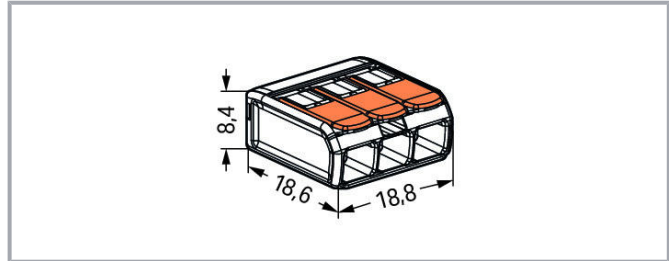


Data sheet | Item number: 221-413

COMPACT splicing connector; 3-conductor; with operating levers; 12 AWG;
transparent housing

www.wago.com/221-413



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

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

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- 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
- Custom carriers are possible

Data

Notes

Safety information 1

in grounded power lines

Electrical data

IEC Approvals

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

UL Approvals

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	3
Total number of potentials	1

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Lever
Connectable conductor materials	Copper
Nominal cross-section	4 mm²
Solid conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Stranded conductor	0.2 ... 4 mm² / 24 ... 12 AWG

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Fine-stranded conductor	0.14 ... 4 mm ² / 24 ... 12 AWG
Strip length	11 mm / 0.43 inch
Wiring direction	Side-entry wiring

Physical data

Width	18.8 mm / 0.74 inch
Height	8.6 mm / 0.327 inch
Depth	18.8 mm / 0.732 inch

Material data

Note on material data	Information on material data can be found here
Color	transparent
Flammability class per UL94	V2
Fire load	0.048 MJ
Color of actuator	orange
Weight	2.5 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)	500 (50) Stück
Packaging type	box
Country of origin	DE
GTIN	4050821808442
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

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CCA





KEMA/KEUR
DEKRA Certification B.V.


EN 60998

71-
113253
REV. 1

Ship Approvals



Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	18- HG1755093- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	EN 60998	TAE000015T
	LR Lloyds Register	EN 60998	04/20013 (E8)

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH	UL 486C	E69654

Optional accessories

Jumpers

Jumper		
	Item no.: 221-941 Jumper; for conductor entry; 2-way; insulated; dark gray	www.wago.com/221-941
	Item no.: 221-941/000-006 Jumper; for conductor entry; 2-way; insulated; blue	www.wago.com/221-941/000-006

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

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**Item no.: 221-942**

Jumper; for conductor entry; 2-way; insulated; dark gray

www.wago.com/221-942**Item no.: 221-942/000-006**

Jumper; for conductor entry; 2-way; insulated; blue

www.wago.com/221-942/000-006**Mounting adapter**

Mounting accessories

**Item no.: 221-500**

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

www.wago.com/221-500**Item no.: 221-503**

Mounting carrier, 221 series (24-12 AWG); 3-conductor; for panel mount; white

www.wago.com/221-503**Item no.: 221-503/000-004**

Mounting carrier, 221 series (24-12 AWG); 3-conductor; for panel mount; black

www.wago.com/221-503/000-004**Item no.: 221-513/000-004**

Mounting carrier; 221 series (24 - 12 AWG); 3-conductor; with snap-in mounting foot for horizontal mounting; black

www.wago.com/221-513/000-004**Item no.: 221-513**

Mounting carrier; 221 series (24 - 12 AWG); 3-conductor; with snap-in mounting foot for horizontal mounting; white

www.wago.com/221-513**Item no.: 221-523/000-004**

Mounting carrier; 221 series (24 - 12 AWG); 3-conductor; with snap-in mounting foot for vertical mounting; black

www.wago.com/221-523/000-004**Item no.: 221-523**

Mounting carrier; 221 series (24 - 12 AWG); 3-conductor; with snap-in mounting foot for vertical mounting; white

www.wago.com/221-523**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**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**Downloads****Documentation****Bid Text**

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

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221-413 X81 - Datei	Feb 19, 2019	xml 3.5 kB	Download
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221-413 docx - Datei	Jan 23, 2019	docx 15.7 kB	Download
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ausschreiben.de 221-413		URL	Download
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Additional Information

Technical Section Technical explanations		pdf 2.2 MB	Download
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CAD files

CAE data

EPLAN Data Portal 221-413		URL	Download
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ZUKEN Portal 221-413		URL	Download
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CAD data

2D/3D Models 221-413		URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 221-413 COMPACT Splicing Connector; for all conductor types; max. 4 mm ² ; 3-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm ² ; transparent		URL	Download
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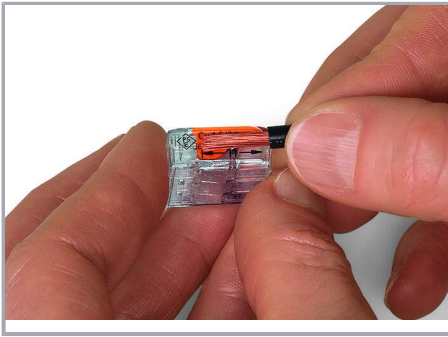
Installation Notes

Conductor termination

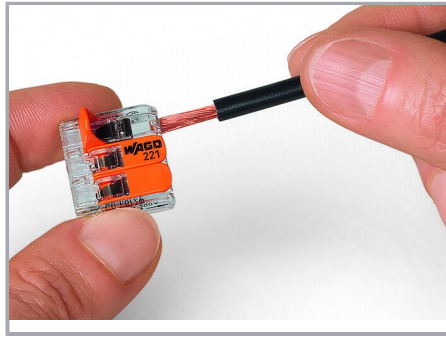
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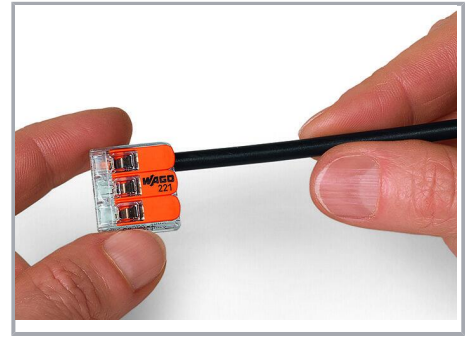
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Strip conductor to 11 mm (0.43 inch).

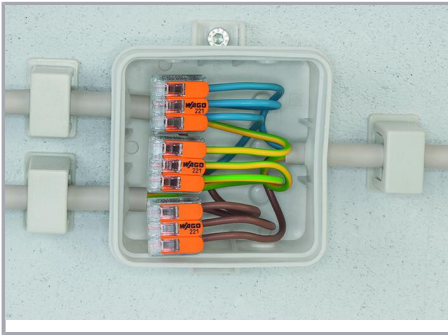


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

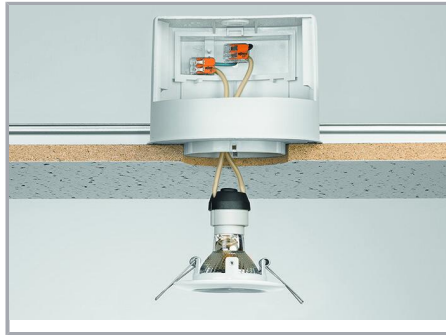


Then, lower the lever to close the clamp.

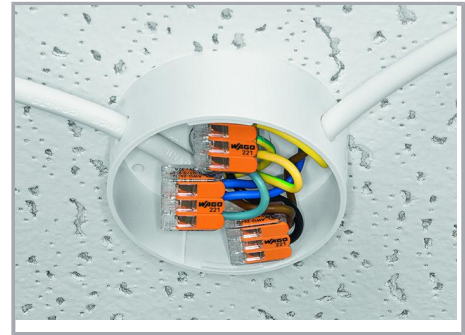
Application



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

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

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COMPACT Splicing Connectors for All
Conductor Types (4 mm²), 221 Series

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Compact, lever-operated splicing connectors:

Tool-free connection of up to five stripped, fine-stranded conductors from 0.14 ... 4 mm², as well as solid or stranded conductors from 0.2 ... 4 mm² (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.

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