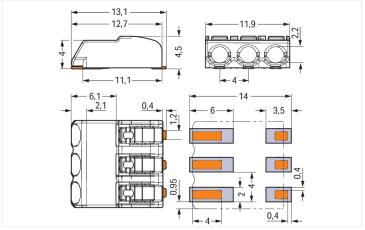
SMD PCB terminal block; push-button; 0.75 mm²; Pin spacing 4 mm; 3-pole; Push-in

CAGE CLAMP®; in tape-and-reel packaging; white

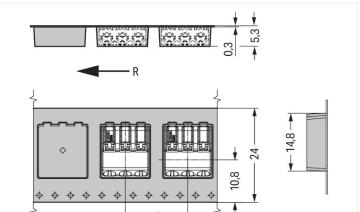
https://www.wago.com/2060-453/998-404



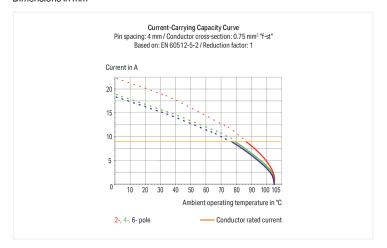




Color. Wille



Dimensions in mm



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

Dimensions in mm R = feed direction

PCB terminal block, 2060 Series, white

This PCB terminal block (item number 2060-453/998-404) is designed to connect conductors quickly and easily. It is a universal connector that can be used almost anywhere, for example, as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Our PCB terminal block is rated for 160 V and is designed to handle a rated current of up to 9 A. Strip lengths must be between 7 mm and 9 mm when connecting conductors to this PCB terminal block. This product incorporates one conductor terminal and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, offering a key advantage: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. The item's dimensions are 11.9 x 4.5 x 13.1 mm (width x height x depth). Depending on the conductor type, this PCB terminal block is ideal for conductor cross sections ranging from 0.2 mm² to 0.75 mm². It has one level. You can connect three potentials / three poles using the three clamping points. The clamping spring is made of a Copper alloy, the white housing is made of polyphthalamide (PPA GF) for insulation, and the contacts are made of copper alloy. The contact surface is coated with tin. A push-button is used to operate this PCB terminal block. The PCB terminal block is designed for SMD soldering. The conductor is designed to be inserted 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:



Electrical data			
Ratings per	IEG	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	63 V	160 V	320 V
Rated surge 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	320 V
Rated current	9 A

Connection data			
Clamping units	3	Connection 1	
Total number of potentials	3	Connection technology	Push-in CAGE CLAMP®
Number of connection types	1	Actuation type	Push-button
Number of levels	1	Solid conductor	0.2 0.75 mm² / 24 18 AWG
		Fine-stranded conductor	0.2 0.75 mm² / 24 18 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 0.34 mm ²
		Fine-stranded conductor; with uninsulated ferrule	0.25 0.34 mm ²
		Strip length	7 9 mm / 0.28 0.35 inches
		Conductor connection direction to PCB	0°
		Pole number	3

Physical data		
Pin spacing	4 mm / 0.157 inches	
Width	11.9 mm / 0.469 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)	
	Information on material specifications can be found here
Color	white
Material group	1
Insulation material (main housing)	Polyphthalamide (PPA GF)
Flammability class per UL94	VO
Clamping spring material	Copper alloy
Contact material	Copper alloy
Contact Plating	Tin
Fire load	0 MJ
Weight	0.8 g
MSL per J-STD 020D	1



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Limit temperature range -60 ... +105 °C

Environmental Testing	
Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
-	
Extended testing: Monitoring of contact faults and interruptions	Passed
	Passed Passed
faults and interruptions Extended testing: Voltage drop measure-	
faults and interruptions Extended testing: Voltage drop measurement before and after each axis	Passed Test passed according to Section 10 of
faults and interruptions Extended testing: Voltage drop measurement before and after each axis Shock test	Passed Test passed according to Section 10 of the standard
faults and interruptions Extended testing: Voltage drop measurement before and after each axis Shock test Shock pulse form	Passed Test passed according to Section 10 of the standard Half sine
faults and interruptions Extended testing: Voltage drop measurement before and after each axis Shock test Shock pulse form Acceleration	Passed Test passed according to Section 10 of the standard Half sine 5g (highest test level used for all axes)
faults and interruptions Extended testing: Voltage drop measurement before and after each axis Shock test Shock pulse form Acceleration Shock duration	Passed Test passed according to Section 10 of the standard Half sine 5g (highest test level used for all axes) 30 ms
faults and interruptions Extended testing: Voltage drop measurement before and after each axis Shock test Shock pulse form Acceleration Shock duration Number of shocks (per axis)	Passed Test passed according to Section 10 of the standard Half sine 5g (highest test level used for all axes) 30 ms 3 pos. und 3 neg.
faults and interruptions Extended testing: Voltage drop measurement before and after each axis Shock test Shock pulse form Acceleration Shock duration Number of shocks (per axis) Test directions Extended testing: Monitoring of contact	Passed Test passed according to Section 10 of the standard Half sine 5g (highest test level used for all axes) 30 ms 3 pos. und 3 neg. X, Y and Z axes

Commercial data	
Product Group	33 (SMT Terminal)
PU (SPU)	6750 (750) pcs
Packaging type	Box
Country of origin	CH
GTIN	4055143888196
Customs tariff number	85369010000

https://www.wago.com/2060-453/998-404



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 8.0	EC001284
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

CCACCA CCA CCA CA CKEMA

KEMA





Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7724
CCA DEKRA Certification B.V.	EN 60998	NTR NL 7725/M1
CCA DEKRA Certification B.V.	EN 60838	NTR NL 2168246
CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL 7843
cURus Underwriters Laboratories Inc.	UL 1977	E45171
KEMA/KEUR DEKRA Certification B.V.	EN 60838	2168246.01
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-108183
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-109040
KEMA/KEUR	EN 60947-7-4	71-114208

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004396.000
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

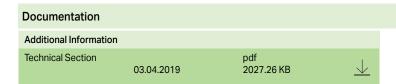
DEKRA Certification B.V.

Environmental Product Compliance 2060-453/998-404

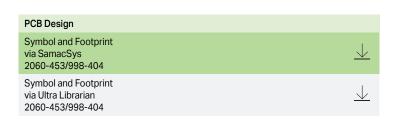


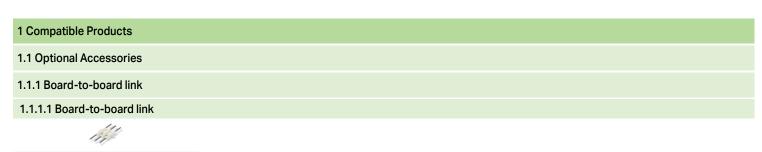
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Item No.: 2060-953/028-000
Board-to-Board Link; Pin spacing 4 mm; 3-pole; Length: 28 mm; white



https://www.wago.com/2060-453/998-404



1.1.3 Tool

1.1.3.1 Operating tool



<u>Item No.: 206-860</u>

Operating tool; for 2060 Series; multico-



<u>Item No.: 2060-189</u>

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

Installation Notes

Conductor termination



Insert solid conductors via push-in termi-

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-byside without loss of poles.

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

Current addresses can be found at:: $\underline{www.wago.com}$