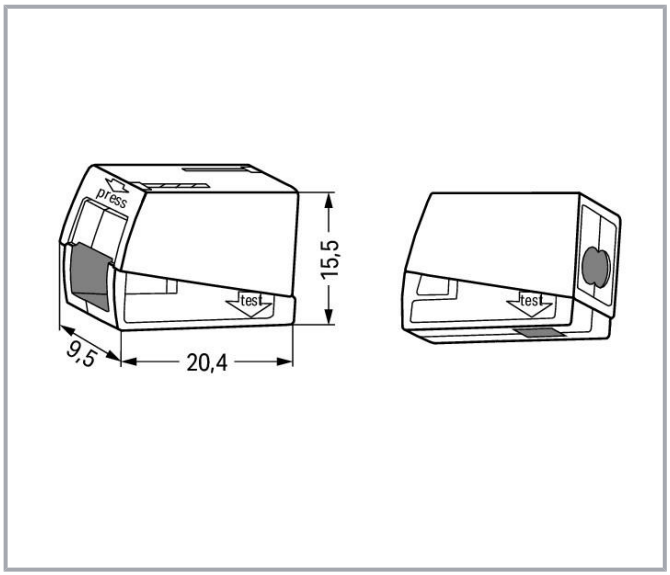
Data sheet | Item number: 224-112

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

www.wago.com/224-112



Color:



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

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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

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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.)
Packaging type	BOX
Country of origin	CH
GTIN	4044918583596
Customs tariff number	85369010000

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	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 American Bureau of Shipping	-	18-HG1755093-PDA
	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
	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)
	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

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

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Additional Information

Technical explanations	Apr 3, 2019	pdf 2.2 MB	Download

CAD/CAE-Data

CAD data

2D/3D Models 224-112	URL	Download

CAE data

WSCAD Universe 224-112	URL	Download
ZUKEN Portal 224-112	URL	Download
EPLAN Data Portal 224-112	URL	Download

Environmental Product Compliance

Compliance Search

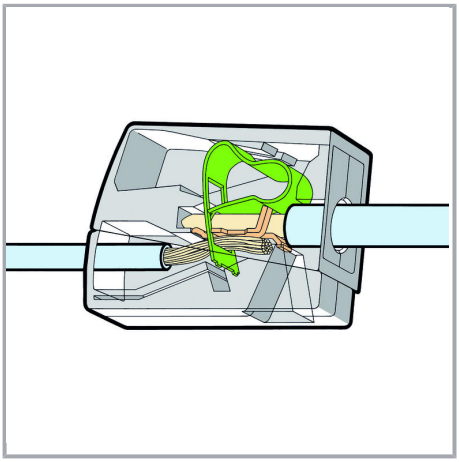
Environmental Product Compliance 224-112 2-conductor lighting connector; push-button on lighting side; Lighting side: for all conductor types; Inst. side: for solid conductors; 224 Series; max. 2.5 mm²; Surrounding air temperature: max 60°C; 2,50 mm²; white	URL	Download

Installation Notes

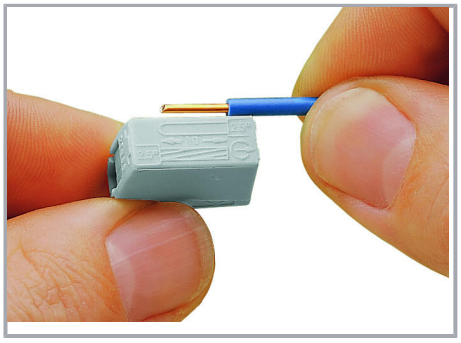
Conductor termination

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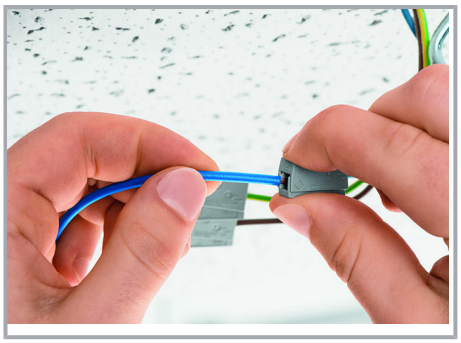


Lighting Connectors (2.5 mm²), 224 Series

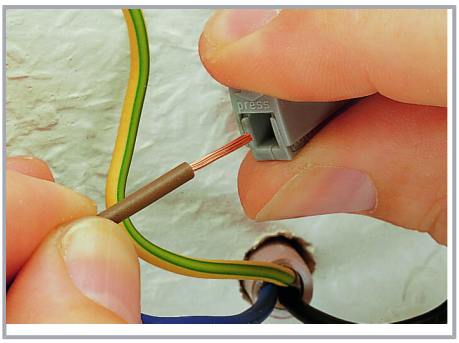


Strip conductor to 9 … 11 mm (0.35 … 0.43 inch).

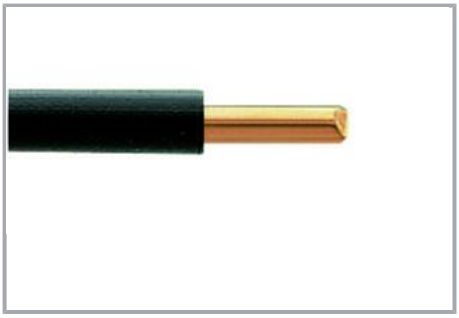


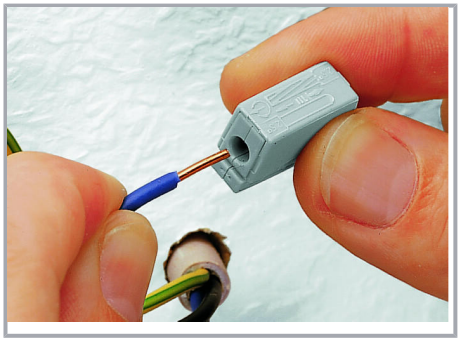


To connect: Press button fully, insert stripped conductor into square entry and release.

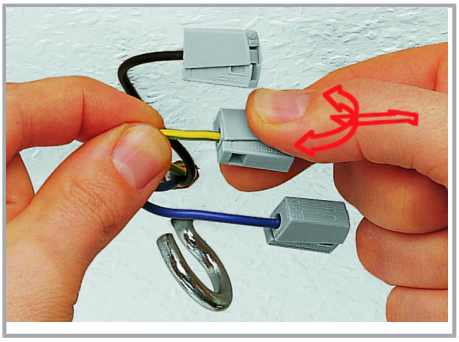


To remove: Press button and withdraw conductor.





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.

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Testing



Testing via separate test ports.

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