

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



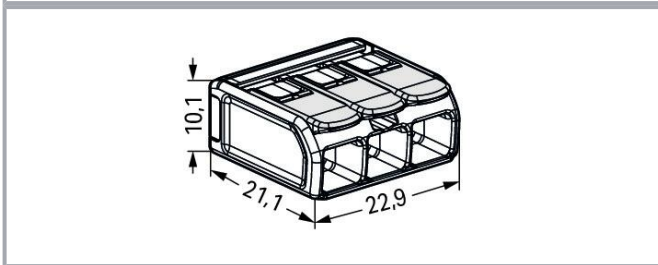
www.wago.com/221-683



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

WAGO 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.



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 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!



Data
Notes

Sicherheitshandhabungshinweis

NOTICE: Observe installation and safety instructions!

- Only to be used by electricians!
- Do not work under voltage/load!
- Use only for proper use!
- Observe national regulations/standards/guidelines!
- Observe technical specifications for the products!
- Observe the number of permissible potentials!
- Do not use damaged/dirty components!
- Observe conductor types, cross-sections and strip lengths!
- Insert conductor until it hits the product's backstop!
- Use original accessories!

To be sold only with installation instructions!

| | |
|----------------------|---|
| Safety information | The permissible operating voltage of the connector with carrier (440 V or 275 V) depends on the mounting type. |
| Safety information 2 | <p>Only approved in conjunction with a mounting carrier (221-511). Other carriers are possible, see certificate/file.</p> <p>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.</p> <p>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.</p> <p>The use of these components requires a new assessment by a notified certification agency.</p> |

Electrical data

Ratings per UL

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

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

WAGO 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.



| | |
|--------------------------------|------|
| 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 points | 3 |
| Total number of potentials | 1 |

Connection 1

| | |
|---------------------------------|---|
| Connection technology | CAGE CLAMP® |
| Actuation type | Lever |
| Connectable conductor materials | Copper |
| Nominal cross-section | 6 mm ² / 10 AWG |
| Solid conductor | 0.5 ... 6 mm ² / 20 ... 10 AWG |
| Stranded conductor | 0.5 ... 6 mm ² / 20 ... 10 AWG |
| Fine-stranded conductor | 0.5 ... 6 mm ² / 20 ... 10 AWG |
| Strip length | 12 ... 14 mm / 0.47 ... 0.55 inches |
| Wiring direction | Side-entry wiring |

Physical data

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

Material data

Note (material data)

Information on material specifications can be found here

| | |
|-----------------------------|--------------------|
| Color | transparent |
| Material group | IIIa |
| Insulation material | Polycarbonate (PC) |
| Flammability class per UL94 | V2 |
| Fire load | 0.097 MJ |

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

WAGO 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.

| | |
|----------------|------------|
| Actuator color | light gray |
| Weight | 4.3 g |

Environmental requirements

| | |
|----------------------------------|-----------------|
| Ambient temperature (storage) | -40 ... +60 °C |
| Continuous operating temperature | -55 ... +105 °C |

Commercial data


| | |
|-----------------------|---------------|
| ETIM 8.0 | EC000446 |
| ETIM 7.0 | EC000446 |
| ECCN | NO DATA |
| PU (SPU) | 300 (30) pcs |
| Packaging type | box |
| Country of origin | CH |
| GTIN | 4055143860574 |
| Customs tariff number | 85369010000 |

Environmental Product Compliance

| | |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
| | CB DEKRA Certification B.V. | IEC 60998 | NL-81003 |
|  | cULus_Listed_667F Underwriters Laboratories Inc. | UL 486C | E69654 |
|  | ENEC 05 DEKRA Certification B.V. | EN 60998 | 71-123784 |

Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---------------------------------------|--------------------------|------------------|
| | ATEX-Attestation of Conformity | - | - |

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



WAGO GmbH & Co. KG

EU-Declaration of Conformity
WAGO GmbH & Co. KG

-

-

UK-Declaration of Conformity
WAGO GmbH & Co. KG

-

-

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|---|-----------------------|--------------------------|------------------|
|  | LR Lloyds Register | EN 60998 | LR22207029TA |

Approvals for hazardous areas

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|--|
|  | AEx Underwriters Laboratories Inc. | UL 60079 | E185892 (AEx eb IIC resp. Ex eb IIC) |
|  | ATEX Physikalisch Technische Bundesanstalt | EN IEC 60079-0 | PTB 19 ATEX 1001 U (II 2 G Ex eb IIC Gb, I M 2 Ex eb I Mb) |
|  | CCC CNEX | GB/T 3836.3 | 2020312313000185 (Ex eb IIC Gb, Ex eb I Mb) |
|  | IECEX Physikalisch Technische Bundesanstalt | IEC 60079-0 | IECEX PTB 19.001 1U (EX eb IIC Gb, Ex eb I Mb) |
|  | INMETRO TÜV Rheinland do Brasil Ltda. | IEC 60079 | TÜV 19.1781 U |

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

WAGO 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.

Optional accessories

Mounting adapter

Mounting accessories



Item no.: 221-510/000-006

Mounting carrier; 221 Series - 6 mm²; 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 mm²; for DIN-35 rail mounting/screw mounting; light gray

www.wago.com/221-511

Downloads

Documentation

Bid Text

[ausschreiben.de 221-683](http://ausschreiben.de/221-683)

URL

Download

CAD/CAE-Data

CAD data

[2D/3D Models 221-683](#)

URL

Download

CAE data

[ZUKEN Portal 221-683](#)

URL

Download

[EPLAN Data Portal 221-683](#)

URL

Download

Asset Administration Shell

[Asset Administration Shell 221-683](#)

URL

Download

Environmental Product Compliance

Compliance Search

[Environmental Product Compliance 221-683](#)

URL

Download

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

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

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

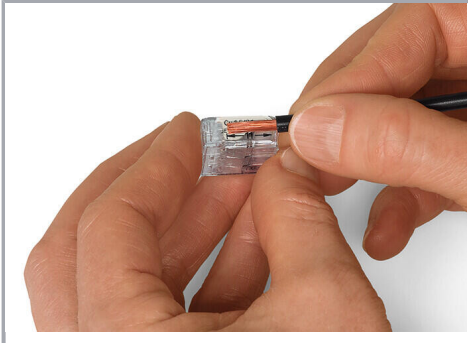
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

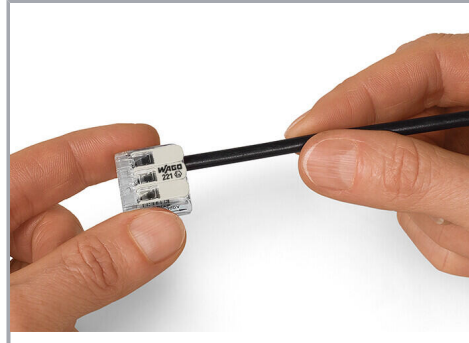
We are always happy to take your call at +49 (571) 887-44222.

Installation Notes

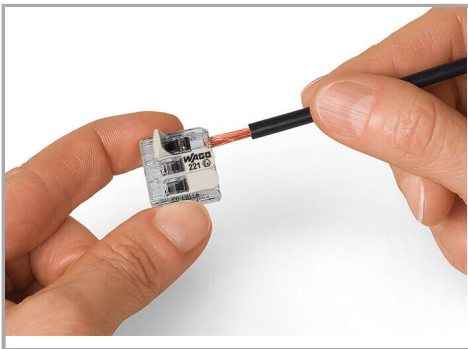
Conductor termination



Strip conductor to 11 mm (0.43 inch).

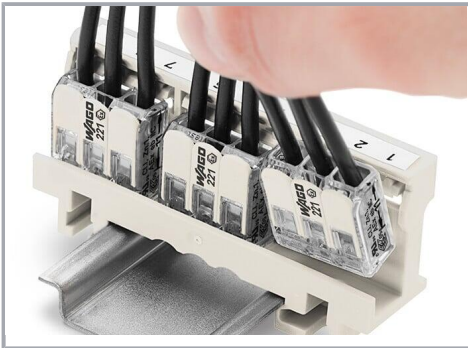


Then, lower the lever to close the clamp.

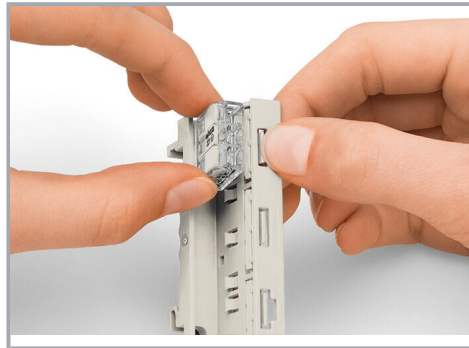


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

Installation

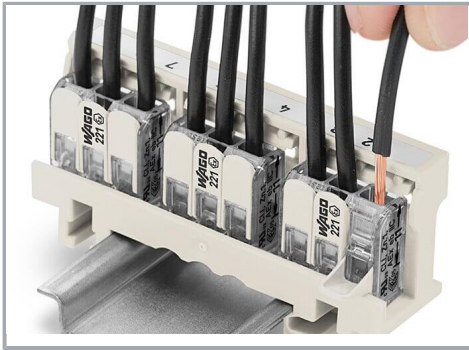


Inserting a connector into the mounting carrier.

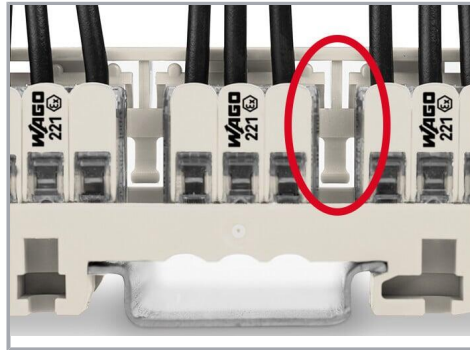


Removing a connector from the mounting carrier.

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



Removing a conductor.



Mounting type (440 V)

Using spacers between the connectors.



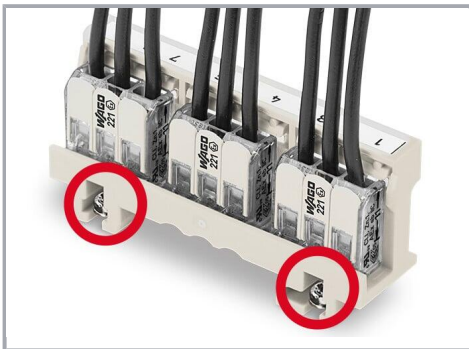
Mounting type (440 V)

Vertical mounting on DIN-35 rail



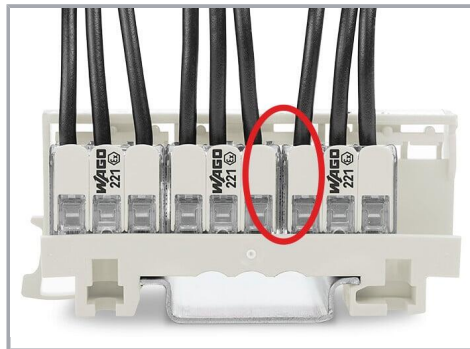
Mounting type (440 V)

Horizontal screw mounting on a flat surface



Mounting type (440 V)

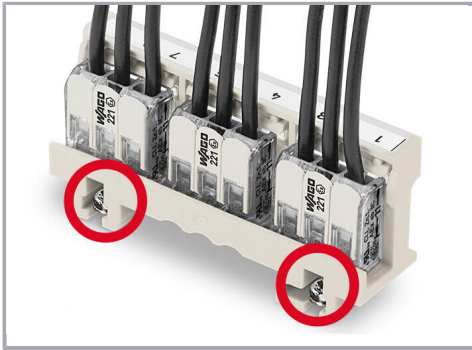
Mounting the carrier via non-conductive screws.



Mounting type (275 V)

No spacers are used between the connectors.

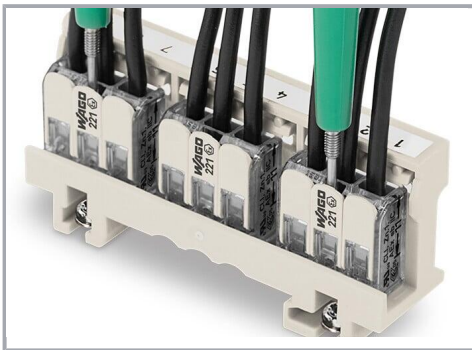
Subject to changes. Please also observe the further product documentation!



Mounting type (275 V)

Mounting the carrier using conductive screws.

Testing



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

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