

Data sheet | Item number: 221-683

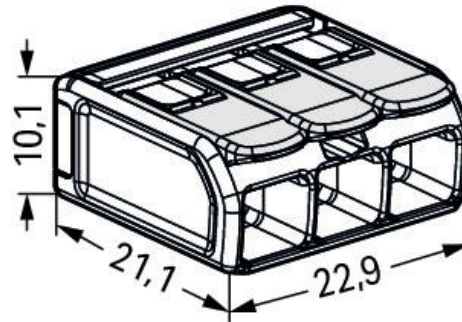
COMPACT Splicing Connector; for all conductor types; for Ex e applications;
max. 6 mm²; 3-conductor; with levers; transparent housing; Operating
temperature (max.): 105 °C; 6,00 mm²; transparent

www.wago.com/221-683



RoHS
Compliant

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 0.5 to 6 mm²
- Connection of all conductor types
- 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

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 (221-511). Other carriers are possible, see certificate/file.

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

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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

| | |
|-------------|----------|
| Ratings per | EN 60664 |
|-------------|----------|

Ratings per UL

| | |
|--------------------------------|----------|
| Approvals per | UL 60079 |
| Rated voltage UL (Use Group C) | 440 V |
| Rated current UL (Use Group C) | 30 A |

Ex information

| | |
|----------------------------|--|
| Ratings per | ATEX: PTB 19 ATEX 1001 U / IECEx: PTB 19.001 1U (Ex eb IIC Gb) |
| Rated voltage EN (Ex e II) | 440 V |
| Rated current (Ex e II) | 37 A |

Connection data

| | |
|-----------------------------------|-----------------------------------|
| Connection technology | CAGE CLAMP® |
| Actuation type | Lever |
| Connectable conductor materials | Copper |
| Nominal cross-section | 6 mm² |
| Solid conductor | 0.5 ... 6 mm² / 20 ... 10 AWG |
| Stranded conductor | 0.5 ... 6 mm² / 20 ... 10 AWG |
| Fine-stranded conductor | 0.5 ... 6 mm² / 20 ... 10 AWG |
| Strip length | 12 ... 14 mm / 0.47 ... 0.55 inch |
| Total number of connection points | 3 |
| Total number of potentials | 1 |
| Wiring type | Side-entry wiring |

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

Physical data

| | |
|--------|----------------------|
| Width | 22.9 mm / 0.902 inch |
| Height | 10.1 mm / 0.398 inch |
| Depth | 21.1 mm / 0.831 inch |

Material data

| | |
|-----------------------------|-------------|
| Color | transparent |
| Flammability class per UL94 | V2 |
| Fire load | 0.08 MJ |
| Color of actuator | light gray |
| Weight | 4.3 g |

Environmental requirements



| | |
|----------------------------------|-----------------|
| Continuous operating temperature | -55 ... +105 °C |
|----------------------------------|-----------------|

Commercial data

| | |
|-----------------------|---------------|
| Packaging type | BOX |
| Country of origin | CH |
| GTIN | 4055143860574 |
| Customs tariff number | 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 19 ATEX 1001 U |
|  | CCCEX CQST/CNEx | CNCA-C23-01 | 2020312313000185 |
| | IECEX | IEC 60079-0 | IECEX PTB 19.001 |


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Country specific Approvals



| Logo | Approval | Additional Approval Text | Certificate name |
|--|---------------------------------------|--------------------------|------------------|
|  | KEMA/KEUR DEKRA Certification B.V. | EN 60998 | 71- 105677 |

Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|-----------------------|--------------------------|------------------|
|  | LR Lloyds Register | EN 60998 | 04/20013 (E8) |

Compatible products

Mounting adapter

| | | |
|--|--|--|
|  | Item no.: 221-510/000-006 Mounting carrier; 221 Series - 6 mm ² ; for DIN-35 rail mounting/screw mounting; blue | www.wago.com/221-510/000-006 |
|  | Item no.: 221-511 Mounting carrier; for Ex applications; 221 Series - 6 mm ² ; for DIN-35 rail mounting/screw mounting; light gray | www.wago.com/221-511 |

Downloads

Documentation

Additional Information

| | | | |
|------------------------|------------|---------------|----------|
| Technical explanations | 3. 4. 2019 | pdf 2.2 MB | Download |
|------------------------|------------|---------------|----------|

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 221-683 | URL | Download |
|----------------------|-----|----------|

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CAE data

ZUKEN Portal 221-683

URL

Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 221-683

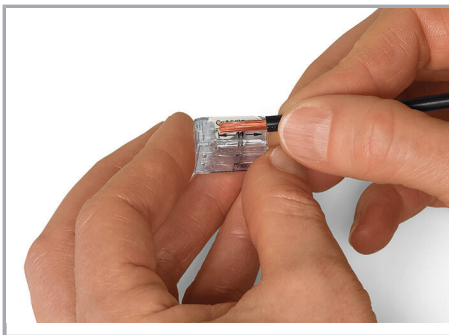
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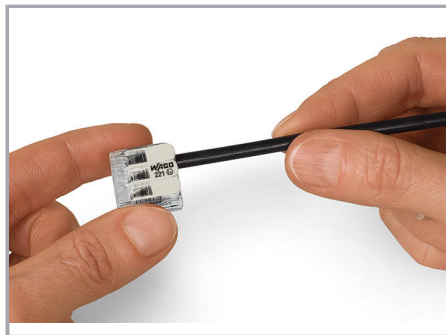
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Installation Notes

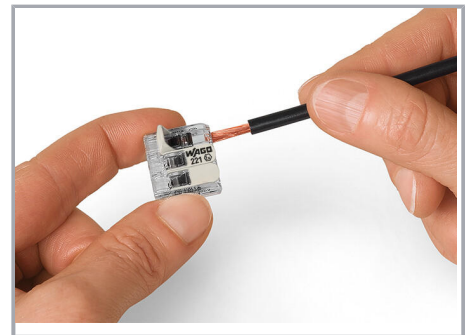
Conductor termination



Strip conductor to 11 mm (0.43 inch).



Then, lower the lever to close the clamp.



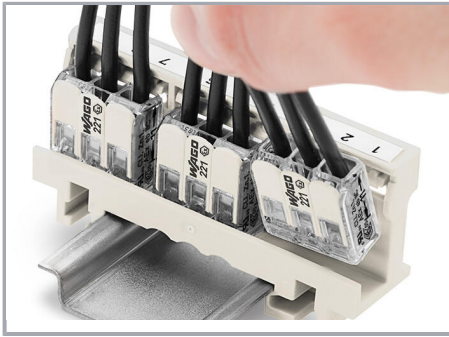
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

Installation

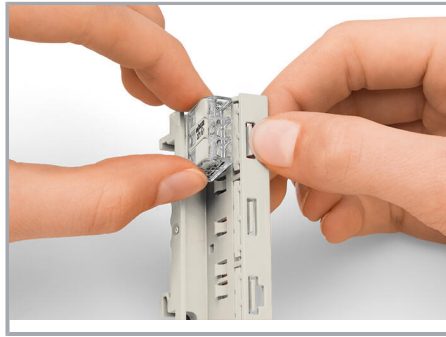
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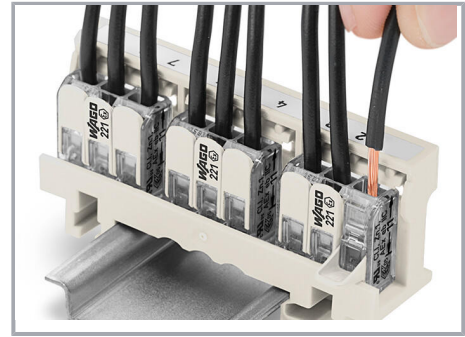
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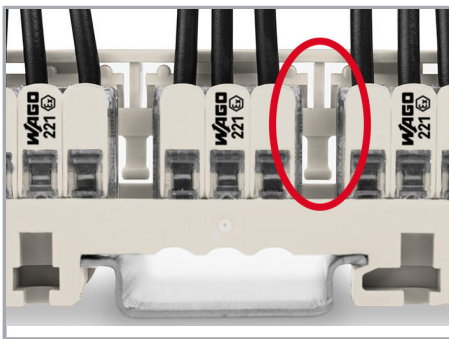
Inserting a connector into the mounting carrier.



Removing a connector from the mounting carrier.



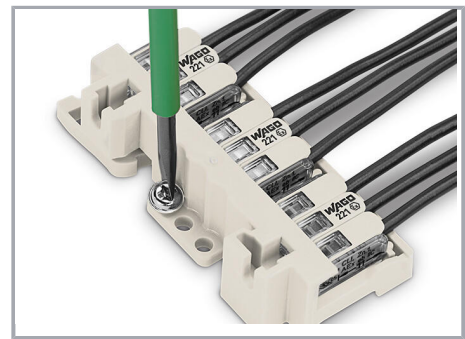
Removing a conductor.



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



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

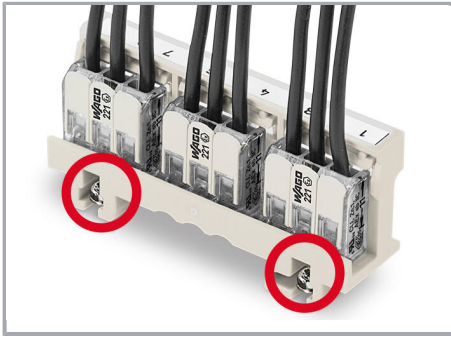


Mounting type (440 V)
Horizontal screw mounting on a flat surface

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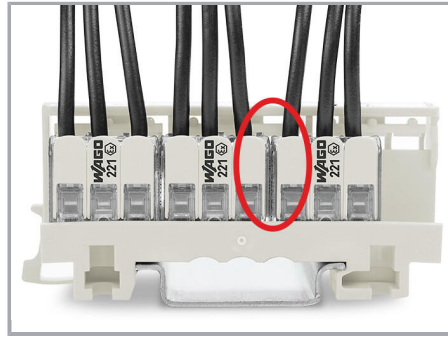
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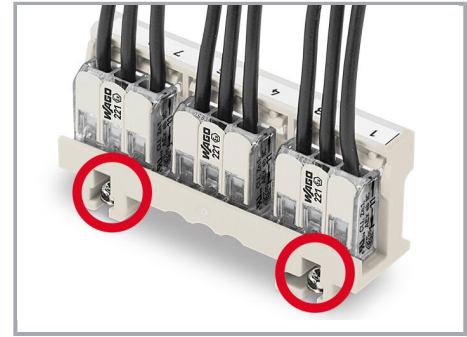
Mounting type (440 V)

Mounting the carrier via non-conductive screws.



Mounting type (275 V)

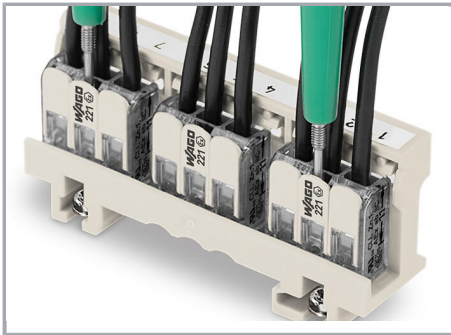
No spacers are used between the connectors.



Mounting type (275 V)

Mounting the carrier using conductive screws.

Testing



Easily test inserted connectors in the carrier
–
however they are mounted.

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