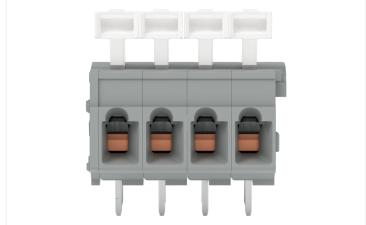
PCB terminal block; push-button; 2.5 mm²; Pin spacing 5/5.08 mm; 4-pole; CAGE

CLAMP®; commoning option; gray

https://www.wago.com/257-404



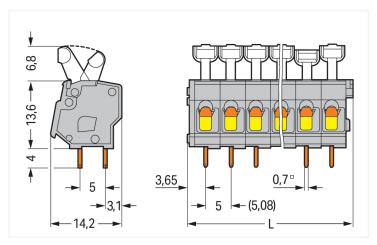


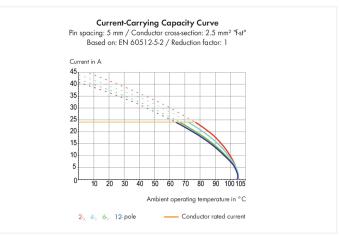


Color: ■ gray









Dimensions in mm

L = (pole no. x pin spacing) + 2.9 mm

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PCB terminal block, 257 Series, CAGE CLAMP®



Our PCB terminal block (item number 257-404) ensures effortless electrical installations. It is perfect for custom installations with different mounting types. Our PCB terminal block is rated for 320 V and is designed for use with a rated current of up to 24 A. It can therefore be used in high-load applications. Conductors can only be connected to this PCB terminal block if their strip length is between 5 mm and 6 mm. This product features one conductor terminal and utilizes CAGE CLAMP®. Our renowned universal connection known as CAGE CLAMP® is the industry standard for connection technology and electrical interconnections. The dimensions are 22.9 x 24.4 x 14.2 mm (width x height x depth). Depending on the conductor type, this PCB terminal block is designed for conductor cross sections ranging from 0.08 mm² to 2.5 mm². Up to four potentials / four poles can be connected to this terminal strip using four clamping points on one level. The contacts are made of electrolytic copper (ECu), the gray housing is made of polyamide (PA66) for insulation, and the clamping spring is made of chrome-nickel spring steel (CrNi). Tin is used for coating the contact surfaces. A push-button is used to operate this PCB terminal block. THT is used to solder the PCB terminal block. Insert the conductor into the board at an angle of 0°.. The solder pins are organized over the entire terminal strip (in-line). They are 0.7 x 0.7 mm and 4 mm in length. Each potential has two solder pins.

Variants:  Other pole numbers  Versions for Ex e II and Ex i  Other colors  Mixed-color PCB connector strips  Direct marking Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/.	Notes	
	Variants:	Versions for Ex e II and Ex i Other colors Mixed-color PCB connector strips Direct marking Other versions (or variants) can be requested from WAGO Sales or configured at https://

Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	250 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Rated current	24 A	24 A	24 A

Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Connection data		
Clamping units	4	
Total number of potentials	4	
Number of connection types	1	
Number of levels	1	

Connection 1	
Connection technology	CAGE CLAMP®
Actuation type	Push-button
Solid conductor	0.08 2.5 mm² / 28 12 AWG
Fine-stranded conductor	0.08 2.5 mm² / 28 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 1.5 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 1.5 mm²
Note (conductor cross-section)	12 AWG: THHN, THWN
Strip length	5 6 mm / 0.2 0.24 inches
Conductor connection direction to PCB	0°
Pole number	4

# Data Sheet | Item Number: 257-404 https://www.wago.com/257-404



Physical data	
Pin spacing	5/5.08 mm / 0.197/0.2 inches
Width	22.9 mm / 0.902 inches
Height	24.4 mm / 0.961 inches
Height from the surface	20.4 mm / 0.803 inches
Depth	14.2 mm / 0.559 inches
Solder pin length	4 mm
Solder pin dimensions	0.7 x 0.7 mm
Drilled hole diameter with tolerance	1.1 <sup>(+0.1)</sup> mm

PCB contact	
PCB contact	THT
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	2

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	gray
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact Plating	Tin
Fire load	0.081 MJ
Weight	4.7 g

Environmental requirements	
Limit temperature range	-60 +105 °C

Commercial data	
Product Group	4 (Printed Circuit Connectors)
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 9.0	EC002643
ETIM 8.0	EC002643
PU (SPU)	220 (55) pcs
Packaging type	Box
Country of origin	PL
GTIN	4044918675826
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	2160584.28
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7128
CCA DEKRA Certification B.V.	EN 60947-7-4	71-113014
CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL-7821
CSA DEKRA Certification B.V.	C22.2 No. 158	70049157
UR Underwriters Laboratories Inc.	UL 1059	E45172

# Declarations of conformity and manufacturer's declarations

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

# Approvals for marine applications







Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
DNV DNV GL SE	-	TAE000016Z

# **Downloads**

# **Environmental Product Compliance**

Compliance Search

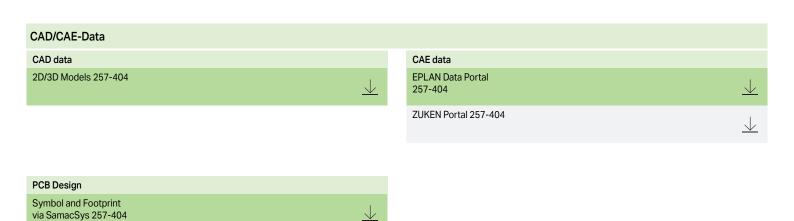
**Environmental Product** Compliance 257-404

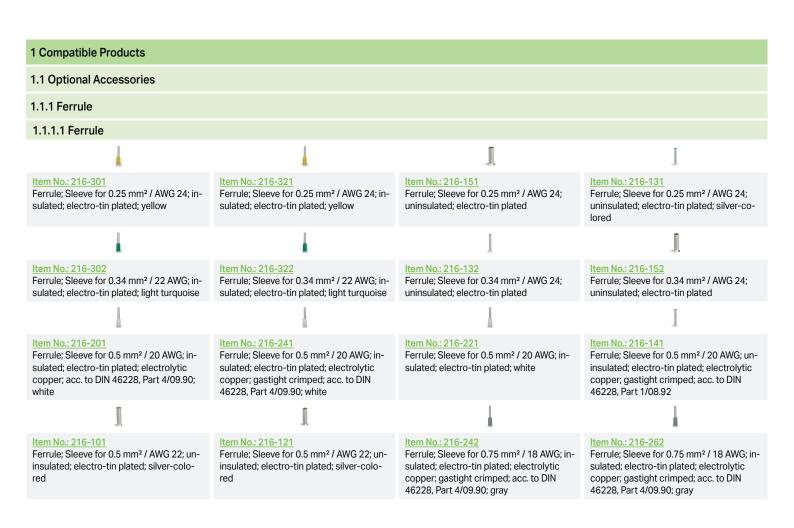


Symbol and Footprint via Ultra Librarian 257-404



# Documentation Additional Information Technical Section pdf 2027.26 KB Gebrückte Klemmenleisten für Leiterplatten pdf 303.71 KB





https://www.wago.com/257-404



# 1.1.1.1 Ferrule

Item No.: 216-202

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

#### Item No.: 216-222

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

#### Item No.: 216-142

Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

#### Item No.: 216-102

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

# Item No.: 216-122

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-co-lored

#### Item No.: 216-243

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

#### Item No.: 216-263

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

#### Item No.: 216-203

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red

# Item No.: 216-223

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red

#### Item No.: 216-103

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated

#### Item No.: 216-143

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

#### Item No.: 216-123

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored



#### Item No.: 216-204

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

#### Item No.: 216-224

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

#### Item No.: 216-244

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228. Part 4/09.90: black

#### Item No.: 216-264

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228. Part 4/09.90; black



#### Item No.: 216-284

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

#### Item No.: 216-124

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated

#### Item No.: 216-144

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

#### Item No.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

#### 1.1.2 Marking

#### 1.1.2.1 Marking strip

# Item No.: 210-332/500-202

Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

#### Item No.: 210-332/508-202

Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

#### Item No.: 210-332/500-205

Marking strips; as a DIN A4 sheet; MAR-KED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

# Item No.: 210-332/508-205

Marking strips; as a DIN A4 sheet; MAR-KED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

#### Item No.: 210-332/500-204

Marking strips; as a DIN A4 sheet; MAR-KED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

#### Item No.: 210-332/508-204

Marking strips; as a DIN A4 sheet; MAR-KED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

# Item No.: 210-332/500-206

Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

#### Item No.: 210-332/508-206

Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

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### 1.1.3 Test and measurement

#### 1.1.3.1 Testing accessories



#### Item No.: 249-110

Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 5 mm / 0.197 in; gray



#### Item No.: 249-111

Test plug adapter; suitable for 255, 256, 257 Series PCB terminal blocks; 1-pole; Pin spacing 5.08 mm / 0.2 in; orange

#### 1.1.4 Tool

# 1.1.4.1 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 x 0.5 mm; with a partially insulated shaft; multicoloured

#### **Installation Notes**

#### Conductor termination



Inserting/removing a conductor – 256 Series.



Inserting/removing a conductor (255 Se-



Inserting/removing a conductor via finger-operated lever – 255 Series.



Inserting/removing a conductor via fingeroperated lever – 256 Series.

# Installation



Possible conductor arrangement with terminal strips staggered (for 256 Series only).

# Marking



Formation of groups using housings of different colors

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# Testing





Testing with test probes.

Testing with test plug modules.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$