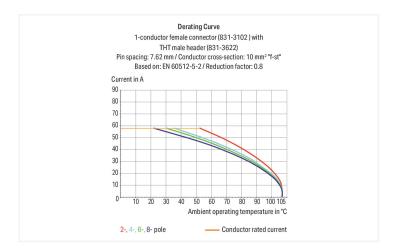
1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismating; 10,00 mm²; light gray

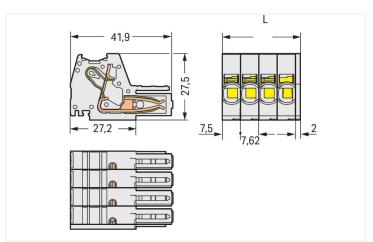
N/AGO

https://www.wago.com/831-3104



Color: ■ light gray





Dimensions in mm

L = (pole no. - 1) x pin spacing + 9.5 mm

- Universal connection for all conductor types
- · Push-in termination of solid or ferruled conductors
- Integrated test ports for 2 mm Ø test plugs
- 600 V UL per UL 1059
- 100 % protected against mismating
- Coding via coding fingers

N	$\sim$	٠	۵	•

Safety information

Variants:

The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Other pole numbers

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



Electrical data			
Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	1000 V	1000 V
Rated surge voltage	8 kV	8 kV	8 kV
Rated current	41 A	41 A	41 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	42 A	-

Approvals per		CSA	
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	41 A	-

n data				
on points	4		Connection 1	
er of potentials	4		Connection technology	Push-in CAGE CLAMP®
onnection types	1		Actuation type	Operating tool
Number of levels 1	1	1	Actuation direction 1	Operation parallel to conductor entry
			Solid conductor	0.5 10 mm² / 20 8 AWG
			Fine-stranded conductor	0.5 10 mm² / 20 8 AWG
			Fine-stranded conductor; with insulated ferrule	0.5 6 mm²
		Fine-stranded conductor; with uninsulated ferrule	0.5 6 mm²	
			Strip length	13 15 mm / 0.51 0.59 inches
			Pole number	4
			Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	7.62 mm / 0.3 inches
Width	32.36 mm / 1.274 inches
Height	27.6 mm / 1.087 inches
Depth	41.9 mm / 1.65 inches

Mechanical	data	
Variable codin	g Ye	s
Anti-rotation p	protection	S

Plug-in connection		
Contact type (pluggable connector)	Female connector/socket	
Connector (connection type)	for conductor	
Mismating protection	Yes	

https://www.wago.com/831-3104



Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Material of the additional spring for socket contact	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.432 MJ
Weight	29.8 g

## **Environmental requirements**

-60 ... +105 °C Limit temperature range Processing temperature -35 ... +60 °C

Commercial data	
Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	24 pcs
Packaging type	Вох
Country of origin	PL
GTIN	4045454002039
Customs tariff number	85366990990

## **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

## Approvals / Certificates

## General approvals







Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-61360/M1
CSA DEKRA Certification B.V.	C22.2	1466354
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-116057
UR Underwriters Laboratories Inc.	UL 1059	E45172

## Approvals for marine applications



Approval	Standard	Certificate Name
LR Lloyds Register	IEC 61984	96/20035 (E5)

https://www.wago.com/831-3104



### **Downloads**

### **Environmental Product Compliance**

### Compliance Search

**Environmental Product** Compliance 831-3104



### **Documentation**

### Additional Information

**Technical Section** 

03.04.2019

2027.26 KB



### CAD/CAE-Data

### CAD data

2D/3D Models 831-3104



CAE data

**EPLAN Data Portal** 831-3104

**ZUKEN Portal** 

831-3104



## 1 Compatible Products

### 1.1 System counterpart

Item No.: 831-3204

## 1.1.1 Male connector/plug

mating; 10,00 mm<sup>2</sup>; light gray





# Item No.: 831-3204/007-000

1-conductor male connector; Push-in CA-GE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mis-





### Item No.: 831-3204/007-9034

1-conductor male connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismating; DIN-35 rail mounting; direct marking; 10,00 mm<sup>2</sup>; light gray



## Item No.: 831-3204/000-9034

1-conductor male connector; Push-in CA-GE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismating; direct marking; 10,00 mm²; light gray



## Item No.: 831-3204/135-000

1-conductor male connector; Push-in CA-GE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismating; Strain relief plate; 10,00 mm<sup>2</sup>; light



THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismating; Pin spacing 7.62 mm; 4-pole; light gray

# Item No.: 831-3644

THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismating; Pin spacing 7.62 mm; 4-pole; light gray



### Item No.: 831-3604

THT male header; 1.0 x 1.2 mm solder pin; straight; 100% protected against mismating; Pin spacing 7.62 mm; 4-pole; light gray



### 1.2 Optional Accessories 1.2.1 Ferrule 1.2.1.1 Ferrule Item No.: 216-131 Item No.: 216-151 Item No.: 216-132 Item No.: 216-152 Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; Ferrule: Sleeve for 0.25 mm2 / AWG 24: Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated uninsulated; electro-tin plated; silver-couninsulated; electro-tin plated uninsulated; electro-tin plated lored Item No.: 216-241 Item No.: 216-201 Item No.: 216-221 Item No.: 216-141 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-Ferrule; Sleeve for 0.5 mm2 / 20 AWG; in-Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; unsulated; electro-tin plated; electrolytic sulated; electro-tin plated; white sulated; electro-tin plated; white insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 46228. Part 4/09.90; white Item No.: 216-101 Item No.: 216-121 Item No.: 216-242 Item No.: 216-262 Ferrule: Sleeve for 0.5 mm<sup>2</sup> / AWG 22: un-Ferrule: Sleeve for 0.5 mm<sup>2</sup> / AWG 22: un-Ferrule: Sleeve for 0.75 mm<sup>2</sup> / 18 AWG: in-Ferrule: Sleeve for 0.75 mm<sup>2</sup> / 18 AWG: insulated; electro-tin plated; electrolytic sulated; electro-tin plated; electrolytic insulated; electro-tin plated; silver-coloinsulated; electro-tin plated; silver-colocopper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN red red 46228, Part 4/09.90; gray 46228, Part 4/09.90; gray Item No.: 216-202 Item No.: 216-222 Item No.: 216-142 Item No.: 216-102 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; sulated; electro-tin plated; gray sulated; electro-tin plated; gray uninsulated; electro-tin plated; electrolyuninsulated; electro-tin plated; silver-cotic copper; gastight crimped; acc. to DIN lored 46228, Part 1/08.92 Item No.: 216-122 Item No.: 216-243 Item No.: 216-263 Item No.: 216-203 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insu-Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insu-Ferrule; Sleeve for 1 mm2 / AWG 18; insulated; electro-tin plated; electrolytic copuninsulated; electro-tin plated; silver-colated; electro-tin plated; electrolytic coplated; electro-tin plated; red lored per; gastight crimped; acc. to DIN 46228, per; gastight crimped; acc. to DIN 46228, Part 4/09.90; red Part 4/09.90; red Item No.: 216-223 Item No.: 216-103 Item No.: 216-143 Item No.: 216-123 Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; unin-Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; unin-Ferrule; Sleeve for 1 mm2 / AWG 18; insu-Ferrule; Sleeve for 1 mm2 / AWG 18; uninlated; electro-tin plated; red sulated; electro-tin plated sulated; electro-tin plated; electrolytic sulated; electro-tin plated; silver-colored copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 Item No.: 216-204 Item No.: 216-224 Item No.: 216-244 Item No.: 216-264 Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; in-Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; in-Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; in-Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black sulated; electro-tin plated; black sulated; electro-tin plated; electrolytic sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black 46228. Part 4/09.90: black Item No.: 216-124 Item No.: 216-104 Item No.: 216-284 Item No.: 216-144 Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; in-Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; un-Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; un-Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; unsulated; electro-tin plated; electrolytic insulated; electro-tin plated; electrolytic insulated; electro-tin plated insulated; electro-tin plated; silver-colocopper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black 46228, Part 1/08.92; silver-colored Item No.: 216-205 Item No.: 216-206 Item No.: 216-246 Item No.: 216-266 Ferrule; Sleeve for 2.08 mm<sup>2</sup> / AWG 14; in-Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; in-Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; in-Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic sulated; electro-tin plated; electrolytic sulated; electro-tin plated; yellow sulated; electro-tin plated; blue copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue 46228, Part 4/09.90; blue

https://www.wago.com/831-3104

### 1.2.1.1 Ferrule



### 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

## Item No.: 216-267

Ferrule; Sleeve for 4 mm<sup>2</sup> / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

### Item No.: 216-287

Ferrule; Sleeve for 4 mm<sup>2</sup> / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

### Item No.: 216-207

Ferrule; Sleeve for 4 mm<sup>2</sup> / AWG 12; insulated; electro-tin plated; gray

### Item No.: 216-107

Ferrule; Sleeve for 4 mm<sup>2</sup> / AWG 12; uninsulated; electro-tin plated

### Item No.: 216-208

Ferrule; Sleeve for 6 mm<sup>2</sup> / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

### Item No.: 216-288

Ferrule; Sleeve for 6 mm<sup>2</sup> / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

### Item No.: 216-108

Ferrule; Sleeve for 6 mm<sup>2</sup> / AWG 10; uninsulated; electro-tin plated; silver-colored

### 1.2.2 Marking

### 1.2.2.1 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

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

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

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

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

Mini-WSB marking card; as card; not

## pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Mini-WSB Inline; for Smart Printer; 1700

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

stretchable; plain; snap-on type; gray





## Item No.: 248-501/000-023

plain; snap-on type; white

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

# Item No.: 248-501

Item No.: 2009-145

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

Item No.: 248-501/000-002

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

Item No.: 248-501/000-006

chable; plain; snap-on type; blue

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



Item No.: 793-5501/000-014

### Item No.: 248-501/000-005 Mini-WSB marking card; as card; not

stretchable; plain; snap-on type; red



Item No.: 793-5501/000-007 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -

# chable; plain; snap-on type; yellow

Item No.: 793-5501/000-023

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

### 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



WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

5.2 mm; plain; snap-on type; brown

Item No.: 793-5501/000-012 WMB marking card; as card; for terminal 5.2 mm; plain; snap-on type; gray

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

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



### Item No.: 793-5501/000-005 WMB marking card; as card; for terminal

Item No.: 793-501/000-006

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



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

### 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.: 793-501/000-007

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

### Item No.: 793-5501

Page 6/9

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.: 793-5501/000-002

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

https://www.wago.com/831-3104



### 1.2.2.1 Marker









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

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



### 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-

WMB-Inline; for Smart Printer; 1500 pie-

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





Item No.: 793-501/000-012 WMB marking card; as card; not stretchable; plain; snap-on type; orange



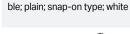
## Item No.: 793-501/000-005

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

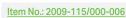


Item No.: 2009-115/000-023

Item No.: 793-501

## 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



### 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

snap-on type; green

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 pie-

## 1.2.2.2 Marking strip



Marking strips; for Smart Printer; cut to a defined length; MARKED; Specialty prin-

ting; not stretchable; Horizontal marking;



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



Item No.: 2009-110/762-802

snap-on type; white



Item No.: 2009-110/762-807

snap-on type; white

Marking strips; for Smart Printer; cut to a defined length; MARKED; Specialty printing; not stretchable; Horizontal marking;



Marking strips; for Smart Printer; cut to a defined length; MARKED; Specialty printing; not stretchable; Horizontal marking; snap-on type; white



## Item No.: 2009-110/762-805

Marking strips; for Smart Printer; cut to a defined length; MARKED; Specialty printing; not stretchable; Horizontal marking; snap-on type; white



## Item No.: 2009-110/762-806

Marking strips; for Smart Printer; cut to a defined length; MARKED; Specialty printing; not stretchable; Horizontal marking; snap-on type; white

snap-on type; white



Marking strips; for Smart Printer; cut to a

defined length; MARKED; Specialty prin-

ting; not stretchable; Horizontal marking;

## Item No.: 2009-110/762-808

Marking strips; for Smart Printer; cut to a defined length; MARKED; Specialty printing; not stretchable; Horizontal marking; snap-on type; white



## Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

## 1.2.3 Strain relief

## 1.2.3.1 Strain relief plate



### Item No.: 831-505

Strain relief plate; for female and male connectors; 30 mm wide; 1 part; Pin spacing 7.62 mm; light gray

https://www.wago.com/831-3104



### 1.2.4 Test and measurement

## 1.2.4.1 Testing accessories



Item No.: 210-136

Test plug; 2 mm  $\emptyset$ ; with 500 mm cable; red

## 1.2.5 Tool

## 1.2.5.1 Operating tool



Item No.: 210-721

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

## **Installation Notes**

## **Conductor termination**

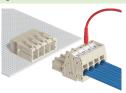




Inserting fine-stranded conductors via  $(5.5 \times 0.8)$  mm screwdriver.

Solid and ferruled conductors are terminated by simply pushing them into unit.

## Testing



Testing with 2 mm Ø test plug.

## Coding



Break or cut off coding pin from female connector.

https://www.wago.com/831-3104



## Marking







MCS MAXI male and female connectors can also be marked via Mini-WSB or WMB markers.

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