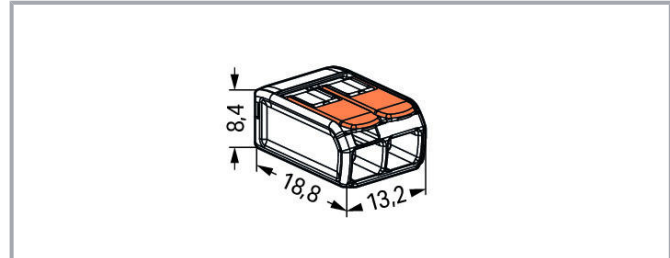


Data sheet | Item number: 221-412

COMPACT Splicing Connector; for all conductor types; max. 4 mm²; 2-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent

www.wago.com/221-412



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 mm²
- Connect solid, stranded and fine-stranded conductors

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

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Email: info.de@wago.com | Web: www.wago.com

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- 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

Data

Electrical data

Ratings per IEC/EN

| | |
|----------------------------|---|
| 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 |

Ratings per UL

| | |
|--------------------------------|---------|
| 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 ² |
| Solid conductor | 0.2 ... 4 mm ² / 24 ... 12 AWG |
| Stranded conductor | 0.2 ... 4 mm ² / 24 ... 12 AWG |
| Fine-stranded conductor | 0.14 ... 4 mm ² / 24 ... 12 AWG |
| Strip length | 11 mm / 0.43 inch |
| Total number of connection points | 2 |
| Total number of potentials | 1 |
| Wiring type | Side-entry wiring |

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

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Physical data

| | |
|--------|----------------------|
| Width | 13.2 mm / 0.52 inch |
| Height | 8.6 mm / 0.327 inch |
| Depth | 18.8 mm / 0.732 inch |

Material data

| | |
|-----------------------------|-------------|
| Color | transparent |
| Flammability class per UL94 | V2 |
| Fire load | 0.033 MJ |
| Color of actuator | orange |
| Weight | 1.7 g |

Environmental requirements



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

Commercial data

| | |
|-----------------------|---------------------|
| Product Group | 7 (Push Wire Conn.) |
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4050821808435 |
| Customs tariff number | 85369010000 |

Approvals / Certificates

Country specific Approvals




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

Ship Approvals



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

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

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|--------------------------|------------------|
|  | UL Underwriters Laboratories Inc. | UL 467 | E201573 |
|  | UL Underwriters Laboratories Inc. | UL 486C | E69654 |

Compatible products

Jumper










| | | |
|--|---|--|
| " | Item no.: 221-941 Jumper; for conductor entry; 2-way; insulated; dark gray | www.wago.com/221-941 |
|  | Item no.: 221-941/000-006 Jumper; for conductor entry; 2-way; insulated; blue | www.wago.com/221-941/000-006 |
| " | Item no.: 221-942 Jumper; for conductor entry; 2-way; insulated; dark gray | www.wago.com/221-942 |
| " | Item no.: 221-942/000-006 Jumper; for conductor entry; 2-way; insulated; blue | www.wago.com/221-942/000-006 |

Mounting adapter

Item no.: 221-500

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



| | | |
|---|---|--|
|  | Mounting carrier; 221 Series - 4 mm ² ; for DIN-35 rail mounting/screw mounting; orange | www.wago.com/221-500 |
|  | Item no.: 221-500/000-006 Mounting carrier; 221 Series - 4 mm ² ; for DIN-35 rail mounting/screw mounting; blue | www.wago.com/221-500/000-006 |
|  | Item no.: 221-500/000-053 Mounting carrier; 221 Series - 4 mm ² ; for DIN-35 rail mounting/screw mounting; dark gray-yellow | www.wago.com/221-500/000-053 |
|  | Item no.: 221-502 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm ² ; for screw mounting; white | www.wago.com/221-502 |
|  | Item no.: 221-502/000-004 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm ² ; for screw mounting; black | www.wago.com/221-502/000-004 |
|  | Item no.: 221-512 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm ² ; with snap-in mounting foot for horizontal mounting; white | www.wago.com/221-512 |
|  | Item no.: 221-512/000-004 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm ² ; with snap-in mounting foot for horizontal mounting; black | www.wago.com/221-512/000-004 |
|  | Item no.: 221-522 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm ² ; with snap-in mounting foot for vertical mounting; white | www.wago.com/221-522 |
|  | Item no.: 221-522/000-004 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm ² ; with snap-in mounting foot for vertical mounting; black | www.wago.com/221-522/000-004 |

Downloads

Documentation

Bid Text

| | | | |
|-------------------------|---------------|-----------------|----------|
| 221-412 docx - Datei | Jan. 23, 2019 | docx 15.6 kB | Download |
|-------------------------|---------------|-----------------|----------|

| | | | |
|------------------------|---------------|---------------|----------|
| 221-412 X81 - Datei | Feb. 19, 2019 | xml 3.5 kB | Download |
|------------------------|---------------|---------------|----------|

Additional Information

| | | | |
|------------------------|--------------|---------------|----------|
| Technical explanations | Apr. 3, 2019 | pdf 2.2 MB | Download |
|------------------------|--------------|---------------|----------|

CAD/CAE-Data

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

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CAD data

| | | |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 221-412 | URL | Download |
|----------------------|---------------------|--------------------------|

CAE data

| | | |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 221-412 | URL | Download |
|---------------------------|---------------------|--------------------------|

| | | |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 221-412 | URL | Download |
|----------------------|---------------------|--------------------------|

Environmental Product Compliance

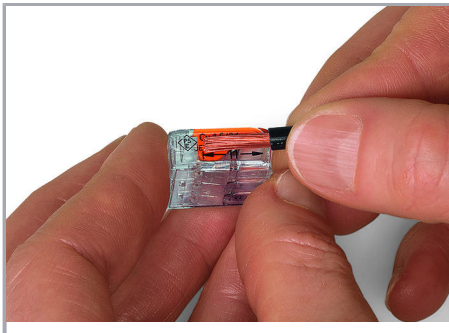
Compliance Search

| | | |
|--|---------------------|--------------------------|
| Environmental Product Compliance 221-412 | URL | Download |
|--|---------------------|--------------------------|

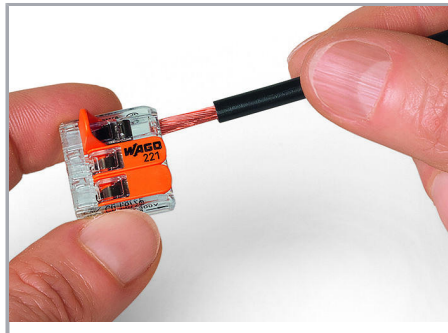
COMPACT Splicing Connector; for all conductor types; max. 4 mm²; 2-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent

Installation Notes

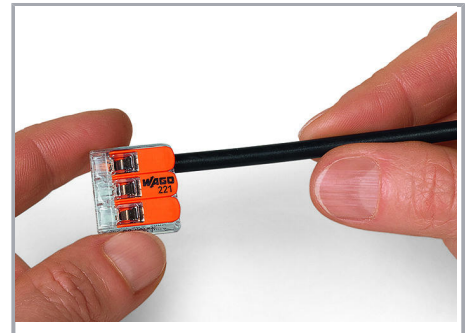
Conductor termination



Strip conductor to 11 mm (0.43 inch).



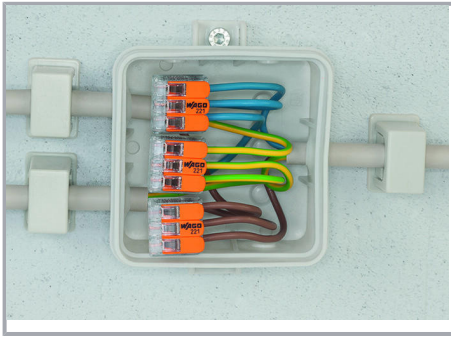
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



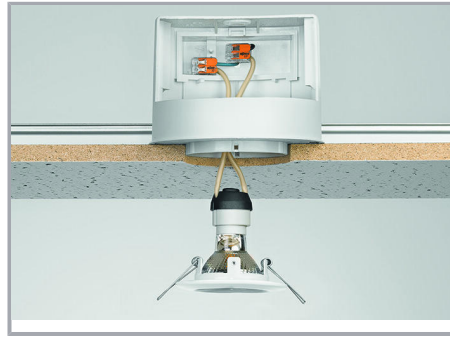
Then, lower the lever to close the clamp.

Application

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



Wiring fine-stranded conductors in junction boxes.



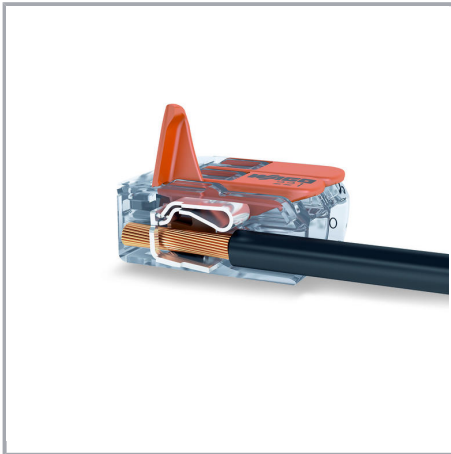
Custom low-voltage lighting system



Lighting distribution in a ceiling canopy



Pendant light connection in a suspended ceiling



COMPACT Splicing Connectors for All Conductor Types (4 mm²), 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 mm², as well as solid or stranded conductors from 0.2 ... 4 mm² (24 ... 12 AWG).

How they work:

Pull up an orange lever to open the clamping unit. 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.

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