Data sheet | Item number: 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

https://www.wago.com/224-114

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

WAGO

Connection 1

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.

"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
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 … 2.5 mm² / 20 … 14 AWG
Fine-stranded conductor 2	0.5 … 2.5 mm² / 20 … 16 AWG

Physical data

Width	9.5 mm / 0.374 inches
Height	15.5 mm / 0.61 inches
Depth	20.5 mm / 0.807 inches

Material data

Note (material data)	Information on material data can be found here
Color	black
Fire load	0.052 MJ
Weight	2.5 g

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	EC000447
ETIM 7.0	EC000447
PU (SPU)	100 Stück
Packaging type	Box
Country of origin VKOrg Germany	CH
GTIN	4044918583787
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 Shipping	-	18-HG1755093-PDA
BV Bureau Veritas S.A.	EN 60998	11914/D0 BV
DNV GL Det Norske Veritas, Germanischer Lloyd	EN 60998	TAE000015T
LR Lloyds Register	EN 60998	LR22207029TA

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)

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 224-114	↓

Documentation

Additional Information			Bid Text			
Technical Section	pdf 2142.18 KB	↓	224-114	19.02.2019	xml 3.51 KB	↓
			224-114	21.02.2019	docx 15.71 KB	↓

CAD/CAE-Data

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

1 Compatible products

1.1 Optional accessories

1.1.1 Tool

1.1.1.1 "Alu-Plus" contact paste

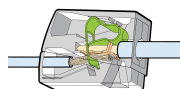**Item no.: 249-130**
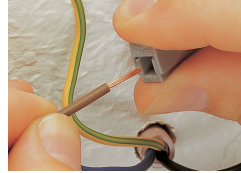Syringe; Contents: 20 ml Alu-Plus contact paste

Installation notes

Conductor termination
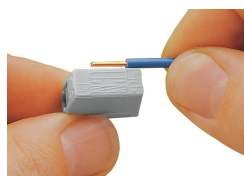
Lighting Connectors (2.5 mm²), 224 Series
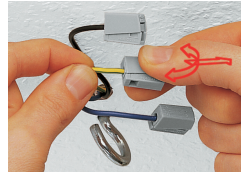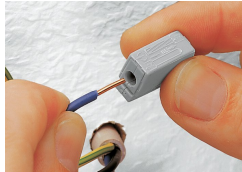

Strip conductor to 9 … 11 mm (0.35 … 0.43 inch).

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.

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

Current addresses can be found at: www.wago.com