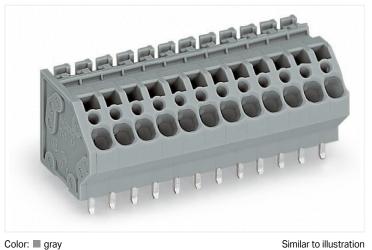
PCB terminal block; 4 mm<sup>2</sup>; Pin spacing 5 mm; 2-pole; CAGE CLAMP<sup>®</sup>; commoning

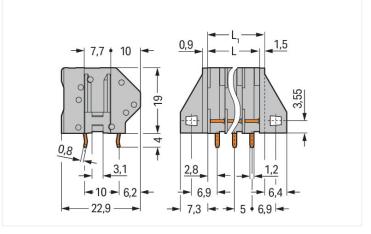
option; 4,00 mm<sup>2</sup>; gray

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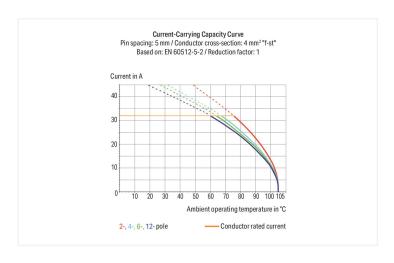


Similar to illustration



Dimensions in mm

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



- PCB terminal strips with screwdriver-actuated CAGE CLAMP® connection
- · Versions with Ex approval
- Common and distribute potentials via comb-style jumper bars
- Double solder pins for high mechanical stability
- Custom color combinations
- Integrated testing tap
- Marker slot for Mini-WSB markers

Notes	N	o	t	е	s	
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Variants:

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/.

Other pole numbers



Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Rated current	32 A	32 A	32 A

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

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

Connection data			
Connection points	2	Connection 1	
Total number of potentials	2	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 <sup>2</sup>
		Fine-stranded conductor; with uninsulated ferrule	0.25 2.5 mm <sup>2</sup>
		Strip length	8 9 mm / 0.31 0.35 inches
		Conductor connection direction to PCB	45°
		Pole number	2

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	11.5 mm / 0.453 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 <sup>(+0.1)</sup> mm

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

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Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	gray
Material group	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.078 MJ
Weight	4.5 g

# **Environmental requirements**

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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 8.0	EC002643
ETIM 7.0	EC002643
PU (SPU)	230 pcs
Packaging type	Box
Country of origin	PL
GTIN	4044918671002
Customs tariff number	85369010000

# **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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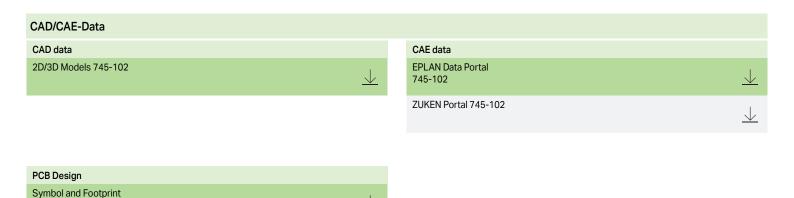
via SamacSys 745-102 Symbol and Footprint via Ultra Librarian 745-102

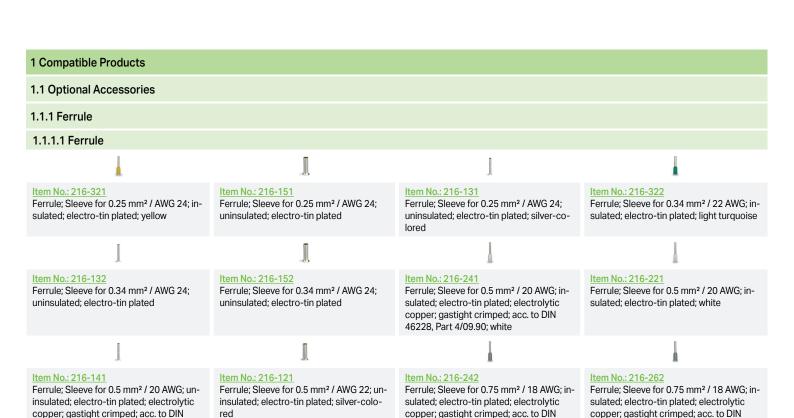
46228, Part 1/08.92



# Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 745-102

# Documentation Additional Information Technical Section pdf 03.04.2019 2027.26 KB





46228, Part 4/09.90; gray

46228, Part 4/09.90; gray

https://www.wago.com/745-102



# 1.1.1.1 Ferrule

Item No.: 216-222

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; 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.: 216-122

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-co-lored

Item No.: 216-243

Ferrule; Sleeve for 1 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-223

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red

Item No.: 216-143

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228. Part 1/08.92 Item No.: 216-123

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored

Item No.: 216-224

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

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 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-124

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated

Item No.: 216-144

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 Item No.: 216-246

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 14; uninsulated; electro-tin plated; silver-colored

1.1.2 Jumper

1.1.2.1 Jumper

Item No.: 745-180



Jumper; 10-way; silver-colored

Item No.: 745-181

Jumper; 2-way; unplated; silver-colored

999

Item No.: 745-182

Jumper; 2-way; unplated; silver-colored

988

Item No.: 745-183

Jumper; 3-way; unplated; silver-colored

Item No.: 745-184

Jumper; 4-way; unplated; silver-colored

Item No.: 745-185

Jumper; 5-way; unplated; 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

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray Item No.: 2009-145/000-023

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green Item No.: 2009-145/000-012

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

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.: 2009-145/000-024

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet Item No.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white Item No.: 2009-145/000-002

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

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### 1.1.3.1 Marker



# Item No.: 248-501/000-006

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



# Item No.: 248-501/000-007

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



# Item No.: 248-501/000-017

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



# Item No.: 248-501/000-012

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



# Item No.: 248-501/000-005

Item No.: 793-5501/000-006

Item No.: 793-5501/000-012

5.2 mm; plain; snap-on type; blue

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



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



# Item No.: 248-501/000-002

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 -

## 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

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -



# 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; green



# Item No.: 793-5501/000-017

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; 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; orange



5.2 mm; plain; snap-on type; red

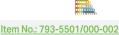
### Item No.: 793-5501/000-024

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.: 793-501/000-006

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



### Item No.: 793-501/000-023

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



WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

5.2 mm; plain; snap-on type; yellow

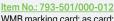
WMB marking card; as card; not stretcha-



# Item No.: 793-501/000-017

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

WMB marking card; as card; not stretcha-



ble; 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.: 793-501/000-002

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



Item No.: 2009-115/000-012

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



# 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.: 2009-115/000-023 WMB-Inline; for Smart Printer; 1500 pie-

Item No.: 2009-115

snap-on type; white

ces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

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

WMB-Inline; for Smart Printer; 1500 pie-

ces on roll; stretchable 5 - 5.2 mm; plain;



# 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

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# 1.1.5 Tool

# 1.1.5.1 Operating tool



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; multicoloured

# **Installation Notes**

# Conductor termination



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

# 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!

Current addresses can be found at:: www.wago.com

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