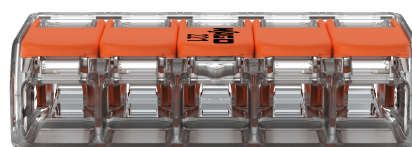


Data Sheet | Item Number: 221-415

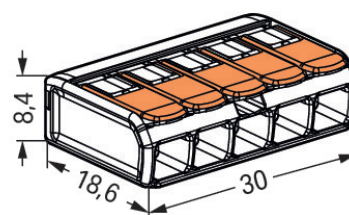
Splicing connector with levers; for all conductor types; max. 4 mm²; 5-conductor; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent



<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!	
Safety Information		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 surge voltage		-	-	4 kV			
Rated current		-	-	32 A			

Connection data			
Clamping units	5	Connection 1	
Total number of potentials	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		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 8.0		EC000446
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant,No Exemption



Approvals / Certificates

General approvals



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_Listed_64KA UL International Germany GmbH	UL 467	E201573

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	-	-

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 221-415



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

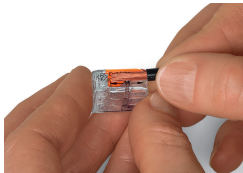
1.1.3.1 Mounting accessories



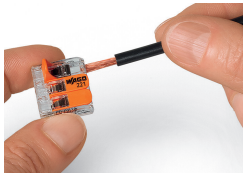
Item No.: 221-525
Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snap-in mounting foot for vertical mounting; white

Installation Notes

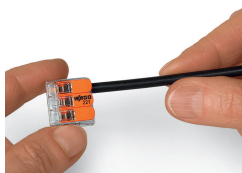
Conductor termination



Strip conductor to 11 mm (0.43 inch).



Pull up an orange lever to open the clamping unit.

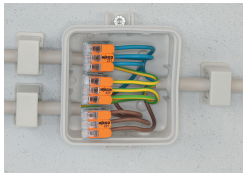


Then insert the conductor and push the lever back down, flush with the connector housing.

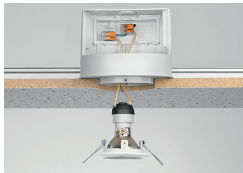


Compact, lever-operated splicing connectors:
Tool-free connection of fine-stranded conductors from 0.14 ... 4 mm², as well as solid or stranded conductors from 0.2 ... 4 mm² (24 ... 12 AWG).
Safety:
The lever's specially designed rest position reliably prevents accidental unclamping of a connected conductor.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