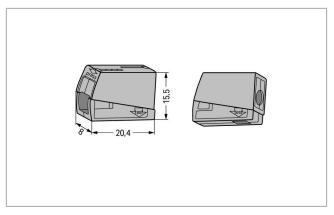
Lighting connector; push-button on lighting side; Lighting side: for all conductor types; Inst. side: for solid conductors; 224 Series; max. 2.5 mm²; Surrounding air temperature: max 60°C; 2,50 mm²; gray



www.wago.com/224-101





Item description

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 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 mm² = 16 A

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

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4 mm² = 22 A **Safety information 1:**in grounded power lines

Data

Electrical data

Ratings per IEC/EN 60664-1

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

PUSH WIRE "
1
Push-in
Copper Aluminum
1 2.5 mm² / 14 12 AWG
9 11 mm / 0.35 0.43 inch
Lighting side
CAGE CLAMP [®]
1
0.5 2.5 mm² / 20 16 AWG
0.5 2.5 mm² / 20 16 AWG
2
1
Side-entry wiring

Physical data

Width	8 mm / 0.315 inch
Height	15.5 mm / 0.61 inch
Depth	20.4 mm / 0.803 inch

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

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Material Data

Color	gray
Fire load	0.041 MJ
Weight	1.8 g

Environmental Requirements

Surrounding air temperature (operation)	60 60 °C
Continuous operating temperature	105 105 ℃

Commercial data

Packaging type	BOX
Country of origin	СН
GTIN	4044918583817
Customs tariff number	85369010000

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
(P)	CSA DEKRA Certification B.V.	C22.2	1053495



VDEVDE Prüf- und Zertifizierungsinstitut

EN 60998 40022792

Ship Approvals

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

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APPROVED	R	
	TYPE APPROVAL.	

LR EN 60998 04/20013 Lloyds Register (E8)

UL-Approvals

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



Counterpart

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

224-101 21-Feb-2019 docx Download 15.9 kB docx - Datei

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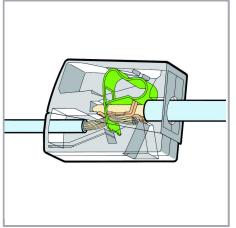
CAD/CAE-Data

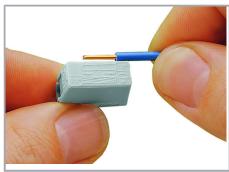
CAD data

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

Installation Notes

Conductor termination





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

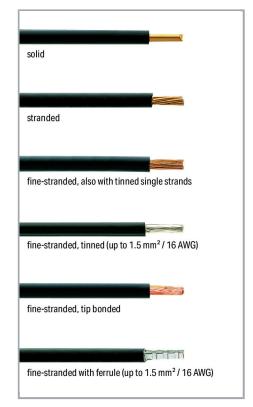
 $\label{eq:lighting connectors, 2.5 mm^2 (12 AWG), 224} Lighting Connectors, 2.5 mm^2 (12 AWG), 224 Series$

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

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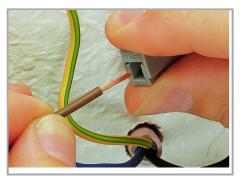
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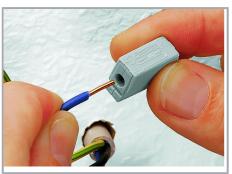


To connect: Press button fully, insert stripped conductor into square entry and release.

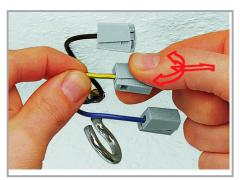


To remove: Press button and withdraw conductor.





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.

Testing

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

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Testing via separate test ports.





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

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

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