

Data Sheet | Item Number: 221-415

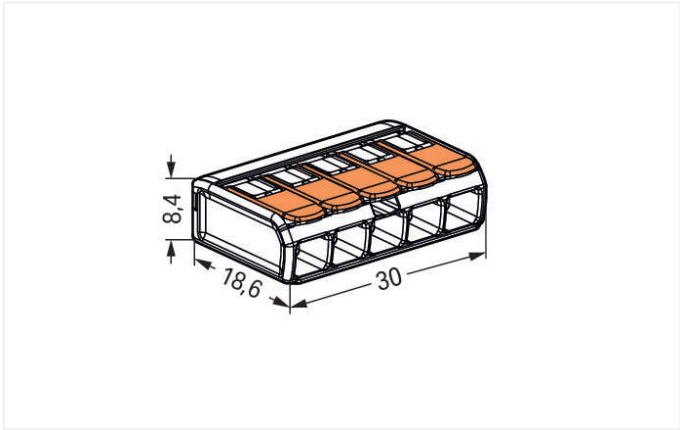
Splicing connector with levers; for all conductor types; max. 4 mm²; 5-conductor; transparent housing; Surrounding air temperature: max 85°C (T85); 4,00 mm²; transparent

<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!	
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 impulse withstand voltage		-	-	4 kV			
Rated current		-	-	32 A			

General information

Wiring direction	Side-entry wiring
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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 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
		Approval
		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

2D/3D Models 221-415	
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CAE data

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