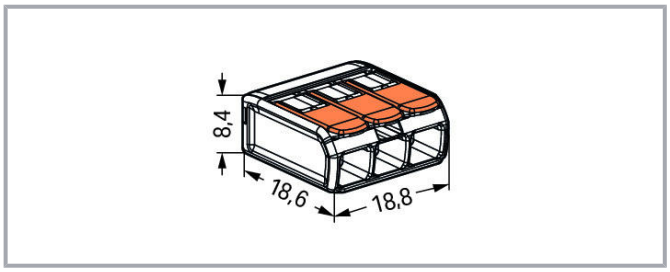
Data sheet | Item number: 221-413

COMPACT Splicing Connector; for all conductor types; max. 4 mm²; 3-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent

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 0.14 to 4 mm²
- Connect solid, stranded and fine-stranded conductors

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

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- 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

Safety information 1:
in grounded power lines

Data
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) ≙ 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

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
Total number of connection points	3
Total number of potentials	1
Wiring type	Side-entry wiring

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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

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.)
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-7642
	CCA DEKRA Certification B.V.	EN 60998	71-101731

Ship Approvals

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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 Underwriters Laboratories Inc.	UL 467	E201573
	UL Underwriters Laboratories Inc.	UL 486C	E69654

Compatible products

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

Mounting adapter

Item no.: 221-500

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	Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; orange	www.wago.com/221-500
	Item no.: 221-500/000-006 Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; blue	www.wago.com/221-500/000-006
	Item no.: 221-500/000-053 Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; dark gray-yellow	www.wago.com/221-500/000-053
	Item no.: 221-503 Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; white	www.wago.com/221-503
	Item no.: 221-503/000-004 Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; black	www.wago.com/221-503/000-004
	Item no.: 221-513 Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; white	www.wago.com/221-513
	Item no.: 221-513/000-004 Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; black	www.wago.com/221-513/000-004
	Item no.: 221-523 Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; white	www.wago.com/221-523
	Item no.: 221-523/000-004 Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; black	www.wago.com/221-523/000-004

Downloads

Documentation

Bid Text

221-413 X81 - Datei	Feb 19, 2019	xml 3.5 kB	Download
221-413 docx - Datei	Jan 23, 2019	docx 15.7 kB	Download

Additional Information

Technical explanations	Apr 3, 2019	pdf 2.2 MB	Download

CAD/CAE-Data

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CAE data

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

CAD data

2D/3D Models 221-413	URL	Download

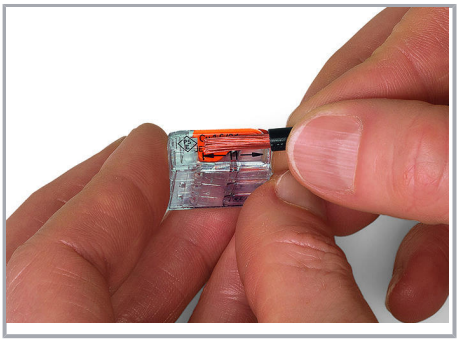
Environmental Product Compliance

Compliance Search

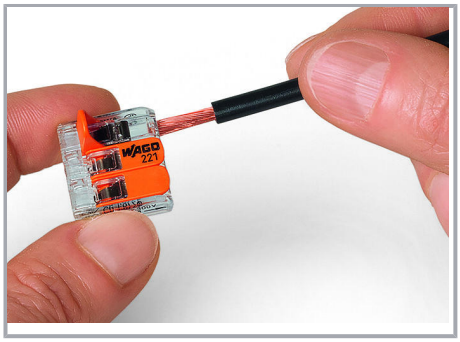
Environmental Product Compliance 221-413 COMPACT Splicing Connector; for all conductor types; max. 4 mm²; 3-conductor; with levers; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent	URL	Download

Installation Notes

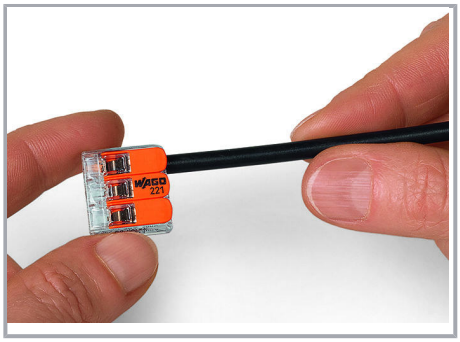
Conductor termination



Strip conductor to 11 mm (0.43 inch).



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

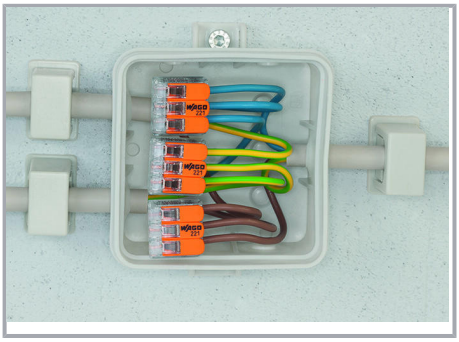


Then, lower the lever to close the clamp.

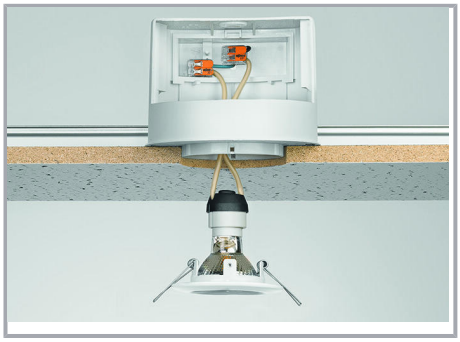
Application

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Wiring fine-stranded conductors in junction boxes.



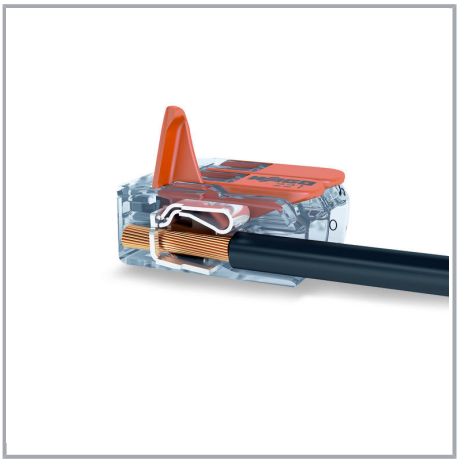
Custom low-voltage lighting system



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.

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