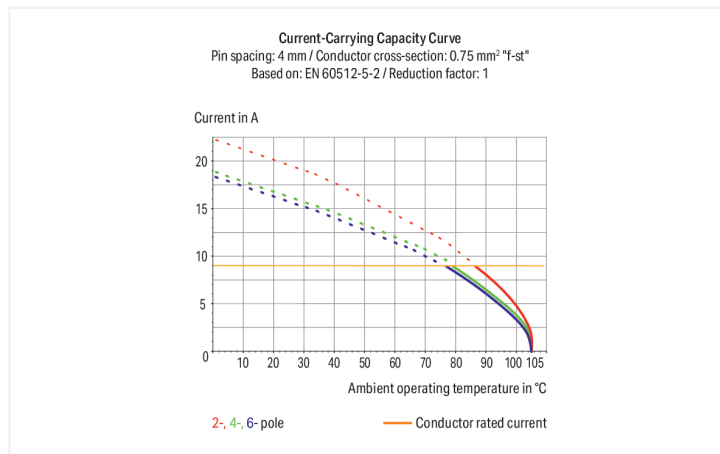


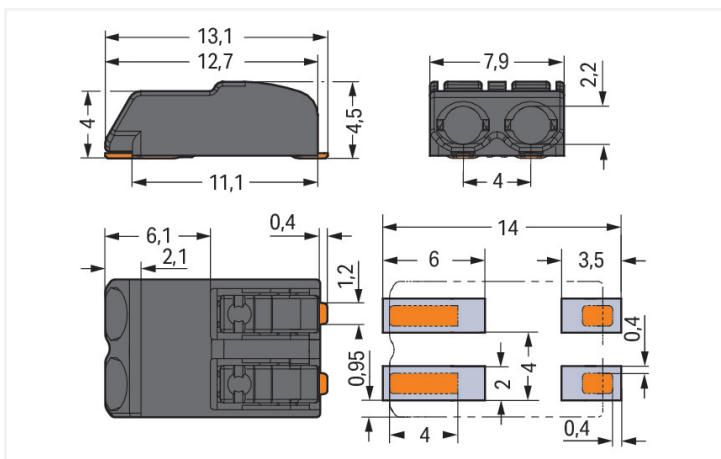
# Data Sheet | Item Number: 2060-472/998-404

SMD PCB terminal block; push-button; 0.75 mm<sup>2</sup>; Pin spacing 4 mm; 2-pole; Push-in CAGE CLAMP®; in tape-and-reel packaging; black

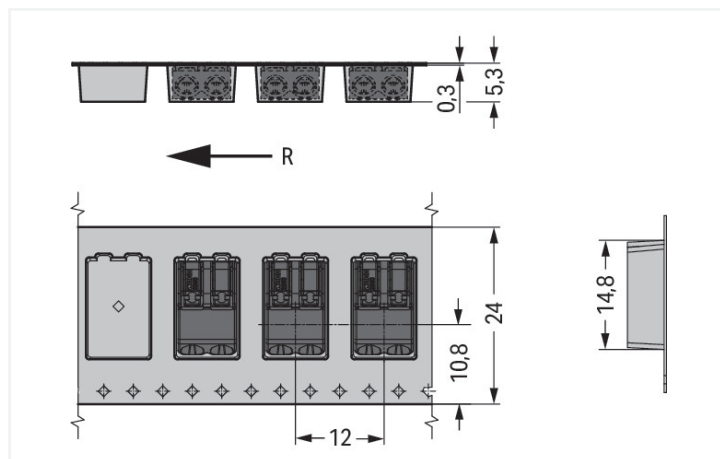
<https://www.wago.com/2060-472/998-404>



Color: ■ black



Dimensions in mm



Dimensions in mm  
R = feed direction

## PCB terminal block, 2060 Series, 0° conductor entry to board

Connecting conductors is quick and easy with this PCB terminal block (item number 2060-472/998-404). You can rely on tried and tested safety with these PCB terminal blocks, perfect for a host of applications when designing your devices. Conductors can only be connected to this PCB terminal block if their strip length is between 7 and 9 mm. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Solid and fine-stranded conductors with ferrules can be pushed in without needing to use any tools—all thanks to its pluggable design. Dimensions: (7.9 x 4.5 x 13.1) mm (width x height x depth). Depending on the type of conductor, this PCB terminal block is ideal for conductor cross sections ranging from 0.2 mm<sup>2</sup> to 0.75 mm<sup>2</sup>.

Tin is used for coating the contact surfaces. A push-button is used to operate this PCB terminal block. The PCB terminal block is designed for SMD soldering. Insert the conductor at an angle of 0°.

## Notes

## Note

## Application notes:

Suitable for lead-free, reflow-soldering profiles per DIN EN 61760-1 and IEC 60068-2-58 up to max. 260°C peak temperature. Due to application-specific variables (component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions.

Depending on reflow soldering temperatures and times, color deviations may occur. These deviations will have no impact on functionality.

## Recommendation

## Recommendation for stencil:

150 µm material thickness; Pattern layout identical to solder pad layout

## Electrical data

Ratings per	IEC/EN 60664-1		
	III	III	II
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	63 V	160 V	320 V
Rated impulse withstand voltage	2.5 kV	2.5 kV	2.5 kV
Rated current	9 A	9 A	9 A

## Ratings

Approvals per	UL 1977
Rated voltage	600 V
Rated current	9 A

## Connection Data

Clamping units	2
Total number of potentials	2
Number of connection types	1
Number of levels	1

## Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Solid conductor	0.2 ... 0.75 mm <sup>2</sup> / 24 ... 18 AWG
Fine-stranded conductor	0.2 ... 0.75 mm <sup>2</sup> / 24 ... 18 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 0.34 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 0.34 mm <sup>2</sup>
Strip length	7 ... 9 mm / 0.28 ... 0.35 inches
Conductor connection direction to PCB	0°
Pole number	2

## Physical data

Pin spacing	4 mm / 0.157 inches
Width	7.9 mm / 0.311 inches
Height	4.5 mm / 0.177 inches
Depth	13.1 mm / 0.516 inches
Reel diameter of tape-and-reel packaging	330 mm
Tape width	24 mm

## PCB contact

PCB contact	SMD
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	2

**Material data**

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	black
Material group	I
Insulation material (main housing)	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Clamping spring material	Copper alloy
Contact material	Copper alloy
Contact Plating	Tin
Fire load	0.004 MJ
Weight	0.5 g
MSL per J-STD 020D	1

**Environmental requirements**

Limit temperature range	-60 ... +105 °C
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**Commercial data**

PU (SPU)	9000 (1000) pcs
Packaging type	Box
Country of origin	CH
GTIN	4055143888332
Customs tariff number	85369010000

**Product Classification**

UNSPSC	39121409
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 9.0	EC001284
ETIM 10.0	EC001284
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates**


General approvals			General approvals		
Approval	Standard	Certificate Name	KEMA/KEUR	EN 60947	71-108183
CCA	EN 60838	NTR NL 2168246	DEKRA Certification B.V.		
CCA	EN 60947-7-4	NTR NL-7843/1	KEMA/KEUR	EN 60998	71-109040
CCA			DEKRA Certification B.V.		
cURus	UL 1977	E45171	KEMA/KEUR	EN 60947-7-4	71-114208
Underwriters Laboratories Inc.			DEKRA Certification B.V.		
KEMA/KEUR	EN 60838	2168246.01	UL	UL 1059	E45172
DEKRA Certification B.V.			Underwriters Laboratories Inc.		

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	-	-

Downloads


Environmental Product Compliance


Compliance Search
Environmental Product Compliance 2060-472/998-404 

Documentation



Additional Information
Technical Section 03.04.2019 pdf 2027.26 KB 

CAD/CAE-Data

CAD data
2D/3D Models 2060-472/998-404 

CAE data
ZUKEN Portal 2060-472/998-404 

PCB Design

Symbol and Footprint via SamacSys 2060-472/998-404 
Symbol and Footprint via Ultra Librarian 2060-472/998-404 

1 Compatible Products

1.1 Optional Accessories

1.1.1 Board-to-board link

1.1.1.1 Board-to-board link



**Item No.: 2060-952/028-004**  
Board-to-Board Link; Pin spacing 4 mm;  
2-pole; Length: 28 mm; black



**Item No.: 2060-952/028-000**  
Board-to-Board Link; Pin spacing 4 mm;  
2-pole; Length: 28 mm; white

### 1.1.2 Ferrule

#### 1.1.2.1 Ferrule



**Item No.: 216-301**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-131**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-302**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-132**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; uninsulated; electro-tin plated

### 1.1.3 Tool

#### 1.1.3.1 Operating tool



**Item No.: 206-860**

Operating tool; for 2060 Series; multicoloured



**Item No.: 2060-189**

Operating tool; made of insulating material; for 2060 Series; white

## Installation Notes

### Conductor termination



Insert solid conductors via push-in termination.

### Conductor termination



Insert/remove fine-stranded conductors by lightly pressing on push-button, e.g., via optional operating tool (206-860).



Terminal blocks can be arranged side-by-side without loss of poles.