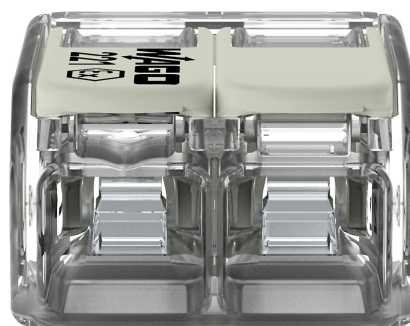
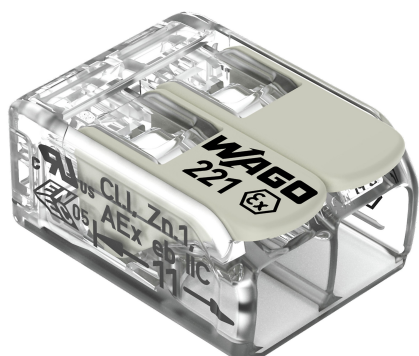


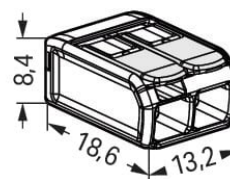
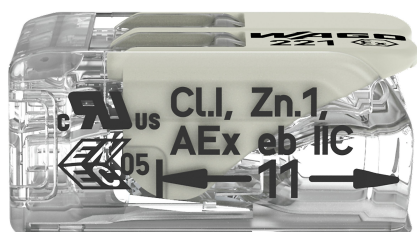
Data Sheet | Item Number: 221-482

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

<https://www.wago.com/221-482>



Color: ☐ transparent



Dimensions in mm



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
- Save time 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

| Notes | |
|-------------------------------|--|
| Sicherheitshandhabungshinweis | Attention: Observe operating instructions, danger to life and limb! <ul style="list-style-type: none">• 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 | 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, GB/T 3836.1 Section 1 or EN 60079-31, GB/T 3836.31. When installing the connectors in an enclosure of protection type "e" (increased safety per EN 60079-7, GB/T 3836.3), 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. |

| Electrical data | | | | Ex information | |
|-----------------|---|----------|---|---|--|
| Approvals per | | UL 60079 | | Ratings per | |
| Use group | B | C | D | ATEX: PTB 18 ATEX 1019 U / IECEx: PTB 18.0045U (Ex eb IIC Gb) | |
| Rated voltage | - | 440 V | - | Rated voltage EN (Ex e II) | |
| Rated current | - | 20 A | - | Rated current (Ex e II) | |
| | | | | 440 V | |
| | | | | 24.5 A | |

| Connection data | | Connection 1 | |
|----------------------------|---|---------------------------------|--------------------------------|
| Connection points | 2 | Connection technology | CAGE CLAMP® |
| Total number of potentials | 1 | Actuation type | Lever |
| | | Connectable conductor materials | Copper |
| | | Nominal cross-section | 4 mm² / 12 AWG |
| | | 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 inches |
| | | Wiring direction | Side-entry wiring |



| Physical data | |
|---------------|------------------------|
| Width | 13.2 mm / 0.52 inches |
| Height | 8.6 mm / 0.327 inches |
| Depth | 18.8 mm / 0.732 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 | 0.047 MJ |
| Actuator color | light gray |
| Weight | 1.7 g |

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

| Commercial data | |
|-----------------------|----------------|
| eCl@ss 10.0 | 27-14-11-04 |
| eCl@ss 9.0 | 27-14-11-04 |
| ETIM 8.0 | EC000446 |
| ETIM 7.0 | EC000446 |
| PU (SPU) | 1000 (100) pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4055143837422 |
| Customs tariff number | 85369010000 |

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

Approvals / Certificates

General approvals

CCA

cULus

LISTED

WIRE CONNECTOR

667F

ENEC

05

| Approval | Standard | Certificate Name |
|---|-------------------|------------------|
| CCA DEKRA Certification B.V. | EN 60998 | NTR NL-7990 |
| cULus_Listed_667F Underwriters Laboratories Inc. | UL 486C | E69654 |
| ENEC 05 DEKRA Certification B.V. | EN 60669,EN 60998 | 71-127529 |

Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|----------|------------------|
| ATEX-Attestation of Con- formity WAGO GmbH & Co. KG | - | - |
| EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |



Approvals for marine applications



| Approval | Standard | Certificate Name |
|-----------------------|----------|------------------|
| LR Lloyds Register | EN 60998 | LR22207029TA |


Approvals for hazardous areas




| Approval | Standard | 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 18 ATEX 1019 U (II 2 G Ex eb IIC Gb, I M 2 Ex eb I Mb) |
| CCC CNEX | GB/T 3836.3 | 2020312313000184 (Ex eb IIC Gb, Ex eb I Mb) |
| EAC Brjansker Zertifizierungsstelle | TP TC 012/2011 | RU C-DE.AM02. B.00127/19 (Ex e IIC Gb U) |
| IECEx Physikalisch Technische Bundesanstalt | IEC 60079-0 | IECEx PTB 18.0045U (Ex eb IIC Gb, Ex eb I Mb) |
| INMETRO TÜV Rheinland do Brasil Ltda. | IEC 60079 | TÜV 19.1781 U |




Downloads

Environmental Product Compliance


| Compliance Search |
|--|
| Environmental Product Compliance 221-482  |



Documentation

| System Description |
|---|
| System Description 221-482, 221-483, 221-485 pdf 1151.51 KB  |

| Bid Text |
|--|
| 221-482 21.05.2019 docx 15.98 KB  |
| 221-482 21.05.2019 xml 4.09 KB  |
| ausschreiben.de 221-482  |

CAD/CAE-Data

| CAD data |
|--|
| 2D/3D Models 221-482  |

| CAE data |
|---|
| EPLAN Data Portal 221-482  |
| ZUKEN Portal 221-482  |

| |
|------------------------------|
| 1 Compatible Products |
| 1.1 Optional Accessories |
| 1.1.1 Mounting adapter |
| 1.1.1.1 Mounting accessories |

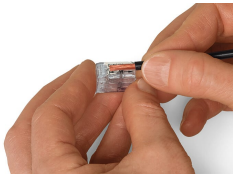


Item No.: 221-500/000-006
Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; blue

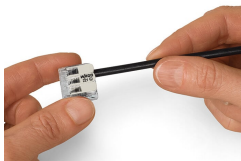
Item No.: 221-501
Mounting carrier; for Ex applications; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; light gray

Installation Notes

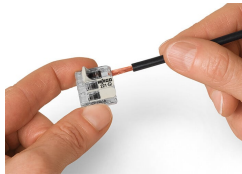
Conductor termination



Strip conductor to 11 mm (0.43 inch).

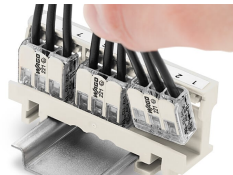


Then, lower the lever to close the clamp.

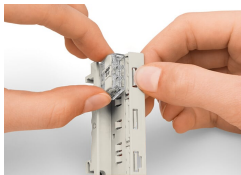


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

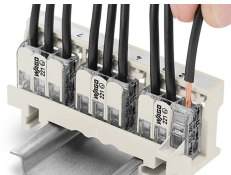
Installation



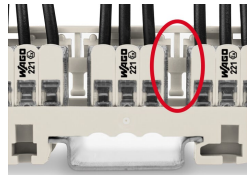
Inserting a connector into the mounting carrier.



Removing a connector from the mounting carrier.



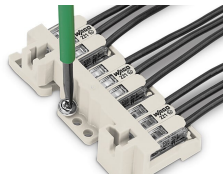
Removing a conductor.



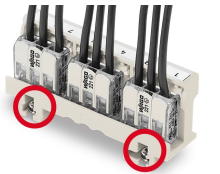
Mounting type (440 V)
Using spacers between the connectors.



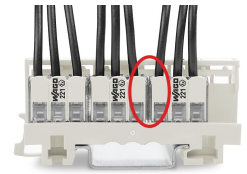
Mounting type (440 V)
Vertical mounting on DIN-35 rail



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



Mounting type (440 V)
Mounting the carrier via non-conductive screws.

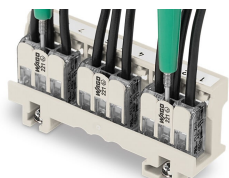


Mounting type (275 V)
No spacers are used between the connectors.



Mounting type (275 V)
Mounting the carrier using conductive screws.

Testing



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