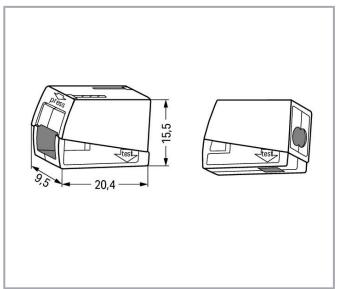
2-conductor lighting connector; push-button on lighting side; Lighting side: for all conductor types; Inst. side: for solid conductors; 224 Series; max. 2.5 mm²; Surrounding air temperature: max 60°C; 2,50 mm²; white



www.wago.com/224-112





 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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#### Item description

#### Note:

#### **Terminating Aluminum Conductors**

WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm<sup>2</sup>/12 AWG if WAGO "Alu-Plus" Contact Paste 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.

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::

 $2.5 \text{ mm}^2 = 16 \text{ A}$ 

4 mm<sup>2</sup> = 22 A

#### Safety information 1:

in grounded power lines

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

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#### Data

#### **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

#### Connection data

Connection type (1)	Installation side
Connection technology	PUSH WIRE®
Number of connection points (connection type)	2
Actuation type	Push-in
Connectable conductor materials	Copper Aluminum
Solid conductor	1 2.5 mm² / 16 14 AWG
Strip length	9 11 mm / 0.35 0.43 inch
Connection type 2	Lighting side
Connection technology 2	CAGE CLAMP®
Number of connection points	1
Solid conductor 2	0.5 2.5 mm² / 20 14 AWG
Fine-stranded conductor 2	0.5 2.5 mm² / 20 16 AWG
Total number of connection points	3
Total number of potentials	1
Wiring type	Side-entry wiring

## Physical data

Width	9.5 mm / 0.374 inch
Height	15.5 mm / 0.61 inch
Depth	20.5 mm / 0.807 inch

#### Material data

Color white

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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Fire load	0.046 MJ	
Weight	2.1 g	
Environmental requirements		
Surrounding air temperature (operation)	60 °C	
Continuous operating temperature	105 °C	
Commercial data		
Product Group	7 (Push Wire Conn.)	
	7 (Push Wire Conn.) BOX	
Product Group		
Product Group Packaging type	BOX	

#### Approvals / Certificates

### **Country specific Approvals**

Logo	Approval	Additional Approval Text	Certificate name
<b>(1)</b>	CSA DEKRA Certification B.V.	C22.2	1053495
^	VDE VDE Prüf- und Zertifizierungsinstitut	EN 60998	40022792



## Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
ABS.	ABS American Bureau of Shipping	-	18- HG1755093- PDA
SUREAU VERITAS	BV Bureau Veritas S.A.	EN 60998	11914/D0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	EN 60998	TAE000015T

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**LR** Lloyds Register EN 60998

04/20013

(E8)

## **UL-Approvals**

Logo	Approval	Additional Approval Text	Certificate name
CCA	UL UL International Germany GmbH	EN 60998	CCA- 2617-A1
D	UL UL International Germany GmbH	EN 60998	D-05895- A1 (EN60998- 1 EN60998- 2-2)
LISTED WIRE CONNECTOR	UL UL International Germany GmbH	UL 486C	E69654

## Compatible products

#### General accessories

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

www.wago.com/249-130

# Downloads Documentation

# **Bid Text**

224-112 docx - Datei	Feb 21, 2019	docx 15.9 kB	Download
224-112 X81 - Datei	Feb 19, 2019	xml 3.5 kB	Download

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**Additional Information** 

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CAD/CAE-Data

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EPLAN Data Portal 224-112 URL Download

#### **Environmental Product Compliance**

Compliance Search

**Environmental Product Compliance 224-112** 

2-conductor 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; white

**URL** Download

## **Installation Notes**

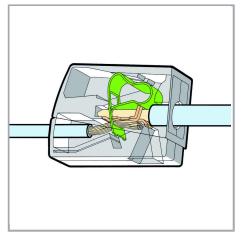
Conductor termination

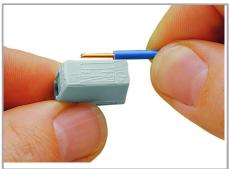
Subject to changes. Please also observe the further product documentation!

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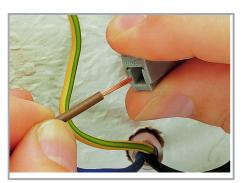
Strip conductor to 9 ... 11 mm (0.35 ... 0.43 inch).

Lighting Connectors (2.5 mm²), 224 Series





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

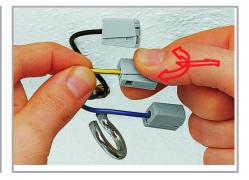


To remove: Press button and withdraw conductor.





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.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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#### Testing



Testing via separate test ports.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$