

Data Sheet | Item Number: 221-2431

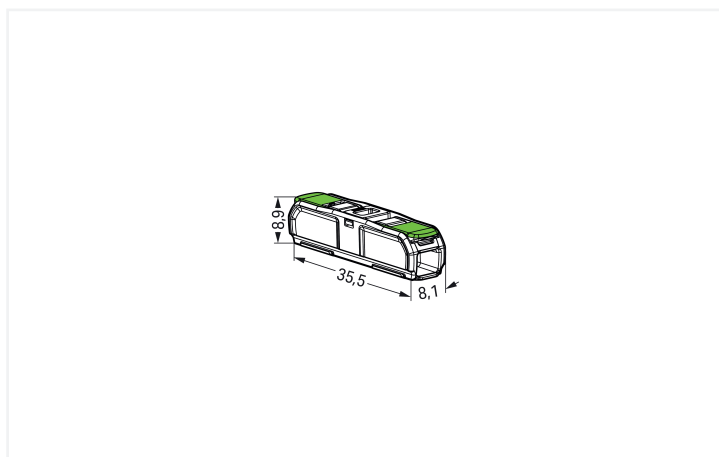
Inline splicing connector with levers; for all conductor types; max. 4 mm²; 2-conductor; transparent housing; Transparent cover; Surrounding air temperature: max 85°C (T85); transparent



<https://www.wago.com/221-2431>



Color: transparent



Dimensions in mm

Inline splicing connector with levers, 221 Series, transparent

Our inline splicing connector with levers (item number 221-2431) is designed for seamless 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. Strip lengths must be 11 mm when connecting conductors to inline splicing connector with levers. Rated current and voltage are key factors to consider when choosing a splicing connector, as they indicate possible applications and uses. This product has a rated voltage of 450 V and a rated 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® is industry-leading when it comes to connection technology and electrical interconnections. The dimensions are (8.1 x 8.9 x 35.5) mm (width x height x depth). Depending on the type of conductor, inline splicing connector with levers is designed 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."

Notes	
General safety information	<p>NOTICE: Observe installation and safety instructions!</p> <ul style="list-style-type: none"> • 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! <p>To be sold only with installation instructions!</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	
Clamping units	2
Connection 1	
Connection technology	CAGE CLAMP®
Actuation type	Lever
Connectable conductor materials	Copper
Nominal cross-section	4 mm ² / 14 AWG
Solid conductor	0.2 ... 4 mm ² / 20 ... 14 AWG
Stranded conductor	0.2 ... 2.5 mm ² / 18 ... 14 AWG
Fine-stranded conductor	0.2 ... 4 mm ² / 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)	Information on material specifications can be found here
Color	transparent
Cover color	transparent
Material group	IIIa
Housing material	bio-circular PC
Insulation material (main housing)	Polycarbonate (PC)
Insulation material (actuator)	Bio-circular PBT
Flammability class per UL94	V2
Fire load	0.055 MJ
Actuator color	green
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	DE
GTIN	4066966613261
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
cULus_Listed_667F Underwriters Laboratories Inc.	UL 486C	E69654
ENEC 05 DEKRA Certification B.V.	EN 60998	71-152248

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 221-2431



CAD/CAE-Data

CAD data

2D/3D Models 221-2431



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 mm² connectors; without splicing connectors; Size 1; gray



[Item No.: 207-1373](#)

Gelbox; inline connection; for cables; with gel; 221 Series; max. 4 mm² connectors; without splicing connectors; Size 2; gray



[Item No.: 207-1375](#)

Gelbox; inline connection; for cables; with gel; 221 Series; max. 4 mm² 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



[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

1.1.2.1 Mounting accessories



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

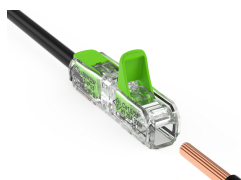
Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

Installation Notes

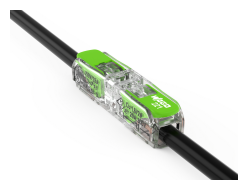
Conductor termination



Strip conductor to 11 mm.



Open the clamping point by operating the lever. Inserting the conductor.



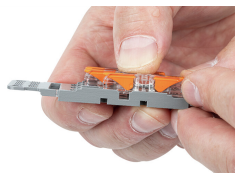
Close the lever.

Testing

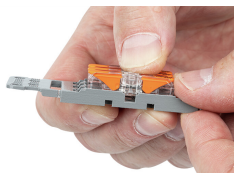


Testing via test slot.

Installation



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

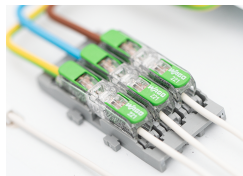


Push the connector to the center position until it snaps into place.

Application



Lighting connection in suspended ceilings



Multi-pole, fixed lighting fixture wiring