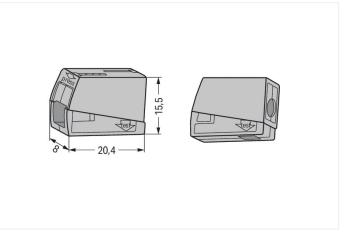
Lighting connector; push-button on lighting side; Lighting side: for all conductor types; Inst. side: for solid conductors; 224 Series; max. 2.5 mm²; Surrounding air temperature: max 60°C; 2,50 mm²; gray



https://www.wago.com/224-101





Color: gray

Dimensions in mm

Lighting connector, 224 Series, PUSH WIRE®

Our lighting connector (item number 224-101) is the perfect way to connect conductors quickly and easily. WAGO's 224 Series lighting connectors simplify the connection of fine-stranded and solid conductors. Connecting lights is a straightforward task—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. Rated current and voltage are key factors to consider when selecting a splicing connector, as they determine the product's suitability for different applications. This product has a rated voltage of 400 V and a rated current of 24 A, making it suitable for high-load applications. Conductors should only be connected to this lighting connector if their strip length is between 9 mm and 11 mm. This product incorporates conductor terminals and utilizes PUSH WIRE® and CAGE CLAMP®. Our PUSH WIRE® connection uses the stiffness of the conductor to overcome the clamping spring's contact force, allowing you to clamp the conductor in place more quickly and easily. Our CAGE CLAMP® connection offers a convenient 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. Dimensions: 8 x 15.5 x 20.4 mm (width x height x depth). Depending on the type of conductor, this lighting connector is suitable for conductor cross sections ranging from 1 mm² to 2.5 mm² on one side and for conductor cross sections from 0.5 mm² to 2.5 mm² on the other side.

Notes

Safety Information

in grounded power lines

Electrical data			
Ratings per		EN 60664	
Overvoltage category	III	Ш	Ш
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 type 1	Installation side
		Connection technology	PUSH WIRE®
		Number of connection points	1

Actuation type

Connectable conductor materials

Push-in

Copper Aluminum

https://www.wago.com/224-101

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 <u>249-130</u> 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.

For spring clamp connections with PUSH WIRE® connection technology, **WAGO recommends that the aluminum conductor first be cleaned** and then immediately inserted into the clamping unit 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	1 2.5 mm² / 14 12 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	20.4 mm / 0.803 inches

Material data	
Note (material data)	Information on material specifications can be found here
	information on material specifications can be found here
Color	gray
Fire load	0.04 MJ
Weight	1.8 g



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Connection type	Lighting side
Connection technology	CAGE CLAMP®
Number of connection points	1
Solid conductor	0.5 2.5 mm² / 20 16 AWG
Fine-stranded conductor	0.5 2.5 mm² / 20 16 AWG

https://www.wago.com/224-101



Environmental requirements		
Ambient temperature (operation)	+60 °C	
Continuous operating temperature	105 °C	

Commercial data	
eCl@ss 10.0	27-14-11-03
eCl@ss 9.0	27-14-11-03
ETIM 9.0	EC000446
ETIM 8.0	EC000447
PU (SPU)	1000 (100) pcs
Packaging type	Box
Country of origin	СН
GTIN	4044918583817
Customs tariff number	85369010000

Compliant,No Exemption

Environmental Product Compliance

RoHS Compliance Status

Approvals / Certificates

General approvals

	CCA 🛈 🗠	DE
Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1053495
UL UL International Germany GmbH	UL 486C	E69654
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

Declarations of conformity and manufacturer's declarations

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

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

https://www.wago.com/224-101

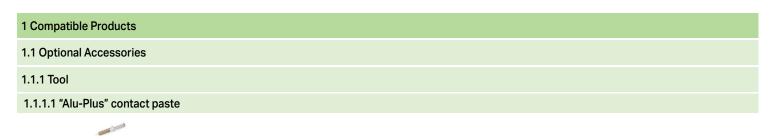


Downloads
Environmental Product Compliance
Compliance Search
Environmental Product Compliance 224-101

Documentation

Bid Text			
224-101	19.02.2019	xml 3.44 KB	\downarrow
224-101	21.02.2019	docx 15.52 KB	\downarrow

D/CAE-Data	
CAD data	CAE data
2D/3D Models 224-101	EPLAN Data Portal 224-101
	WSCAD Universe 224-101
	ZUKEN Portal 224-101



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

Installation Notes

Conductor termination



Lighting Connectors (2.5 mm²), 224 Series



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

https://www.wago.com/224-101



Conductor termination





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



To remove: Press button and withdraw conductor.

Conductor termination





To connect: Insert stripped solid conductor into circular entry and push until it hits the backstop.



To remove: Hold conductor to be removed and twist alternately left and right while slightly pulling the connector.





Testing via separate test ports.



Connecting solid conductors with finestranded conductors via lighting connectors (224-101).



Subject to changes. Please also observe the further product documentation!