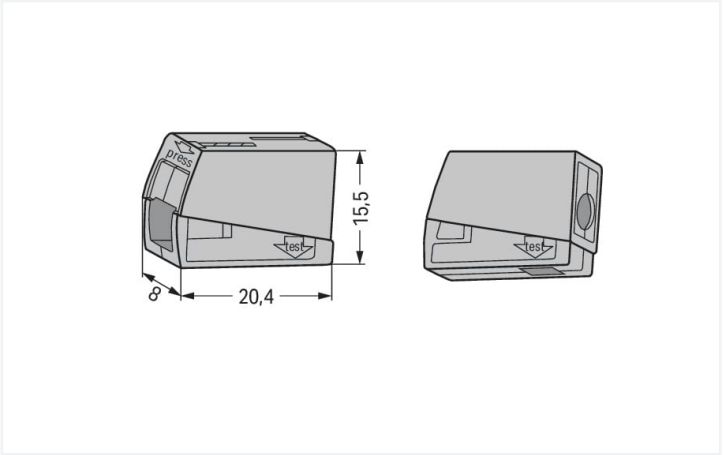
Data Sheet | Item Number: 224-111

Lighting connector; push-button on lighting side; Alu-Plus contact paste; 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/224-111

Color: gray



Dimensions in mm

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
Total number of potentials	1

Connection 1

Connection type 1	Installation side
Connection technology	PUSH WIRE®
Number of connection points	1
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 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 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
Strip length	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 specifications can be found here
Color	gray
Fire load	0.04 MJ
Weight	1.9 g

Environmental requirements

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

Commercial data

ETIM 8.0	EC000446
ETIM 7.0	EC000447
PU (SPU)	100 pcs
Country of origin	CH
GTIN	4044918583886
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 224-111

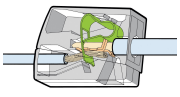
Documentation

Bid Text

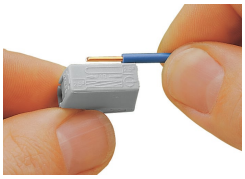
224-101	19.02.2019	xml 3.44 KB	
224-101	21.02.2019	docx 15.52 KB	

Installation Notes

Conductor termination



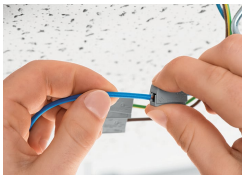
Lighting Connectors (2.5 mm²), 224 Series



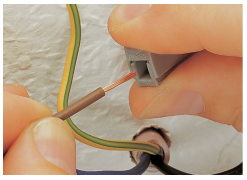
Strip conductor to 9 … 11 mm (0.35 … 0.43 inch).

 Continued on next page

Conductor termination

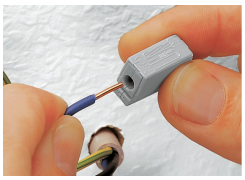


To connect: Press button fully, insert stripped conductor into square entry and release.

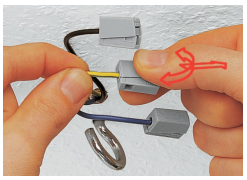


To remove: Press button and withdraw conductor.

Conductor termination



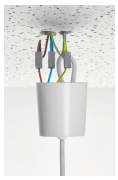
To connect: Insert stripped solid conductor into circular entry and push until it hits the backstop.



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

Testing

Testing via separate test ports.



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