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: \square transparent









Dimensions in mm

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

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 leaver, 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!
	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		Approvals per		UL 486C	
Overvoltage category	III	III	II	Use group	В	С	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	1	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

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



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

 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 Conformity 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	$\underline{\downarrow}$
221-415	23.01.2019	docx 15.31 KB	$\underline{\downarrow}$
ausschreiben.de 221-415			$\underline{\downarrow}$

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



CAD/CAE-Data

CAD data

2D/3D Models 221-415



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 snapin mounting foot for horizontal mounting;

Item No.: 221-515

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm2; with snapin mounting foot for horizontal mounting;

Item No.: 221-525/000-004

Mounting carrier; for 5-conductor terminal blocks; 221 Series - 4 mm²; with snapin mounting foot for vertical mounting; black

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



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

Subject to changes. Please also observe the further product documentation!