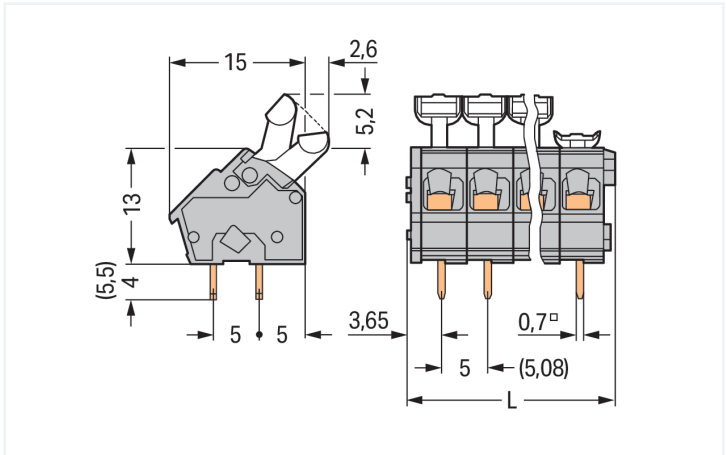


**Data Sheet | Item Number: 256-403/000-009/999-950**  
PCB terminal block; push-button; 2.5 mm²; Pin spacing 5/5.08 mm; 3-pole; suitable for Ex-e applications; CAGE CLAMP®; commoning option; 2,50 mm²; light gray  
<https://www.wago.com/256-403/000-009/999-950>

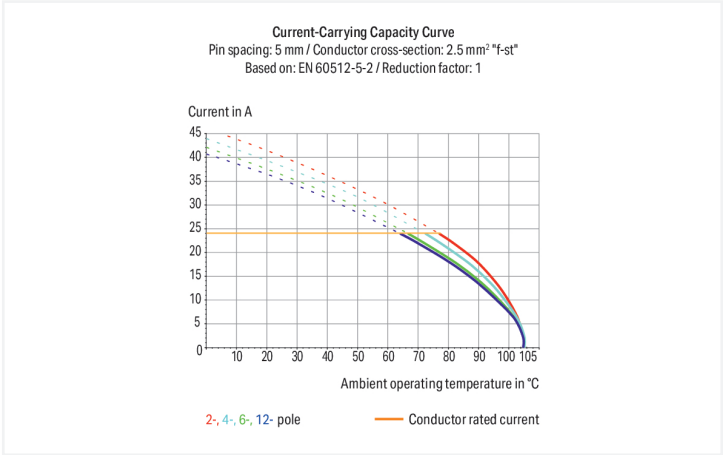


Color: ■ light gray

Similar to illustration



Dimensions in mm  
L = (pole no. x pin spacing) + 2.9 mm



PCB terminal block, 256 Series, CAGE CLAMP®

Our PCB terminal block (item number 256-403/000-009/999-950) is the ideal way to connect conductors quickly and easily. It is a universal connector that can be used practically 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. Ensure that the strip lengths are between 5 mm and 6 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes CAGE CLAMP®. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. The item's dimensions are 17.9 x 22.2 x 17.6 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². Up to three potentials / three poles can be connected to this terminal strip using three clamping points on one level. The clamping spring is made of chrome-nickel spring steel (CrNi), the contacts are made of electrolytic copper (ECu), and the light gray housing is made of polyamide (PA66) for insulation. Tin is used for coating the contact surfaces. This PCB terminal block is operated with a push-button. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted into the board at an angle of 45°. The solder pins measure 0.7 x 0.7 mm in cross-section and 4 mm in length and are laid out over the entire terminal strip (in-line). There are two solder pins per potential.

Electrical data	
Ex information	
Ratings per	ATEX: PTB 06 ATEX 1061 U / IECEx: PTB 06.0042 U
Rated voltage EN (Ex e II)	176 V
Rated current (Ex e II)	16 A



Connection data																						
Clamping units	3	<div>Connection 1</div> <table><tr><td>Connection technology</td><td>CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Push-button</td></tr><tr><td>Solid conductor</td><td>0.08 ... 2.5 mm² / 28 ... 12 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.08 ... 2.5 mm² / 28 ... 12 AWG</td></tr><tr><td>Fine-stranded conductor; with insulated ferrule</td><td>0.25 ... 1.5 mm²</td></tr><tr><td>Fine-stranded conductor; with uninsulated ferrule</td><td>0.25 ... 1.5 mm²</td></tr><tr><td>Note (conductor cross-section)</td><td>12 AWG: THHN, THWN</td></tr><tr><td>Strip length</td><td>5 ... 6 mm / 0.2 ... 0.24 inches</td></tr><tr><td>Conductor connection direction to PCB</td><td>45 °</td></tr><tr><td>Pole number</td><td>3</td></tr></table>	Connection technology	CAGE CLAMP®	Actuation type	Push-button	Solid conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG	Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG	Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm²	Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1.5 mm²	Note (conductor cross-section)	12 AWG: THHN, THWN	Strip length	5 ... 6 mm / 0.2 ... 0.24 inches	Conductor connection direction to PCB	45 °	Pole number	3
Connection technology	CAGE CLAMP®																					
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Note (conductor cross-section)	12 AWG: THHN, THWN																					
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches																					
Conductor connection direction to PCB	45 °																					
Pole number	3																					
Total number of potentials	3																					
Number of connection types	1																					
Number of levels	1																					

Physical data		
Pin spacing	Pin spacing	5/5.08 mm / 0.197/0.2 inches
Width	Width	17.9 mm / 0.705 inches
Height	Height	22.2 mm / 0.874 inches
Height from the surface	Height from the surface	18.2 mm / 0.717 inches
Depth	Depth	17.6 mm / 0.693 inches
Solder pin length	Solder pin length	4 mm
Solder pin dimensions	Solder pin dimensions	0.7 x 0.7 mm
Drilled hole diameter with tolerance	Drilled hole diameter with tolerance	1.1 <sup>(+0.1)</sup> mm

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

Material data		
Note (material data)	<a href="#">Information on material specifications can be found here</a>	
Color	Color	light gray
Material group	Material group	I
Insulation material (main housing)	Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	Flammability class per UL94	V0
Clamping spring material	Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact Plating	Contact Plating	Tin
Fire load	Fire load	0.053 MJ
Weight	Weight	3 g

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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	280 (70) pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918756129
Customs tariff number	85369010000

Product classification	
UNSPSC	39121409
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 9.0	EC002643
ETIM 8.0	EC002643
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
ATEX-Attestation of Conformity	-	-
WAGO GmbH & Co. KG		

Approvals for hazardous areas

AEx

CCC

IECEx



Approval	Standard	Certificate Name
AEx	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
UL International Germany GmbH c/o Physikalisch Technische Bundesanstalt		
CCC CNEX	GB/T 3836.3	2020312313000274 (Ex eb IIC Gb, Ex eb I Mb)
IECEx	IEC 60079	IECEx PTB 06.0042U (Ex eb IIC GB or Ex eb I Mb)
Physikalisch Technische Bundesanstalt		




Downloads



Environmental Product Compliance

Compliance Search



Documentation			
Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	
Gebrückte Klemmen- leisten für Leiterplatten		pdf 303.71 KB	

CAD/CAE-Data	
CAD data	CAE data
	
	

PCB Design



1 Compatible Products
1.1 Optional Accessories
1.1.1 Ferrule
1.1.1.1 Ferrule

			
<a href="#">Item No.: 216-301</a> Ferrule; Sleeve for 0.25 mm² / AWG 24; in- sulated; electro-tin plated; yellow	<a href="#">Item No.: 216-321</a> Ferrule; Sleeve for 0.25 mm² / AWG 24; in- sulated; electro-tin plated; yellow	<a href="#">Item No.: 216-151</a> Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	<a href="#">Item No.: 216-131</a> Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-co- lored
			
<a href="#">Item No.: 216-302</a> Ferrule; Sleeve for 0.34 mm² / 22 AWG; in- sulated; electro-tin plated; light turquoise	<a href="#">Item No.: 216-322</a> Ferrule; Sleeve for 0.34 mm² / 22 AWG; in- sulated; electro-tin plated; light turquoise	<a href="#">Item No.: 216-132</a> Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated	<a href="#">Item No.: 216-152</a> Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated
			
<a href="#">Item No.: 216-201</a> Ferrule; Sleeve for 0.5 mm² / 20 AWG; in- sulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white	<a href="#">Item No.: 216-241</a> Ferrule; Sleeve for 0.5 mm² / 20 AWG; in- sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	<a href="#">Item No.: 216-221</a> Ferrule; Sleeve for 0.5 mm² / 20 AWG; in- sulated; electro-tin plated; white	<a href="#">Item No.: 216-141</a> Ferrule; Sleeve for 0.5 mm² / 20 AWG; un- insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92
			
<a href="#">Item No.: 216-101</a> Ferrule; Sleeve for 0.5 mm² / AWG 22; un- insulated; electro-tin plated; silver-co- red	<a href="#">Item No.: 216-121</a> Ferrule; Sleeve for 0.5 mm² / AWG 22; un- insulated; electro-tin plated; silver-co- red	<a href="#">Item No.: 216-242</a> Ferrule; Sleeve for 0.75 mm² / 18 AWG; in- sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	<a href="#">Item No.: 216-262</a> Ferrule; Sleeve for 0.75 mm² / 18 AWG; in- sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray





1.1.1.1 Ferrule

 <b>Item No.: 216-202</b> Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	 <b>Item No.: 216-222</b> Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	 <b>Item No.: 216-142</b> Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	 <b>Item No.: 216-102</b> Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored
 <b>Item No.: 216-122</b> Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored	 <b>Item No.: 216-243</b> Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	 <b>Item No.: 216-263</b> Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	 <b>Item No.: 216-203</b> Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red
 <b>Item No.: 216-223</b> Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	 <b>Item No.: 216-103</b> Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated	 <b>Item No.: 216-143</b> Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	 <b>Item No.: 216-123</b> Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored
 <b>Item No.: 216-204</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	 <b>Item No.: 216-224</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	 <b>Item No.: 216-244</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	 <b>Item No.: 216-264</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black
 <b>Item No.: 216-284</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	 <b>Item No.: 216-124</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated	 <b>Item No.: 216-144</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored	 <b>Item No.: 216-104</b> Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored


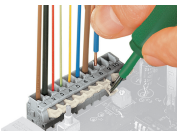
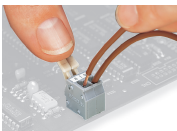
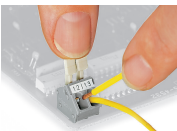
1.1.2 Tool

1.1.2.1 Operating tool

 <b>Item No.: 210-658</b> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured	 <b>Item No.: 210-720</b> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured
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Installation Notes

Conductor termination

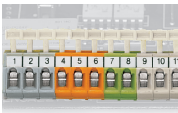
			
Inserting/removing a conductor – 256 Series.	Inserting/removing a conductor (255 Series)	Inserting/removing a conductor via finger-operated lever – 255 Series.	Inserting/removing a conductor via finger-operated lever – 256 Series.

Installation



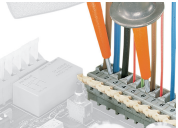
Possible conductor arrangement with terminal strips staggered (for 256 Series only).

Marking



Formation of groups using housings of different colors

Testing



Testing with test probes.



Testing with test plug modules.