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 75°C; 2,50 mm²; black



www.wago.com/224-114



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

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

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

Installation side
PUSH WIRE [®]
2
Push-in
Copper Aluminum
1 2.5 mm ² / 16 14 AWG
9 11 mm / 0.35 0.43 inch
Lighting side
CAGE CLAMP [®]
1
0.5 2.5 mm² / 20 14 AWG
0.5 2.5 mm² / 20 16 AWG
3
1
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

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Material data

Color	black
Fire load	0.052 MJ
Weight	2.5 g

Environmental requirements

Surrounding air temperature (operation)	60 °C
Continuous operating temperature	120 °C

Commercial data

Packaging type	box
Country of origin	СН
GTIN	4044918583787
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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TYPE APPROVAL.	

 LR
 EN 60998
 04/20013

 Lloyds Register
 (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)

Optional accessories

General accessories

and .	Item no.: 249-130	www.wago.com/249-130
	Syringe; Contents: 20 ml Alu-Plus contact paste	www.wago.com/249-130

Downloads

Documentation

Bid Text

224-114 docx - Datei	21.02.2019	docx 16.1 kB	Download
224-114 X81 - Datei	19.02.2019	xml 3.6 kB	Download
Additional Information Technical explanations	03.04.2019	pdf 2.2 MB	Download

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

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CAD/CAE-Data

CAD data

2D/3D Models 224-114	URL	Download
CAE data		
WSCAD Universe 224-114	URL	Download
ZUKEN Portal 224-114	URL	Download
EPLAN Data Portal 224-114	URL	Download

Environmental Product Compliance

Compliance Search

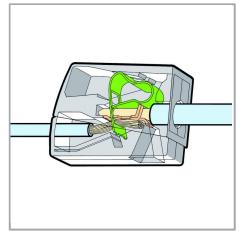
Environmental Product Compliance 224-114

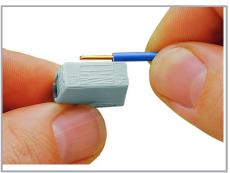
2-conductor lighting connector; push-button on lighting side; Lighting side: for all conductor types; Inst. side: for solid conductors; 224 Series; max. 2.5 mm²; Surrounding air temperature: max 75°C; 2,50 mm²; black

URL Download

Installation Notes

Conductor termination





Strip conductor to $9 \dots 11 \text{ mm}$ (0.35 $\dots 0.43 \text{ inch}$).

Lighting Connectors (2.5 mm²), 224 Series

Conductor termination

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

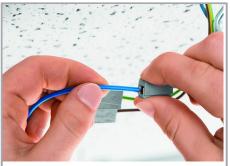
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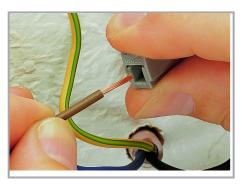
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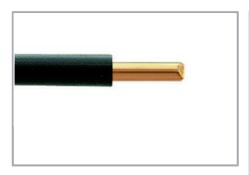


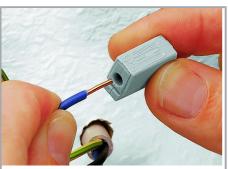


To connect: Press button fully, insert stripped conductor into square entry and release.

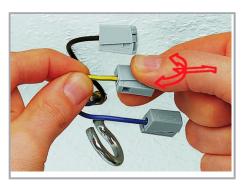


To remove: Press button and withdraw conductor.





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



Testing via separate test ports.

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

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