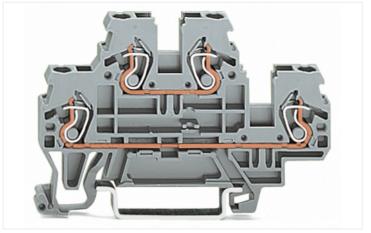
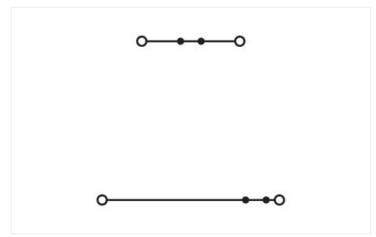
Double-deck terminal block; Through/through terminal block; L/N; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP[®]; 2,50 mm²; gray



https://www.wago.com/870-503





Color: ■ gray

Similar to illustration

Similar to illustration

Double-deck terminal block, 870 Series, CAGE CLAMP®

Our double-deck terminal block (item number 870-503) is designed for seamless electrical installations. The double-deck terminal block also serves as a through terminal block. Strip lengths must be between 6 mm and 7 mm when connecting conductors to this double-deck terminal block. This product incorporates conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a secure 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. This double-deck terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It has two levels. You can connect two potentials using the four clamping points. The gray housing is made of polyamide (PA66) for insulation. These through rail-mount terminal blocks are mounted using DIN-35 rails..

| Notes | |
|--------------------|----------------------------------|
| Safety Information | Max. insulation diameter: 4.4 mm |

| Electrical data | | | |
|----------------------|------------------|-----|----|
| Ratings per | IEC/EN 60947-7-1 | | |
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 500 V | - | - |
| Rated surge voltage | 6 kV | - | - |
| Rated current | 24 A | - | - |

| 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 | | |
|----------------------------|---|--|
| Clamping units | 4 | |
| Total number of potentials | 2 | |
| Number of levels | 2 | |
| | | |

| Connection 1 | |
|---|---------------------------|
| Connection technology | CAGE CLAMP® |
| 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/870-503

Depth from upper-edge of DIN-rail



Physical data Width 5 mm / 0.197 inches Height 70 mm / 2.756 inches

Mechanical data Potential marking L/N Design horizontal type DIN-35 rail Mounting type Marking level Side marking

40 mm / 1.575 inches

Material data Note (material data) Color gray Material group Insulation material (main housing) Polyamide (PA66) Flammability class per UL94 V0 Fire load 0.169 MJ Weight 10.1 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 9.0 EC000897 ETIM 8.0 EC000897 PU (SPU) 50 pcs Packaging type Box DE Country of origin GTIN 4044918630894 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 7468 |
| CCA DEKRA Certification B.V. | EN 60947 | 2189801.01 |
| cURus UL International Germany GmbH | UL 1059 | E45172 |

Declarations of conformity and manufacturer's declarations

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

https://www.wago.com/870-503



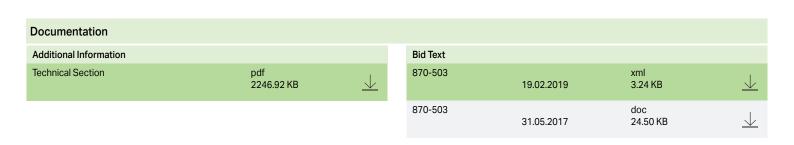
Approvals for marine applications

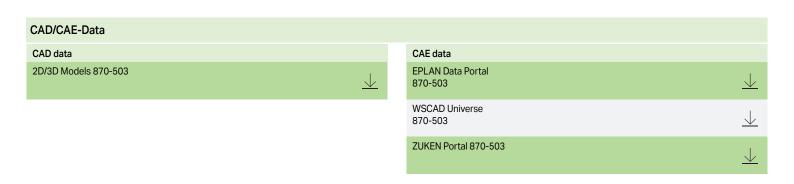




| Approval | Standard | Certificate Name |
|---|----------|------------------|
| ABS American Bureau of Ship- ping | - | 20-HG1941090-PDA |
| DNV GL Det Norske Veritas, Ger- manischer Lloyd | - | TAE00001V2 |

Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 870-503







https://www.wago.com/870-503



1.2 Optional Accessories

1.2.1 DIN-rail

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.: 210-508

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

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 EN 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

Item No.: 210-112

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



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

Item No.: 216-321

Ferrule; Sleeve for 0.25 mm² / 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



Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-

sulated; electro-tin plated; white

Item No.: 216-121

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

Item No.: 216-222

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-122

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-co-



Item No.: 216-223

Item No.: 216-221

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-123

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored

Item No.: 216-224

Ferrule; Sleeve for 1.5 mm² / 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

Item No.: 209-106

DIN 35 rails; gray

1.2.3.1 Mounting accessories



Mounting carrier; for isolated mounting on

Item No.: 249-117

Screwless end stop; 10 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

Item No.: 249-116

Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

https://www.wago.com/870-503



1.2.4 Insulation stop

1.2.4.1 Insulation stop



Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm2 "f-st"); 5 pieces/strip; white



Item No.: 280-471

Insulation stop; 0.25 - 0.5 mm2; 5 pieces/ strip; light gray



Item No.: 280-472

Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip; black

1.2.5 Jumper

1.2.5.1 Jumper



Item No.: 870-407/011-000

Item No.: 870-409/011-000

Item No.: 870-406/020-000

Delta jumper; insulated; light gray



Item No.: 870-405/011-000

Item No.: 870-410 Jumper; 10-way; insulated; light gray Item No.: 870-402

Jumper; 2-way; insulated; light gray

Item No.: 870-403

Jumper; 3-way; insulated; light gray

Item No.: 870-404

Jumper; 4-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

Item No.: 870-409

Jumper; 9-way; insulated; light gray

Item No.: 870-440

Jumper; from 1 to 10; insulated; light gray

Tunny

Item No.: 870-433

Jumper; from 1 to 3; insulated; light gray

Jununy

Item No.: 870-434

Jumper; from 1 to 4; insulated; light gray

mum

Item No.: 870-435

Jumper; from 1 to 5; insulated; light gray

Item No.: 870-436

Jumper; from 1 to 6; insulated; light gray

Item No.: 870-437

Jumper; from 1 to 7; insulated; light gray

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



Item No.: 870-182 Adaptor; gray

Item No.: 870-183

Adaptor; gray

Item No.: 870-184 Adaptor; gray

1.2.6.2 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

Item No.: 248-501/000-007

Item No.: 248-501/000-005

Item No.: 793-5501/000-006

Item No.: 793-5501/000-012

Item No.: 793-5501/000-002

Item No.: 793-501/000-017

ble; plain; snap-on type; white

Item No.: 2009-115/000-023

Item No.: 793-501

Mini-WSB marking card; as card; not

stretchable; plain; snap-on type; gray

Mini-WSB marking card; as card; not

stretchable; plain; snap-on type; red

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; for terminal

block width 5 - 17.5 mm; stretchable 5 -

WMB marking card; as card; not stretcha-

WMB marking card; as card; not stretcha-

5.2 mm; plain; snap-on type; yellow

ble; plain; snap-on type; light green

5.2 mm; plain; snap-on type; orange

5.2 mm; plain; snap-on type; blue

https://www.wago.com/870-503

1.2.6.2 Marker



Item No.: 248-501/000-006

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



Item No.: 248-501/000-012

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



Item No.: 248-501/000-002

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



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

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.: 793-501/000-023

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



Item No.: 793-501/000-024

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



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.: 2009-115/000-024

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

WMB-Inline; for Smart Printer; 1500 pie-

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

Item No.: 793-501/000-002

ble; plain; snap-on type; yellow



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.: 2009-115/000-002

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

Item No.: 248-501/000-023

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



Item No.: 248-501/000-017

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



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

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; violet

5.2 mm; plain; snap-on type; green

chable; plain; snap-on type; white

Item No.: 793-5501/000-023

Item No.: 793-5501/000-024

Item No.: 793-501/000-007

ble; plain; snap-on type; gray

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

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



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.: 793-501/000-006 WMB marking card; as card; not stretchable; plain; snap-on type; blue



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



WMB marking card; as card; not stretcha-

Item No.: 793-501/000-005

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



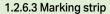
Item No.: 2009-115/000-006

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



Item No.: 2009-115/000-012

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





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

https://www.wago.com/870-503



1.2.7 Protective warning marker

1.2.7.1 Cover



Item No.: 280-405

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

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



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: $3.5\,\mathrm{x}\,0.5$ 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.

Conductor termination



CAGE CLAMP® connection

Inserting a conductor via operating tool (0.08 \dots 4 mm² "f-st").

With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-section.

https://www.wago.com/870-503



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.

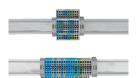


Testing is also possible using a pre-wired tap-off module assembly in the very same way as test plugs.

Cover



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



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

https://www.wago.com/870-503



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!

Page 9/9 Version 15.02.2025