

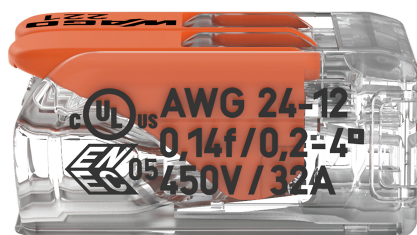
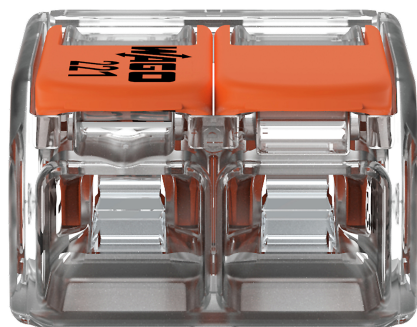
Data Sheet | Item Number: 221-412

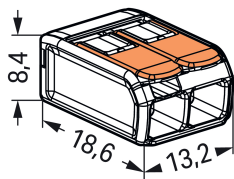
Splicing connector with levers; for all conductor types; max. 4 mm²; 2-conductor;
transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; trans-
parent

<https://www.wago.com/221-412>



Color: ☐ transparent





Dimensions in mm

Splicing connector with levers, 221 Series, lever

Our splicing connector with levers (item number 221-412) ensures effortless electrical installations. From wiring intercom systems to installing electrical ovens, connecting different conductor types is quick and hassle-free with WAGO's compact 221 Series splicing connector, which allows you to quickly and safely connect different types of conductors. This splicing connector has a rated voltage of 450 V and can handle currents up to 32 A, making it suitable for high-load applications. Ensure that the strip lengths are 11 mm when connecting conductors to splicing connector with levers. This product incorporates conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a proven and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The dimensions are 13.1 x 8.3 x 18.6 mm (width x height x depth). Depending on the type of conductor, 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 lever, 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! <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	2
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	13.1 mm / 0.516 inches
Height	8.3 mm / 0.327 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	0.049 MJ
Actuator color	orange
Weight	1.7 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)		1000 (100) pcs
Packaging type		Box
Country of origin		DE
GTIN		4050821808435
Customs tariff number		85369010000

Product classification		
UNSPSC		39121409

Environmental Product Compliance		
RoHS Compliance Status		Compliant,No Exemption

Approvals / Certificates

Declarations of conformity and manufacturer's declarations

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

Downloads




Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 221-412	

Documentation

Bid Text			
221-412	19.02.2019	xml 3.43 KB	
221-412	23.01.2019	docx 15.26 KB	
ausschreiben.de 221-412			








CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 221-412	EPLAN Data Portal 221-412
	
	ZUKEN Portal 221-412
	









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.: 207-1332 Gelbox; Branch; for cables; with gel; 221, 2x73 Series; max. 4 mm² connectors; without splicing connectors; Size 2; 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.: 221-502/000-004 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; black
			
Item No.: 221-502 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; white	Item No.: 221-512/000-004 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; black	Item No.: 221-512 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; white	Item No.: 221-522/000-004 Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; black

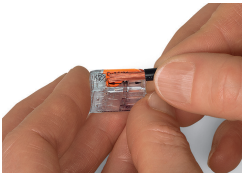
1.1.3.1 Mounting accessories



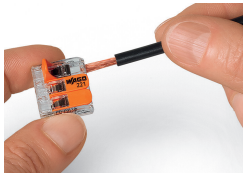
Item No.: 221-522
Mounting carrier; for 2-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; white

Installation Notes

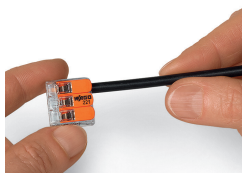
Conductor termination



Strip conductor to 11 mm (0.43 inch).



Pull up an orange lever to open the clamping unit.

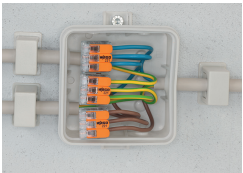


Then insert the conductor and push the lever back down, flush with the connector housing.

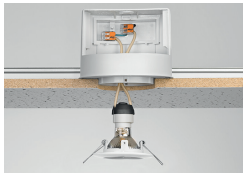


Compact, lever-operated splicing connectors:
Tool-free connection of fine-stranded conductors from 0.14 ... 4 mm², as well as solid or stranded conductors from 0.2 ... 4 mm² (24 ... 12 AWG).
Safety:
The lever's specially designed rest position reliably prevents accidental unclamping of a connected conductor.
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