

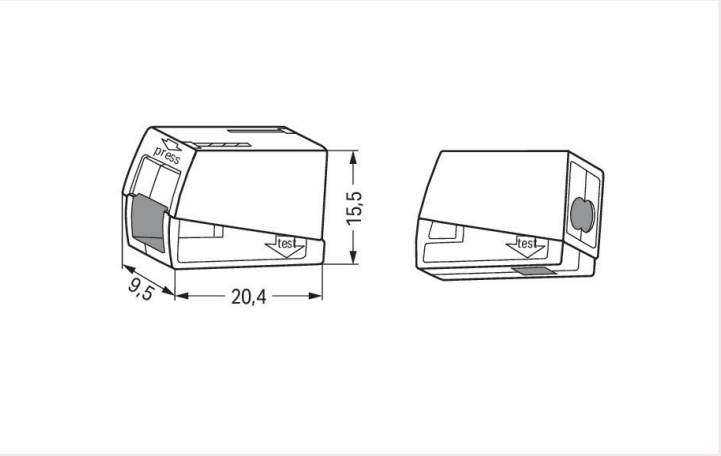
Data sheet | Item number: 224-112

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

<https://www.wago.com/224-112>



Color: white



Dimensions in mm

Notes	
Safety information 1	in grounded power lines

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

Total number of connection points	3
Total number of potentials	1

Connection 1

Connection type 1	Installation side
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Connection technology	PUSH WIRE®
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Number of connection points	2
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Actuation type	Push-in
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Connectable conductor materials	Copper Aluminum
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Connectable conductor materials (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 249-130 is used for termination.
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"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 / 16 ... 14 AWG
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Strip length	9 ... 11 mm / 0.35 ... 0.43 inch
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Wiring direction	Side-entry wiring
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Connection 2

Connection type 2	Lighting side
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Connection technology 2	CAGE CLAMP®
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Number of connection points 2	1
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Solid conductor 2	0.5 ... 2.5 mm² / 20 ... 14 AWG
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Fine-stranded conductor 2	0.5 ... 2.5 mm² / 20 ... 16 AWG
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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	
Note (material data)	Information on material data can be found here
Color	white
Fire load	0.046 MJ
Weight	2.1 g

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

Commercial data	
Product Group	7 (Push Wire Conn.)
eCl@ss 10.0	27-14-11-03
eCl@ss 9.0	27-14-11-03
ETIM 7.0	EC000447
ETIM 6.0	EC000447
PU (SPU)	1000 (100) Stück
Packaging type	Box
Country of origin VKOrg Germany	CH
GTIN	4044918583596
Customs tariff number VKOrg Germany	85369010000

Approvals and certificates		
Country specific Approvals		
 		
Approval	Standard	Certificate name
CSA DEKRA Certification B.V.	C22.2	1053495
VDE VDE Prüf- und Zertifizierungsinstitut	EN 60998	40022792

Ship Approvals		
   		
Approval	Standard	Certificate name
ABS American Bureau of Ship- ping	-	18-HG1755093-PDA
BV Bureau Veritas S.A.	EN 60998	11914/D0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	EN 60998	TAE000015T
LR Lloyds Register	EN 60998	04/20013 (E8)



UL-Approvals



Approval	Standard	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

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 224-112

Documentation

Additional Information	Bid Text
Technical Section	pdf 2142.18 KB
	224-112 19.02.2019 xml 3.46 KB
	224-112 21.02.2019 docx 15.55 KB

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 224-112	EPLAN Data Portal 224-112
	WSCAD Universe 224-112
	ZUKEN Portal 224-112

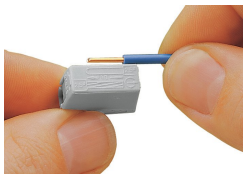
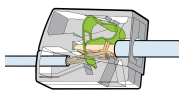
1 Compatible products
1.1 Optional accessories
1.1.1 Tool
1.1.1.1 "Alu-Plus" contact paste



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

Installation notes

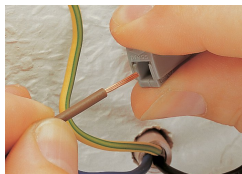
Conductor termination



Lighting Connectors (2.5 mm²), 224 Series

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

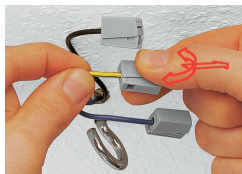
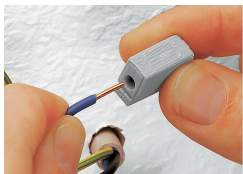
Conductor termination



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.