

**Data sheet | Item number: 870-109**

2-conductor/2-pin, double-deck carrier terminal block; 2-conductor/2-pin through terminal block; 2.5 mm<sup>2</sup>; N; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm<sup>2</sup>; blue

[www.wago.com/870-109](http://www.wago.com/870-109)



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	1
Number of levels	2

## Connection 1

Connection technology	CAGE CLAMP <sup>®</sup>
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

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

## Material Data

Note (material data)	Information on material specifications can be found here
Color	blue
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.194 MJ
Weight	9.5 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	4045454117962

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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	NTR NL 7468
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	2189801.01
	<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**

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray	<a href="http://www.wago.com/769-101">www.wago.com/769-101</a>
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**Item no.769-101/000-006**

1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; blue	<a href="http://www.wago.com/769-101/000-006">www.wago.com/769-101/000-006</a>
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**Item no.769-101/022-000**

<a href="http://www.wago.com/769-101">www.wago.com/769-101</a>
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1-conductor female connector, angled; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray

/022-000

## 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

### Protective warning marker

Cover	
<b>Item no.: 280-405</b> Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow	<a href="http://www.wago.com/280-405">www.wago.com/280-405</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>
<b>Item no.: 210-118</b> Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-118">www.wago.com/210-118</a>
<b>Item no.: 210-112</b> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm;	<a href="http://www.wago.com/210-112">www.wago.com/210-112</a>

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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

[www.wago.com/210-114](http://www.wago.com/210-114)**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

[www.wago.com/210-115](http://www.wago.com/210-115)**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

[www.wago.com/210-196](http://www.wago.com/210-196)**Marking accessories**

## Marker carrier

**Item no.: 2009-198**

Adaptor; gray

[www.wago.com/2009-198](http://www.wago.com/2009-198)

## Marker

**Item no.: 2009-145**

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

[www.wago.com/2009-145](http://www.wago.com/2009-145)**Item no.: 2009-115**

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

[www.wago.com/2009-115](http://www.wago.com/2009-115)**Item no.: 248-501**

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

[www.wago.com/248-501](http://www.wago.com/248-501)**Item no.: 793-501**

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

[www.wago.com/793-501](http://www.wago.com/793-501)**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

[www.wago.com/793-5501](http://www.wago.com/793-5501)

## Group marker carrier

**Item no.: 870-183**

Adaptor; gray

[www.wago.com/870-183](http://www.wago.com/870-183)**Item no.: 870-182**

Adaptor; gray

[www.wago.com/870-182](http://www.wago.com/870-182)**Item no.: 870-184**

Adaptor; gray

[www.wago.com/870-184](http://www.wago.com/870-184)**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)**Ferrule**

## Ferrule

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<b>Item no.: 216-123</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored	<a href="http://www.wago.com/216-123">www.wago.com/216-123</a>
<b>Item no.: 216-122</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored	<a href="http://www.wago.com/216-122">www.wago.com/216-122</a>
<b>Item no.: 216-124</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-124">www.wago.com/216-124</a>
<b>Item no.: 216-132</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-132">www.wago.com/216-132</a>
<b>Item no.: 216-121</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored	<a href="http://www.wago.com/216-121">www.wago.com/216-121</a>
<b>Item no.: 216-131</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored	<a href="http://www.wago.com/216-131">www.wago.com/216-131</a>
<b>Item no.: 216-223</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<a href="http://www.wago.com/216-223">www.wago.com/216-223</a>
<b>Item no.: 216-222</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<a href="http://www.wago.com/216-222">www.wago.com/216-222</a>
<b>Item no.: 216-221</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white	<a href="http://www.wago.com/216-221">www.wago.com/216-221</a>
<b>Item no.: 216-224</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black	<a href="http://www.wago.com/216-224">www.wago.com/216-224</a>
<b>Item no.: 216-321</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-321">www.wago.com/216-321</a>
<b>Item no.: 216-322</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise	<a href="http://www.wago.com/216-322">www.wago.com/216-322</a>
<b>Tool</b>	
Operating tool	
<b>Item no.: 210-720</b> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>
<b>Cover</b>	
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>
<b>Testing and measuring</b>	
Testing accessories	
<b>Item no.: 870-425</b> Tap-off module; with anti-rotation protection; modular; suitable for 870 Series terminal blocks with	<a href="http://www.wago.com/870-425">www.wago.com/870-425</a>

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



jumper slots in the current bar; gray

**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)

**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)

**Jumpers**

Jumper

**Item no.: 870-402**

Jumper; 2-way; insulated; light gray [www.wago.com/870-402](http://www.wago.com/870-402)

**Item no.: 870-404**

Jumper; 4-way; insulated; light gray [www.wago.com/870-404](http://www.wago.com/870-404)

**Item no.: 870-405**

Jumper; 5-way; insulated; light gray [www.wago.com/870-405](http://www.wago.com/870-405)

**Item no.: 870-407**

Jumper; 7-way; insulated; light gray [www.wago.com/870-407](http://www.wago.com/870-407)

**Item no.: 870-408**

Jumper; 8-way; insulated; light gray [www.wago.com/870-408](http://www.wago.com/870-408)

**Item no.: 870-403**

Jumper; 3-way; insulated; light gray [www.wago.com/870-403](http://www.wago.com/870-403)

**Item no.: 870-409**

Jumper; 9-way; insulated; light gray [www.wago.com/870-409](http://www.wago.com/870-409)

**Item no.: 870-406**

Jumper; 6-way; insulated; light gray [www.wago.com/870-406](http://www.wago.com/870-406)

**Item no.: 870-433**

Jumper; from 1 to 3; insulated; light gray [www.wago.com/870-433](http://www.wago.com/870-433)

**Item no.: 870-435**

Jumper; from 1 to 5; insulated; light gray [www.wago.com/870-435](http://www.wago.com/870-435)

**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)

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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)

**Insulation stop**

Insulation stop

**Item no.: 280-472**Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; black[www.wago.com/280-472](http://www.wago.com/280-472)**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[www.wago.com/280-470](http://www.wago.com/280-470)**Item no.: 280-471**Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray[www.wago.com/280-471](http://www.wago.com/280-471)**Downloads****Documentation****Bid Text**

870-109 X81 - Datei	2019 年2月19日	xml 3.5 kB	Download
870-109 doc - Datei	2017 年10月4日	doc 25.6 kB	Download

**Additional Information**

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**CAD/CAE-Data****CAE data**

EPLAN Data Portal 870-109	URL	Download
WSCAD Universe 870-109	URL	Download
ZUKEN Portal 870-109	URL	Download

**CAD data**

2D/3D Models 870-109	URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 870-109

URL

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2-conductor/2-pin, double-deck carrier terminal block; 2-conductor/2-pin through terminal block; 2.5 mm<sup>2</sup>; N; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm<sup>2</sup>; blue

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## Installation Notes

### Product family

X-COM

[Show all products from the family](#)

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