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



https://www.wago.com/221-413



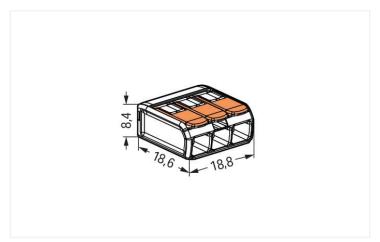


 $\hbox{Color:} \ \square \ \hbox{transparent}$ 









Dimensions in mm

https://www.wago.com/221-413

# N/AGO

#### 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 mm<sup>2</sup>
- Connect solid, stranded and fine-stranded conductors
- Save time for installers and device manufacturers
- Quickly install devices with higher power consumption
- Safely install long cable runs with larger conductor cross sections
- Mounting carrier for installation conforms to standards
- Custom carriers are possible

Notes	
Safety management note	NOTICE: Observe installation and safety instructions!
	<ul> <li>Only to be used by electricians!</li> <li>Do not work under voltage/load!</li> <li>Use only for proper use!</li> <li>Observe national regulations/standards/guidelines!</li> <li>Observe technical specifications for the products!</li> <li>Observe the number of permissible potentials!</li> <li>Do not use damaged/dirty components!</li> <li>Observe conductor types, cross-sections and strip lengths!</li> <li>Insert conductor until it hits the product's backstop!</li> <li>Use original accessories!</li> <li>To be sold only with installation instructions!</li> </ul>
Safety information	in grounded power lines

Electrical data							
Ratings per		EN 60664		Approvals per		UL 486C	
Overvoltage category	III	III	II	Use group	В	С	D
Pollution degree	3	2	2	Rated voltage	-	600 V	-
Nominal voltage	-	-	450 V	Rated current	-	20 A	-
Rated surge voltage	-	-	4 kV				
Rated current	-	-	32 A				

nnection data				
Connection points	3		Connection 1	
Total number of potentials 1	1	1	Connection technology	CAGE CLAMP®
	Actuation type	Lever		
			Connectable conductor materials	Copper
			Nominal cross-section	4 mm² / 12 AWG
		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 inches
			Wiring direction	Side-entry wiring

# Data Sheet | Item Number: 221-413 https://www.wago.com/221-413



Physical data	
Width	18.8 mm / 0.74 inches
Height	8.4 mm / 0.331 inches
Depth	18.6 mm / 0.732 inches

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	transparent
Material group	Illa
Insulation material	Polycarbonate (PC)
Flammability class per UL94	V2
Fire load	0.064 MJ
Actuator color	orange
Weight	2.5 g

Environmental requirements		
Ambient temperature (operation)	+85 °C	
Continuous operating temperature	105 ℃	
Temperature marking per EN 60998	T85	

Commercial data	
Product Group	7 (Push Wire Conn.)
eCl@ss 10.0	27-14-11-04
eCl@ss 9.0	27-14-11-04
ETIM 8.0	EC000446
ETIM 7.0	EC000446
PU (SPU)	500 (50) pcs
Packaging type	Вох
Country of origin	DE
GTIN	4050821808442
Customs tariff number	85369010000

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

## Approvals / Certificates

## General approvals









807	64KA	
Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60998	NTR NL-7990
cULus_Listed_667F Underwriters Laboratories Inc.	UL 486C	E69654
ENEC 05 DEKRA Certification B.V.	EN 60669,EN 60998	71-127529
UL_Listed_64KA UL International Germany GmbH	UL 467	E201573

## Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

https://www.wago.com/221-413



## Approvals for marine applications



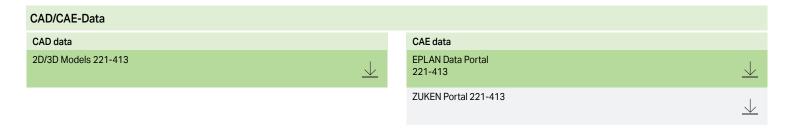




Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	18-HG1755093-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	EN 60998	TAE000015T
LR Lloyds Register	EN 60998	LR22207029TA

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 221-413	<u>↓</u>

Documentation			
Bid Text			
221-413	19.02.2019	xml 3.43 KB	$\overline{\downarrow}$
221-413	23.01.2019	docx 15.29 KB	$\underline{\downarrow}$
ausschreiben.de 221-413			$\underline{\downarrow}$



https://www.wago.com/221-413



#### 1 Compatible Products

#### 1.1 Optional Accessories

#### 1.1.1 General accessories

#### 1.1.1.1 Empty housings



#### Item No.: 207-4301

Junction box; Branch; for multicore cables; 221 Series; max. 4 mm² connectors; without splicing connectors; white

#### 1.1.1.2 Moisture protection



#### Item No.: 207-1331

Gelbox; Branch; for cables; with gel; 221, 2x73 Series; max. 4 mm² connectors; without splicing connectors; Size 1; gray

# Item No.: 207-1333

Gelbox; Branch; for cables; with gel; 221, 2x73 Series; max. 4 mm² connectors; without splicing connectors; Size 3; gray

#### 1.1.2 Jumper

#### 1.1.2.1 Jumper









Item No.: 221-941



Item No.: 221-941/000-006

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

## Item No.: 221-942/000-006

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

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

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

## 1.1.3 Mounting adapter

#### 1.1.3.1 Mounting accessories



## Item No.: 221-500/000-006

Mounting carrier; 221 Series - 4 mm<sup>2</sup>; for DIN-35 rail mounting/screw mounting; blue



## Item No.: 221-500/000-053

Item No.: 221-513/000-004

Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; dark gray-yellow



#### Item No.: 221-500

Mounting carrier; 221 Series - 4 mm²; for DIN-35 rail mounting/screw mounting; orange



#### Item No.: 221-503/000-004

Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; black



black

#### Item No.: 221-503

Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; for screw mounting; white



Mounting carrier; for 3-conductor termi-

nal blocks; 221 Series - 4 mm<sup>2</sup>; with snap-

in mounting foot for horizontal mounting;

#### Item No.: 221-513

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



#### Item No.: 221-523/000-004

Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; with snapin mounting foot for vertical mounting; black



#### 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



#### **Installation Notes**

#### **Conductor termination**



Strip conductor to 11 mm (0.43 inch).



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.



## Compact, lever-operated splicing connectors:

Tool-free connection of fine-stranded conductors from 0.14 ... 4 mm², as well as solid or stranded conductors from 0.2 ... 4 mm² (24 ... 12 AWG).

### 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.

## **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!