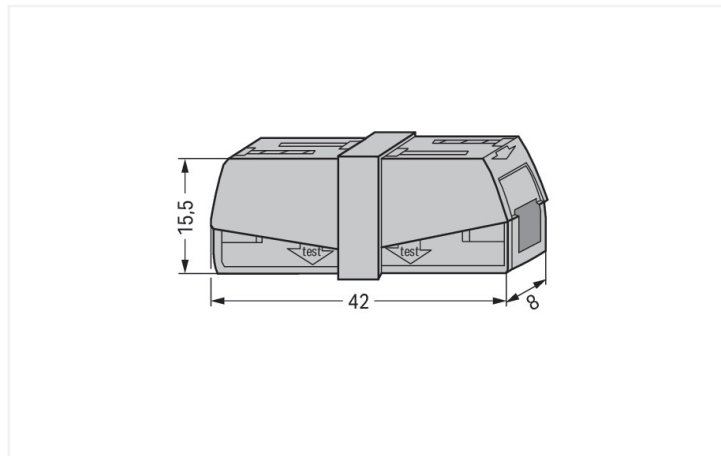# Data Sheet | Item Number: 224-201

Service connector; push-button on both sides; 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; gray

https://www.wago.com/224-201

Color: ◼ gray

Dimensions in mm

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

Connection data

Connection points	2
Total number of potentials	1

Connection 1

Connection technology	CAGE CLAMP®
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 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. 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	0.5 … 2.5 mm² / 20 … 16 AWG
Fine-stranded conductor	0.5 … 2.5 mm² / 20 … 16 AWG
Strip length	9 … 11 mm / 0.35 … 0.43 inches
Wiring direction	Side-entry wiring

Physical data

Width	8 mm / 0.315 inches
Height	15.5 mm / 0.61 inches
Depth	42 mm / 1.654 inches

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Fire load	0.116 MJ
Weight	4.6 g

Environmental requirements

Ambient temperature (operation)	+60 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1053495
UL UL International Germany GmbH	UL 486C	E69654
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 Zertifizierungsinstitut	EN 60998	40022792

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

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

WAGO

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
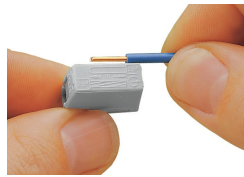
	Strip conductor to 9 … 11 mm (0.35 … 0.43 inch).	To connect: Press button fully, insert stripped conductor into square entry and release.
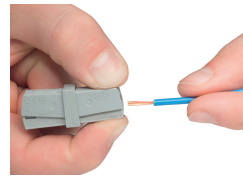
Application

Service connector

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

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