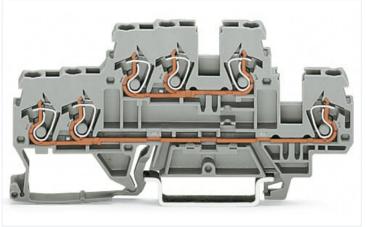
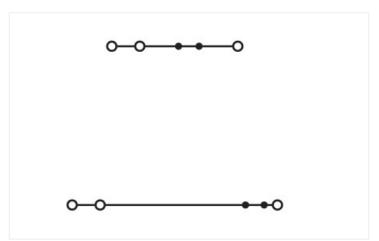
3-conductor, double-deck terminal block; Through/through terminal block; L/N; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm<sup>2</sup>; CAGE CLAMP<sup>®</sup>; 2,50 mm<sup>2</sup>; gray



## https://www.wago.com/870-533





Color: gray

Similar to illustration

Similar to illustration

## Notes

Safety information 1

Max. insulation diameter: 4.4 mm

Electrical data	
Ratings per IEC/EN	
Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated current	24 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Power loss	
Power loss, per pole (potential)	0.7661 W
Rated current $I_N$ for specified power loss	24 A
Resistance value for specified, current- dependent power loss	0.00133 Ω

Connection data			
Connection points	6	Connection 1	
Total number of potentials	2	Connection technology CAGE CLAMP®	
Number of levels	2	Actuation type Operating tool	
		Connectable conductor materials Copper	
		Solid conductor 0.08 2.5 mm <sup>2</sup> / 28	12 AWG
		Fine-stranded conductor 0.08 4 mm² / 28 1	2 AWG
		Fine-stranded conductor; with insulated 0.08 1.5 mm² / 28	14 AWG

Actuation type	Operating tool
Connectable conductor materials	Copper
Solid conductor	0.08 2.5 mm² / 28 12 AWG
Fine-stranded conductor	0.08 4 mm² / 28 12 AWG
Fine-stranded conductor; with insulated ferrule	0.08 1.5 mm² / 28 14 AWG
Strip length	6 7 mm / 0.24 0.28 inches
Wiring direction	Front-entry wiring

https://www.wago.com/870-533



## Physical data

Width 5 mm / 0.197 inches Height 91 mm / 3.583 inches 40 mm / 1.575 inches Depth from upper-edge of DIN-rail

## **Mechanical Data**

Potential marking L/N

Design horizontal type Mounting type DIN-35 rail Side marking Marking level

## **Material Data**

Note (material data)

Color gray Material group Insulation material Polyamide (PA66) V0 Flammability class per UL94

Fire load 0.201 MJ Weight 14 g

## **Environmental requirements**

-35 ... +85 °C Processing temperature Continuous operating temperature -60 ... +105 °C

## Commercial data

eCl@ss 10.0 27-14-11-20 eCl@ss 9.0 27-14-11-20 ETIM 8.0 EC000897 ETIM 7.0 EC000897 PU (SPU) 50 pcs Box Packaging type DE Country of origin GTIN 4045454094485 Customs tariff number 85369010000

## Approvals and certificates

## General approvals





Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7468
CCA DEKRA Certification B.V.	EN 60947	2189801.01
cURus UL International Germany GmbH	UL 1059	E45172

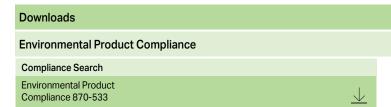
## Approvals for marine applications



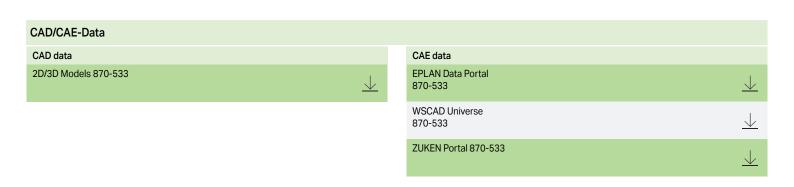


Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	20-HG1941090-PDA
LR Lloyds Register	EN 60947	91/20112 (E9)











# 1.2 Optional accessories 1.2.1 DIN-rail

https://www.wago.com/870-533



## 1.2.1.1 Mounting accessories



### Item No.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

## Item No.: 210-198

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

## Item No.: 210-508

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored

## Item No.: 210-197

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



#### Item No.: 210-506

Item No.: 210-112

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

#### Item No.: 210-114

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

## Item No.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to FN 60715; silver-colored

## Item No.: 210-115

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored



Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

### Item No.: 210-504

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

#### Item No.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715: silver-colored

## Item No.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

#### 1.2.2 Ferrule

#### 1.2.2.1 Ferrule

## 1

#### Item No.: 216-321

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

#### Item No.: 216-131

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored

## Item No.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

## Item No.: 216-132

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated



## Item No.: 216-221

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white

## Item No.: 216-121

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

## Item No.: 216-222

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

## Item No.: 216-122

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



## Item No.: 216-223

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

## 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.: 216-124

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

## 1.2.3 Installation

## 1.2.3.1 Mounting accessories



## Item No.: 209-106

Mounting carrier; for isolated mounting on DIN 35 rails; gray

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## Item No.: 249-117

Screwless end stop; 10 mm wide; for DIN-rail  $35 \times 15$  and  $35 \times 7.5$ ; gray

## .110.)

## Item No.: 249-116

Screwless end stop; 6 mm wide; for DIN-rail  $35 \times 15$  and  $35 \times 7.5$ ; gray

## 1.2.4 Insulation stop

https://www.wago.com/870-533



## 1.2.4.1 Insulation stop







Item No.: 280-470

Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 5 pieces/strip; white

Item No.: 280-471

Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/ strip; light gray Item No.: 280-472

Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/ strip; black

## 1.2.5 Jumper

### 1.2.5.1 Jumper





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Item No.: 870-404

Item No.: 870-405/011-000

Item No.: 870-407/011-000

Item No.: 870-409/011-000





Item No.: 870-402



Item No.: 870-406/020-000

Delta jumper; insulated; light gray

Item No.: 870-410 Jumper; 10-way; insulated; light gray

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Jumper; 2-way; insulated; light gray

Item No.: 870-403

Jumper; 3-way; insulated; light gray



Item No.: 870-405

Jumper; 5-way; insulated; light gray

Item No.: 870-406

Jumper; 6-way; insulated; light gray

Item No.: 870-407

Jumper; 7-way; insulated; light gray

Item No.: 870-408

Jumper; 8-way; insulated; light gray



<u>Item No.: 870-409</u> Jumper; 9-way; insulated; light gray (vvv

Item No.: 870-440
Jumper; from 1 to 10; insulated; light gray

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<u>Item No.: 870-433</u> Jumper; from 1 to 3; insulated; light gray 1000.

Item No.: 870-434 Jumper; from 1 to 4; insulated; light gray



Item No.: 870-435

Jumper; from 1 to 5; insulated; light gray

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Item No.: 870-436
Jumper; from 1 to 6; insulated; light gray

Item No.: 870-437
Jumper; from 1 to 7; insulated; light gray

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Item No.: 870-438
Jumper; from 1 to 8; insulated; light gray



Item No.: 870-439

Jumper; from 1 to 9; insulated; light gray

## 1.2.6 Marking

## 1.2.6.1 Group marker carrier



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Item No.: 870-184

Adaptor; gray

1.2.6.2 Marker

Item No.: 870-182

Adaptor; gray

## 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.: 870-183

Adaptor; gray

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.: 248-501/000-006

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue 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.: 248-501/000-007

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

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.: 248-501/000-023

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

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



Item No.: 248-501/000-017

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

https://www.wago.com/870-533



### 1.2.6.2 Marker



## 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

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



## Item No.: 248-501/000-024

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



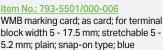
### Item No.: 248-501

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



## 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 -

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

WMB marking card; as card; not stretcha-

5.2 mm; plain; snap-on type; orange

## 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

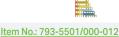


## Item No.: 793-5501/000-023

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



## Item No.: 793-5501/000-005

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



Item No.: 793-5501/000-024

5.2 mm; plain; snap-on type; red

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



ble; plain; snap-on type; light green

Item No.: 793-501/000-017

WMB marking card; as card; not stretcha-



## Item No.: 793-501/000-012

ble; plain; snap-on type; orange



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.: 793-501

WMB marking card; as card; not stretchable; 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.: 2009-115/000-006

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 pie-



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.: 2009-115/000-023

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



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

## 1.2.6.3 Marking strip



## Item No.: 709-196

Marking strips; for laser printer; translucent

## Item No.: 709-177

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; translu-

## Item No.: 709-178

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white

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## 1.2.7 Protective warning marker

https://www.wago.com/870-533



## 1.2.7.1 Cover



Item No.: 280-405

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

## 1.2.8 Test and measurement

## 1.2.8.1 Testing accessories



Item No.: 870-427

Spacer module; modular; bridging commoned terminal blocks; gray

## Item No.: 870-426

Tap-off module; modular; suitable for 870 Series terminal blocks with jumper slots in the current bar; gray

## Item No.: 870-425

Tap-off module; with anti-rotation protection; modular; suitable for 870 Series terminal blocks with jumper slots in the current bar; gray

## 1.2.9 Tool

## 1.2.9.1 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

## Installation



Removing a terminal block from the assembly.

https://www.wago.com/870-533



## Conductor termination



CAGE CLAMP® connection Inserting a conductor via operating tool (0.08 ... 4 mm² "f-st"). With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-secti-

## Commoning



Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on the right and then left side until installed.

Push-in type jumper bars 1-3-5-7 or 1-4-7

upon request



Commoning with push-in type jumper bars:

Two parallel jumper slots are accommodated in one terminal block.

## **Testing**



Testing with phase testing device, also possible with single-pole voltage tester.



Testing is also possible using a pre-wired tap-off module assembly in the very same way as test plugs.

## Cover



Protective warning markers (280-405), with a black high-voltage symbol

https://www.wago.com/870-533





Use 50% less rail space with double-deck terminal blocks.

## Marking



WMB markers in Mini-WSB marker slots Translucent marking strip Mini-WSB markers



Translucent marking strip (709-196) – jumpers below may be visible.



In addition to the plastic marker strips, group marker carriers are now available for the WMB and WSB marking systems. They can be mounted in parallel to a push-in type jumper bar via the open jumper contact slot. It is also very useful if the marker slots on the side of the terminal block are hidden. The carriers are available in the following widths: 5 mm (0.197 inch), 10 mm (0.394 inch) and 15 mm (0.591 inch).

Notice:

Group marker carriers are not suitable for ground conductor terminal blocks and double potential terminal blocks as they have no jumper contact slots.

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