

Gegevensblad | Artikelnummer: 224-104

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/224-104



Artikelbeschrijving

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

Wijzigingen voorbehouden. Let ook op de verdere productdocumentatie!

WAGO BeLux nv
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Hebt u vragen over onze producten?
U kunt ons telefonisch bereiken op het nr. +32 (0) 2 7179090.

4 mm² = 22 A**Safety information 1:**

in grounded power lines

Gegevens**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) $\triangleq$ Overvoltage category II / Pollution degree 2

Connection data

Connection type (1)	Installation side
Connection technology	PUSH WIRE [®]
Number of connection points (connection type)	1
Actuation type	Push-in
Connectable conductor materials	Copper Aluminum
Solid conductor	1 ... 2.5 mm ² / 14 ... 12 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 mm ² / 20 ... 16 AWG
Fine-stranded conductor 2	0.5 ... 2.5 mm ² / 20 ... 16 AWG
Total number of connection points	2
Total number of potentials	1
Wiring type	Side-entry wiring

Geometrical Data

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

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Material Data

Color	black
Fire load	0,051 MJ
Weight	2,2 g

Environmental Requirements

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

Commercial data

Packaging type	BOX
Country of origin	CH
GTIN	4044918584050
Customs tariff number	85369010000

Vergunningen / certificaten

Country specific Approvals

Logo	Vergunning	Norm	Certificaatsnaam
	CSA DEKRA Certification B.V.	C22.2	1053495
	VDE VDE Prüf- und Zertifizierungsinstitut	EN 60998	40022792

Ship Approvals

Logo	Vergunning	Norm	Certificaatsnaam
	ABS American Bureau of Shipping	-	18-HG1755093-PDA
	BV Bureau Veritas S.A.	EN 60998	11914/C0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	EN 60998	TAE000015T

Wijzigingen voorbehouden. Let ook op de verdere productdocumentatie!



LR
Lloyds Register

EN 60998

04/20013 (E8)

UL-Approvals

Logo	Vergunning	Norm	Certificaatsnaam
	UL	EN 60998	CCA-2617-A1
	UL International Germany GmbH		
	UL	EN 60998	D-05895-A1 (EN60998-1 EN60998-2-2)
	UL International Germany GmbH		

Relevante producten

General accessories



Artikelnummer: 249-130

Syringe; Contents: 20 ml Alu-Plus contact paste

www.wago.com/249-130

Downloads

Documentation

Bid Text

224-104 GAEB X81 - Datei	19-feb-2019	xml 3,6 kB	Download
224-104 GAEB docx - Datei	21-feb-2019	docx 15,9 kB	Download
Additional Information Technical explanations	3-apr-2019	pdf 2,1 MB	Download

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CAD/CAE-Data

CAD data

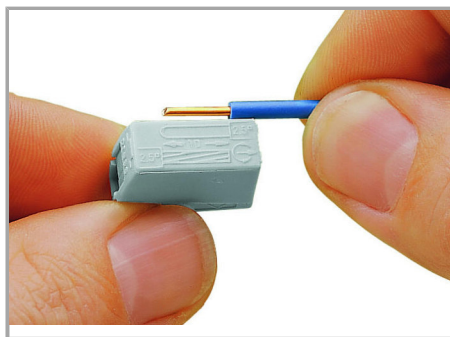
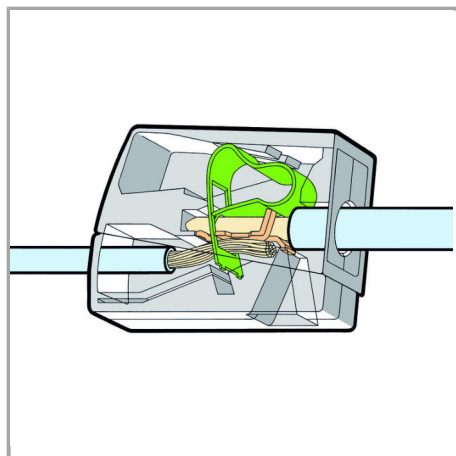
2D/3D Models 224-104	URL	Download
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CAE data

EPLAN Data Portal 224-104	URL	Download
WSCAD Universe 224-104	URL	Download
ZUKEN Portal 224-104	URL	Download

Gebruiksaanwijzingen

Conductor termination



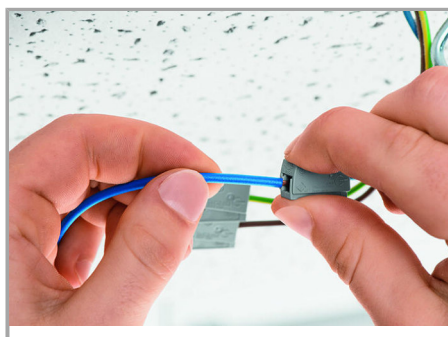
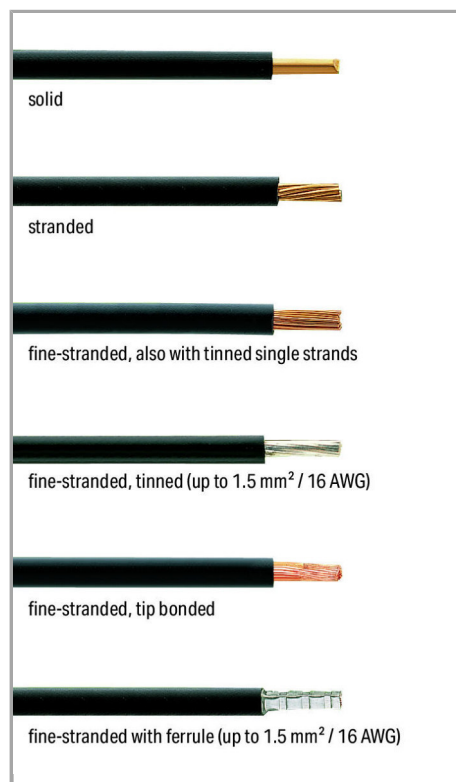
Strip conductor to 9 ... 11 mm (0.35 ... 0.43 inch).

Lighting Connectors, 2.5 mm² (12 AWG), 224 Series

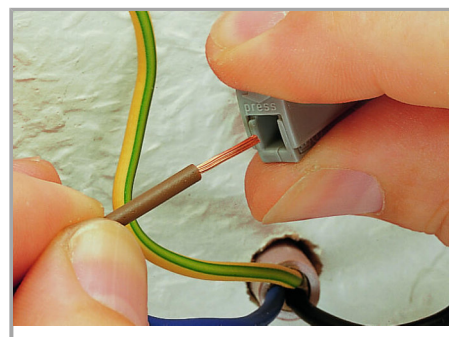
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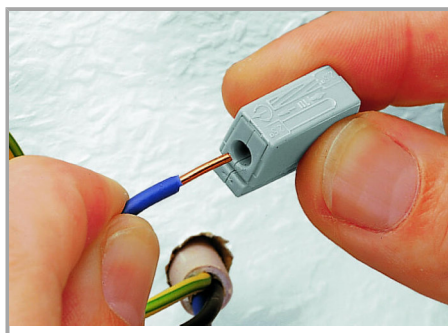
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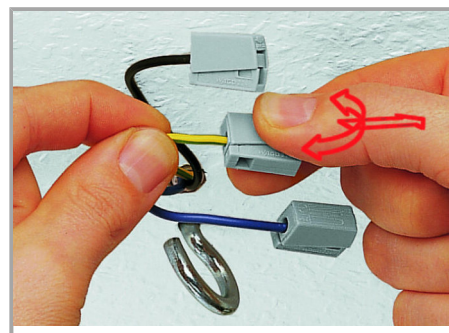
To connect: Press button fully, insert stripped conductor into square entry and release.



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

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Testing via separate test ports.

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