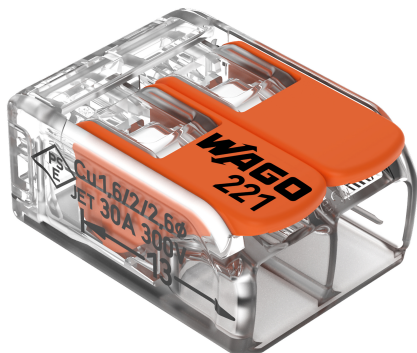


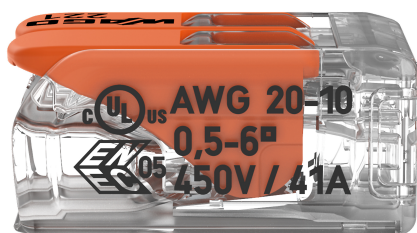
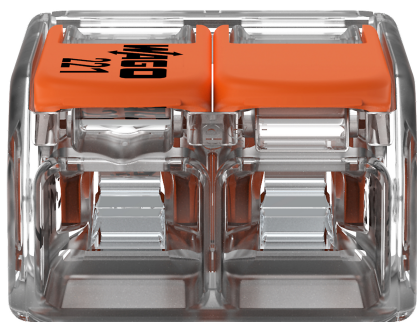
Data Sheet | Item Number: 221-612

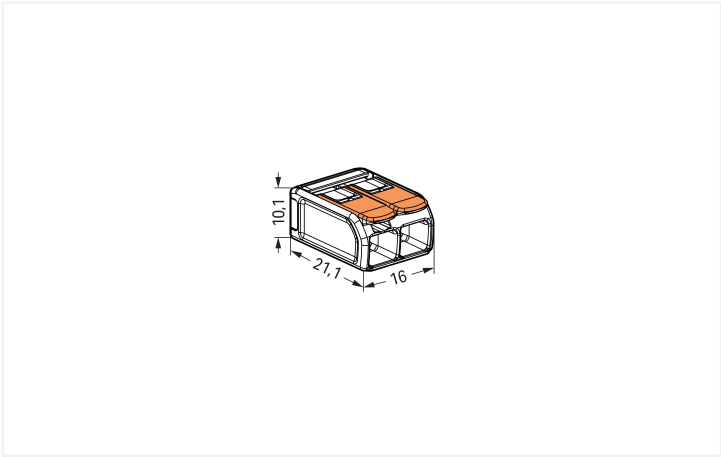
Splicing connector with levers; for all conductor types; max. 6 mm²; 2-conductor; transparent housing; Surrounding air temperature: max 85°C (T85); 6,00 mm²; transparent

<https://www.wago.com/221-612>



Color: ☐ transparent





Dimensions in mm

Splicing connector with levers, 221 Series, CAGE CLAMP®

Seamless electrical installations are guaranteed with this splicing connector with levers (item number 221-612). From intercom system wiring to electric ovens—connecting various conductor types is quick and easy with WAGO's compact 221 Series splicing connector. Strip lengths must be between 12 and 14 mm when connecting conductors to this splicing connector with levers. This splicing connector has a rated voltage of 450 V and can handle currents up to 41 A, making it suitable for high-load applications. This product features conductor terminals and utilizes CAGE CLAMP®. Our proven universal connection known as CAGE CLAMP® is industry-leading when it comes to connection technology and electrical interconnections. The item's dimensions are (16 x 10.1 x 21.1) mm (width x height x depth). This splicing connector with levers is suitable for conductor cross-sections ranging from 0.5 mm² to 6 mm².

This product is suitable for certain Ex applications (see product data sheet)

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).

- Suitable for specific Ex applications
- Compact sizes
- Safe and fast installation
- Actuation via lever

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
Safety Information	



Electrical data				
Ratings per		EN 60664		
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	-	-	450 V	
Rated impulse withstand voltage	-	-	4 kV	
Rated current	-	-	41 A	
Approvals per				
Use group	B	C	D	
Rated voltage	-	600 V	-	
Rated current	-	30 A	-	
General information				
Wiring direction	Side-entry wiring			
Connection Data				
Clamping units	2		Connection 1	
Total number of potentials	1		Connection technology	
			CAGE CLAMP®	
			Actuation type	
			Lever	
			Connectable conductor materials	
			Copper	
			Nominal cross-section	
			6 mm² / 10 AWG	
			Solid conductor	
			0.5 ... 6 mm² / 20 ... 10 AWG	
			Stranded conductor	
			0.5 ... 6 mm² / 20 ... 10 AWG	
			Fine-stranded conductor	
			0.5 ... 6 mm² / 20 ... 10 AWG	
			Strip length	
			12 ... 14 mm / 0.47 ... 0.55 inches	
			Wiring direction	
			Side-entry wiring	
Physical data				
Width			16 mm / 0.63 inches	
Height			10.1 mm / 0.398 inches	
Depth			21.1 mm / 0.831 inches	
Material data				
Note (material data)			Information on material specifications can be found here	
Color			transparent	
Cover color			transparent	
Material group			IIIa	
Insulation material (main housing)			Polycarbonate (PC)	
Flammability class per UL94			V2	
Fire load			0.046 MJ	
Actuator color			orange	
Weight			3 g	
Environmental requirements				
Ambient temperature (operation)			+85 °C	
Continuous operating temperature			105 °C	
Temperature marking per EN 60998			T85	



Commercial data	
PU (SPU)	500 (50) pcs
Packaging type	Box
Country of origin	CH
GTIN	4055143704168
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	
Product sustainability data	Link
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 60998	NL-123241
cULus_Listed_667F Underwriters Laboratories Inc.	UL 486C	E69654
ENEC 05 DEKRA Certification B.V.	EN 60998	71-168266
UL Underwriters Laboratories Inc.	UL 467	E201573

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Shipping	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 221-612

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Documentation

Bid Text

221-612	19.02.2019	xml 3.47 KB	Download icon
221-612	23.01.2019	docx 15.62 KB	Download icon

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CAD data

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CAE data

EPLAN Data Portal 221-612

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ZUKEN Portal 221-612

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1 Compatible Products

1.1 Optional Accessories

1.1.1 General accessories

1.1.1.1 Moisture protection

Item No.: 207-1431
Gelbox; Branch; for cables; with gel; 221 Series; max. 6 mm² connectors; without splicing connectors; Size 1; gray

Item No.: 207-1432
Gelbox; Branch; for cables; with gel; 221 Series; max. 6 mm² connectors; without splicing connectors; Size 2; gray

Item No.: 207-1433
Gelbox; Branch; for cables; with gel; 221 Series; max. 6 mm² connectors; without splicing connectors; Size 3; 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.: 221-510/000-006
Mounting carrier; 221 Series - 6 mm²; for DIN-35 rail mounting/screw mounting; blue



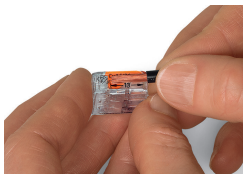
Item No.: 221-510/000-053
Mounting carrier; 221 Series - 6 mm²; for DIN-35 rail mounting/screw mounting; dark gray-yellow



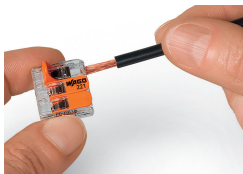
Item No.: 221-510
Mounting carrier; 221 Series - 6 mm²; for DIN-35 rail mounting/screw mounting; orange

Installation Notes

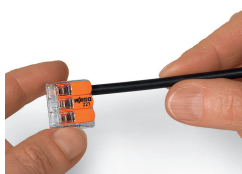
Conductor termination



Strip conductor to 12 ... 14 mm.

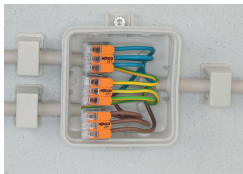


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



Then, lower the lever to close the clamp.

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



COMPACT Splicing Connectors for All Conductor Types (6 mm²), 221 Series