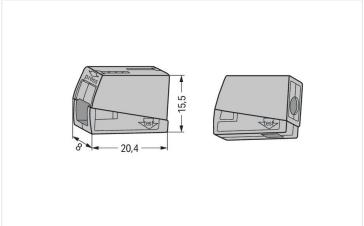
Lighting connector; push-button on lighting side; Lighting side: for all conductor types; Inst. side: for solid conductors; 224 Series; max. 2.5 mm²; Surrounding air temperature: max 60°C; 2,50 mm²; gray



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





Dimensions in mm

Notes Safety information 1 in grounded power lines

Electrical data	
Ratings per IEC/EN	
Ratings per	EN 60664
Nominal voltage (II/2)	400 V
Rated surge voltage (II/2)	4 kV
Rated current	24 A
Legend (ratings)	(II / 2) ≙ Overvoltage category II / Pollution degree 2

nnection data			
Total number of connection points	2	Connection 1	
Total number of potentials 1	Connection type 1	Installation side	
	Connection technology	PUSH WIRE®	
		Number of connection points	1
	Actuation type	Push-in	
		Connectable conductor materials	Copper Aluminum

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Connection 1

Connectable conductor materials (note)

Terminating Aluminum Conductors WAGO spring clamp terminal blocks are 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 be 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
Abisolierlänge	9 11 mm / 0.35 0.43 inches

Wiring direction Side-entry wiring

Connection 2	
Connection type 2	Lighting side
Connection technology 2	CAGE CLAMP®
Number of connection points 2	1
Solid conductor 2	0.5 2.5 mm² / 20 16 AWG
Fine-stranded conductor 2	0.5 2.5 mm² / 20 16 AWG

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 data can be found here
Color	gray
Fire load	0.04 MJ
Weight	1.8 g

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



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

Commercial data	
eCl@ss 10.0	27-14-11-03
eCl@ss 9.0	27-14-11-03
ETIM 8.0	EC000447
ETIM 7.0	EC000447
PU (SPU)	1000 (100) Stück
Packaging type	Box
Country of origin VKOrg Germany	CH
GTIN	4044918583817
Customs tariff number VKOrg Germany	85369010000

Approvals and certificates

General approvals











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-	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

rungsinstitut

Environmental Product Compliance

Compliance Search

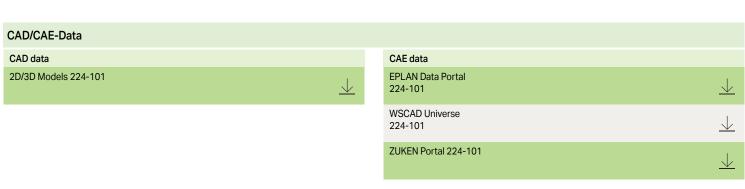
Environmental Product Compliance 224-101



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







1 Compatible products

1.1 Optional accessories

1.1.1 Tool

1.1.1.1 "Alu-Plus" contact paste



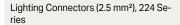
<u>Item no.: 249-130</u>

Syringe; Contents: 20 ml Alu-Plus contact paste

Installation notes

Conductor termination







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

Conductor termination





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



To remove: Press button and withdraw conductor.

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



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



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!