



# WAGO 221-415 Way Splicing Connector with Lever Lock Instructions

[Home](#) » [WAGO](#) » WAGO 221-415 Way Splicing Connector with Lever Lock Instructions 

## Contents

- [1 WAGO 221-415 Way Splicing Connector with Lever Lock](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Safety Information](#)
- [5 Compatible Products](#)
- [6 Installation Notes](#)
- [7 Application](#)
- [8 Documents / Resources](#)
  - [8.1 References](#)
- [9 Related Posts](#)



**WAGO 221-415 Way Splicing Connector with Lever Lock**



## Product Information

### Specifications

- Color: Transparent
- Dimensions: Width – 30mm, Height – 8.4mm, Depth – 18.6mm
- Material: Polycarbonate (PC)
- Insulation Material: Polycarbonate (PC)
- Flammability Class: V2 per UL94
- Rated Voltage: 600V
- Rated Current: 20A
- Weight: 4g

### Product Usage Instructions

#### Safety Information

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

#### Connection Data

- Connection Technology: Clamping Units
- Actuation Type: Push Wire
- Connectable Conductor Materials: Solid Conductor, Stranded Conductor, Fine-Stranded Conductor
- Nominal Cross-Section: Information on material specifications can be found [here](#)
- Strip Length: 30mm / 1.181 inches
- Wiring Direction: Not specified

## Environmental Requirements

- Ambient Temperature (Operation): Not specified
- Continuous Operating Temperature: Not specified
- Temperature Marking per EN 60998: Not specified

## FAQ

• **Q: What is the weight of the product?**

A: The weight of the product is 4g.

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

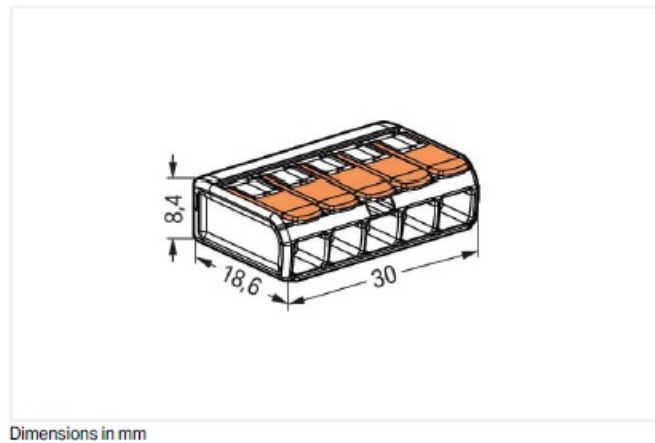
A: The dimensions of the product are as follows – Width: 30mm, Height: 8.4mm, Depth: 18.6mm.

• **Q: What are the approved certifications for this product?**

A: The approved certifications include CCA DEKRA Certification B.V., cULus\_Listed\_667F Underwriters Laboratories Inc., ENEC 05 DEKRA Certification B.V., and UL\_Listed\_64KA UL International Germany GmbH.

## 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 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!

in grounded power lines

#### Safety Information

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 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 / 0.331 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 0.089 MJ

- Actuator color orange
- Weight 4 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.)
- eCl@ss 10.0 27-14-11-04
- eCl@ss 9.0 27-14-11-04
- ETIM 9.0 EC000446
- ETIM 8.0 EC000446
- PU (SPU) 250 (25) pcs
- Packaging type Box
- Country of origin DE
- GTIN 4055143234658
- Customs tariff number 85369010000

**Environmental Product Compliance**

RoHS Compliance Status Compliant,No Exemption

Approvals / Certificates	
General approvals	Declarations of conformity and manufacturer’s declarations



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60998	NTR NL-7990
cULus_Listed_667 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


### 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

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAG O GmbH & Co. KG	–	–
UK-Declaration of Conformity WAG O GmbH & Co. KG	–	–

### Downloads

- Environmental Product Compliance
- Compliance Search
- Environmental Product
- Compliance 221-415 

Documentati on				
Bid Text				
221-415	19.02.2019	xml 3.43 KB		
221-415	23.01.2019	docx 15.31 KB		
ausschreiben.de 221-415				

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 221-415 	EPLAN Data Portal 221-415 
	ZUKEN Portal 221-415 

## Compatible Products

## Optional Accessories

## General accessories

### 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.: 207-1332

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

## Jumper





## Jumper



 <p>Item No.: 221-941/000-006 Jumper; for conductor entry; 2-way; insulated; blue</p>	 <p>Item No.: 221-942/000-006 Jumper; for conductor entry; 2-way; insulated; blue</p>	 <p>Item No.: 221-941 Jumper; for conductor entry; 2-way; insulated; dark gray</p>	 <p>Item No.: 221-942 Jumper; for conductor entry; 2-way; insulated; dark gray</p>
--	---	---	---

Mounting adapter

Mounting accessories

 <p>Item No.: 221-500/000-006 Mounting carrier; 221 Series – 4 mm²; for DIN-35 rail mounting/screw mounting; blue</p>	 <p>Item No.: 221-500/000-053 Mounting carrier; 221 Series – 4 mm²; for DIN-35 rail mounting/screw mounting; dark gray-yellow</p>	 <p>Item No.: 221-500 Mounting carrier; 221 Series – 4 mm²; for DIN-35 rail mounting/screw mounting; orange</p>	 <p>Item No.: 221-505/000-004 Mounting carrier; for 5-conductor terminal blocks; 221 Series – 4 mm²; for screw mounting; black</p>
--	--	---	---

 <p>Item No.: 221-505 Mounting carrier; for 5-conductor terminal blocks; 221 Series – 4 mm²; for screw mounting; white</p>	 <p>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</p>	 <p>Item No.: 221-515 Mounting carrier; for 5-conductor terminal blocks; 221 Series – 4 mm²; with snap-in mounting foot for horizontal mounting; white</p>	 <p>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</p>
---	---	--	---

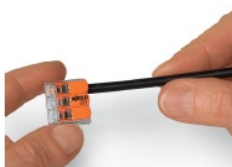
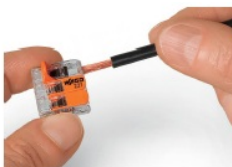
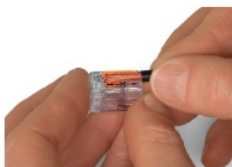


Item No.: 221-525

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 (0.43 inch).
- Pull up an orange lever to open the clamping unit.
- Then insert the conductor and push the lever back down, flush with the connector housing.

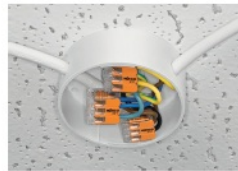
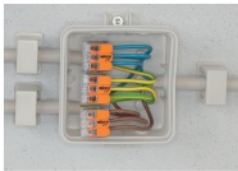
### Compact, lever-operated splicing connectors:

- 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).

### Safety:

The lever's specially designed rest position reliably prevents accidental unclamping of a connected conductor. Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.

### Application



- Wiring fine-stranded conductors in junction boxes.
- Custom low-voltage lighting system
- Custom low-voltage lighting system
- 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 221-415 Way Splicing Connector with Lever Lock</a> [pdf] Instructions  221-415, 221-415 Way Splicing Connector with Lever Lock, 221-415, Way Splicing Connector with Lever Lock, Splicing Connector with Lever Lock, Connector with Lever Lock, with Lever Lock, Lever Lock, Lock</p>
--	---

### References

- [User Manual](#)

### Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.