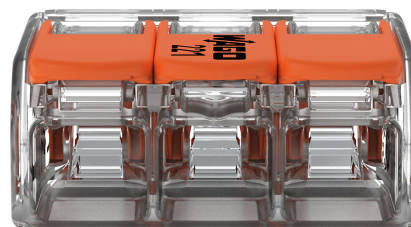
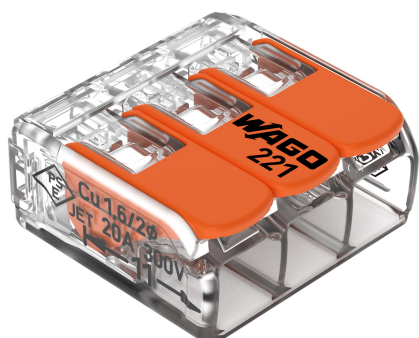


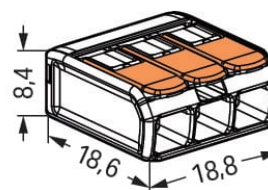
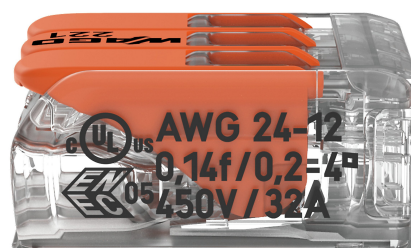
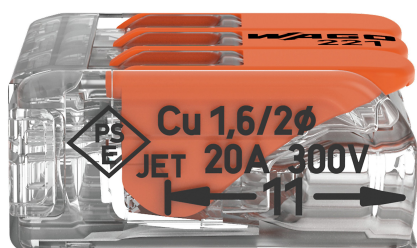
Data Sheet | Item Number: 221-413

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; trans-
parent

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



Color: ☐ transparent



Dimensions in mm



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
- 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 style="list-style-type: none">• 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		
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	B	C	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 material specifications can be found here	
Color	transparent	
Material group	IIIa	
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.)	
eCl@ss 10.0	27-14-11-04	
eCl@ss 9.0	27-14-11-04	
ETIM 9.0	EC000446	
ETIM 8.0	EC000446	
PU (SPU)	500 (50) pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4050821808442	
Customs tariff number	85369010000	

Environmental Product Compliance		
RoHS Compliance Status	Compliant, No Exemption	

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60998	NTR NL-7990	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
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			



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	↓
221-413	23.01.2019	docx 15.29 KB	↓
ausschreiben.de 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

1.1.2.1 Jumper



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



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

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.: 221-500/000-053
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



Item No.: 221-503
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 snap-in mounting foot for horizontal mounting; black



Item No.: 221-513
Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; white



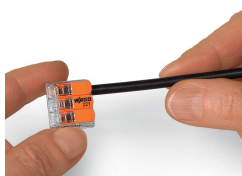
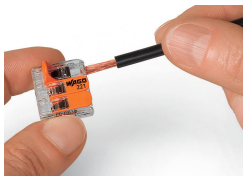
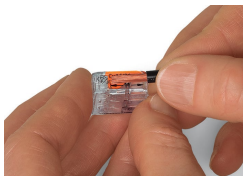
Item No.: 221-523/000-004
Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; black



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



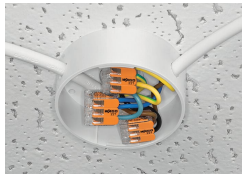
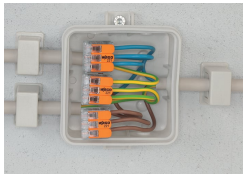
Strip conductor to 11 mm (0.43 inch).

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