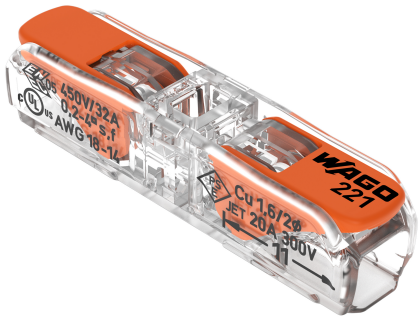
**Data Sheet | Item Number: 221-2411**

Inline splicing connector with levers; for all conductor types; max. 4 mm²; 2-conductor; transparent housing; Transparent cover; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent

https://www.wago.com/221-2411

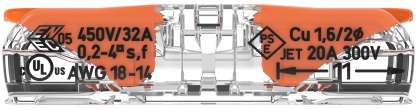


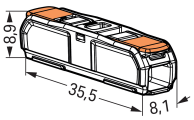




Color: ☐ transparent






Inline splicing connector with levers, 221 Series, CAGE CLAMP®

Effortless electrical installations are guaranteed with inline splicing connector with levers (item number 221-2411). Whether for intercom system wiring or connecting electrical ovens, WAGO's 221 Series splicing connector allows you to quickly and securely connect different conductor types. Its compact design offers an efficient solution that simplifies your work. Conductors should only be connected to inline splicing connector with levers if their strip length is 11 mm . Rated current and voltage are important parameters when choosing a splicing connector, as they determine the product's suitability for different applications. This product has a rated voltage of 450 V and a rated current of 32 A, making it suitable for high-load applications. This product features conductor terminals and utilizes CAGE CLAMP®. Our proven universal connection known as CAGE CLAMP® is industry-leading when it comes to connection technology and electrical interconnections. The dimensions are (8.1 x 8.9 x 35.5) mm (width x height x depth). Depending on the conductor type, inline splicing connector with levers is suitable

for conductor cross sections ranging from 0.2 mm² to 4 mm².

CAGE CLAMP® – the industry standard for connection technology

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 leaver, 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."

- Compact sizes
- Actuation via lever
- Safe and fast installation

## Notes

| | |
|---|---|
| General safety information | **NOTICE: Observe installation and safety instructions!**<br>▪ **Only to be used by electricians!**<br>▪ Do not work under voltage/load!<br>▪ Use only for proper use!<br>▪ Observe national regulations/standards/guidelines!<br>▪ Observe technical specifications for the products!<br>▪ Observe the number of permissible potentials!<br>▪ Do not use damaged/dirty components!<br>▪ Observe conductor types, cross-sections and strip lengths!<br>▪ Insert conductor until it hits the product's backstop!<br>▪ Use original accessories!<br>**To be sold only with installation instructions!** |

## Electrical data

### Ratings per

| | | EN 60664 | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | - | - | 450 V |
| Rated impulse withstand voltage | - | - | 4 kV |
| Rated current | - | - | 32 A |

### Ratings per UL

| | |
|---|---|
| Approvals per | UL 486C |
| Rated voltage (UL) | 600 V |
| Rated current UL | 20 A |

## Connection Data

| | |
|---|---|
| Clamping units | 2 |

### Connection 1

| | |
|---|---|
| Connection technology | CAGE CLAMP® |
| Actuation type | Lever |
| Connectable conductor materials | Copper |
| Nominal cross-section | 4 mm² / 14 AWG |
| Solid conductor | 0.2 … 4 mm² / 20 … 14 AWG |
| Stranded conductor | 0.2 … 2.5 mm² / 18 … 14 AWG |
| Fine-stranded conductor | 0.2 … 4 mm² / 18 … 14 AWG |
| Strip length | 11 mm / 0.43 inches |


Continued on next page

## Physical data

| | |
|---|---|
| Width | 8.1 mm / 0.319 inches |
| Height | 8.9 mm / 0.35 inches |
| Depth | 35.5 mm / 1.398 inches |

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | transparent |
| Cover color | transparent |
| Material group | IIIa |
| Insulation material (main housing) | Polycarbonate (PC) |
| Flammability class per UL94 | V2 |
| Fire load | 0.038 MJ |
| Actuator color | orange |
| Weight of insulation material | 0.84 g |
| Weight | 2.3 g |

## Environmental requirements

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

## Commercial data

| | |
|---|---|
| PU (SPU) | 600 (60) pcs |
| Packaging type | Box |
| Country of origin | CH |
| GTIN | 4066966102666 |
| Customs tariff number | 85369010000 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121409 |
| ETIM 9.0 | EC000446 |
| ETIM 10.0 | EC000446 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

| | |
|---|---|
| Environmental Product Declaration | <a internalname="Link Serie 221" href="https://register.pep-ecopassport.org/pep/consult/mbesqrsCBZbWbKJq6-kJ3qf2-t7VGl8j1bm2U8eAxR0/mbesqrsCBZbWbKJq6-kJ3lQmBuGvAH-sLUfQU9idjOpk">Link</a> |
| RoHS Compliance Status | Compliant,No Exemption |


Continued on next page

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 60998 | NTR NL-8081 |
| cULus_Listed_667F<br>Underwriters Laboratories Inc. | UL 486C | E69654 |
| ENEC 05<br>DEKRA Certification B.V. | EN 60998 | 71-168264 |
| ENEC 05<br>DEKRA Certification B.V. | - | 71-168264 |
| UL<br>Underwriters Laboratories Inc. | UL 467 | UL-US-L201573-112-72406002-6 |

### Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| ABS<br>American Bureau of Shipping | EN 60998 | 23-2417173-PDA |
| LR<br>Lloyds Register | EN 60998 | LR2446364TA |
| PRS<br>Polski Rejestr Statków | EN 60998 | TE/1093/880590/23 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 221-2411

### CAD/CAE-Data

**CAD data**

2D/3D Models 221-2411

**CAE data**

EPLAN Data Portal 221-2411

ZUKEN Portal 221-2411

# 1 Compatible Products

## 1.1 Optional Accessories

### 1.1.1 General accessories

#### 1.1.1.1 Moisture protection



Item No.: 207-1372
Gelbox; inline connection; for cables; with gel; 221 Series; max. 4 mm² connectors; without splicing connectors; Size 1; gray



Item No.: 207-1373
Gelbox; inline connection; for cables; with gel; 221 Series; max. 4 mm² connectors; without splicing connectors; Size 2; gray



Item No.: 207-1375
Gelbox; inline connection; for cables; with gel; 221 Series; max. 4 mm² connectors; without splicing connectors; Size 3; gray

### 1.1.2 Installation

#### 1.1.2.1 Mounting accessories



Item No.: 221-2501
Mounting carrier with strain relief; 1-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2511
Mounting carrier with strain relief; 1-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 221-2502
Mounting carrier with strain relief; 2-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2512
Mounting carrier with strain relief; 2-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 221-2503
Mounting carrier with strain relief; 3-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2513
Mounting carrier with strain relief; 3-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 221-2504
Mounting carrier with strain relief; 4-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2514
Mounting carrier with strain relief; 4-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 221-2505
Mounting carrier with strain relief; 5-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2515
Mounting carrier with strain relief; 5-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 221-2521
Mounting carrier; 1-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2531
Mounting carrier; 1-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 221-2522
Mounting carrier; 2-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2532
Mounting carrier; 2-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 221-2523
Mounting carrier; 3-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2533
Mounting carrier; 3-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 221-2524
Mounting carrier; 4-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2534
Mounting carrier; 4-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 221-2525
Mounting carrier; 5-way; for inline splicing connector with lever; for screw mounting; gray



Item No.: 221-2535
Mounting carrier; 5-way; for inline splicing connector with lever; with snap-in mounting foot; gray



Item No.: 209-123
Mounting foot with screw; can be screwed on terminal blocks with fixing flange; 6.4 mm wide; gray



Item No.: 209-1116
Mounting foot with screw; for DIN-15 rail; can be screwed on terminal blocks with fixing flange; 6.5 mm wide; gray



Item No.: 209-120
Mounting foot; can be snapped on terminal blocks with snap-in mounting foot; for mounting on relay-modules; 6.4 mm wide; gray



Item No.: 209-1115
Mounting foot; for DIN-15 rail; can be snapped on terminal blocks with snap-in mounting foot; 6.5 mm wide; gray


Continued on next page

### 1.1.3 Marking

#### 1.1.3.1 Marking strip



Item No.: 210-834
Marking strips; 25 m on roll; 5 mm wide; plain; Self-adhesive; white

## Installation Notes

### Conductor termination



Push up the lever to open the clamping unit and insert the conductor.

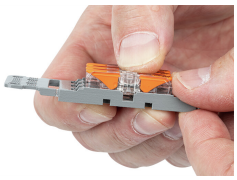


Push the lever back down.

### Installation

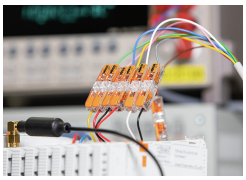


Place the inline splicing connector on the carrier in front of the mounting position.

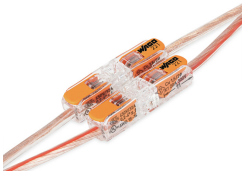


Push the connector to the center position until it snaps into place.

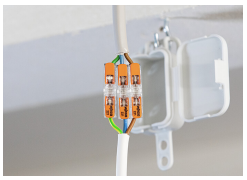
### Application



Perfect for test setups



Simple extension of lines



Lighting connection in suspended ceilings



Multi-pole, fixed lighting fixture wiring