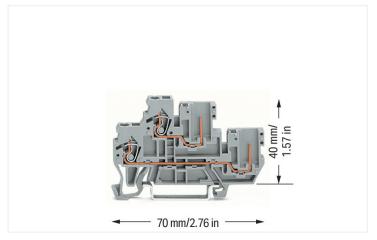
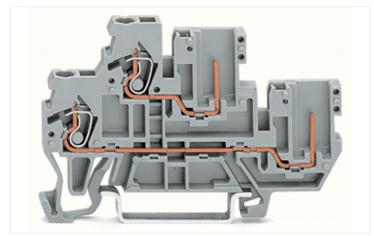
1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; 2.5 mm 2 ; L/L; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP 6 ; 2,50 mm 2 ; gray

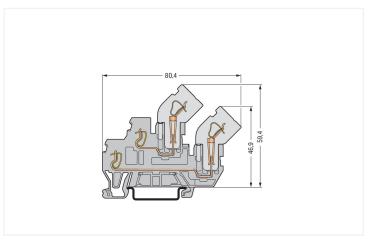


https://www.wago.com/870-101





Color: gray



Carrier terminal block

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

This double-deck terminal block (item number 870-101) simplifies electrical installations. Pluggable rail-mount terminal blocks are hugely popular in switchgear and control systems, for example, in railroad technology. They combine the best of rail-mount terminal blocks and connectors to create the perfect solution. Variable wiring systems make pre-assembly easy, which leads to considerable time and cost savings in production, installation, operation, and maintenance. The double-deck terminal block also functions as a through terminal block. Our pluggable rail-mount terminal block is rated for 500 V and is designed to handle a rated current of up to 16 A. Strip lengths must be between 6 mm and 7 mm when connecting conductors to this double-deck terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our reliable and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. Depending on the conductor type, this double-deck terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It has two levels. Two potentials can connect using the two clamping points The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this pluggable rail-mount terminal block. These pluggable rail-mount terminal blocks are mounted using DIN-35 rails. You can connect copper conductors thanks to front-entry wiring.

Data Sheet | Item Number: 870-101 https://www.wago.com/870-101



Notes

Safety Information Max. insulation diameter: 4.4 mm

Safety information 2 2-conductor female plugs cannot be used.

| Electrical data | | | | | |
|---|---|---------------|---|---------|---|
| Ratings per IEC/EN | | Approvals per | | UL 1059 | |
| Nominal voltage (III/3) | 500 V | Use group | В | С | D |
| Rated impulse withstand voltage (III / 3) | 6 kV | Rated voltage | - | - | - |
| Rated current | 16 A | | | | |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 | | | | |

| Approvals per | С | SA 22.2 No 158 | 3 | Power Loss | |
|---------------|---|----------------|---|--|-----------|
| Use group | В | С | D | Power loss, per pole (potential) | 0.3405 W |
| Rated voltage | - | - | - | Rated current I_N for specified power loss | 16 A |
| | | | | Resistance value for specified, current- dependent power loss | 0.00133 Ω |

| Connection data | | | |
|----------------------------|---|---|---------------------------|
| Clamping units | 2 | 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 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 |

| Physical data | |
|-----------------------------------|----------------------|
| Width | 5 mm / 0.197 inches |
| Height | 70 mm / 2.756 inches |
| Depth from upper-edge of DIN-rail | 40 mm / 1.575 inches |

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

https://www.wago.com/870-101



| Material data | |
|------------------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | gray |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.163 MJ |
| Weight | 9.1 g |

| Environmental requirements | |
|----------------------------------|-------------|
| Processing temperature | -35 +85 °C |
| Continuous operating temperature | -60 +105 °C |

| Commercial data | |
|-----------------------|---------------|
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4045454004446 |
| Customs tariff number | 85366990990 |

| Product classification | |
|------------------------|----------------------|
| UNSPSC | 39121410 |
| eCl@ss 10.0 | 27-14-11-20 |
| eCl@ss 9.0 | 27-14-11-20 |
| ETIM 9.0 | EC000897 |
| ETIM 8.0 | EC000897 |
| 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 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 Confor- mity WAGO GmbH & Co. KG | - | - |
| Railway WAGO GmbH & Co. KG | - | Z00004430.000 |
| UK-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |

https://www.wago.com/870-101



Approvals for marine applications



| Approval | Standard | Certificate Name |
|---|----------|------------------|
| ABS American Bureau of Ship- ping | - | 20-HG1941090-PDA |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 870-101



Documentation

| Bid Text | | | |
|----------|------------|-----------------|--------------------------|
| 870-101 | 19.02.2019 | xml 3.20 KB | $\underline{\downarrow}$ |
| 870-101 | 04.10.2017 | doc 24.50 KB | $\underline{\downarrow}$ |

CAD/CAE-Data

CAD data

2D/3D Models 870-101



CAE data

EPLAN Data Portal



WSCAD Universe 870-101





1 Compatible Products

1.1 System counterpart

Item No.: 769-101/022-000

1.1.1 Female connector/socket

1-conductor female connector, angled;

1-pole; coding finger; 4,00 mm²; gray

CAGE CLAMP®; 4 mm²; Pin spacing 5 mm;







Item No.: 769-110/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 11pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



Item No.: 769-112/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 12pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



Item No.: 769-113/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 13pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 14pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



Item No.: 769-115/145-000

Item No.: 769-111/145-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 15pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray



1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray

https://www.wago.com/870-101



1.1.1 Female connector/socket

Item No.: 769-101/141-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

Item No.: 769-102/142-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 2-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

Item No.: 769-103/142-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 3-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

Item No.: 769-104/143-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 4-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

Item No.: 769-105/143-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 5-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

Item No.: 769-106/144-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 6-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

Item No.: 769-107/144-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 7-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

Item No.: 769-108/144-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 8-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

Item No.: 769-109/144-000

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray

1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate





Item No.: 870-118

End and intermediate plate; 1 mm thick; gray

Item No.: 870-119

End and intermediate plate; 1 mm thick; orange

1.3 Optional Accessories

1.3.1 Coding

1.3.1.1 Coding



Item No.: 769-435

Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange

1.3.2 Cover

1.3.2.1 Cover





Item No.: 769-438

Pin cover; with marker slot for miniature WSB; gray

Item No.: 769-439

Pin cover; with marker slot for miniature WSB; orange

https://www.wago.com/870-101



1.3.3 DIN-rail

1.3.3.1 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



<u>Item No.: 210-198</u> 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

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

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

1.3.4 Ferrule

1.3.4.1 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-co-lored

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 mm² / 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 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-colored





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

1.3.5 Installation

1.3.5.1 Mounting accessories





Item No.: 209-106

Mounting carrier; for isolated mounting on DIN 35 rails; 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/870-101



1.3.6 Insulation stop

1.3.6.1 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

1.3.7 Jumper

1.3.7.1 Jumper



Item No.: 870-407/011-000



Item No.: 870-409/011-000 Item No.: 870-406/020-000

Delta jumper; insulated; light gray

HIMM

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

muny

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

1.3.8 Marking

1.3.8.1 Group marker carrier



Adaptor; gray

Item No.: 870-182 Adaptor; gray

Item No.: 870-183

Item No.: 870-184 Adaptor; gray

1.3.8.2 Marker



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



Item No.: 248-501

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

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

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



Item No.: 2009-115

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

https://www.wago.com/870-101



1.3.8.3 Marker carrier



Item No.: 2009-198 Adaptor; gray

1.3.9 Protective warning marker

1.3.9.1 Cover



Item No.: 280-405

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

1.3.10 Test and measurement

1.3.10.1 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

1.3.11 Tool

1.3.11.1 Operating tool



Item No.: 210-720

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

Installation Notes

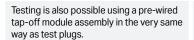


Commoning a double-deck through terminal block (870-501) with a 1-conductor/1-pin double-deck terminal block (870-101) via push-in type jumper bar.

https://www.wago.com/870-101









Testing with voltage tester.





Carrier terminal block

Carrier terminal block



Angled female plugs provide reduced installation height.



1-conductor/1-pin double-deck carrier terminal block

1-conductor female plug, angled*
*1-conductor straight female plug is also



1-conductor female plug, angled Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type Jumper Bars.

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