

Data Sheet | Item Number: 221-413/995-012

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/221-413/995-012>



Color: ☐ transparent

Splicing connector with levers, 221 Series, CAGE CLAMP®

Splicing connector with levers (item number 221-413/995-012) simplifies 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. 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 suitable for high-load applications. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection provides a safe 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 (18.8 x 8.4 x 18.8) 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 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 item includes:



Item No.: 221-413	12
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	



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		
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	-	-	450 V	
Rated impulse withstand voltage	-	-	4 kV	
Rated current	-	-	32 A	
Approvals per		UL 486C		
Use group	B	C	D	
Rated voltage	-	600 V	-	
Rated current	-	20 A	-	

General information	
Wiring direction	Side-entry wiring

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	18.8 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		
PU (SPU)		216 (12) pcs
Packaging type		Blister foil
Country of origin		DE
GTIN		4066966001907
Customs tariff number		85369010000

Product Classification		
UNSPSC		39121409
ETIM 9.0		EC000446
ETIM 10.0		EC000446
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant,No Exemption

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Environmental Product Compliance

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Environmental Product Compliance
221-413/995-012

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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



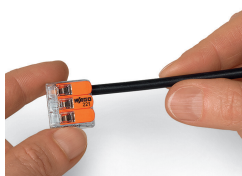
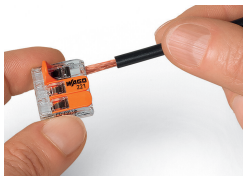
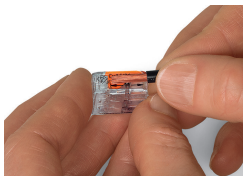
Item No.: 221-523/000-004
Mounting carrier; for 3-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; black



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



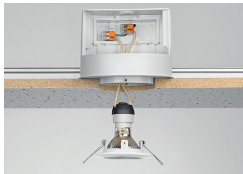
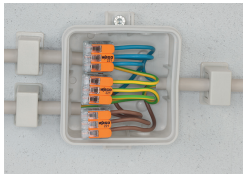
Strip conductor to 11 mm (0.43 inch).

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