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



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





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

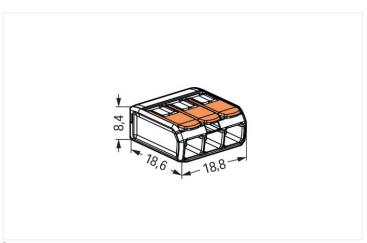












Dimensions in mm

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



Splicing connector with levers, 221 Series, lever

Enjoy easy electrical installations with splicing connector with levers (item number 221-413). From intercom system wiring to electric ovens—connecting different conductor types is quick and hassle-free with WAGO's compact 221 Series splicing connector. Our splicing connector is rated for 450 V and is designed to handle a rated current of up to 32 A. It is therefore suitable for high-load applications. Ensure that the strip lengths are 11 mm when connecting conductors to splicing connector with levers. This product features conductor terminals and utilizes CAGE CLAMP®. Our reliable and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. Dimensions: 18.8 x 8.4 x 18.6 mm (width x height x depth). Splicing connector with levers is suitable for conductor cross sections ranging from 0.2 mm² to 4 mm².

WAGO's 221 Series Splicing Connector with levers impresses with its innovative design for different conductor cross-sections. That's why WAGO's lever-equipped splicing connector holds a unique trademark within electrical interconnection technology. The flat levers, which fit seamlessly into the 221's base, act like a cast when closed and can be positioned neatly in any housing without disturbing edges. Due to the wide design of each leaver, they can all be operated perfectly without tools for convenient conductor terminations. The transparent housing displays robust technology and enables immediate visual inspection for the correct contact of solid, stranded and fine-stranded conductors. Resembling piano keys, the levers' design perfectly combines the functional and aesthetic connection technology "Made by WAGO." This product is designed for specific Ex applications (please refer to the product datasheet).

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



## **Notes**

General safety instructions

Safety Information

## NOTICE: Observe installation and safety instructions!

- Only to be used by electricians!
- Do not work under voltage/load!
- Use only for proper use!
- Observe national regulations/standards/guidelines!
- Observe technical specifications for the products!
  Observe the number of permissible potentials!
  Do not use damaged/dirty components!

- Observe conductor types, cross-sections and strip lengths!
- Insert conductor until it hits the product's backstop!
- Use original accessories!

## To be sold only with installation instructions!

in grounded power lines

Electrical data			
Ratings per		EN 60664	
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	-	450 V
Rated surge voltage	-	-	4 kV
Rated current	_	-	32 A

Approvals per		UL 486C	
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	20 A	-

Connection data	
Clamping units	3
Total number of potentials	1

Connection 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

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 make the constitution and he found have
	Information on material specifications can be found here
Color	transparent
Material group	Illa
Insulation material (main housing)	Polycarbonate (PC)
Flammability class per UL94	V2
Fire load	0.064 MJ
Actuator color	orange
Weight	2.5 g

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



Environmental requirements		
Ambient 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) pcs
Packaging type	Вох
Country of origin	DE
GTIN	4050821808442
Customs tariff number	85369010000

Product classification	
UNSPSC	39121409
eCl@ss 10.0	27-14-11-04
eCl@ss 9.0	27-14-11-04
ETIM 9.0	EC000446
ETIM 8.0	EC000446
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

## Approvals / Certificates

## General approvals









	9404	
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	71-152248
UL_Listed_64KA UL International Germany GmbH	UL 467	E201573

## Declarations of conformity and manufacturer's declarations

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

## Approvals for marine applications







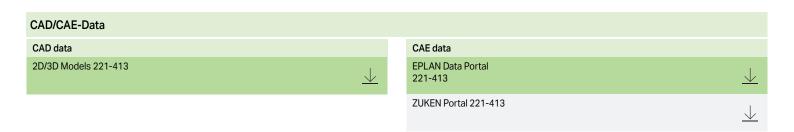
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	18-HG1755093-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	EN 60998	TAE000015T
LR Lloyds Register	EN 60998	LR22207029TA

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



## Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 221-413

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



# 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

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



## 1.1.2 Jumper

lated; blue

## 1.1.2.1 Jumper



Jumper; for conductor entry; 2-way; insu-

Item No.: 221-942/000-006

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



Item No.: 221-941

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



Item No.: 221-942

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

## 1.1.3 Mounting adapter

Item No.: 221-500/000-006

Item No.: 221-941/000-006

## 1.1.3.1 Mounting accessories



Mounting carrier; 221 Series - 4 mm<sup>2</sup>; for

DIN-35 rail mounting/screw mounting;

Item No.: 221-500/000-053

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



Mounting carrier; 221 Series - 4 mm<sup>2</sup>; for

DIN-35 rail mounting/screw mounting;

Item No.: 221-503/000-004

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



Item No.: 221-503

blue

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



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



Item No.: 221-500

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



Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm<sup>2</sup>; 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  $\dots$  4 mm², as well as solid or stranded conductors from 0.2  $\dots$  4 mm² (24  $\dots$  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.

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



## Application







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!

Current addresses can be found at:: www.wago.com

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