Data Sheet | Item Number: 221-413

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





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



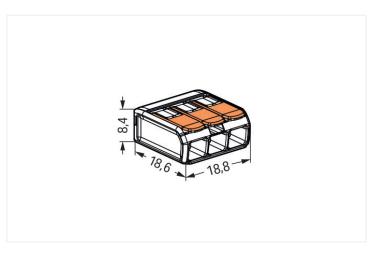






https://www.wago.com/221-413





Dimensions in mm

Splicing connector with levers, 221 Series, lever

Splicing connector with levers (item number 221-413) is designed for hassle-free electrical installations. From wiring intercom systems to installing electrical ovens, connecting different conductor types is quick and simple with WAGO's compact 221 Series splicing connector, which allows you to quickly and safely connect different types of conductors. Ensure that the strip lengths are 11 mm when connecting conductors to splicing connector with levers. This splicing connector has a rated voltage of 450 V and can handle currents up to 32 A, making it ideal for high-load applications. This product features conductor terminals and utilizes CAGE CLAMP®. Our highly-rated 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. The dimensions are (18.8 x 8.4 x 18.6) mm (width x height x depth). Depending on the type of conductor, splicing connector with levers is designed 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 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!
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	
Pollution degree	3	2	2	Rated voltage	-	600 V	
Nominal voltage	-	-	450 V	Rated current	-	20 A	
Rated impulse withstand voltage	-	-	4 kV				
Rated current	-	-	32 A				



onnection data				
Clamping units	3		Connection 1	
Total number of potentials	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

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 (main housing)	Polycarbonate (PC)
Flammability class per UL94	V2
Fire load	0.064 MJ
Actuator color	orange
Weight	2.5 a

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 10.0	EC000446
ECCN	NO US CLASSIFICATION



Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals









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	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	EN 60998	23-2417173-PDA
LR Lloyds Register	EN 60998	LR2446364TA
PRS Polski Rejestr Statków	EN 60998	TE/1093/880590/23

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 221-413



Documentation

Bid Text			
221-413	19.02.2019	xml 3.43 KB	$\underline{\downarrow}$
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

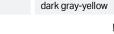
Item No.: 221-941/000-006

1.1.3.1 Mounting accessories



Item No.: 221-500/000-006

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



Item No.: 221-513/000-004

Item No.: 221-500/000-053

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

Mounting carrier; 221 Series - 4 mm²; for

DIN-35 rail mounting/screw mounting;

Item No.: 221-500

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



Item No.: 221-513

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

Item No.: 221-503/000-004

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



Item No.: 221-523/000-004

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



Item No.: 221-503

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



Data Sheet | Item Number: 221-413

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



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!

Current addresses can be found at:: $\underline{www.wago.com}$

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