

## Data Sheet | Item Number: 221-425

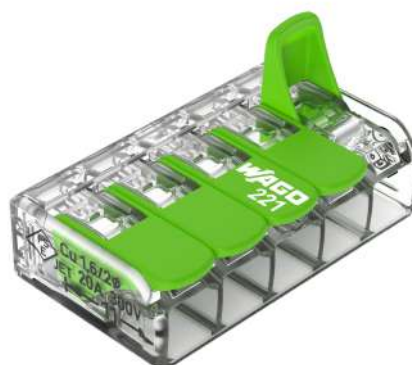
Splicing connector with levers; for all conductor types; max. 4 mm<sup>2</sup>; 5-conductor; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm<sup>2</sup>; transparent

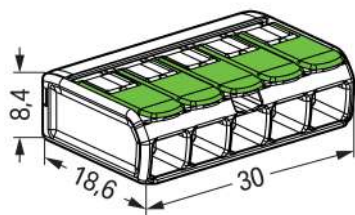


<https://www.wago.com/221-425>



Color: ☐ transparent





Dimensions in mm

**Splicing connector with levers, 221 Series, lever**

Enjoy convenient electrical installations with splicing connector with levers (item number 221-425). From intercom system wiring to electric ovens—connecting various conductor types is quick and easy with WAGO's practical 221 Series splicing connector. Rated current and voltage are important parameters when choosing a splicing connector, as they indicate possible applications and uses. This product has a rated voltage of 450 V and a rated current of 32 A, making it suitable for high-load applications. Strip lengths must be 11 mm when connecting conductors to splicing connector with levers. Featuring conductor terminals along with CAGE CLAMP®, this connector is highly versatile. Our CAGE CLAMP® connection provides a convenient and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The item's dimensions are 30 x 8.4 x 18.6 mm (width x height x depth). Depending on the type of conductor, splicing connector with levers is designed for conductor cross sections ranging from 0.2 mm<sup>2</sup> to 4 mm<sup>2</sup>.

WAGO's 221 Series Splicing Connector with levers impresses with its innovative design for different conductor cross-sections. That's why WAGO's lever-equipped splicing connector holds a unique trademark within electrical interconnection technology. The flat levers, which fit seamlessly into the 221's base, act like a cast when closed and can be positioned neatly in any housing without disturbing edges. Due to the wide design of each lever, they can all be operated perfectly without tools for convenient conductor terminations. The transparent housing displays robust technology and enables immediate visual inspection for the correct contact of solid, stranded and fine-stranded conductors. Resembling piano keys, the levers' design perfectly combines the functional and aesthetic connection technology "Made by WAGO."

In addition to regranulate, the new Green Range Splicing Connector with levers consists of 77% bio-circular PC (housing) and at least 27% recycled PBT (levers). This product is designed for specific Ex applications (please refer to the product datasheet).



| Notes                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General safety instructions | <b>NOTICE: Observe installation and safety instructions!</b> <ul style="list-style-type: none"><li>• <b>Only to be used by electricians!</b></li><li>• Do not work under voltage/load!</li><li>• Use only for proper use!</li><li>• Observe national regulations/standards/guidelines!</li><li>• Observe technical specifications for the products!</li><li>• Observe the number of permissible potentials!</li><li>• Do not use damaged/dirty components!</li><li>• Observe conductor types, cross-sections and strip lengths!</li><li>• Insert conductor until it hits the product's backstop!</li><li>• Use original accessories!</li></ul> <b>To be sold only with installation instructions!</b> |
| Safety Information          | in grounded power lines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Electrical data      |  |          |     |       |
|----------------------|--|----------|-----|-------|
| Ratings per          |  | EN 60664 |     |       |
| Overvoltage category |  | III      | III | II    |
| Pollution degree     |  | 3        | 2   | 2     |
| Nominal voltage      |  | -        | -   | 450 V |
| Rated surge voltage  |  | -        | -   | 4 kV  |
| Rated current        |  | -        | -   | 32 A  |

| Approvals per |  | UL 486C |       |   |
|---------------|--|---------|-------|---|
| Use group     |  | B       | C     | D |
| Rated voltage |  | -       | 600 V | - |
| Rated current |  | -       | 20 A  | - |

| Connection data            |   |  |
|----------------------------|---|--|
| Clamping units             | 5 |  |
| Total number of potentials | 1 |  |

| Connection 1                    |                                |
|---------------------------------|--------------------------------|
| Connection technology           | CAGE CLAMP®                    |
| 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         | 30 mm / 1.181 inches   |
| Height        | 8.4 mm / 0.327 inches  |
| Depth         | 18.6 mm / 0.732 inches |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | transparent                                                              |
| Material group                     | Illa                                                                     |
| Housing material                   | bio-circular PC                                                          |
| Insulation material (main housing) | Polycarbonate (PC)                                                       |
| Insulation material (actuator)     | PBT from post-consumer recycled material                                 |
| Flammability class per UL94        | V2                                                                       |
| Fire load                          | 0.111 MJ                                                                 |
| Actuator color                     | green                                                                    |
| Weight                             | 4.1 g                                                                    |



| Environmental requirements       |  |        |
|----------------------------------|--|--------|
| Ambient temperature (operation)  |  | +85 °C |
| Continuous operating temperature |  | 105 °C |
| Temperature marking per EN 60998 |  | T85    |

| Commercial data       |          |               |
|-----------------------|----------|---------------|
| PU (SPU)              | PU (SPU) | 250 (25) pcs  |
| Packaging type        |          | Box           |
| Country of origin     |          | DE            |
| GTIN                  |          | 4066966345285 |
| Customs tariff number |          | 85369010000   |

| Product classification |  |          |
|------------------------|--|----------|
| UNSPSC                 |  | 39121409 |

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

| Approvals / Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                                                                                                                                                        |          |          |                  |                                                         |          |             |                                                     |         |              |                                     |          |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|---------------------------------------------------------|----------|-------------|-----------------------------------------------------|---------|--------------|-------------------------------------|----------|-----------|
| General approvals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | Declarations of conformity and manufacturer's declarations                                                                                                                             |          |          |                  |                                                         |          |             |                                                     |         |              |                                     |          |           |
| <div><div></div><table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>CCA<br/>DEKRA Certification B.V.</td><td>EN 60998</td><td>NTR NL-7990</td></tr><tr><td>cULus_Listed_667F<br/>Underwriters Laboratories Inc.</td><td>UL 486C</td><td>UL-CA-L69654</td></tr><tr><td>ENEC 05<br/>DEKRA Certification B.V.</td><td>EN 60669</td><td>71-127529</td></tr></table></div> |          |                                                                                                                                                                                        | Approval | Standard | Certificate Name | CCA<br>DEKRA Certification B.V.                         | EN 60998 | NTR NL-7990 | cULus_Listed_667F<br>Underwriters Laboratories Inc. | UL 486C | UL-CA-L69654 | ENEC 05<br>DEKRA Certification B.V. | EN 60669 | 71-127529 |
| Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Standard | Certificate Name                                                                                                                                                                       |          |          |                  |                                                         |          |             |                                                     |         |              |                                     |          |           |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EN 60998 | NTR NL-7990                                                                                                                                                                            |          |          |                  |                                                         |          |             |                                                     |         |              |                                     |          |           |
| cULus_Listed_667F<br>Underwriters Laboratories Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UL 486C  | UL-CA-L69654                                                                                                                                                                           |          |          |                  |                                                         |          |             |                                                     |         |              |                                     |          |           |
| ENEC 05<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EN 60669 | 71-127529                                                                                                                                                                              |          |          |                  |                                                         |          |             |                                                     |         |              |                                     |          |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | <table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor-<br/>mity<br/>WAGO GmbH &amp; Co. KG</td><td>-</td><td>-</td></tr></table> | Approval | Standard | Certificate Name | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -           |                                                     |         |              |                                     |          |           |
| Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Standard | Certificate Name                                                                                                                                                                       |          |          |                  |                                                         |          |             |                                                     |         |              |                                     |          |           |
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -        | -                                                                                                                                                                                      |          |          |                  |                                                         |          |             |                                                     |         |              |                                     |          |           |

| Downloads                                   |                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| Environmental Product Compliance            |                                                                                     |
| Compliance Search                           |                                                                                     |
| Environmental Product<br>Compliance 221-425 |  |



CAD/CAE-Data

CAD data

2D/3D Models 221-425

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1 Compatible Products

1.1 Optional Accessories

1.1.1 General accessories

1.1.1.1 Empty housings



Item No.: 207-4301

Junction box; Branch; for multicore cables; 221 Series; max. 4 mm² connectors; without splicing connectors; white

1.1.1.2 Moisture protection



Item No.: 207-1332

Gelbox; Branch; for cables; with gel; 221, 2x73 Series; max. 4 mm² connectors; without splicing connectors; Size 2; gray

1.1.2 Jumper

1.1.2.1 Jumper



Item No.: 221-941/000-006

Jumper; for conductor entry; 2-way; insulated; blue



Item No.: 221-942/000-006

Jumper; for conductor entry; 2-way; insulated; blue



Item No.: 221-941

Jumper; for conductor entry; 2-way; insulated; dark gray



Item No.: 221-942

Jumper; for conductor entry; 2-way; insulated; dark gray

1.1.3 Mounting adapter

1.1.3.1 Mounting accessories



Item No.: 221-500/000-006

Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; blue



Item No.: 221-500/000-053

Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; dark gray-yellow



Item No.: 221-500

Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; orange



Item No.: 221-505/000-004

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; black



Item No.: 221-505

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; white



Item No.: 221-515/000-004

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; black



Item No.: 221-515

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; white



Item No.: 221-525/000-004

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; black



Item No.: 221-525

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; white

## Installation Notes

### Conductor termination



Strip conductor to 11 mm

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

Then lower the lever to close the clamp

## Testing



Testing via test slots

## Application



Wiring in the distribution box