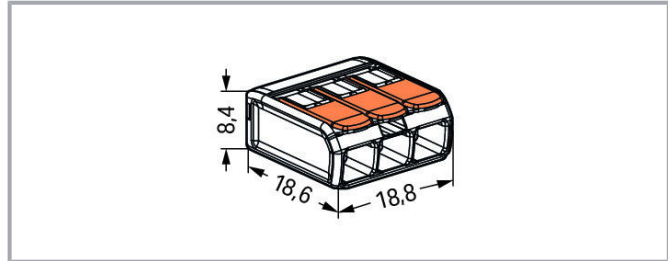


Data sheet | Item number: 221-413

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

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	3
Total number of potentials	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
Fine-stranded conductor	0.14 ... 4 mm² / 24 ... 12 AWG
Strip length	11 mm / 0.43 inch
Wiring direction	Side-entry wiring

Physical data

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

Material data

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
	KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-113253

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
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Lloyds Register

EN 60998

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(E8)







UL-Approvals

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

Optional accessories

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

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

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**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**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**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**Downloads****Documentation****Bid Text**

Item	Date	File Type	Size	Action
221-413	Feb 19, 2019	xml	3.5 kB	Download

221-413	Jan 23, 2019	docx	15.7 kB	Download
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Additional Information

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

CAE data

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

CAD data

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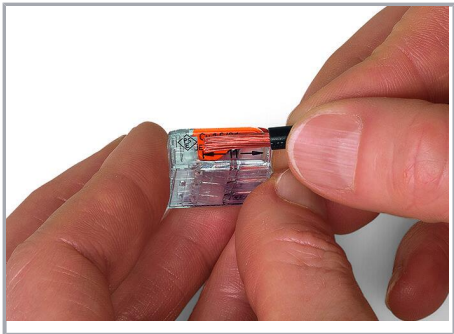
Environmental Product Compliance

Compliance Search

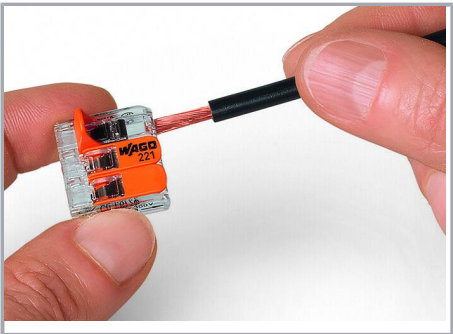
Environmental Product Compliance 221-413	URL	Download
COMPACT Splicing Connector; for all conductor types; max. 4 mm ² ; 3-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm ² ; transparent		

Installation Notes

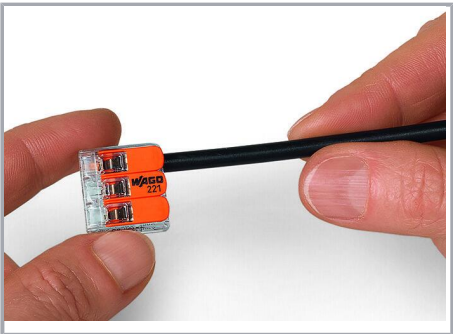
Conductor termination



Strip conductor to 11 mm (0.43 inch).



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



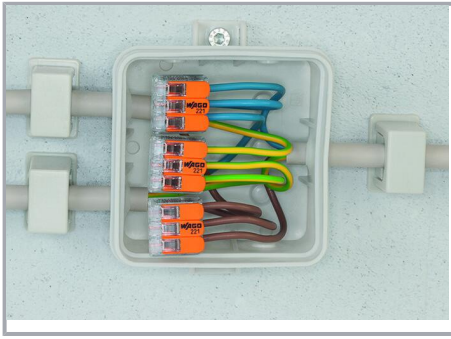
Then, lower the lever to close the clamp.

Application

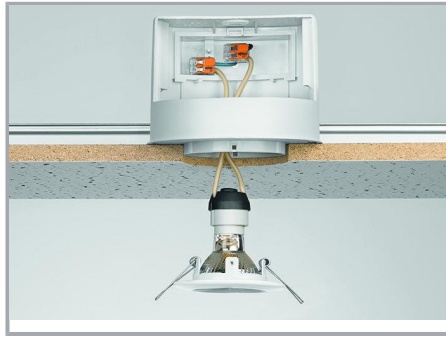
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Wiring fine-stranded conductors in junction boxes.



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 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.

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