

**WAGO**  
WAGO 221-413 3 Way  
Splicing Connector with  
Lever Lock



# WAGO 221-413 3 Way Splicing Connector with Lever Lock Instructions

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**WAGO 221-413 3 Way Splicing Connector with Lever Lock**



## Product Information

### Specifications

- Color: Transparent
- Dimensions: 18.8mm (W) x 8.4mm (H) x 18.6mm (D)
- Material: Polycarbonate (PC)
- Insulation Material: Polycarbonate (PC)
- Flammability Class: V2
- Rated Voltage: 450V (EN 60664), 600V (UL 486C)
- Rated Current: 32A (EN 60664), 20A (UL 486C)

### Product Usage Instructions

#### Safety Information

Ensure to observe installation and safety instructions provided with the product. This product should only be used in grounded power lines.

#### Electrical Data

This product is rated for a nominal voltage of 450V, a rated surge voltage of 4kV, and a rated current of 32A (EN 60664). For UL standards, the rated current is 20A.

#### Connection Data

This product features 3 clamping units, with a total number of potentials of 1. It supports various conductor materials and nominal cross-sections. Ensure to follow the specified wiring directions.

#### Environmental Requirements

The product operates within specified ambient temperature ranges and complies with environmental standards per EN 60998. Refer to the provided temperature marking for details.

#### Product Group & Compliance

This product belongs to Product Group 7 (Push Wire Conn.) and complies with eCl@ss, ETIM, and other standards. It is RoHS compliant.

### FAQ

- **Q: What are the dimensions of the product?**

A: The product dimensions are 18.8mm (W) x 8.4mm (H) x 18.6mm (D).

- **Q: What is the maximum rated current for this product?**

A: The maximum rated current is 32A per EN 60664 and 20A per UL 486C.

Splicing connector with levers; for all conductor types; max. 4 mm<sup>2</sup>; 3-conductor; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm<sup>2</sup>; transparent <https://www.wago.com/221-413>

## **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 mm<sup>2</sup>
- 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
- Custom carriers are possible

## **Notes**

Safety management note

**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**

in grounded power lines

Electrical data							
Ratings per		EN 60664			Approvals per		UL 486C
Overvoltage category	III	III	II		Use group	B	C
						D	

Pollution degree	3	2	2		Rated voltage	– 600 V	–
Nominal voltage	–	–	450 V		Rated current	– 20 A	–
Rated surge voltage	–	–	4 kV				
Rated current	–	–	32 A				

## Connection data

Clamping units 3

Total number of potentials 1 .

## Connection 1

- Connection technology CAGE CLAMP®
- Actuation type Lever
- Connectable conductor materials Copper
- Nominal cross-section 4 mm<sup>2</sup> / 12 AWG
- Solid conductor 0.2 ... 4 mm<sup>2</sup> / 24 ... 12 AWG
- Stranded conductor 0.2 ... 4 mm<sup>2</sup> / 24 ... 12 AWG
- Fine-stranded conductor 0.14 ... 4 mm<sup>2</sup> / 24 ... 12 AWG
- Strip length 11 mm / 0.43 inches
- Wiring direction Side-entry wiring

## Physical data

- Width 18.8 mm / 0.74 inches
- Height 8.4 mm / 0.331 inches
- Depth 18.6 mm / 0.732 inches

## Material data

- Note (material data)  
Information on material specifications can be found here
- Color transparent
- Material group IIIa
- Insulation material (main housing) Polycarbonate (PC)
- Flammability class per UL94 V2
- Fire load 0.064 MJ
- Actuator color orange
- Weight 2.5 g

## Environmental requirements

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

## Commercial data

- Product Group 7 (Push Wire Conn.)
- eCI@ss 10.0 27-14-11-04
- eCI@ss 9.0 27-14-11-04
- ETIM 9.0 EC000446
- ETIM 8.0 EC000446
- PU (SPU) 500 (50) pcs
- Packaging type Box
- Country of origin DE
- GTIN 4050821808442
- Customs tariff number 85369010000

## Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

## Approvals / Certificates

### General approvals



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
UL_Listed_64KA UL International Germany GmbH	UL 467	E201573

## Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
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
ABS American Bureau of Ship ping	—	18-HG1755093-PDA
DNV GL Det Norske Veritas, Ger manischer Lloyd	EN 60998	TAE000015T
LR Lloyds Register	EN 60998	LR22207029TA




### Downloads




- Environmental Product Compliance
- Compliance Search

- Environmental Product Compliance 221-413



### Documentation

Documentati on			
Bid Text			
221-413	19.02.2019	XML 3.43 KB	
221-413	23.01.2019	docx 15.29 KB	
ausschreiben.de 221-413			

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 221-413 	EPLAN Data Portal 221-413 
	ZUKEN Portal 221-413 

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 mm<sup>2</sup> connectors; without splicing connectors; white



#### Moisture protection

#### Item No.: 207-1331

Gelbox; Branch; for cables; with gel; 221, 2×73 Series; max. 4 mm<sup>2</sup> connectors; without splicing connectors; Size 1; gray



#### Item No.: 207-1333

Gelbox; Branch; for cables; with gel; 221, 2×73 Series; max. 4 mm<sup>2</sup> connectors; without splicing connectors; Size 3; gray










## Jumper

<p><a href="#"><u>Item No.: 221-941/000-006</u></a></p> <p>Jumper; for conductor entry; 2-way; insulated; blue</p> 	<p><a href="#"><u>Item No.: 221-942/000-006</u></a></p> <p>Jumper; for conductor entry; 2-way; insulated; blue</p> 	<p><a href="#"><u>Item No.: 221-941</u></a></p> <p>Jumper; for conductor entry; 2-way; insulated; dark gray</p> 	<p><a href="#"><u>Item No.: 221-942</u></a></p> <p>Jumper; for conductor entry; 2-way; insulated; dark gray</p> 
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## Mounting adapter

### Mounting accessories

 <p><a href="#"><u>Item No.: 221-500/000-006</u></a></p>	 <p><a href="#"><u>Item No.: 221-500/000-053</u></a></p>	 <p><a href="#"><u>Item No.: 221-500</u></a></p>	 <p><a href="#"><u>Item No.: 221-503/000-004</u></a></p>
Mounting carrier; 221 Series – 4 mm <sup>2</sup> ; for	Mounting carrier; 221 Series – 4 mm <sup>2</sup> ; for	Mounting carrier; 221 Series – 4 mm <sup>2</sup> ; for	Mounting carrier; for 3-conductor terminal blocks
DIN-35 rail mounting/screw mounting;	DIN-35 rail mounting/screw mounting;	DIN-35 rail mounting/screw mounting;	terminal blocks; 221 Series – 4 mm <sup>2</sup> ; for screw
blue	dark gray-yellow	orange	mounting; black

 <p><a href="#"><u>Item No.: 221-503</u></a></p>	 <p><a href="#"><u>Item No.: 221-513/000-004</u></a></p>	 <p><a href="#"><u>Item No.: 221-513</u></a></p>	 <p><a href="#"><u>Item No.: 221-523/000-004</u></a></p>
Mounting carrier; for 3-conductor terminal blocks; 221 Series – 4 mm <sup>2</sup> ; for screw mounting; white	Mounting carrier; for 3-conductor terminal blocks; 221 Series – 4 mm <sup>2</sup> ; with snap-in mounting foot for horizontal mounting; black	Mounting carrier; for 3-conductor terminal blocks; 221 Series – 4 mm <sup>2</sup> ; with snap-in mounting foot for horizontal mounting; white	Mounting carrier; for 3-conductor terminal blocks; 221 Series – 4 mm <sup>2</sup> ; with snap-in mounting foot for vertical mounting; black

Item No.: 221-523

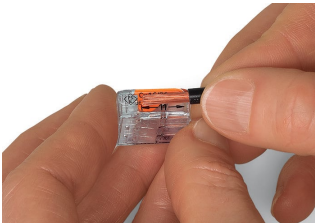
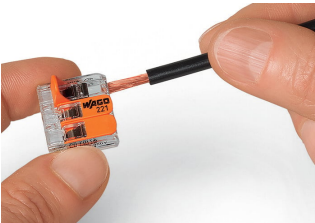
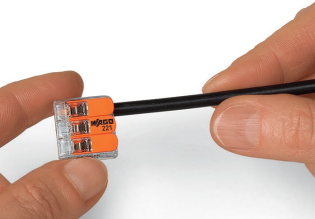



Mounting carrier; for 3-conductor terminal blocks; 221 Series – 4 mm<sup>2</sup>; with snap-in mounting foot for vertical mounting; white



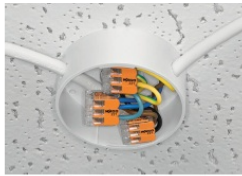
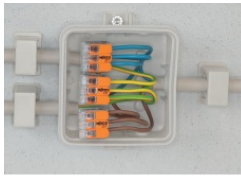
## Installation Notes

### Conductor termination

 <p>Strip conductor to 11 mm (0.43 inch).</p>	 <p>Pull up an orange lever to open the clamping unit.</p>	 <p>Then insert the conductor and push the lever back down, flush with the connector housing.</p>	 <p><b>Compact, lever-operated splicing connectors:</b></p> <p>Tool-free connection of fine-stranded conductors from 0.14 ... 4 mm<sup>2</sup>, as well as solid or stranded conductors from 0.2 ... 4 mm<sup>2</sup> (24 ... 12 AWG).</p> <p><b>Safety:</b></p> <p>The lever's specially designed rest position reliably prevents accidental unclamping of a connected conductor.</p> <p>Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.</p>
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### Application

- Wiring fine-stranded conductors in junction boxes.
- Custom low-voltage lighting system
- Lighting distribution in a ceiling canopy
- Pendant light connection in a suspended ceiling



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

**Current** addresses can be found at: [www.wago.com](http://www.wago.com)

**Version** 28.09.2024

**Documents / Resources**

	<p><a href="#">WAGO 221-413 3 Way Splicing Connector with Lever Lock</a> [pdf] Instructions</p> <p>221-413 3 Way Splicing Connector with Lever Lock, 221-413, 3 Way Splicing Connector with Le ver Lock, Splicing Connector with Lever Lock, Connector with Lever Lock, Lever Lock, Lock</p>
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**References**

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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