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



https://www.wago.com/224-104



Color: ■ black

Notes
Safety Information

in grounded power lines

Electrical data			
Ratings per		EN 60664	
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	-	-	400 V
Rated surge voltage	-	-	4 kV
Rated current	-	-	24 A

data				
	2		Connection 1	
	1		Connection type 1	Installation side
			Connection technology	PUSH WIRE®
			Number of connection points	1
			Actuation type	Push-in
			Connectable conductor materials	Copper Aluminum



Connection 1

Connectable conductor materials (note)

Terminating Aluminum Conductors (Not for use in North America)

WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste $\underline{249-130}$ 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.

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 / 14 12 AWG
Strip length	9 11 mm / 0.35 0.43 inches
Wiring direction	Side-entry wiring

Connection 2	
Connection type 2	Lighting side
Connection technology 2	CAGE CLAMP®
Number of connection points 2	1
Solid conductor 2	$0.5 \dots 2.5 \text{ mm}^2 \text{ / } 20 \dots 16 \text{ AWG}$
Fine-stranded conductor 2	0.5 2.5 mm ² / 20 16 AWG

Physical data	
Width	8 mm / 0.315 inches
Height	15.5 mm / 0.61 inches
Depth	20.4 mm / 0.803 inches

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	black
Fire load	0.046 MJ
Weight	2.2 g

https://www.wago.com/224-104



Environmental requirements Ambient temperature (operation) +75 °C Continuous operating temperature 120 °C

Commercial data	
eCl@ss 10.0	27-14-11-03
eCl@ss 9.0	27-14-11-03
ETIM 8.0	EC000446
ETIM 7.0	EC000447
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918584050
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals









	$lue{}$	
Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1053495
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)
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 60998	40022792

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications









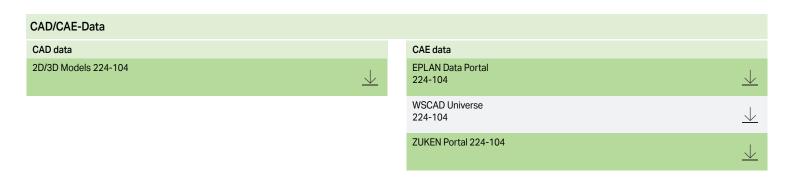
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	18-HG1755093-PDA
BV Bureau Veritas S.A.	EN 60998	11914/D0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	EN 60998	TAE000015T
LR Lloyds Register	EN 60998	LR22207029TA

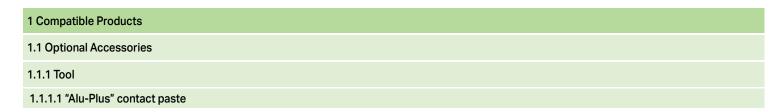
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Item No.: 249-130
Syringe; Contents: 20 ml Alu-Plus contact paste

Installation Notes

Conductor termination





Lighting Connectors (2.5 mm²), 224 Series

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

https://www.wago.com/224-104



Conductor termination





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



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.

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