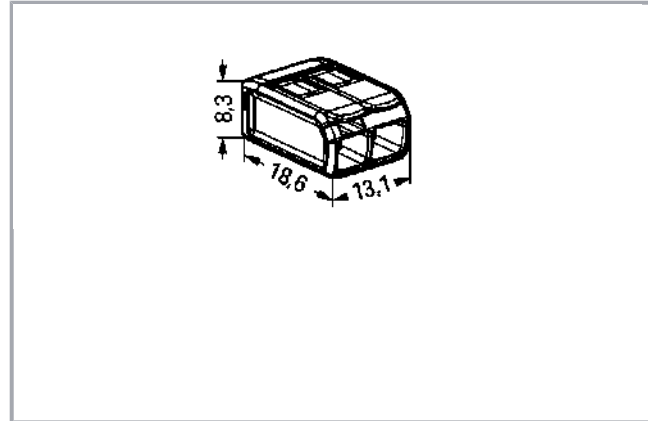


Data sheet | Item number: 221-482

COMPACT Splicing Connector; for all conductor types; for Ex e applications;
max. 4 mm²; 2-conductor; with levers; transparent housing; Operating
temperature (max.): 105 °C; 4,00 mm²; transparent

www.wago.com/221-482



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
- 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
- Working voltages of 275 V or 440 V
- Custom carriers are possible
- ATEX (Ex 2 II G), IECEx (Ex eb IIC Gb) Zone 1, 2
- IECEx (Ex eb IIC Gb), American Ex (AEx eb IICGb) / Class 1, Zone 1

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 | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

**Safety information 1:**

The permissible operating voltage of the connector with carrier (440 V or 275 V) depends on the mounting type.

Safety information 2:

Only approved in conjunction with a mounting carrier (221-501). Other carriers are possible, see certificate/file. The connectors must be installed in an enclosure meeting the requirements of a recognized protection type per EN 60079-0, Section 1 or EN 60079-31. When installing the connectors in an enclosure of protection type "eb" (increased safety) per EN 60079-7, the clearances and creepage distances of Table 2 for this standard must be observed. See point 1 for the use of accessories. The connectors can be used both in Group II and Group I, as the standard requirements are identical in this case.

The use of these components requires a new assessment by a notified certification agency.

Data**Electrical data****Ratings per IEC/EN 60664-1**

| | |
|-------------|----------------|
| Ratings per | IEC/EN 60079-7 |
|-------------|----------------|

Approvals per UL 1059

| | |
|--------------------------------|----------|
| Rated voltage UL (Use Group C) | 440 V |
| Rated current UL (Use Group C) | 20 A |
| Approvals per | UL 60079 |

Approvals Ex

| | |
|----------------------------|--------|
| Rated voltage EN (Ex e II) | 400 V |
| Rated current (Ex e II) | 24.5 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 |
| Type of wiring | Side-entry wiring |

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

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Geometrical Data

| | |
|--------|----------------------|
| Width | 13,1 mm / 0.516 inch |
| Height | 8,3 mm / 0.327 inch |
| Depth | 18,6 mm / 0.732 inch |

Material Data

| | |
|-----------------------------|-------------|
| Color | transparent |
| Flammability class per UL94 | V2 |
| Weight | 1.9 g |

Environmental Requirements




| | |
|----------------------------------|--------|
| Continuous operating temperature | 105 °C |
|----------------------------------|--------|

Commercial data

| | |
|--------------------|---------------|
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4055143837422 |
| Customs Tariff No. | 85369010000 |

Approvals / Certificates

Ex-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|--|
|  | AEx Underwriters Laboratories Inc. | UL 60079 | 20190228-E185892 |
|  | ATEX Physikalisch Technische Bundesanstalt | IEC 60079-0 | PTB 18 ATEX 1019 U |
|  | IECEX Physikalisch Technische Bundesanstalt | IEC 60079-0 | IECEX PTB 18.0045U (Ex eb IIC Gb) |

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|

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



CCA
DEKRA Certification B.V.

EN 60998

NTR NL-
7642



CCA
DEKRA Certification B.V.

EN 60998

71-
101731

Counterpart

Compatible products

Mounting adapter



Item no.: 221-500/000-006
Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; blue

www.wago.com/221-500/000-006



Item no.: 221-501
Mounting carrier; for Ex applications; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; light gray

www.wago.com/221-501

Downloads

Documentation

Bid Text

| | | | |
|------------------------------|--------------|-----------------|----------|
| 221-482 GAEB docx - Datei | May 21, 2019 | docx 16.4 kB | Download |
|------------------------------|--------------|-----------------|----------|

| | | | |
|-----------------------------|--------------|---------------|----------|
| 221-482 GAEB X81 - Datei | May 21, 2019 | xml 4.2 kB | Download |
|-----------------------------|--------------|---------------|----------|

Additional Information

| | | | |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf 2.1 MB | Download |
|------------------------|-------------|---------------|----------|

System Description

| | | | |
|--|--|---------------|----------|
| System Description 221-482, 221-483, 221-485 System Description 221-482, 221-483, 221-485 | | pdf 1.2 MB | Download |
|--|--|---------------|----------|

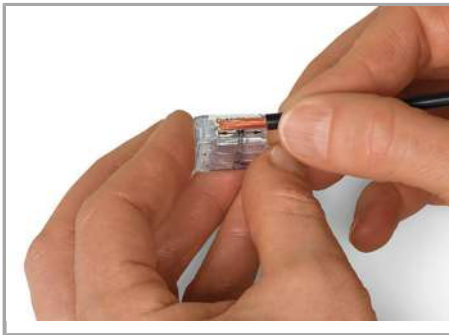
Subject to changes. Please also observe the further product documentation!

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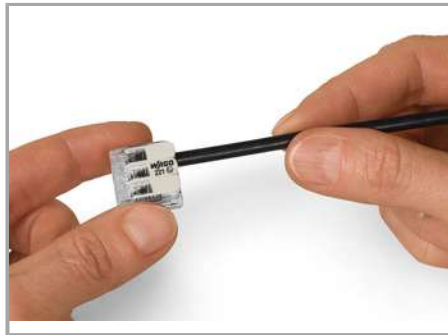
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Installation Notes

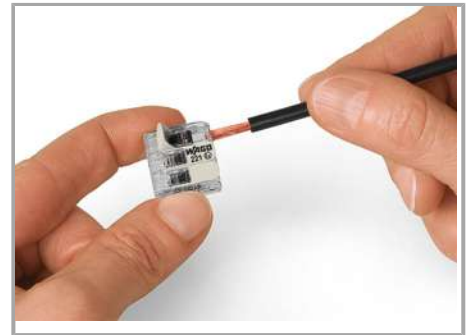
Conductor termination



Strip conductor to 11 mm (0.43 inch).

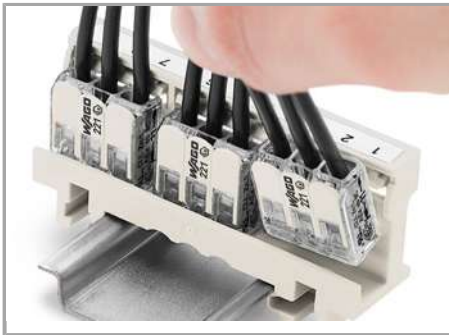


Then, lower the lever to close the clamp.



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

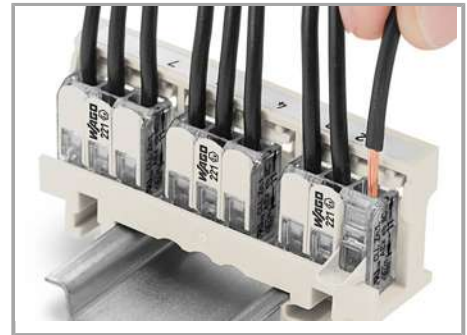
Installation



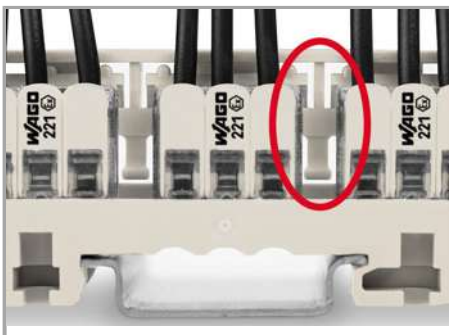
Inserting a connector into the mounting carrier.



Removing a connector from the mounting carrier.



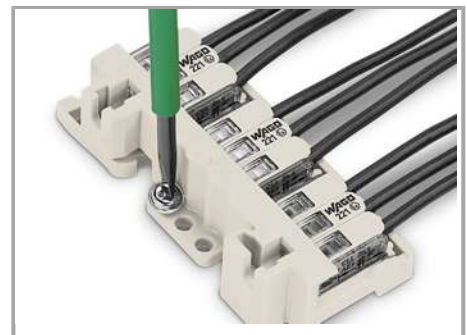
Removing a conductor.



Mounting type (440 V)
Using spacers between the connectors.

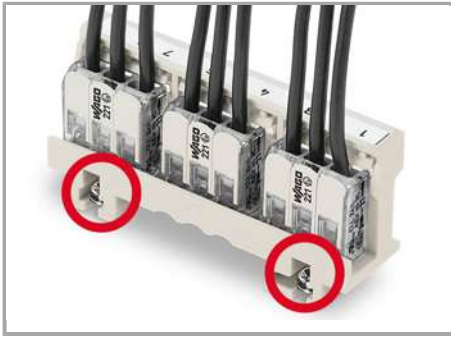


Mounting type (440 V)
Vertical mounting on DIN-35 rail



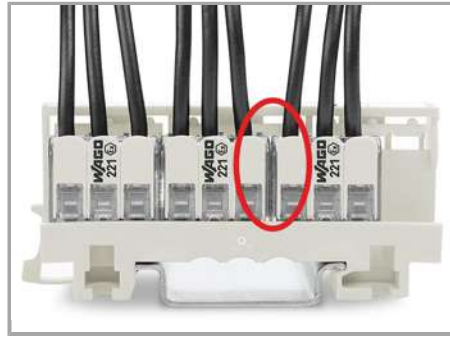
Mounting type (440 V)
Horizontal screw mounting on a flat surface

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



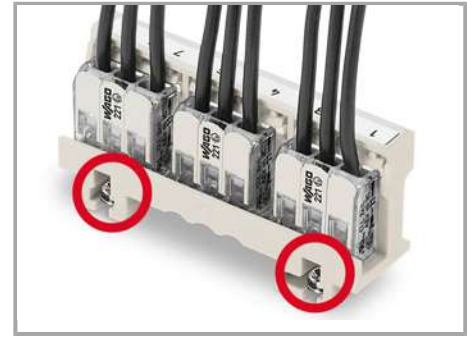
Mounting type (440 V)

Mounting the carrier via non-conductive screws.



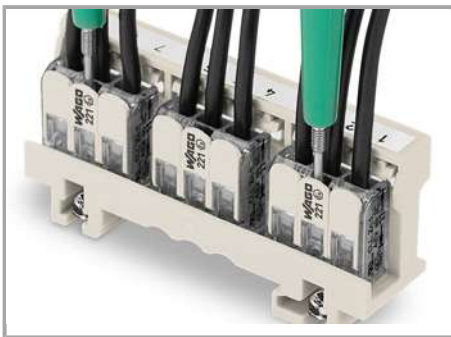
Mounting type (275 V)

No spacers are used between the connectors.



Mounting type (275 V)

Mounting the carrier using conductive screws.



Easily test inserted connectors in the carrier
– without considering the type of mounting.

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