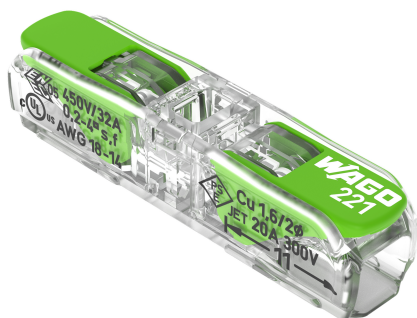


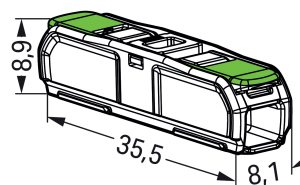
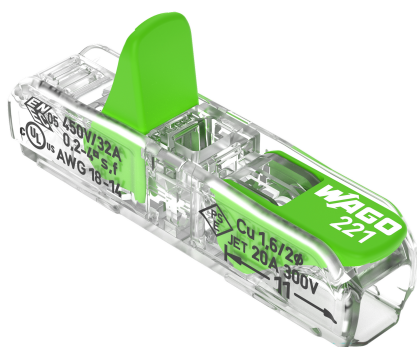
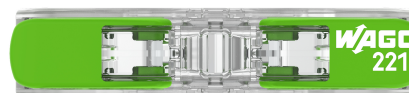
Data Sheet | Item Number: 221-2431

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

Durchgangsverbinder mit Hebeln Serie 221, transparent

Bei Durchgangsverbinder mit Hebeln (Artikelnummer 221-2431) ist eine reibungslose Elektroinstallation der Fokus. Von der Sprechanlagenverdrahtung bis zum Anschluss eines Elektroherdes: Die Verbindung verschiedener Leiterarten übernimmt die kompakte Verbindungsklemme der Serie 221 schnell und sicher. Bei Durchgangsverbinder mit Hebeln ist für den Leiteranschluss eine Abisolierlänge im Bereich von 11 mm erforderlich. Die Verbindungsklemmen mit einer Bemessungsspannung von 450 V sind für einen Bemessungsstrom bis 32 A ausgelegt. Sie können deshalb auch für leistungsstarke Verbraucher verwendet werden. Dieses Produkt basiert auf der CAGE CLAMP®-Technologie. Mit dem CAGE CLAMP® Universalanschluss steht Ihnen eine zuverlässige und wartungsfreie Anschlusstechnik zur Verfügung, um sämtliche Leiterarten mithilfe einer Käfigzugfeder anzuschließen. Es ist keine Vorbehandlung der Leiter notwendig, beispielsweise durch das Aufcrimpen von Aderendhülsen. Die Maße betragen in Breite x Höhe x Tiefe (8,1 x 8,9 x 35,5) mm. In Abhängigkeit von der Leiterart eignet sich Durchgangsverbinder mit Hebeln für Leiterquerschnitte von 0,2 mm² bis 4 mm².

Die Verbindungsklemme mit Hebel aus der Serie 221 besticht durch ihr innovatives Design für verschiedene Leitungsquerschnitte. Die WAGO-Klemme mit Hebel ist dadurch ein unverwechselbares Markenzeichnen in der elektrischen Verbindungstechnik. Die flachen Hebel, die sich nahtlos in den Grundkörper der 221 einfügen, wirken im geschlossenen Zustand wie aus einem Guss und sind sauber in jedem Gehäuse zu positionieren ohne störende Kanten. Durch die breite Bauform der einzelnen Hebelglieder, sind diese perfekt werkzeuglos zu betätigen für komfortables Verbinden der Leiter. Das transparente Gehäuse zeigt die robuste Technik und ermöglicht die sofortige Sichtkontrolle für den normativ korrekten Kontakt eindrätiger, mehrdrätiger und feindrätiger Leiter. Die Klaviaturoptik der Hebel stellt eine perfekte Kombination der funktionellen und ästhetischen Verbindungstechnik "Made by WAGO" dar.

Der neue Durchgangsverbinder mit Hebeln Green Range besteht neben einem Anteil aus Regranulat aus 77 % biozirkulärem PC (Gehäuse) und mindestens 27 % recyceltem PBT (Hebel).

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!

Electrical data			
Ratings per		EN 60664	
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	-	450 V
Rated surge voltage	-	-	4 kV
Rated current	-	-	32 A

Ratings per UL	
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	20 A

Connection data	
Clamping units	2

Connection 1	
Connection technology	CAGE CLAMP®
Actuation type	Lever
Connectable conductor materials	Copper
Nominal cross-section	4 mm² / 14 AWG
Solid conductor	0.2 ... 4 mm² / 20 ... 14 AWG
Stranded conductor	0.2 ... 2.5 mm² / 18 ... 14 AWG
Fine-stranded conductor	0.2 ... 4 mm² / 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	Illa
Housing material	bio-circular PC
Insulation material (main housing)	Polycarbonate (PC)
Insulation material (actuator)	bio-circular PBT
Flammability class per UL94	V2
Fire load	0.066 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 8.0	EC000446
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates			Declarations of conformity and manufacturer's declarations		
General approvals					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
cULus_Listed_667F Underwriters Laboratories Inc.	UL 486C	E69654	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 221-2431

↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 General accessories

1.1.1.1 Moisture protection



Item No.: 207-1375
Gelbox; Durchgangsverbindung; für Aderleitungen; mit Gel; Serie 221, max. 4mm²-Klemmen; ohne Verbindungsklemmen; Größe 3; grau



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

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



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



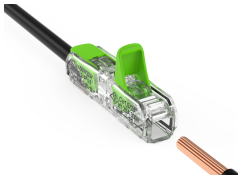
Item No.: 210-834
Marking strips; on reel; 5 mm wide; plain;
Self-adhesive; white

Installation Notes

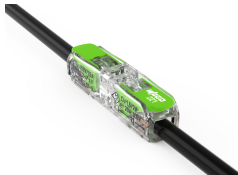
Conductor termination



Strip conductor to 11 mm.



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



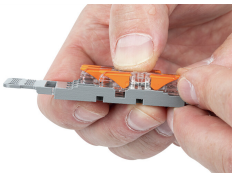
Close the lever.

Testing

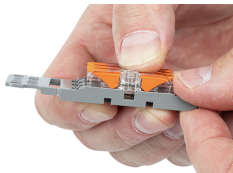


Testing via test slot.

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