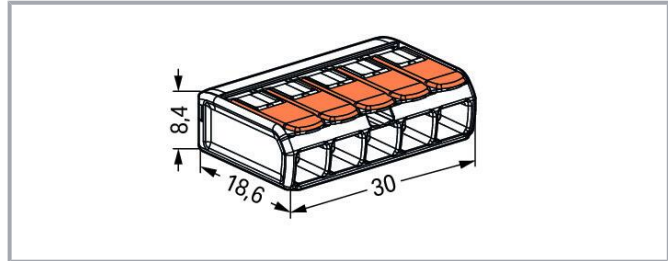


## Data sheet | Item number: 221-415

COMPACT splicing connector; 5-conductor; with operating levers; 12 AWG;  
transparent housing

[www.wago.com/221-415](http://www.wago.com/221-415)



### Item description

#### 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 24 to 12 AWG
- Connect solid, stranded and fine-stranded conductors
- 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 conforms to standards

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

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- Custom carriers are possible

## Data Notes

Safety information 1	in grounded power lines
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## Electrical data

Approvals per	UL 486C
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	20 A
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) Overvoltage category II / Pollution degree 2

## Connection data

Total number of connection points	5
Total number of potentials	1
Connection technology	CAGE CLAMP®
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
Wiring direction	Side-entry wiring

## Physical data

Width	30 mm / 1.181 inch
Height	8.6 mm / 0.327 inch
Depth	18.8 mm / 0.732 inch

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## Material data

Color	transparent
Flammability class per UL94	V2
Fire load	0.075 MJ
Color of actuator	orange
Weight	4 g

## Environmental requirements



Surrounding air temperature (operation)	85 °C
Continuous operating temperature	105 °C
Temperature marking per EN 60998	T85

## Commercial data

Product Group	7 (Push Wire Conn.)
PU (SPU)	250 (25) Stück
Packaging type	box
Country of origin	DE
GTIN	4055143234658
Customs tariff number	85369010000

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	NTR NL-7827
	KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-113253

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	18-HG1755093-

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

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<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	EN 60998	TAE000015T
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<b>LR</b> Lloyds Register	EN 60998	04/20013 (E8)
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## UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> UL International Germany GmbH	UL 486C	E69654

## Optional accessories

### Jumpers

Jumper		
	<b>Item no.: 221-941</b> Jumper; for conductor entry; 2-way; insulated; dark gray	<a href="http://www.wago.com/221-941">www.wago.com/221-941</a>
	<b>Item no.: 221-941/000-006</b> Jumper; for conductor entry; 2-way; insulated; blue	<a href="http://www.wago.com/221-941/000-006">www.wago.com/221-941/000-006</a>
	<b>Item no.: 221-942</b> Jumper; for conductor entry; 2-way; insulated; dark gray	<a href="http://www.wago.com/221-942">www.wago.com/221-942</a>
	<b>Item no.: 221-942/000-006</b> Jumper; for conductor entry; 2-way; insulated; blue	<a href="http://www.wago.com/221-942/000-006">www.wago.com/221-942/000-006</a>

### Mounting adapter

Mounting accessories		
	<b>Item no.: 221-500</b> Mounting carrier; 221 series (24 - 12 AWG); for DIN-35 rail/panel mount; orange	<a href="http://www.wago.com/221-500">www.wago.com/221-500</a>

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

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**Item no.: 221-505**

Mounting carrier, 221 series (24-12 AWG); 5-conductor; for panel mount; white

[www.wago.com/221-505](http://www.wago.com/221-505)**Item no.: 221-505/000-004**

Mounting carrier, 221 series (24-12 AWG); 5-conductor; for panel mount; black

[www.wago.com/221-505/000-004](http://www.wago.com/221-505/000-004)**Item no.: 221-515/000-004**

Mounting carrier; 221 series (24 - 12 AWG); 5-conductor; with snap-in mounting foot for horizontal mounting; black

[www.wago.com/221-515/000-004](http://www.wago.com/221-515/000-004)**Item no.: 221-525**

Mounting carrier; 221 series (24 - 12 AWG); 5-conductor; with snap-in mounting foot for vertical mounting; white

[www.wago.com/221-525](http://www.wago.com/221-525)**Item no.: 221-515**

Mounting carrier; 221 series (24 - 12 AWG); 5-conductor; with snap-in mounting foot for horizontal mounting; white

[www.wago.com/221-515](http://www.wago.com/221-515)**Item no.: 221-525/000-004**

Mounting carrier; 221 series (24 - 12 AWG); 5-conductor; with snap-in mounting foot for vertical mounting; black

[www.wago.com/221-525/000-004](http://www.wago.com/221-525/000-004)**Item no.: 221-500/000-006**

Mounting carrier; 221 series (24 - 12 AWG); for DIN-35 rail/panel mount; blue

[www.wago.com/221-500/000-006](http://www.wago.com/221-500/000-006)**Item no.: 221-500/000-053**

Mounting carrier; 221 series (24 - 12 AWG); for DIN-35 rail/panel mount; dark gray/yellow

[www.wago.com/221-500/000-053](http://www.wago.com/221-500/000-053)

## Downloads Documentation

### Bid Text

Item	Date	File Name	Size	Action
221-415	Jan 23, 2019	docx - Datei	15.7 kB	Download

221-415	Feb 19, 2019	X81 - Datei	3.5 kB	Download
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### Additional Information

Technical explanations	Apr 3, 2019	pdf	2.2 MB	Download
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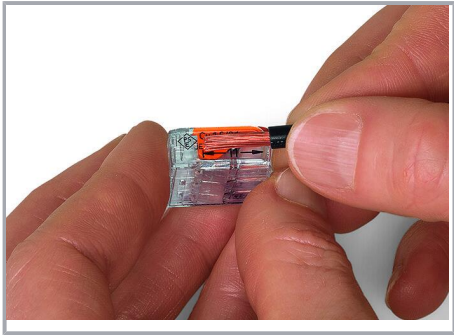
CAD files

CAD data

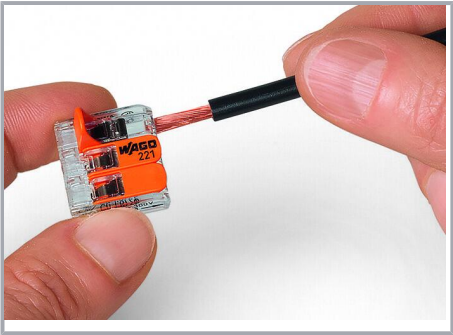
2D/3D Models 221-415	URL	Download
CAE data		
EPLAN Data Portal 221-415	URL	Download
ZUKEN Portal 221-415	URL	Download

Installation Notes

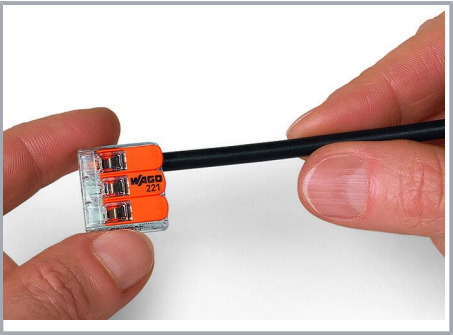
Conductor termination



Strip conductor to 11 mm (0.43 inch).

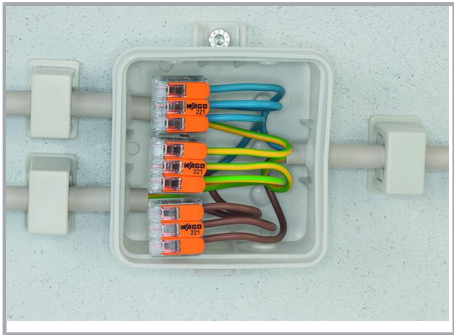


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

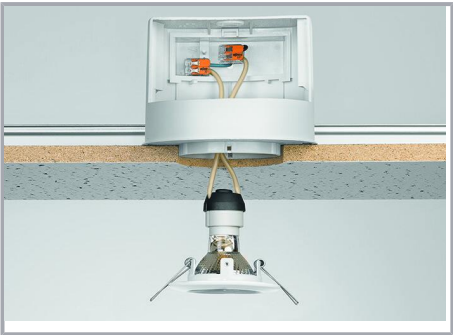


Then, lower the lever to close the clamp.

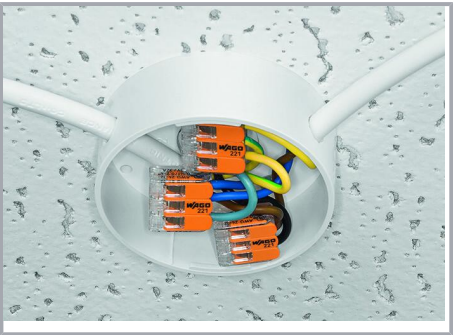
Application



Wiring fine-stranded conductors in junction boxes.



Custom low-voltage lighting system



Lighting distribution in a ceiling canopy

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

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Pendant light connection in a suspended ceiling



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

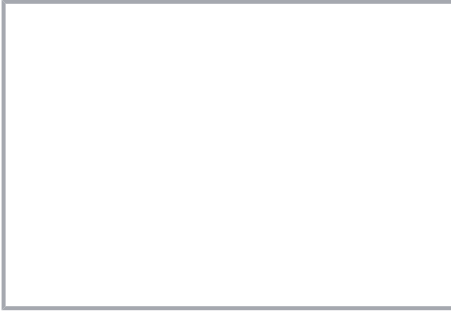
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Subject to changes. Please also observe the further product documentation!

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**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.

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

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