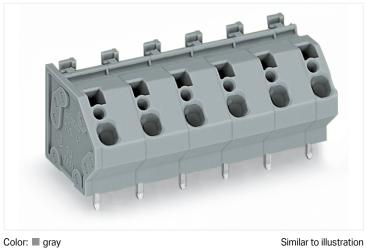
PCB terminal block; 4 mm²; Pin spacing 10 mm; 12-pole; CAGE CLAMP®; commo-

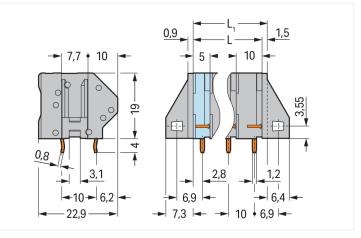
ning option; gray

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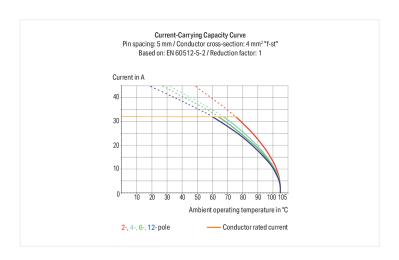




Similar to illustration



Dimensions in mm L = (pole no. - 1) x pin spacing + 5 mm



PCB terminal block, 745 Series, 45 °conductor entry to board

This PCB terminal block (item number 745-212) streamlines wire connections, making them both guick and easy. It offers the flexibility needed for different mounting types. This PCB terminal block has a rated voltage of 1000 V and can handle currents up to 32 A, making it ideal for high-load applications. Ensure that the strip lengths are between 8 mm and 9 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a proven and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The dimensions are 116.5 x 23 x 22.9 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm2 to 4 mm2. Up to twelve potentials / twelve poles can be connected to this terminal strip using twelve clamping points on one level. The gray housing is made of polyamide (PA66) for insulation, the clamping spring is made of chrome-nickel spring steel (CrNi), and the contacts are made of electrolytic copper (ECu). The contact surface is coated with tin. An operating tool is used to operate this PCB terminal block. THT is used to assemble the PCB terminal block. The conductor is designed to be inserted at a 45° angle.. The solder pins are organized over the entire terminal strip (in-line). They are 0.8 x 1.2 mm cross-section and 4 mm in length. Each potential has two solder pins.

N	0	t	е	S	
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Variants:

Other pole numbers Versions for Ex e II and Ex i Other colors Mixed-color PCB connector strips Versions with mounting flanges Direct marking

Other versions (or variants) can be requested from WAGO Sales or configured at https:// configurator.wago.com/.

Data Sheet | Item Number: 745-212 https://www.wago.com/745-212



Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	630 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Rated current	32 A	32 A	32 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	150 V	300 V
Rated current	20 A	20 A	10 A

Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	150 V	300 V
Rated current	20 A	20 A	10 A

Connection data			
Clamping units	12	Connection 1	
Total number of potentials	12	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	Solid conductor	0.08 4 mm² / 28 12 AWG
Number of jumper slots	1	Fine-stranded conductor	0.08 4 mm² / 28 12 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 2.5 mm ²
		Fine-stranded conductor; with uninsulated ferrule	0.25 2.5 mm ²
		Strip length	8 9 mm / 0.31 0.35 inches
		Conductor connection direction to PCB	45 °
		Pole number	12

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	116.5 mm / 4.587 inches
Height	23 mm / 0.906 inches
Height from the surface	19 mm / 0.748 inches
Depth	22.9 mm / 0.902 inches
Solder pin length	4 mm
Solder pin dimensions	0.8 x 1.2 mm
Drilled hole diameter with tolerance	1.5 ^(+0.1) mm

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

https://www.wago.com/745-212



Material data	
Note (material data)	Information on material specifications can be found here
	information on material specifications can be round here
Color	gray
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.728 MJ
Weight	35.5 g

Environmental requirements

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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	20 pcs
Packaging type	Вох
Country of origin	PL
GTIN	4044918671415
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

General approvals







Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7095
CCA DEKRA Certification B.V.	EN 60947	71-112275
CSA DEKRA Certification B.V.	C22.2 No. 158	1604421
UR Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

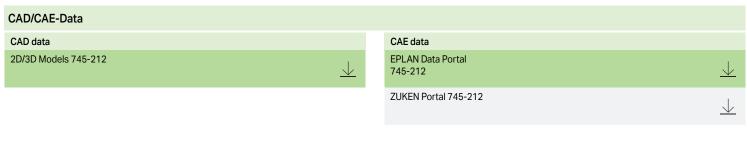
Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

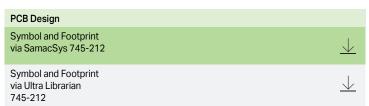
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Documentation Additional Information Technical Section pdf 03.04.2019 2027.26 KB







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1.1.1.1 Ferrule



Item No.: 216-246

Ferrule; Sleeve for 2.5 mm2 / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-266

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-286

Ferrule; Sleeve for 2.5 mm2 / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item No.: 216-106

Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

1.1.2 Jumper

1.1.2.1 Jumper



Item No.: 745-283

Jumper; 3-way; unplated; silver-colored



Item No.: 745-284

Jumper; 4-way; unplated; silver-colored



Item No.: 745-285

Jumper; 5-way; unplated; silver-colored



Item No.: 745-281

Jumper; silver-colored

1.1.3 Marking

1.1.3.1 Marker

Item No.: 2009-145/000-006

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-145/000-007

Item No.: 2009-145/000-024

plain; snap-on type; violet

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Mini-WSB Inline; for Smart Printer; 1700

pieces on roll; stretchable 5 - 5.2 mm;

Item No.: 2009-145/000-023

Item No.: 2009-145

plain; snap-on type; white

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Mini-WSB Inline; for Smart Printer; 1700

pieces on roll; stretchable 5 - 5.2 mm;

Item No.: 2009-145/000-012

Item No.: 2009-145/000-002

plain; snap-on type; yellow

Item No.: 248-501/000-017

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Mini-WSB Inline; for Smart Printer; 1700

pieces on roll; stretchable 5 - 5.2 mm;

Item No.: 2009-145/000-005

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 248-501/000-006

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue



Mini-WSB marking card; as card; not stret-

chable; plain; snap-on type; orange

Mini-WSB marking card; as card; not



Item No.: 248-501/000-007

stretchable; plain; snap-on type; gray



Item No.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

Item No.: 248-501/000-024

Item No.: 248-501/000-023

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet



Item No.: 248-501

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

Mini-WSB marking card; as card; not stret-

chable; plain; snap-on type; light green



WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

5.2 mm; plain; snap-on type; green

Item No.: 248-501/000-002

Item No.: 793-5501/000-017

Item No.: 248-501/000-012

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

5.2 mm; plain; snap-on type; light green



Item No.: 793-5501/000-006

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; blue



Item No.: 793-5501/000-007

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; gray



Item No.: 793-5501/000-005

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; red



Item No.: 793-5501/000-024

Item No.: 793-5501/000-023

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; violet



Item No.: 793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; white

Item No.: 793-5501/000-012 WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; orange



Item No.: 793-5501/000-002

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; yellow



Item No.: 793-501/000-006

WMB marking card; as card; not stretchable; plain; snap-on type; blue



Item No.: 793-501/000-007

WMB marking card; as card; not stretchable; plain; snap-on type; gray

https://www.wago.com/745-212



1.1.3.1 Marker









Item No.: 793-501/000-023

WMB marking card; as card; not stretchable; plain; snap-on type; green



WMB marking card; as card; not stretchable; plain; snap-on type; light green

WMB marking card; as card; not stretcha-

Item No.: 793-501/000-012

WMB marking card; as card; not stretchable; plain; snap-on type; orange

Item No.: 793-501/000-005

WMB marking card; as card; not stretchable; plain; snap-on type; red

Item No.: 793-501/000-024

WMB marking card; as card; not stretchable; plain; snap-on type; violet



ble; plain; snap-on type; white

Item No.: 793-501/000-017

Item No.: 793-501/000-002

WMB marking card; as card; not stretchable; plain; snap-on type; yellow



WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 2009-115/000-007 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-115/000-017

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

Item No.: 2009-115/000-012

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 2009-115/000-024

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.1.4 Test and measurement

1.1.4.1 Testing accessories



Item No.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red

1.1.5 Tool

1.1.5.1 Operating tool



Item No.: 210-658

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

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; multicolou-

Installation Notes

Conductor termination



Inserting/removing a conductor via 5.5 mm screwdriver - 745 Series, 16 mm².

https://www.wago.com/745-212



Marking



Marking via Mini-WSB and WMB markers or factory direct marking – 745 Series.

Testing



Testing with test plug - 745 Series.

Commoning



Inserting a comb-style jumper bar.



To insert a comb-style jumper bar, push it down using a screwdriver until it hits the backstop – 745 Series.



To remove the jumper bar, lift it up using a screwdriver – 745 Series.

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