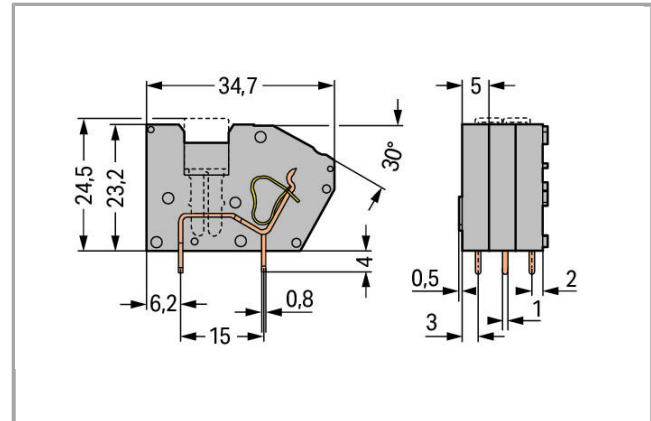
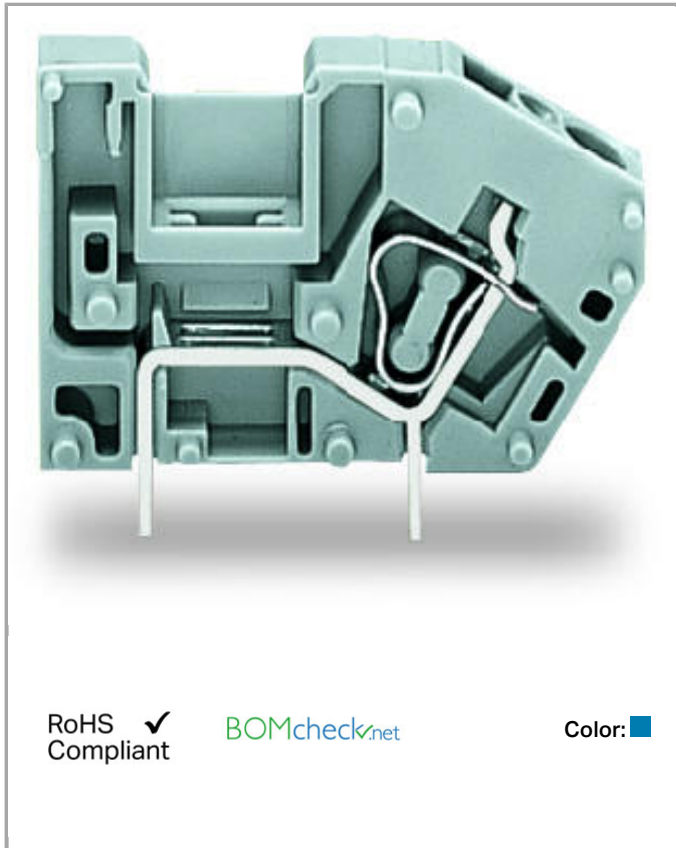


## Data sheet | Item number: 742-124

Stackable PCB terminal block; with commoning option; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 1-pole; CAGE CLAMP®



742-124



RoHS  
Compliant

BOMcheck.net

Color: ■

### Item description

- Modular PCB terminal blocks with screwdriver-actuated CAGE CLAMP®
- Adjacent jumpers for multiplying and distributing potentials
- Disconnect and fuse PCB terminal blocks can be combined to form complex function assemblies
- Test socket for 2.0 mm and 2.3 mm Ø test plugs

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |       |
|---------------------------------|-------|
| Rated voltage (III / 3)         | 250 V |
| Rated impulse voltage (III / 3) | 4 kV  |
| Rated voltage (III / 2)         | 320 V |
| Rated impulse voltage (III / 2) | 4 kV  |



|                                |       |
|--------------------------------|-------|
| Rated voltage (II / 2)         | 630 V |
| Rated impulse voltage (II / 2) | 4 kV  |
| Rated current                  | 16 A  |

### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 10 A  |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A  |

### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 16 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

### Connection data

|                                                             |                                              |
|-------------------------------------------------------------|----------------------------------------------|
| Connection technology                                       | CAGE CLAMP®                                  |
| Actuation type                                              | Operating tool                               |
| Solid conductor                                             | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor                                     | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 ... 1.5 mm <sup>2</sup>                 |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 ... 1.5 mm <sup>2</sup>                 |
| Strip length                                                | 8 ... 9 mm / 0.31 ... 0.35 inch              |
| Conductor entry angle to the PCB                            | 60°                                          |
| Note (conductor cross-section)                              | 12 AWG: THHN, THWN                           |
| No. of poles                                                | 1                                            |
| Total number of connection points                           | 1                                            |
| Total number of potentials                                  | 1                                            |
| Number of connection types                                  | 1                                            |
| Number of levels                                            | 1                                            |

### Geometrical Data

|                         |                      |
|-------------------------|----------------------|
| Pin spacing             | 5 mm / 0.197 inch    |
| Width                   | 7 mm / 0.276 inch    |
| Height                  | 27.2 mm / 1.071 inch |
| Height from the surface | 23.2 mm / 0.913 inch |
| Depth                   | 34.7 mm / 1.366 inch |
| Solder pin length       | 4 mm                 |
| Solder pin dimensions   | 1 x 0.8 mm           |

|                                   |                                |
|-----------------------------------|--------------------------------|
| Drilled hole diameter (tolerance) | 1.4 <sup>(- ... +0.1)</sup> mm |
|-----------------------------------|--------------------------------|

## PCB contact

|                                     |                                    |
|-------------------------------------|------------------------------------|
| PCB contact                         | THT                                |
| Solder pin arrangement              | within the terminal block, in line |
| Number of solder pins per potential | 2                                  |

## Material Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | blue                                   |
| Material group              | I                                      |
| Insulating material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Chrome nickel spring steel (CrNi)      |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.059 MJ                               |
| Weight                      | 3.138 g                                |

## Environmental Requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +105 °C |
|-------------------------|-----------------|

## Commercial data

|                    |                     |
|--------------------|---------------------|
| Product Group      | 4 (Printed Circuit) |
| Country of origin  | CH                  |
| GTIN               | 4045454226053       |
| Customs Tariff No. | 85369010000         |

## Approvals / Certificates

### Country specific Approvals

| Logo                                                                               | Approval                        | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V. | EN 60947-7-4             | NTR NL<br>7436   |
|  | CCA<br>DEKRA Certification B.V. | EN 60947-7-4             | 2169331.25       |
|                                                                                    | CSA<br>DEKRA Certification B.V. | C22.2 No. 158            | 1711139          |



## Ship Approvals

| Logo                                                                             | Approval                                                | Additional Approval Text | Certificate name         |
|----------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|--------------------------|
|  | <b>ABS</b><br>American Bureau of Shipping               | -                        | 14-<br>HG1241537-<br>PDA |
|  | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE000016Z               |

## UL-Approvals

| Logo                                                                              | Approval                                    | Additional Approval Text | Certificate name  |
|-----------------------------------------------------------------------------------|---------------------------------------------|--------------------------|-------------------|
|  | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172,<br>sec. 6 |

## Compatible products

## End plate

|                                                                                    |                                                                    |         |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------|
|  | <b>Item no.: 742-100</b><br>End plate; snap-fit type; 1.5 mm thick | 742-100 |
|  | <b>Item no.: 742-400</b><br>End plate; snap-fit type; 1.5 mm thick | 742-400 |
|  | <b>Item no.: 742-800</b><br>End plate; snap-fit type; 1.5 mm thick | 742-800 |

## tools

|                                                                                    |                                                                                                         |         |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------|
|  | <b>Item no.: 210-657</b><br>Operating tool with partially insulated shaft; Blade (3.5 x 0.5) mm; short  | 210-657 |
|  | <b>Item no.: 210-720</b><br>Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm | 210-720 |

## Jumper

**Item no.: 280-402**

280-402

Adjacent jumper; insulated; IN = IN terminal block

**ferrule****Item no.: 216-121**

216-121

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated**Item no.: 216-122**

216-122

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated**Item no.: 216-123**

216-123

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated**Item no.: 216-124**

216-124

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated**Item no.: 216-131**

216-131

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated**Item no.: 216-132**

216-132

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated**Item no.: 216-141**

216-141

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92**Item no.: 216-142**

216-142

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92**Item no.: 216-143**

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.: 216-144**

216-144

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92**Item no.: 216-151**

216-151

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated**Item no.: 216-152**

216-152

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated**Item no.: 216-221**

216-221

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated**Item no.: 216-222**

216-222

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated**Item no.: 216-223**

216-223

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated**Item no.: 216-224**

216-224

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated**Item no.: 216-241**

216-241

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90**Item no.: 216-242**

216-242

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



crimped; acc. to DIN 46228, Part 4/09.90

**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

216-243

**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

216-244

**Item no.: 216-262**Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90

216-262

**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

216-263

**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

216-264

**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

216-284

**Item no.: 216-321**Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated

216-321

**Item no.: 216-322**Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated

216-322

**check****Item no.: 210-136**

Test plug; 2 mm Ø; with 500 mm cable

210-136

**Item no.: 210-137**

Test plug; 2.3 mm Ø; with 500 mm cable

210-137

**Downloads****CAD/CAE - Smart Data****CAD data**

3D Download 742-124

URL

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**PCB libraries**

TARGET Library for WAGO PCB Terminal Blocks

Compatible with TARGET PCB Design Software Version 17.x

1.1.0

Oct 6, 2014

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EAGLE Library for WAGO PCB Terminal Blocks

Compatible with EAGLE PCB Design Software Version 6.x or higher

2.1

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23.9 MB

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DesignSpark Library for WAGO PCB Terminal Blocks

Compatible with DesignSpark PCB Version 4.x or higher

2.1

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Subject to changes.

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