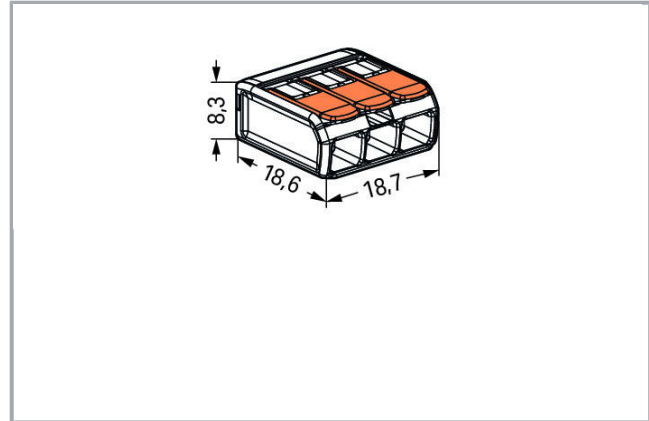


## Data sheet | Item number: 221-413

COMPACT Splicing Connector; for all conductor types; max. 4 mm<sup>2</sup>; 3-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm<sup>2</sup>; transparent



[www.wago.com/221-413](http://www.wago.com/221-413)



RoHS  Compliant [BOMcheck.net](https://www.bomcheck.net)



### Item description

Your Benefits:

- Easy to use: Pull the lever up, insert a conductor and push the lever back down

Subject to changes.

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



- Available as 2-, 3- and 5-wire connectors
- Easily terminate conductors from 0.14 to 4 mm<sup>2</sup>, as well as solid and stranded conductors from 0.2 to 4 mm<sup>2</sup> (24 ... 12 AWG).
- Time savings for installers and device manufacturers.
- Quickly install devices with higher levels of power consumption.
- Safely install long cable runs with larger conductor cross sections.
- Mounting carrier for installation conforming to standards
- Custom carriers are possible

**Safety information 1:**

In grounded power lines

**Data****Electrical data****Ratings per IEC/EN 60664-1**

Rated voltage (II / 2)	450 V
Rated impulse voltage (II / 2)	4 kV
Rated current	32 A
Legend (ratings)	(II / 2) $\triangleq$ Overvoltage category II / Pollution degree 2

**Approvals per UL 1059**

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

**Connection data**

Connection technology	CAGE CLAMP <sup>®</sup>
Actuation type	Lever
Connectable conductor materials	Copper
Nominal cross section	4 mm <sup>2</sup>
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
Total number of connection points	3
Total number of potentials	1
Type of wiring	Side-entry wiring

Subject to changes.

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## Geometrical Data

Width	18.7 mm / 0.736 inch
Height	8.3 mm / 0.327 inch
Depth	18.6 mm / 0.732 inch

## Material Data

Color	transparent
Flammability class per UL94	V2
Weight	2.5 g

## Environmental Requirements



Surrounding air (operating) temperature	85 °C
Continuous operating temperature	105 °C
T-Marking per EN 60998	T85

## Commercial data

Product Group	7 (Push Wire Conn.)
Packaging type	BOX
Country of origin	DE
GTIN	4050821808442
Customs Tariff No.	85369010000

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	NTR NL-7642
	CCA DEKRA Certification B.V.	EN 60998	71-101731



### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
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Subject to changes.






	<b>ABS</b> American Bureau of Shipping	-	18- HG1755093- PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	EN 60998	TAE000015T
	<b>LR</b> Lloyds Register	EN 60998	04/20013 (E8)

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> Underwriters Laboratories Inc.	UL 467	E201573
	<b>UL</b> Underwriters Laboratories Inc.	UL 486C	E69654

### Compatible products

#### Mounting adapter

	<b>Item no.: 221-500</b> Mounting carrier; 221 Series - 4 mm <sup>2</sup> ; for DIN-35 rail mounting/screw mounting; orange	<a href="http://www.wago.com/221-500">www.wago.com/221-500</a>
	<b>Item no.: 221-500/000-006</b> Mounting carrier; 221 Series - 4 mm <sup>2</sup> ; for DIN-35 rail mounting/screw mounting; blue	<a href="http://www.wago.com/221-500/000-006">www.wago.com/221-500/000-006</a>
	<b>Item no.: 221-500/000-053</b> Mounting carrier; 221 Series - 4 mm <sup>2</sup> ; for DIN-35 rail mounting/screw mounting; dark gray-yellow	<a href="http://www.wago.com/221-500/000-053">www.wago.com/221-500/000-053</a>
	<b>Item no.: 221-503</b> Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm <sup>2</sup> ; for screw mounting; white	<a href="http://www.wago.com/221-503">www.wago.com/221-503</a>
	<b>Item no.: 221-503/000-004</b> Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm <sup>2</sup> ; for screw mounting; black	<a href="http://www.wago.com/221-503/000-004">www.wago.com/221-503/000-004</a>

Subject to changes.



**Item no.: 221-513**

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

[www.wago.com/221-513](http://www.wago.com/221-513)



**Item no.: 221-513/000-004**

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

[www.wago.com/221-513/000-004](http://www.wago.com/221-513/000-004)



**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

[www.wago.com/221-523](http://www.wago.com/221-523)



**Item no.: 221-523/000-004**

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

[www.wago.com/221-523/000-004](http://www.wago.com/221-523/000-004)

## Downloads

### Documentation

#### Additional Information

Technical explanations	03-abr-2019	pdf 2.1 MB	Download
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### CAD/CAE-Data

#### CAD data

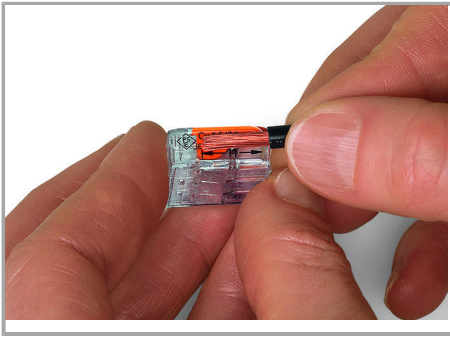
2D/3D Models 221-413	URL	Download
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#### CAE data

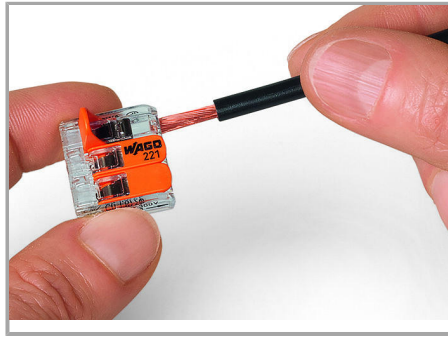
EPLAN Data Portal 221-413	Download
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### Installation Notes

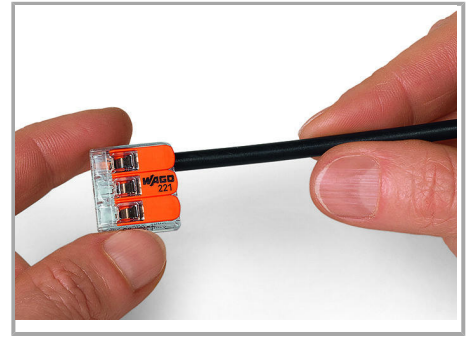
Subject to changes.



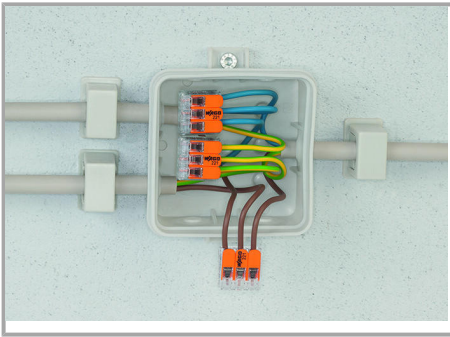
Strip conductor to 11 mm (0.43 inch).



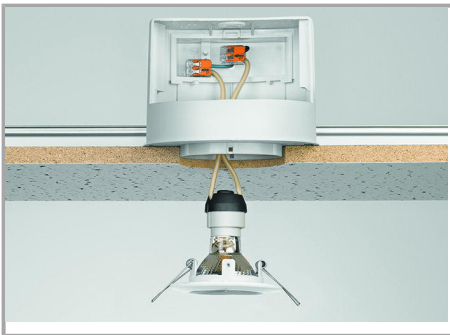
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



Then, lower the lever to close the clamp.



Wiring fine-stranded conductors in a junction box.



Custom low-voltage lighting system

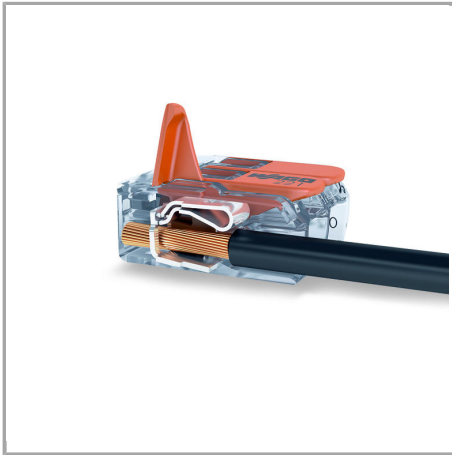


Lighting distribution in ceiling canopy



Pendant light connection in suspended ceilings

Subject to changes.



COMPACT Splicing Connectors for All  
Conductor Types, 4 mm<sup>2</sup> (12 AWG), 221  
Series

Subject to changes.



**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 these work:**

Pull up one of the orange operating levers to open the clamping unit. Then insert the conductor and push the lever back down, flush with the connector housing.

**Safety:**

The specially designed rest position of the lever 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.

Subject to changes.