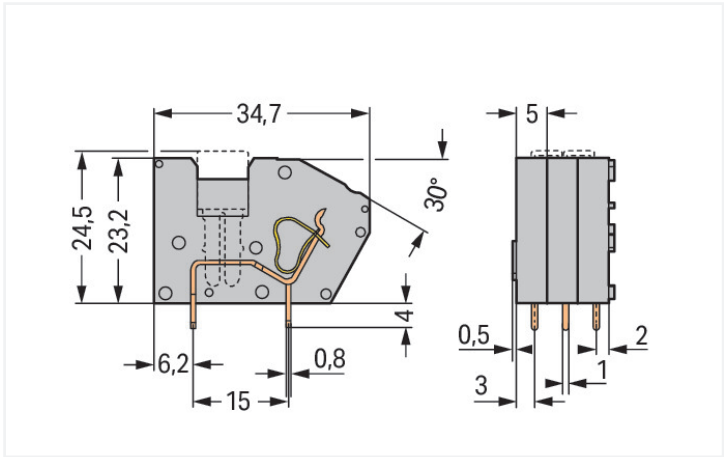




Color: ■ green-yellow Similar to illustration Dimensions in mm

PCB terminal block, 742 Series, solder pin dimensions 1 x 0.8 mm

This PCB terminal block (item number 742-128) is designed for easy and secure connections. It is a universal connector that can be used almost anywhere, e.g., 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 8 and 9 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes CAGE CLAMP®. Our celebrated universal connection known as CAGE CLAMP® is the industry standard for connection technology and electrical interconnections. Dimensions: (7 x 27.2 x 34.7) 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.

The contact surface is coated with tin. An operating tool is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted at an angle of 60°..

Electrical data								
Ratings per		IEC/EN 60664-1			Approvals per		UL 1059	
Overvoltage category	III	III	II		Use group	B	C	D
Pollution degree	3	2	2		Rated voltage	300 V	-	300 V
Nominal voltage	250 V	320 V	630 V		Rated current	10 A	-	10 A
Rated impulse withstand voltage	4 kV	4 kV	4 kV					
Rated current	16 A	16 A	16 A					
Approvals per		CSA						
Use group	B	C	D					
Rated voltage	300 V	-	300 V					
Rated current	16 A	-	10 A					



Connection data																						
Clamping units	1	Connection 1 <table><tr><td>Connection technology</td><td>CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Operating tool</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>8 ... 9 mm / 0.31 ... 0.35 inches</td></tr><tr><td>Conductor connection direction to PCB</td><td>60 °</td></tr><tr><td>Pole number</td><td>1</td></tr></table>	Connection technology	CAGE CLAMP®	Actuation type	Operating tool	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	8 ... 9 mm / 0.31 ... 0.35 inches	Conductor connection direction to PCB	60 °	Pole number	1
Connection technology	CAGE CLAMP®																					
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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	8 ... 9 mm / 0.31 ... 0.35 inches																					
Conductor connection direction to PCB	60 °																					
Pole number	1																					
Total number of potentials	1																					
Number of connection types	1																					
Number of levels	1																					
Number of jumper slots	1																					

Physical data		
Pin spacing	Pin spacing	5 mm / 0.197 inches
Width	Width	7 mm / 0.276 inches
Height	Height	27.2 mm / 1.071 inches
Height from the surface	Height from the surface	23.2 mm / 0.913 inches
Depth	Depth	34.7 mm / 1.366 inches
Solder pin length	Solder pin length	4 mm
Solder pin dimensions	Solder pin dimensions	1 x 0.8 mm
Drilled hole diameter with tolerance	Drilled hole diameter with tolerance	1.4 ^(+0.1) mm

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

Material data		
Note (material data)	Note (material data)	Information on material specifications can be found here
Color	Color	green-yellow
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 _{Cu})
Contact Plating	Contact Plating	Tin
Fire load	Fire load	0.057 MJ
Weight	Weight	3.1 g



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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	300 pcs
Packaging type	Box
Country of origin	CH
GTIN	4045454225292
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 10.0	EC002643
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals		Declarations of conformity and manufacturer's declarations
Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL 7813
CCA DEKRA Certification B.V.	EN 60947-7-4	71-112655
CSA DEKRA Certification B.V.	C22.2 No. 158	1711139
UR Underwriters Laboratories Inc.	UL 1059	E45172
		Approval
		EU-Declaration of Confor- mity WAGO GmbH & Co. KG
		UK-Declaration of Confor- mity WAGO GmbH & Co. KG

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	24-0095975-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/E0 BV



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 742-128

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Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

↓

CAD/CAE-Data

CAD data

2D/3D Models 742-128

↓

CAE data

EPLAN Data Portal 742-128

↓

ZUKEN Portal 742-128

↓

PCB Design

Symbol and Footprint via SamacSys 742-128

↓

Symbol and Footprint via Ultra Librarian 742-128

↓

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate







Item No.: 742-400

End plate; snap-fit type; 1.5 mm thick; blue

Item No.: 742-100

End plate; snap-fit type; 1.5 mm thick; gray

Item No.: 742-800

End plate; snap-fit type; 1.5 mm thick; green-yellow



1.1.2 Jumper

1.1.2.1 Jumper



[Item No.: 280-402](#)
Jumper; insulated; gray

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



[Item No.: 216-241](#)
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



[Item No.: 216-141](#)
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



[Item No.: 216-242](#)
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



[Item No.: 216-262](#)
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



[Item No.: 216-142](#)
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



[Item No.: 216-243](#)
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



[Item No.: 216-263](#)
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



[Item No.: 216-143](#)
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



[Item No.: 216-244](#)
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



[Item No.: 216-264](#)
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



[Item No.: 216-284](#)
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



[Item No.: 216-144](#)
Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

1.2.2 Test and measurement

1.2.2.1 Testing accessories



[Item No.: 210-136](#)
Test plug; 2 mm Ø; with 500 mm cable; red

1.2.3 Tool

1.2.3.1 Operating tool



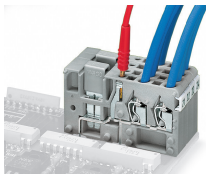
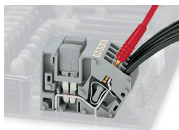
[Item No.: 210-720](#)
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



[Item No.: 210-657](#)
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Installation Notes

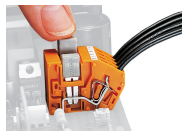
Testing



Testing – disconnect/test terminal block
Testing all types of terminal blocks via 2 mm or 2.3 mm Ø test plugs.

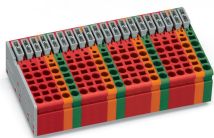
Testing – disconnect/test terminal block
Testing all types of terminal blocks via 2 mm or 2.3 mm Ø test plugs.

Commoning

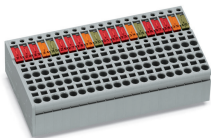


Commoning with adjacent jumpers.
Push jumper down until fully inserted.

Application



Mixed-color terminal strips are available upon request.



Mixed-color knife disconnect/test terminal strips are available upon request.



Custom terminal strips are available upon request.