

**Data sheet | Item number: 870-102**

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

[www.wago.com/870-102](http://www.wago.com/870-102)



 Picture differs from the item.

Color:

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

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## Data

### 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

Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated current	16 A
Legend (ratings)	(III / 3) $\hat{=}$ Overvoltage category III / Pollution degree 3

## Power Loss

Power loss, per pole (potential)	0.341 W
Rated current $I_N$ for specified power loss	16 A
Resistance value for specified, current-dependent power loss	0.001 $\Omega$

## Connection data

Connection points	2
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 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inches
Wiring direction	Front-entry wiring

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



## 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	N/L
Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Side marking

## Material Data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.193 MJ
Weight	9.1 g

## Environmental requirements

Processing temperature	-35 ... +85 °C
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
Packaging type	box
Country of origin	DE
GTIN	4045454004453

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Customs tariff number	85366990990
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**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates****General approvals**

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	2189801.01
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	NTR NL 7468
	<b>cURus</b> UL International Germany GmbH	UL 1059	E45172

**Declarations of conformity and manufacturer's declarations**

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

**Approvals for marine applications**

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	20- HG1941090- PDA
	<b>LR</b> Lloyds Register	EN 60947	91/20112 (E9)

**Counterpart****Item no.769-101/022-000**

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

[www.wago.com/769-101/022-000](http://www.wago.com/769-101/022-000)**Item no.769-101**

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

[www.wago.com/769-101](http://www.wago.com/769-101)

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## Required accessories

### End plate

End plate	
<b>Item no.: 870-119</b> End and intermediate plate; 1 mm thick; orange	<a href="http://www.wago.com/870-119">www.wago.com/870-119</a>
<b>Item no.: 870-118</b> End and intermediate plate; 1 mm thick; gray	<a href="http://www.wago.com/870-118">www.wago.com/870-118</a>

## Optional accessories

### Cover

Cover	
<b>Item no.: 769-438</b> Pin cover; with marker slot for miniature WSB; gray	<a href="http://www.wago.com/769-438">www.wago.com/769-438</a>
<b>Item no.: 769-439</b> Pin cover; with marker slot for miniature WSB; orange	<a href="http://www.wago.com/769-439">www.wago.com/769-439</a>

### Jumpers

Jumper	
<b>Item no.: 870-402</b> Jumper; 2-way; insulated; light gray	<a href="http://www.wago.com/870-402">www.wago.com/870-402</a>
<b>Item no.: 870-404</b> Jumper; 4-way; insulated; light gray	<a href="http://www.wago.com/870-404">www.wago.com/870-404</a>
<b>Item no.: 870-405</b> Jumper; 5-way; insulated; light gray	<a href="http://www.wago.com/870-405">www.wago.com/870-405</a>
<b>Item no.: 870-407</b> Jumper; 7-way; insulated; light gray	<a href="http://www.wago.com/870-407">www.wago.com/870-407</a>
<b>Item no.: 870-408</b> Jumper; 8-way; insulated; light gray	<a href="http://www.wago.com/870-408">www.wago.com/870-408</a>
<b>Item no.: 870-403</b> Jumper; 3-way; insulated; light gray	<a href="http://www.wago.com/870-403">www.wago.com/870-403</a>
<b>Item no.: 870-409</b> Jumper; 9-way; insulated; light gray	<a href="http://www.wago.com/870-409">www.wago.com/870-409</a>
<b>Item no.: 870-406</b> Jumper; 6-way; insulated; light gray	<a href="http://www.wago.com/870-406">www.wago.com/870-406</a>
<b>Item no.: 870-433</b> Jumper; from 1 to 3; insulated; light gray	<a href="http://www.wago.com/870-433">www.wago.com/870-433</a>
<b>Item no.: 870-435</b> Jumper; from 1 to 5; insulated; light gray	<a href="http://www.wago.com/870-435">www.wago.com/870-435</a>

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**Item no.: 870-410**

Jumper; 10-way; insulated; light gray

[www.wago.com/870-410](http://www.wago.com/870-410)**Item no.: 870-434**

Jumper; from 1 to 4; insulated; light gray

[www.wago.com/870-434](http://www.wago.com/870-434)**Item no.: 870-440**

Jumper; from 1 to 10; insulated; light gray

[www.wago.com/870-440](http://www.wago.com/870-440)**Item no.: 870-406/020-000**

Delta jumper; insulated; light gray

[www.wago.com/870-406/020-000](http://www.wago.com/870-406/020-000)**Testing and measuring**

## Testing accessories

**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

[www.wago.com/870-425](http://www.wago.com/870-425)**Item no.: 870-426**

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

[www.wago.com/870-426](http://www.wago.com/870-426)**Item no.: 870-427**

Spacer module; modular; bridging commoned terminal blocks; gray

[www.wago.com/870-427](http://www.wago.com/870-427)**Mounting**

## Mounting accessories

**Item no.: 209-106**

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

[www.wago.com/209-106](http://www.wago.com/209-106)**Item no.: 249-116**

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

[www.wago.com/249-116](http://www.wago.com/249-116)**Protective warning marker**

## Cover

**Item no.: 280-405**

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

[www.wago.com/280-405](http://www.wago.com/280-405)**Tool**

## Operating tool

**Item no.: 210-720**

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

[www.wago.com/210-720](http://www.wago.com/210-720)**Coding**

## Coding

**Item no.: 769-435**

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

[www.wago.com/769-435](http://www.wago.com/769-435)**Marking accessories**

## Marker carrier

**Item no.: 2009-198**[www.wago.com/2009-198](http://www.wago.com/2009-198)

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Adaptor; gray

Marker		
<b>Item no.: 2009-145</b>	Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a>
<b>Item no.: 2009-115</b>	WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-115">www.wago.com/2009-115</a>
<b>Item no.: 248-501</b>	Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/248-501">www.wago.com/248-501</a>
<b>Item no.: 793-501</b>	WMB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/793-501">www.wago.com/793-501</a>
<b>Item no.: 793-5501</b>	WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/793-5501">www.wago.com/793-5501</a>
Group marker carrier		
<b>Item no.: 870-183</b>	Adaptor; gray	<a href="http://www.wago.com/870-183">www.wago.com/870-183</a>
<b>Item no.: 870-182</b>	Adaptor; gray	<a href="http://www.wago.com/870-182">www.wago.com/870-182</a>
<b>Item no.: 870-184</b>	Adaptor; gray	<a href="http://www.wago.com/870-184">www.wago.com/870-184</a>
Carrier rail		
Mounting accessories		
<b>Item no.: 210-197</b>	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-197">www.wago.com/210-197</a>
<b>Item no.: 210-198</b>	Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	<a href="http://www.wago.com/210-198">www.wago.com/210-198</a>
<b>Item no.: 210-504</b>	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-504">www.wago.com/210-504</a>
<b>Item no.: 210-505</b>	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-505">www.wago.com/210-505</a>
<b>Item no.: 210-506</b>	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-506">www.wago.com/210-506</a>
<b>Item no.: 210-508</b>	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-508">www.wago.com/210-508</a>
<b>Item no.: 210-113</b>	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-113">www.wago.com/210-113</a>

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**Item no.: 210-118** [www.wago.com/210-118](http://www.wago.com/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.: 210-112**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; [www.wago.com/210-112](http://www.wago.com/210-112)  
silver-colored

**Item no.: 210-114** [www.wago.com/210-114](http://www.wago.com/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.: 210-115**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; [www.wago.com/210-115](http://www.wago.com/210-115)  
silver-colored

**Item no.: 210-196** [www.wago.com/210-196](http://www.wago.com/210-196)  
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

## Ferrule

### Ferrule

**Item no.: 216-123** [www.wago.com/216-123](http://www.wago.com/216-123)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored

**Item no.: 216-122** [www.wago.com/216-122](http://www.wago.com/216-122)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored

**Item no.: 216-124** [www.wago.com/216-124](http://www.wago.com/216-124)  
Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated

**Item no.: 216-132** [www.wago.com/216-132](http://www.wago.com/216-132)  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

**Item no.: 216-121** [www.wago.com/216-121](http://www.wago.com/216-121)  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored

**Item no.: 216-131** [www.wago.com/216-131](http://www.wago.com/216-131)  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored

**Item no.: 216-223** [www.wago.com/216-223](http://www.wago.com/216-223)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red

**Item no.: 216-222** [www.wago.com/216-222](http://www.wago.com/216-222)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

**Item no.: 216-221** [www.wago.com/216-221](http://www.wago.com/216-221)  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white

**Item no.: 216-224** [www.wago.com/216-224](http://www.wago.com/216-224)  
Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

**Item no.: 216-321** [www.wago.com/216-321](http://www.wago.com/216-321)  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

**Item no.: 216-322** [www.wago.com/216-322](http://www.wago.com/216-322)  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise

## Insulation stop

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## Insulation stop

<b>Item no.: 280-472</b> Insulation stop; 0.75 - 1 mm <sup>2</sup> ; 5 pieces/strip; black	<a href="http://www.wago.com/280-472">www.wago.com/280-472</a>
<b>Item no.: 280-470</b> Insulation stop; 0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st"); 5 pieces/strip; white	<a href="http://www.wago.com/280-470">www.wago.com/280-470</a>
<b>Item no.: 280-471</b> Insulation stop; 0.25 - 0.5 mm <sup>2</sup> ; 5 pieces/strip; light gray	<a href="http://www.wago.com/280-471">www.wago.com/280-471</a>

## Downloads

## Documentation

## Bid Text

870-102 X81 - Datei	2019 年2月19 日	xml 3.4 kB	Download
870-102 doc - Datei	2017 年10月4 日	doc 25.1 kB	Download

## Additional Information

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## CAD/CAE-Data

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## Environmental Product Compliance

## Compliance Search

Environmental Product Compliance 870-102

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

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## Installation Notes

## Product family

**X-COM**

[Show all products from the family](#)

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