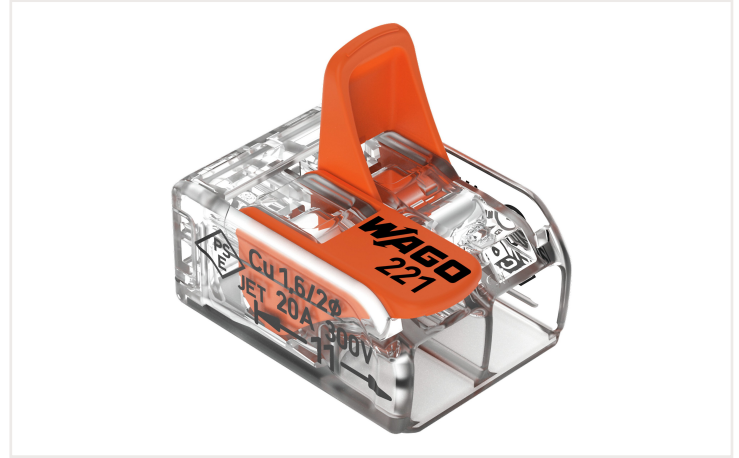


## Data sheet | Item number: 221-412

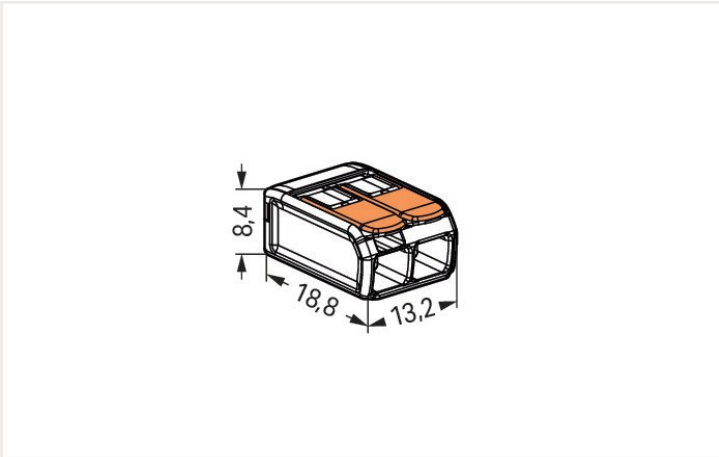
COMPACT Splicing Connector; for all conductor types; max. 4 mm<sup>2</sup>; 2-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm<sup>2</sup>; transparent



<https://www.wago.com/221-412>



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 information 1

in grounded power lines

## Electrical data

### Ratings per IEC/EN

Ratings per	EN 60664
Nominal voltage (II/2)	450 V
Rated surge voltage (II/2)	4 kV
Rated current	32 A
Legend (ratings)	(II / 2) $\triangleq$ Overvoltage category II / Pollution degree 2

### Ratings per UL

Approvals per	UL 486C
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	20 A

## Connection data

Total number of connection points	2
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 inch
Wiring direction	Side-entry wiring

## Physical data

Width	13.2 mm / 0.52 inch
Height	8.6 mm / 0.327 inch
Depth	18.8 mm / 0.732 inch

## Material data

Note (material data)	<a href="#">Information on material data can be found here</a>
Color	transparent
Flammability class per UL94	V2
Fire load	0.033 MJ
Actuator color	orange
Weight	1.7 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 7.0	EC000446
ETIM 6.0	EC000446
PU (SPU)	1000 (100) Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4050821808435
Customs tariff number VKOrg Germany	85369010000

## Approvals and certificates

### Country specific Approvals



Approval	Standard	Certificate name
CCA DEKRA Certification B.V.	EN 60998	NTR NL-7827
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-113253 REV. 1

### Ship Approvals



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	04/20013 (E8)

### UL-Approvals



Approval	Standard	Certificate name
UL UL International Germany GmbH	UL 486C	E69654

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product  
Compliance 221-412






## Documentation

### Additional Information

Technical Section	pdf 2142.18 KB	
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### Bid Text

221-412	19.02.2019	xml 3.43 KB	
221-412	23.01.2019	docx 15.26 KB	
ausschreiben.de 221-412			

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 221-412		EPLAN Data Portal 221-412	
		ZUKEN Portal 221-412	

1 Compatible products

1.1 Optional accessories

1.1.1 Jumper

1.1.1.1 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

1.1.2 Mounting adapter

1.1.2.1 Mounting accessories



**Item no.: 221-500/000-006**

Mounting carrier; 221 Series - 4 mm<sup>2</sup>; for DIN-35 rail mounting/screw mounting; blue

**Item no.: 221-500/000-053**

Mounting carrier; 221 Series - 4 mm<sup>2</sup>; for DIN-35 rail mounting/screw mounting; dark gray-yellow

**Item no.: 221-500**

Mounting carrier; 221 Series - 4 mm<sup>2</sup>; for DIN-35 rail mounting/screw mounting; orange

**Item no.: 221-502/000-004**

Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; for screw mounting; black



**Item no.: 221-502**

Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; for screw mounting; white

**Item no.: 221-512/000-004**

Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; with snap-in mounting foot for horizontal mounting; black

**Item no.: 221-512**

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

**Item no.: 221-522/000-004**

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

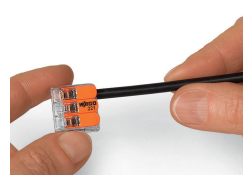
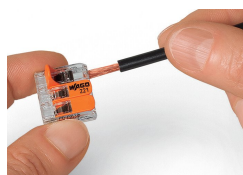
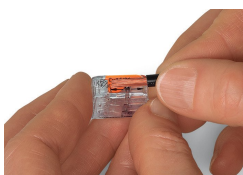


**Item no.: 221-522**

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

Installation notes

Conductor termination

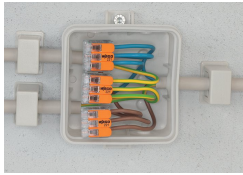


Strip conductor to 11 mm (0.43 inch).

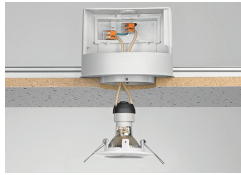
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

Then, lower the lever to close the clamp.

## 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



COMPACT Splicing Connectors for All Conductor Types (4 mm<sup>2</sup>), 221 Series



Compact, lever-operated splicing connectors:

Tool-free connection of up to five stripped, 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).

How they work:

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.

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.