations | 3-apr-2019 | pdf<br>2,1 MB | Download |
|------------------------|------------|---------------|----------|

**CAD/CAE-Data****CAD data**

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 221-415 | URL | Download |
|----------------------|-----|----------|

**CAE data**

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 221-415 | URL | Download |
|---------------------------|-----|----------|

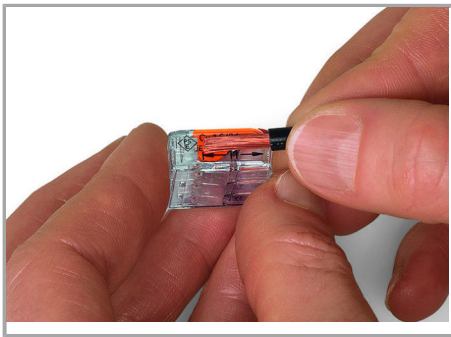
|                      |     |          |
|----------------------|-----|----------|
| ZUKEN Portal 221-415 | URL | Download |
|----------------------|-----|----------|

**Gebruiksaanwijzingen****Conductor termination**

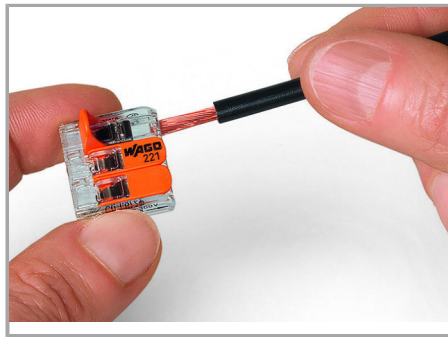
Wijzigingen voorbehouden. Let ook op de verdere productdocumentatie!

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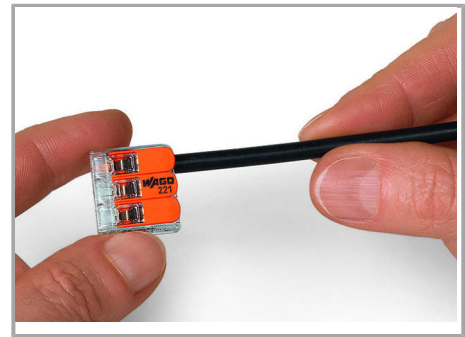
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Strip conductor to 11 mm (0.43 inch).

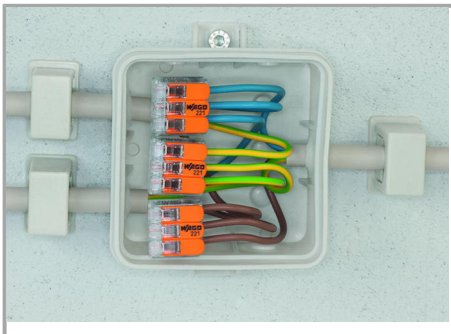


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

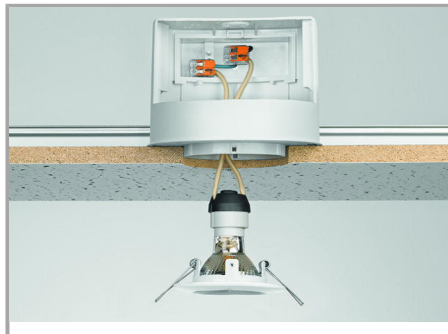


Then, lower the lever to close the clamp.

#### Application



Wiring fine-stranded conductors in a junction box.



Custom low-voltage lighting system

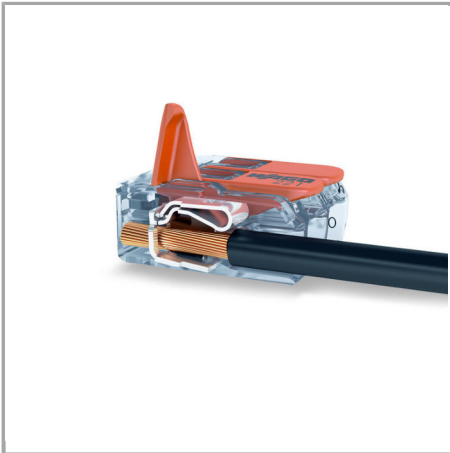


Lighting distribution in ceiling canopy



Pendant light connection in suspended ceilings

Wijzigingen voorbehouden. Let ook op de verdere productdocumentatie!



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

Wijzigingen voorbehouden. Let ook op de verdere productdocumentatie!

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**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.

Wijzigingen voorbehouden. Let ook op de verdere productdocumentatie!