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



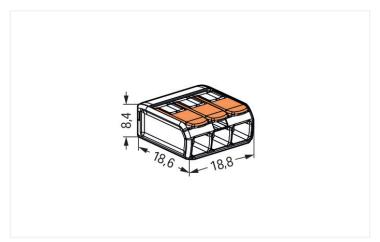


 $\hbox{Color:} \ \square \ \hbox{transparent}$









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).

Notes	
General safety instructions	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!
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				

onnection data				
Clamping units	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

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

ColortransparentMaterial groupIlla

Insulation material (main housing)

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 °C

Temperature marking per EN 60998 T85

Commercial data

 Product Group
 7 (Push Wire Conn.)

 PU (SPU)
 500 (50) pcs

 Packaging type
 Box

 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









	SAKA	
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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 221-413



Documentation

Bid Text			
221-413	19.02.2019	xml 3.43 KB	<u>↓</u>
221-413	23.01.2019	docx 15.29 KB	$\underline{\downarrow}$
ausschreiben.de 221-413			<u>↓</u>

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



CAD/CAE-Data

CAD data

2D/3D Models 221-413



CAE data

EPLAN Data Portal 221-413



ZUKEN Portal 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

lated; blue

1.1.2.1 Jumper



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



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 mm²; for

DIN-35 rail mounting/screw mounting;

Item No.: 221-500/000-053

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



Item No.: 221-500

Item No.: 221-513

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



Item No.: 221-503

blue

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

Item No.: 221-513/000-004

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

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

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1.1.3.1 Mounting accessories



Item No.: 221-523

Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; 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!