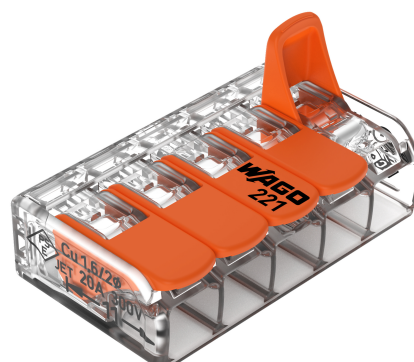
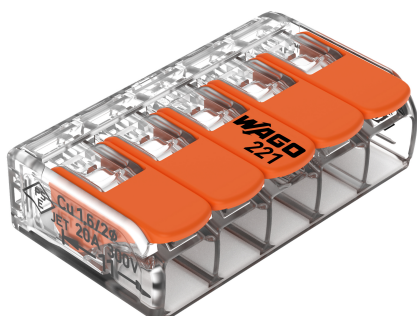


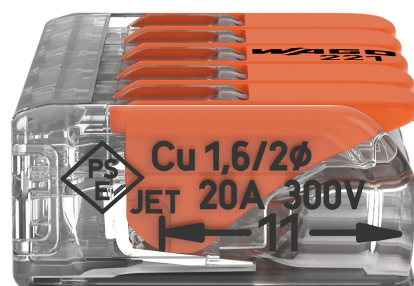
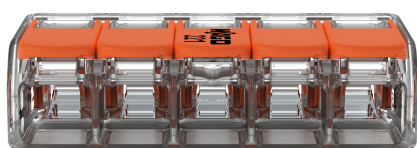
Data Sheet | Item Number: 221-415

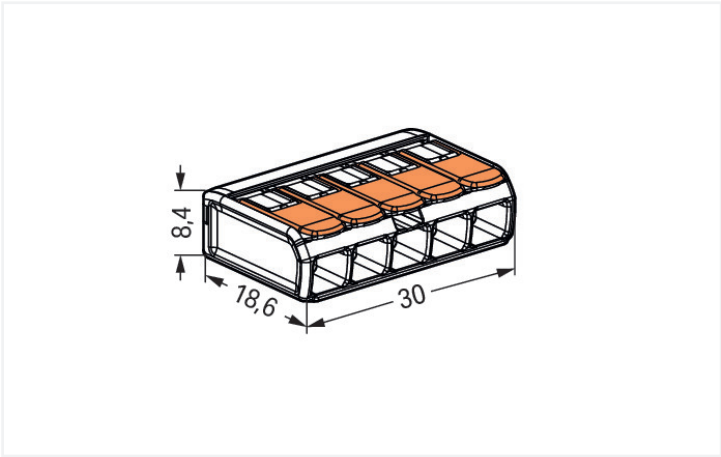
Splicing connector with levers; for all conductor types; max. 4 mm²; 5-conductor; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent

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



Color: ☐ transparent





Dimensions in mm

Splicing connector with levers, 221 Series, CAGE CLAMP®

Our splicing connector with levers (item number 221-415) is designed for seamless electrical installations. From intercom system wiring to electric ovens—connecting different conductor types is quick and hassle-free with WAGO's practical 221 Series splicing connector. 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. Featuring conductor terminals along with CAGE CLAMP®, this product is highly versatile. Our CAGE CLAMP® connection offers a dependable 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). Depending on the conductor type, splicing connector with levers is ideal 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 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!

in grounded power lines

Electrical data									
Ratings per		EN 60664			Approvals per		UL 486C		
Overvoltage category	III	III	II		Use group	B	C	D	
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						



General information	
Wiring direction	Side-entry wiring

Connection data																				
Clamping units	5	<div>Connection 1</div> <table><tr><td>Connection technology</td><td>CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Lever</td></tr><tr><td>Connectable conductor materials</td><td>Copper</td></tr><tr><td>Nominal cross-section</td><td>4 mm² / 12 AWG</td></tr><tr><td>Solid conductor</td><td>0.2 ... 4 mm² / 24 ... 12 AWG</td></tr><tr><td>Stranded conductor</td><td>0.2 ... 4 mm² / 24 ... 12 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.14 ... 4 mm² / 24 ... 12 AWG</td></tr><tr><td>Strip length</td><td>11 mm / 0.43 inches</td></tr><tr><td>Wiring direction</td><td>Side-entry wiring</td></tr></table>	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
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Fine-stranded conductor	0.14 ... 4 mm² / 24 ... 12 AWG																			
Strip length	11 mm / 0.43 inches																			
Wiring direction	Side-entry wiring																			
Total number of potentials	1																			

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	IIIa
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
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		Declarations of conformity and manufacturer's declarations									
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 Underwriters Laboratories Inc.	UL 467	E201573									
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Approval	Standard	Certificate Name									
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-									
UK-Declaration of Confor- mity 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 221-415	

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



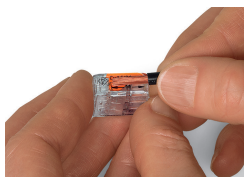
Item No.: 221-525/000-004
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; black



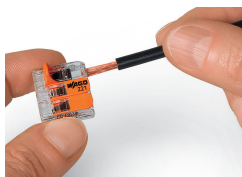
Item No.: 221-525
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; white

Installation Notes

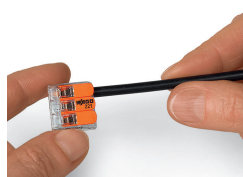
Conductor termination



Strip conductor to 11 mm (0.43 inch).



Pull up an orange lever to open the clamping unit.

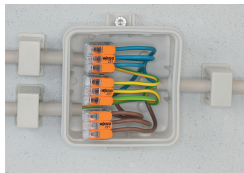


Then insert the conductor and push the lever back down, flush with the connector housing.



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