

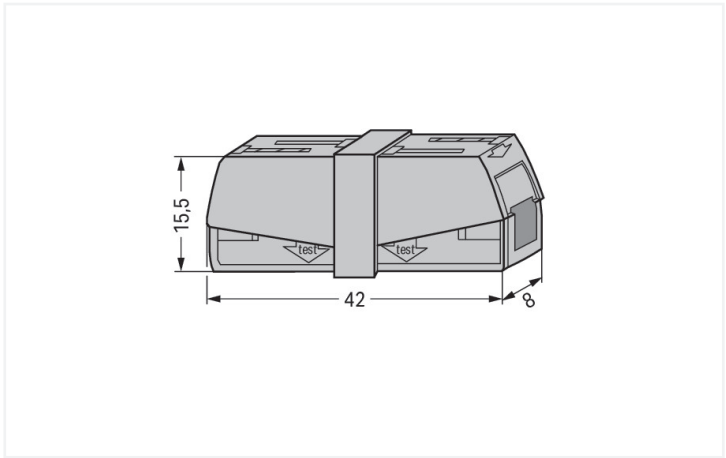
Data Sheet | Item Number: 224-201

Service connector; push-button on both sides; Lighting side: for all conductor types; Inst. side: for solid conductors; 224 Series; max. 2.5 mm²; Surrounding air temperature: max 60°C; 2,50 mm²; gray

<https://www.wago.com/224-201>



Color: ■ gray



Dimensions in mm

Lighting connector, 224 Series, CAGE CLAMP®

Connecting conductors is quick and easy with this lighting connector (item number 224-201). WAGO's 224 Series lighting connectors simplify the connection of fine-stranded and solid conductors. Connecting lights is a piece of cake—for quick, easy, and reliable connections. Wherever you need this type of connection, e.g., in office buildings, homes, or other locations, our 224 Series is sure to impress. Our splicing connector is rated for 400 V and is designed for use with a rated current of up to 24 A. It can therefore be used in high-load applications. Strip lengths must be between 9 mm and 11 mm when connecting conductors to this lighting connector. This product features conductor terminals and utilizes CAGE CLAMP®. Our reliable and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. The dimensions are 8 x 15.5 x 42 mm (width x height x depth). This lighting connector is suitable for conductor cross sections ranging from 0.5 mm² to 2.5 mm².

Notes		
Safety Information	in grounded power lines	

Electrical data			
Ratings per		EN 60664	
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	-	400 V
Rated surge voltage	-	-	4 kV
Rated current	-	-	24 A

Connection data			
Clamping units	2	Connection 1	
Total number of potentials	1	Connection technology	CAGE CLAMP®
		Actuation type	Push-in
		Connectable conductor materials	Copper Aluminum

Connection 1

Connectable conductor materials (note)

Terminating Aluminum Conductors (not for use in North America) WAGO Spring-Clamp Terminal Blocks are also suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO “Alu-Plus” Contact Paste [249-130](#) is used for termination.

“Alu-Plus” Contact Paste Advantages:

- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately inserted into the clamping units filled with “Alu-Plus” contact paste.

It is also possible to apply WAGO “Alu-Plus” **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors::

2.5 mm² = 16 A
4 mm² = 22 A

Solid conductor	0.5 ... 2.5 mm² / 20 ... 16 AWG
Fine-stranded conductor	0.5 ... 2.5 mm² / 20 ... 16 AWG
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches
Wiring direction	Side-entry wiring

Physical data	
Width	8 mm / 0.315 inches
Height	15.5 mm / 0.61 inches
Depth	42 mm / 1.654 inches

Material data	
Note (material data)	Information on material specifications can be found here
Color	gray
Fire load	0.097 MJ
Weight	4.6 g

Environmental requirements	
Ambient temperature (operation)	+60 °C





Commercial data	
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918818407
Customs tariff number	85369010000





Product classification	
UNSPSC	39121409
eCl@ss 10.0	27-14-11-03
eCl@ss 9.0	27-14-11-03
ETIM 9.0	EC000446
ETIM 8.0	EC000447
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	Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1053495	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UL UL International Germany GmbH	UL 486C	E69654	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UL UL International Germany GmbH	EN 60998	CCA-2617-A1			
UL UL International Germany GmbH	EN 60998	D-05895-A1 (EN60998-1 EN60998-2-2)			
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 60998	40022792			

Approvals for marine applications

   					
Approval	Standard	Certificate Name			
ABS American Bureau of Ship- ping	-	18-HG1755093-PDA			
BV Bureau Veritas S.A.	EN 60998	11914/D0 BV			
DNV GL Det Norske Veritas, Ger- manischer Lloyd	EN 60998	TAE000015T			
LR Lloyds Register	EN 60998	LR22207029TA			



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 224-201			

Documentation

Bid Text			
224-201	19.02.2019	xml 3.12 KB	
224-201	21.02.2019	docx 15.18 KB	

CAD/CAE-Data

CAD data	
2D/3D Models 224-201	

CAE data	
EPLAN Data Portal 224-201	
WSCAD Universe 224-201	
ZUKEN Portal 224-201	

1 Compatible Products

1.1 Optional Accessories

1.1.1 Tool

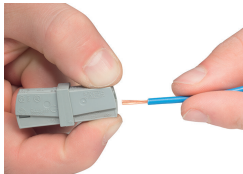
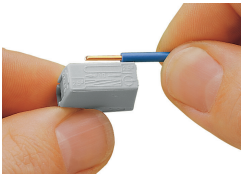
1.1.1.1 "Alu-Plus" contact paste



Item No.: 249-130
Syringe; Contents: 20 ml Alu-Plus contact paste

Installation Notes

Conductor termination



Strip conductor to 9 ... 11 mm (0.35 ... 0.43 inch).

To connect: Press button fully, insert stripped conductor into square entry and release.

Application



Service connector