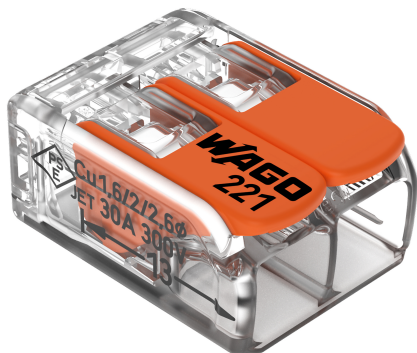


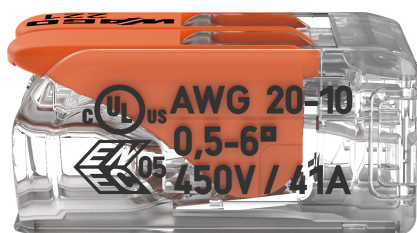
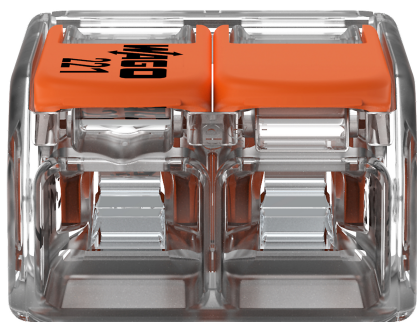
Data Sheet | Item Number: 221-612

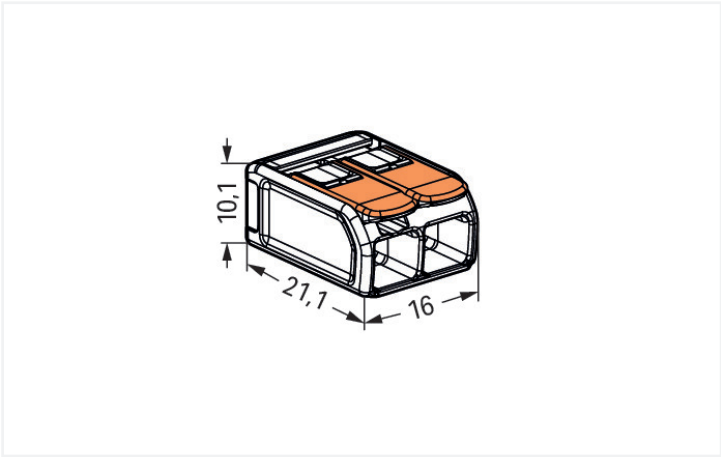
Splicing connector with levers; for all conductor types; max. 6 mm²; 2-conductor; transparent housing; Surrounding air temperature: max 85°C (T85); 6,00 mm²; transparent

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



Color: ☐ transparent





Dimensions in mm

Splicing connector with levers, 221 Series, transparent

Our splicing connector with levers (item number 221-612) ensures effortless electrical installations. From intercom system wiring to electric ovens—connecting different conductor types is quick and easy with WAGO's practical 221 Series splicing connector. Strip lengths must be between 12 and 14 mm when connecting conductors to splicing connector with levers. Our splicing connector is rated for 450 V and is designed to handle a rated current of up to 41 A. As such, it is suitable for high-load applications. 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. The item's dimensions are (16 x 10.1 x 21.1) mm (width x height x depth). Depending on the type of conductor, splicing connector with levers is suitable for conductor cross sections ranging from 0.5 mm² to 6 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!

Safety Information

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	-	30 A -
Rated impulse withstand voltage	-	-	4 kV				
Rated current	-	-	41 A				



General information	
Wiring direction	Side-entry wiring

Connection Data																				
Clamping units	2	Connection 1 <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>6 mm² / 10 AWG</td></tr><tr><td>Solid conductor</td><td>0.5 ... 6 mm² / 20 ... 10 AWG</td></tr><tr><td>Stranded conductor</td><td>0.5 ... 6 mm² / 20 ... 10 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.5 ... 6 mm² / 20 ... 10 AWG</td></tr><tr><td>Strip length</td><td>12 ... 14 mm / 0.47 ... 0.55 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	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
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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																			
Total number of potentials	1																			

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	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates											
General approvals		Declarations of conformity and manufacturer's declarations									
  											
Approval	Standard	Certificate Name									
CB DEKRA Certification B.V.	IEC 60998	NL-114612									
cULus_Listed_667F Underwriters Laboratories Inc.	UL 486C	E69654									
ENEC 05 DEKRA Certification B.V.	EN 60998	71-152265									
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 Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-
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/CAE-Data

CAD data

2D/3D Models 221-612

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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



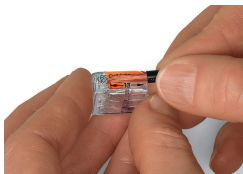
Item No.: 221-510/000-053
Mounting carrier; 221 Series - 6 mm²; for DIN-35 rail mounting/screw mounting; dark gray-yellow



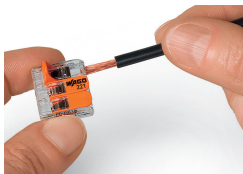
Item No.: 221-510
Mounting carrier; 221 Series - 6 mm²; for DIN-35 rail mounting/screw mounting; orange

Installation Notes

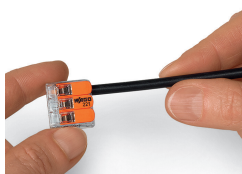
Conductor termination



Strip conductor to 12 ... 14 mm.

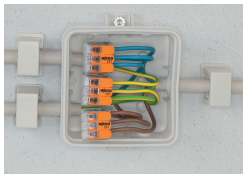


Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



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