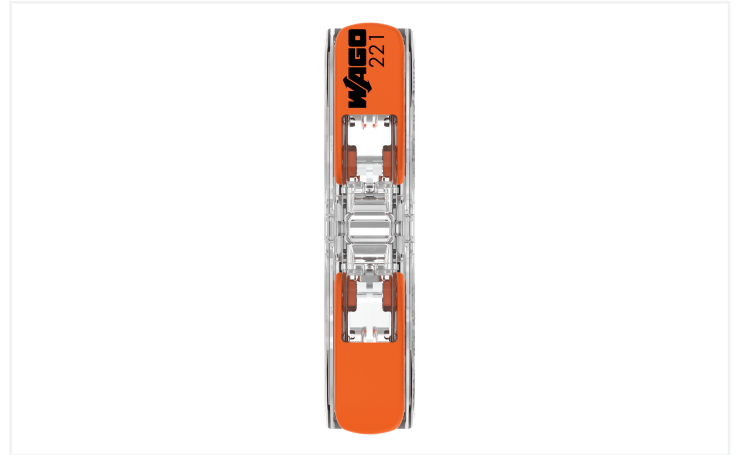


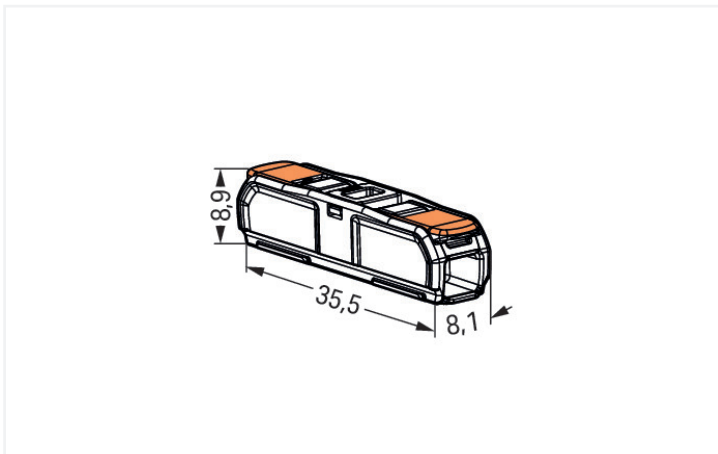
## Data Sheet | Item Number: 221-2411

Inline splicing connector with levers; for all conductor types; max. 4 mm<sup>2</sup>; 2-conductor; transparent housing; Transparent cover; Surrounding air temperature: max 85°C (T85); 4,00 mm<sup>2</sup>; transparent

<https://www.wago.com/221-2411>



Color:  transparent



Inline splicing connector with levers, 221 Series, lever

Inline splicing connector with levers (item number 221-2411) simplifies electrical installations. Whether for intercom system wiring or connecting electrical ovens, WAGO's 221 Series splicing connector allows you to quickly and safely connect different conductor types. Its compact design offers an efficient solution that simplifies your work. Ensure that the strip lengths are 11 mm when connecting conductors to inline splicing connector with levers. Rated current and voltage are important parameters 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 rat-

ed current of 32 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® leads the way when it comes to connection technology and electrical interconnections. Dimensions: (8.1 x 8.9 x 35.5) mm (width x height x depth). Inline splicing connector with levers is suitable for conductor cross sections ranging from 0.2 mm<sup>2</sup> to 4 mm<sup>2</sup>.

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."

Notes	
General safety information	<p><b>NOTICE: Observe installation and safety instructions!</b></p> <ul style="list-style-type: none"> <li>• <b>Only to be used by electricians!</b></li> <li>• Do not work under voltage/load!</li> <li>• Use only for proper use!</li> <li>• Observe national regulations/standards/guidelines!</li> <li>• Observe technical specifications for the products!</li> <li>• Observe the number of permissible potentials!</li> <li>• Do not use damaged/dirty components!</li> <li>• Observe conductor types, cross-sections and strip lengths!</li> <li>• Insert conductor until it hits the product's backstop!</li> <li>• Use original accessories!</li> </ul> <p><b>To be sold only with installation instructions!</b></p>

Electrical data				
Ratings per	EN 60664			Ratings per UL
Overvoltage category	III	III	II	Rated voltage UL (Use Group C) 600 V
Pollution degree	3	2	2	Rated current UL (Use Group C) 20 A
Nominal voltage	-	-	450 V	
Rated impulse withstand voltage	-	-	4 kV	
Rated current	-	-	32 A	

Connection Data		Connection 1	
Clamping units	2	Connection technology	CAGE CLAMP®
		Actuation type	Lever
		Connectable conductor materials	Copper
		Nominal cross-section	4 mm <sup>2</sup> / 14 AWG
		Solid conductor	0.2 ... 4 mm <sup>2</sup> / 20 ... 14 AWG
		Stranded conductor	0.2 ... 2.5 mm <sup>2</sup> / 18 ... 14 AWG
		Fine-stranded conductor	0.2 ... 4 mm <sup>2</sup> / 18 ... 14 AWG
		Strip length	11 mm / 0.43 inches

### Physical data

Width	8.1 mm / 0.319 inches
Height	8.9 mm / 0.35 inches
Depth	35.5 mm / 1.398 inches

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	transparent
Cover color	transparent
Material group	IIIa
Insulation material (main housing)	Polycarbonate (PC)
Flammability class per UL94	V2
Fire load	0.038 MJ
Actuator color	orange
Weight of insulation material	0.84 g
Weight	2.3 g

### Environmental requirements

Continuous operating temperature	-60 ... +105 °C
----------------------------------	-----------------

### Commercial data

PU (SPU)	600 (60) pcs
Packaging type	Box
Country of origin	CH
GTIN	4066966102666
Customs tariff number	85369010000

### Product Classification

UNSPSC	39121409
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



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.	-	71-152284
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 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 221-2411 <a href="#">↓</a>

**CAD/CAE-Data**

CAD data
2D/3D Models 221-2411 <a href="#">↓</a>

CAE data
EPLAN Data Portal 221-2411 <a href="#">↓</a>
ZUKEN Portal 221-2411 <a href="#">↓</a>

**1 Compatible Products**

**1.1 Optional Accessories**

**1.1.1 General accessories**

**1.1.1.1 Moisture protection**



**Item No.: 207-1372**  
Gelbox; inline connection; for cables; with gel; 221 Series; max. 4 mm<sup>2</sup> connectors; without splicing connectors; Size 1; gray

**Item No.: 207-1373**  
Gelbox; inline connection; for cables; with gel; 221 Series; max. 4 mm<sup>2</sup> connectors; without splicing connectors; Size 2; gray

**Item No.: 207-1375**  
Gelbox; inline connection; for cables; with gel; 221 Series; max. 4 mm<sup>2</sup> connectors; without splicing connectors; Size 3; gray

**1.1.2 Installation**

**1.1.2.1 Mounting accessories**



**Item No.: 221-2501**  
Mounting carrier with strain relief; 1-way; for inline splicing connector with lever; for screw mounting; gray

**Item No.: 221-2511**  
Mounting carrier with strain relief; 1-way; for inline splicing connector with lever; with snap-in mounting foot; gray

**Item No.: 221-2502**  
Mounting carrier with strain relief; 2-way; for inline splicing connector with lever; for screw mounting; gray

**Item No.: 221-2512**  
Mounting carrier with strain relief; 2-way; for inline splicing connector with lever; with snap-in mounting foot; gray

**1.1.2.1 Mounting accessories**



**Item No.: 221-2503**  
Mounting carrier with strain relief; 3-way; for inline splicing connector with lever; for screw mounting; gray



**Item No.: 221-2513**  
Mounting carrier with strain relief; 3-way; for inline splicing connector with lever; with snap-in mounting foot; gray



**Item No.: 221-2504**  
Mounting carrier with strain relief; 4-way; for inline splicing connector with lever; for screw mounting; gray



**Item No.: 221-2514**  
Mounting carrier with strain relief; 4-way; for inline splicing connector with lever; with snap-in mounting foot; gray



**Item No.: 221-2505**  
Mounting carrier with strain relief; 5-way; for inline splicing connector with lever; for screw mounting; gray



**Item No.: 221-2515**  
Mounting carrier with strain relief; 5-way; for inline splicing connector with lever; with snap-in mounting foot; gray



**Item No.: 221-2521**  
Mounting carrier; 1-way; for inline splicing connector with lever; for screw mounting; gray



**Item No.: 221-2531**  
Mounting carrier; 1-way; for inline splicing connector with lever; with snap-in mounting foot; gray



**Item No.: 221-2522**  
Mounting carrier; 2-way; for inline splicing connector with lever; for screw mounting; gray



**Item No.: 221-2532**  
Mounting carrier; 2-way; for inline splicing connector with lever; with snap-in mounting foot; gray



**Item No.: 221-2523**  
Mounting carrier; 3-way; for inline splicing connector with lever; for screw mounting; gray



**Item No.: 221-2533**  
Mounting carrier; 3-way; for inline splicing connector with lever; with snap-in mounting foot; gray



**Item No.: 221-2524**  
Mounting carrier; 4-way; for inline splicing connector with lever; for screw mounting; gray



**Item No.: 221-2534**  
Mounting carrier; 4-way; for inline splicing connector with lever; with snap-in mounting foot; gray



**Item No.: 221-2525**  
Mounting carrier; 5-way; for inline splicing connector with lever; for screw mounting; gray



**Item No.: 221-2535**  
Mounting carrier; 5-way; for inline splicing connector with lever; with snap-in mounting foot; gray



**Item No.: 209-123**  
Mounting foot with screw; can be screwed on terminal blocks with fixing flange; 6.4 mm wide; gray



**Item No.: 209-1116**  
Mounting foot with screw; for DIN-15 rail; can be screwed on terminal blocks with fixing flange; 6.5 mm wide; gray



**Item No.: 209-120**  
Mounting foot; can be snapped on terminal blocks with snap-in mounting foot; for mounting on relay-modules; 6.4 mm wide; gray



**Item No.: 209-1115**  
Mounting foot; for DIN-15 rail; can be snapped on terminal blocks with snap-in mounting foot; 6.5 mm wide; gray

**1.1.3 Marking**

**1.1.3.1 Marking strip**



**Item No.: 210-834**  
Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

**Installation Notes**

**Conductor termination**

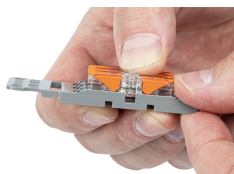
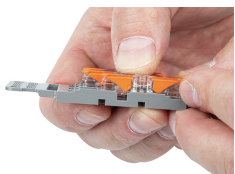


Push up the lever to open the clamping unit and insert the conductor.



Push the lever back down.

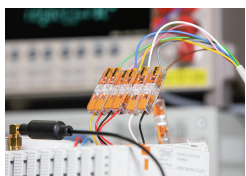
## Installation



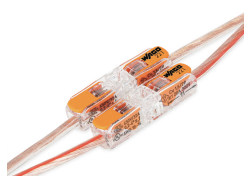
Place the inline splicing connector on the carrier in front of the mounting position.

Push the connector to the center position until it snaps into place.

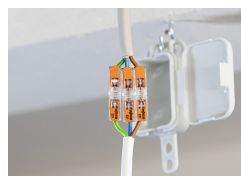
## Application



Perfect for test setups



Simple extension of lines



Lighting connection in suspended ceilings



Multi-pole, fixed lighting fixture wiring