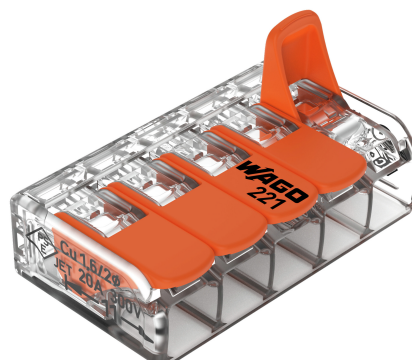
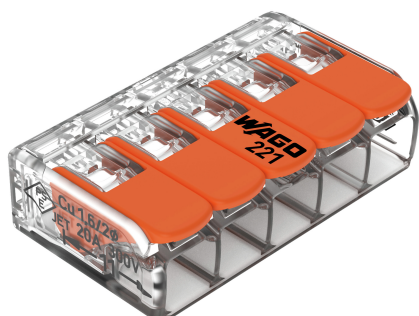


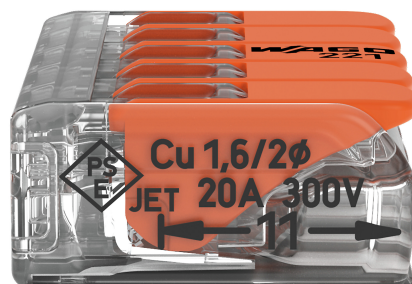
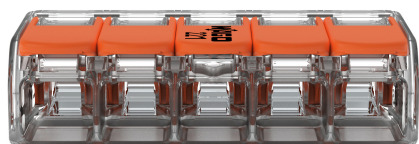
Data Sheet | Item Number: 221-415

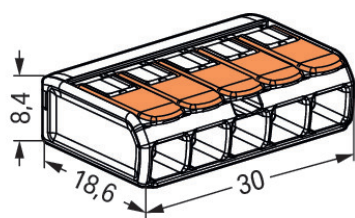
Splicing connector with levers; for all conductor types; max. 4 mm²; 5-conductor; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent

<https://www.wago.com/221-415>



Color: ☐ transparent





Dimensions in mm

Splicing connector with levers, 221 Series, CAGE CLAMP®

Enjoy convenient electrical installations with splicing connector with levers (item number 221-415). From intercom system wiring to electric ovens—connecting various conductor types is quick and hassle-free with WAGO's compact 221 Series splicing connector. Rated current and voltage are key factors to consider when selecting a splicing connector, as they indicate how the product can be used. This product has a rated voltage of 450 V and a rated current of 32 A, making it suitable for high-load applications. Strip lengths must be 11 mm when connecting conductors to splicing connector with levers. Featuring conductor terminals along with CAGE CLAMP®, this product is highly versatile. 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. Dimensions: 30 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 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	5
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	30 mm / 1.181 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	0.089 MJ
Actuator color	orange
Weight	4 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)		250 (25) pcs
Packaging type		Box
Country of origin		DE
GTIN		4055143234658
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 221-415	

Documentation

Bid Text			
221-415	19.02.2019	xml 3.43 KB	
221-415	23.01.2019	docx 15.31 KB	
ausschreiben.de 221-415			



CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 221-415	EPLAN Data Portal 221-415
	
	ZUKEN Portal 221-415
	

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.: 207-1332](#)
Gelbox; Branch; for cables; with gel; 221, 2x73 Series; max. 4 mm² connectors; without splicing connectors; Size 2; 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.: 221-505/000-004](#)
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; black



[Item No.: 221-505](#)
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; for screw mounting; white



[Item No.: 221-515/000-004](#)
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; black



[Item No.: 221-515](#)
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for horizontal mounting; white



[Item No.: 221-525/000-004](#)
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; black

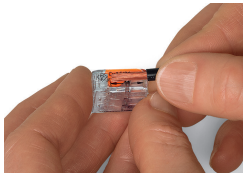
1.1.3.1 Mounting accessories



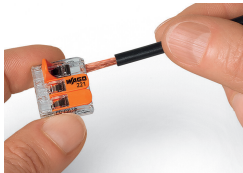
Item No.: 221-525
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; white

Installation Notes

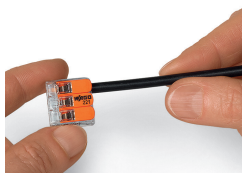
Conductor termination



Strip conductor to 11 mm (0.43 inch).



Pull up an orange lever to open the clamping unit.

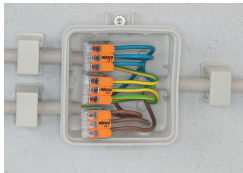


Then insert the conductor and push the lever back down, flush with the connector housing.



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