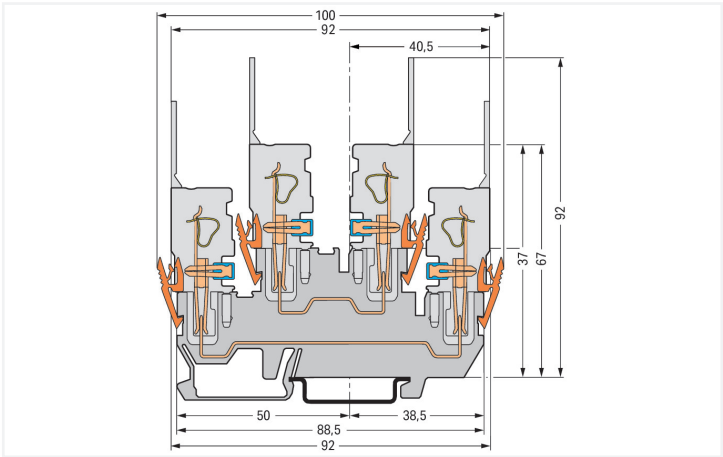


Color: ■ gray



Carrier terminal block

Double-deck terminal block, 870 Series, gray

Easy electrical installations are guaranteed with this double-deck terminal block (item number 870-151). Pluggable rail-mount terminal blocks are primarily found in switchgear units and control systems, most notably in railroad technology. These innovative systems combine the properties of rail-mount terminal blocks and connectors for a flexible and reliable wiring system. You also have the option of pre-assembling installations, which not only makes production but also installation, operation, and maintenance more efficient and cost-effective. The double-deck terminal block also serves as a through terminal block. Rated current and voltage are important parameters when selecting a pluggable rail-mount terminal block, as they determine the product's suitability for different applications. This product has a rated voltage of 500 V and a rated current of 16 A. The gray housing is made of polyamide (PA66) for insulation. These pluggable rail-mount terminal blocks are mounted using DIN-35 rails..

Notes	
Safety Information	2-conductor female plugs cannot be used.

Electrical data			
Ratings per IEC/EN		Power Loss	
Nominal voltage (III/3)	500 V	Rated current I <sub>N</sub> for specified power loss	16 A
Rated impulse withstand voltage (III / 3)	6 kV		
Rated current	16 A		
Legend (ratings)	(III / 3) Δ Overvoltage category III / Pollution degree 3		



Connection data			
Total number of potentials	2	Connection 1	
Number of levels	2	Wiring direction	Front-entry wiring
Physical data			
Width	5 mm / 0.197 inches		
Height	88.6 mm / 3.488 inches		
Depth from upper-edge of DIN-rail	37.1 mm / 1.461 inches		
Mechanical data			
Potential marking	L/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 (main housing)	Polyamide (PA66)		
Flammability class per UL94	V0		
Fire load	0.185 MJ		
Weight	10.3 g		
Environmental requirements			
Processing temperature	-35 ... +85 °C	Environmental Testing (Environmental Conditions)	
Continuous operating temperature	-60 ... +105 °C	Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
		Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011-04
		Spectrum/Installation location	Service life test, Category 1, Class A/B
		Function test with noise-like vibration	Test passed according to Section 8 of the standard
		Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
		Acceleration	0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes) 5g (highest test level used for all axes)
		Test duration per axis	10 min. 5 h
		Test directions	X, Y and Z axes X, Y and Z axes X, Y and Z axes
		Monitoring for contact faults/interruptions	Passed
		Voltage drop measurement before and after each axis	Passed
		Simulated service life test through increased levels of noise-like vibration	Test passed according to Section 9 of the standard



Environmental Testing (Environmental Conditions)	
Extended test scope: Monitoring for contact faults/interruptions	Passed Passed
Extended test scope: Voltage drop measurement before and after each axis	Passed Passed
Shock test	Test passed according to Section 10 of the standard
Shock form	Half sine
Shock duration	30 ms
Number of shocks per axis	3 pos. und 3 neg.
Vibration and shock stress for rolling stock equipment	Passed

Commercial data		
Product Group	16 (Rail Mounted Terminal Blocks with CCC)	
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	
Country of origin	DE	
GTIN	4045454397265	
Customs tariff number	85366990990	

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates					
General approvals			Declarations of conformity and manufacturer's declarations		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7468	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60947	2189801.01	Railway WAGO GmbH & Co. KG	-	Z00004430.000
cULus UL International Germany GmbH	UL 1059	E45172	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

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 870-151

↓

Documentation

Additional Information

Technical Sectionpdf2246.92 KB↓

Bid Text

870-15119.02.2019xml3.01 KB↓

870-15104.10.2017doc24.50 KB↓

CAD/CAE-Data

CAD data

2D/3D Models 870-151↓

CAE data

EPLAN Data Portal 870-151↓
















WSCAD Universe 870-151↓

ZUKEN Portal 870-151↓

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket

 <a href="#">Item No.: 769-101/022-000</a> 1-conductor female connector; angled; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray	 <a href="#">Item No.: 769-110/145-000</a> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <a href="#">Item No.: 769-111/145-000</a> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 11-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <a href="#">Item No.: 769-112/145-000</a> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 12-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray
 <a href="#">Item No.: 769-113/145-000</a> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 13-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <a href="#">Item No.: 769-114/145-000</a> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 14-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <a href="#">Item No.: 769-115/145-000</a> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 15-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <a href="#">Item No.: 769-101</a> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray
 <a href="#">Item No.: 769-101/141-000</a> 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	 <a href="#">Item No.: 769-102/142-000</a> 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	 <a href="#">Item No.: 769-103/142-000</a> 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	 <a href="#">Item No.: 769-104/143-000</a> 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
 <a href="#">Item No.: 769-105/143-000</a> 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	 <a href="#">Item No.: 769-106/144-000</a> 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	 <a href="#">Item No.: 769-107/144-000</a> 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	 <a href="#">Item No.: 769-108/144-000</a> 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



1.1.1 Female connector/socket



**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.: 870-168**  
End and intermediate plate; 1 mm thick; gray



**Item No.: 870-169**  
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

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



**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**  
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



1.3.3.1 Mounting accessories



Item No.: 210-112  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; 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 Installation

1.3.4.1 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 DIN-rail 35 x 15 and 35 x 7.5; gray

1.3.5 Jumper

1.3.5.1 Jumper



Item No.: 870-405/011-000



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.: 870-410  
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



Item No.: 870-433  
Jumper; from 1 to 3; insulated; light gray



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



Item No.: 870-435  
Jumper; from 1 to 5; insulated; light gray

1.3.6 Marking

1.3.6.1 Group marker carrier



Item No.: 870-182  
Adaptor; gray



Item No.: 870-183  
Adaptor; gray



Item No.: 870-184  
Adaptor; gray



1.3.6.2 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



**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; snap-on type; white

1.3.6.3 Marker carrier



**Item No.: 2009-198**  
Adaptor; gray

1.3.7 Test and measurement

1.3.7.1 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

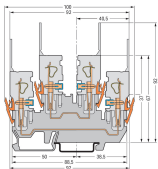
1.3.8 Tool

1.3.8.1 Operating tool

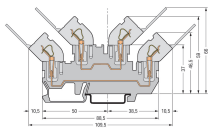


**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

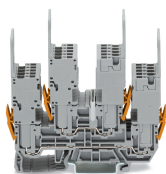
Installation Notes



Carrier terminal block

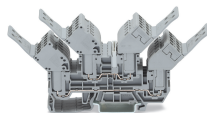


Carrier terminal block



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

**Notice: 2-conductor female plugs cannot be used.**



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