

## Data sheet | Item number: 250-504

PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 5 mm; 4-pole; Push-  
in CAGE CLAMP®; 1,50 mm<sup>2</sup>; gray



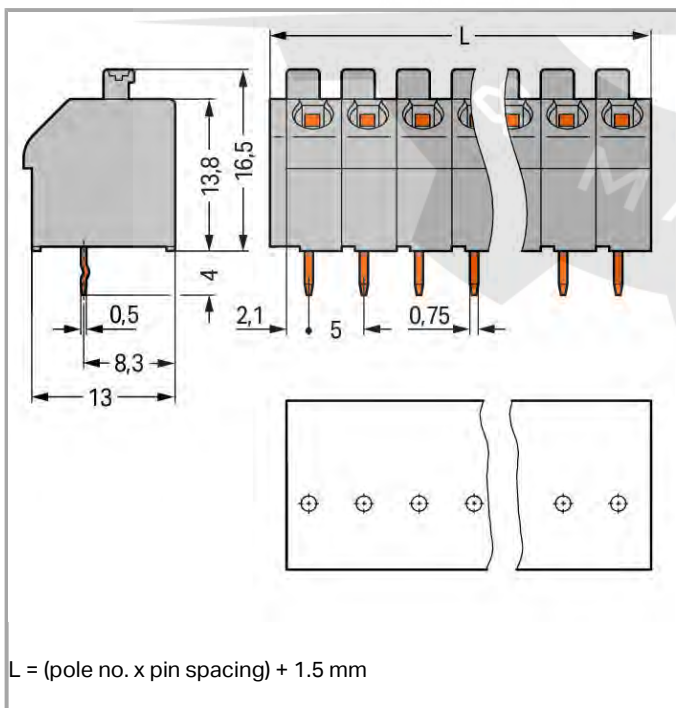
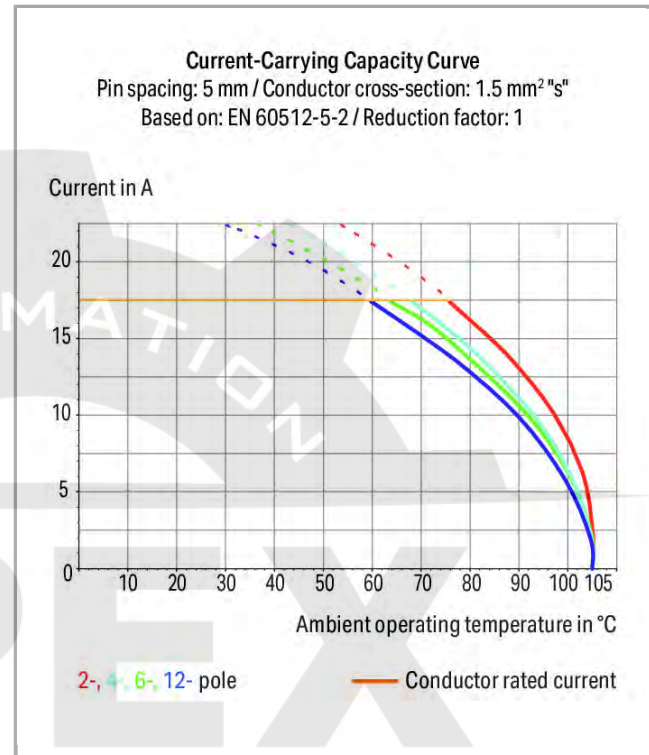
250-504



RoHS  
Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color: 



### Item description

- Compact terminal strips with push-buttons
- Push-in terminations of solid and ferruled conductors
- Termination/removal of fine-stranded conductors via push-buttons
- 45° conductor entry angle provides easy, space-saving wiring

## Data

### Electrical data

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

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 320 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                   | 17.5 A |

#### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 2 A   |
| Rated voltage UL (Use Group D) | 300 V |

#### Approvals per CSA

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

### Connection data

|                                                             |                     |              |           |
|-------------------------------------------------------------|---------------------|--------------|-----------|
| Connection technology                                       | Push-in CAGE CLAMP® |              |           |
| Actuation type                                              | Push-button         |              |           |
| Solid conductor                                             | 0.5                 | 1.5 mm² / 20 | 14 AWG    |
| Fine-stranded conductor                                     | 0.75                | 1.5 mm² / 18 | 16 AWG    |
| Fine-stranded conductor with ferrule with plastic collar    | 0.5                 | 1 mm²        |           |
| Fine-stranded conductor with ferrule without plastic collar | 0.5                 | 1 mm²        |           |
| Strip length                                                | 9                   | 10 mm / 0.35 | 0.39 inch |
| Conductor entry angle to the PCB                            | 45°                 |              |           |
| Total number of connection points                           | 4                   |              |           |

|                            |   |
|----------------------------|---|
| Total number of potentials | 4 |
| Number of connection types | 1 |
| Number of levels           | 1 |
| No. of poles               | 4 |

### Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 5 mm / 0.197 inch              |
| Width                             | 21.5 mm / 0.846 inch           |
| Height                            | 20.5 mm / 0.807 inch           |
| Height from the surface           | 16.5 mm / 0.65 inch            |
| Depth                             | 13 mm / 0.512 inch             |
| Solder pin length                 | 4 mm                           |
| Solder pin dimensions             | 0.5 x 0.75 mm                  |
| Drilled hole diameter (tolerance) | 1 <sup>-</sup> (- ... +0.1) mm |

### PCB contact

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| PCB contact                         | THT                                     |
| Solder pin arrangement              | over the entire terminal strip, in line |
| Number of solder pins per potential | 1                                       |

### Material Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | gray                                   |
| 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                   | 0.088 MJ                               |
| Weight                      | 4.012 g                                |

### Environmental Requirements

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

### Commercial data

|                    |                     |
|--------------------|---------------------|
| Product Group      | 4 (Printed Circuit) |
| Country of origin  | PL                  |
| GTIN               | 4044918634533       |
| Customs Tariff No. | 85369010000         |

## Approvals / Certificates

### Radio-Approvals

| Logo                                                                               | Approval                                     | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|    | CCA<br>DEKRA Certification B.V.              | EN 60998                 | NTR NL-7449      |
|    | CCA<br>DEKRA Certification B.V.              | EN 60947                 | NTR NL-7100      |
|    | CSA<br>DEKRA Certification B.V.              | C22.2                    | 1132097          |
|    | KEMA/KEUR<br>DEKRA Certification B.V.        | EN 60998                 | 71-105258        |
|  | VDE<br>VDE Prüf- und Zertifizierungsinstitut | EN 60998                 | 40028888         |

### Country specific Approvals

| Logo                                                                               | Approval                                         | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|------------------|
|  | ABS<br>American Bureau of Shipping               | -                        | 14-HG1241537-PDA |
|  | CCA<br>DEKRA Certification B.V.                  | EN 60998                 | NTR NL-7449      |
|  | CCA<br>DEKRA Certification B.V.                  | EN 60947                 | NTR NL-7100      |
|  | CSA<br>DEKRA Certification B.V.                  | C22.2                    | 1132097          |
|                                                                                    | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE000016Z       |



**KEMA/KEUR**  
DEKRA Certification B.V.

EN 60998

71-105258



**VDE**  
VDE Prüf- und Zertifizierungsinstitut

EN 60998

40028888

#### 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 |
|-----------------------------------------------------------------------------------|---------------------------------------------------------|---|------------|

#### Other Approvals

| Logo                                                                               | Approval                                   | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|------------------|
|  | <b>UL</b><br>UL International Germany GmbH | UL 1059                  | E45172<br>sec. 6 |

#### UL-Approvals

| Logo                                                                               | Approval                                   | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|------------------|
|  | <b>UL</b><br>UL International Germany GmbH | UL 1059                  | E45172<br>sec. 6 |

#### Compatible products

check

**Item no.: 210-136**

Test plug; 2 mm Ø; with 500 mm cable; red

210-136

## ferrule

|                                                                                   |                                                                                                                                                                                        |         |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|    | <b>Item no.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated                                                                          | 216-101 |
|    | <b>Item no.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated                                                                         | 216-102 |
|    | <b>Item no.: 216-103</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated                                                                            | 216-103 |
|    | <b>Item no.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated                                                                          | 216-121 |
|    | <b>Item no.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated                                                                         | 216-122 |
|    | <b>Item no.: 216-123</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated                                                                            | 216-123 |
|    | <b>Item no.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                         | 216-131 |
|    | <b>Item no.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                         | 216-132 |
|  | <b>Item no.: 216-141</b><br>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  | 216-141 |
|  | <b>Item no.: 216-142</b><br>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 | 216-142 |
|  | <b>Item no.: 216-143</b><br>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    | 216-143 |
|  | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                         | 216-151 |
|  | <b>Item no.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                         | 216-152 |
|  | <b>Item no.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                     | 216-201 |
|  | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                     | 216-202 |
|  | <b>Item no.: 216-203</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                                                                         | 216-203 |
|  | <b>Item no.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                     | 216-221 |
|  | <b>Item no.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                     | 216-222 |

|                                                                                    |                                                                                                                                                                                            |                     |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|     | <b>Item no.: 216-223</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                                                                             | 216-223             |
|     | <b>Item no.: 216-241</b><br>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; white | 216-241             |
|     | <b>Item no.: 216-242</b><br>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; gray | 216-242             |
|     | <b>Item no.: 216-243</b><br>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     | 216-243             |
|     | <b>Item no.: 216-262</b><br>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; gray | 216-262             |
|     | <b>Item no.: 216-263</b><br>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     | 216-263             |
|                                                                                    | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow                                                                       | 216-301             |
|     | <b>Item no.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green                                                                        | 216-302             |
|                                                                                    | <b>Item no.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow                                                                       | 216-321             |
|   | <b>Item no.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green                                                                        | 216-322             |
| <b>Marking accessories</b>                                                         |                                                                                                                                                                                            |                     |
|                                                                                    | <b>Item no.: 210-332/500-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white    | 210-332<br>/500-202 |
|                                                                                    | <b>Item no.: 210-332/500-204</b><br>Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white   | 210-332<br>/500-204 |
|                                                                                    | <b>Item no.: 210-332/500-205</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white     | 210-332<br>/500-205 |
|                                                                                    | <b>Item no.: 210-332/500-206</b><br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white   | 210-332<br>/500-206 |
| <b>tools</b>                                                                       |                                                                                                                                                                                            |                     |
|  | <b>Item no.: 210-657</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short                                                                                   | 210-657             |
|  | <b>Item no.: 210-720</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft                                                                                          | 210-720             |

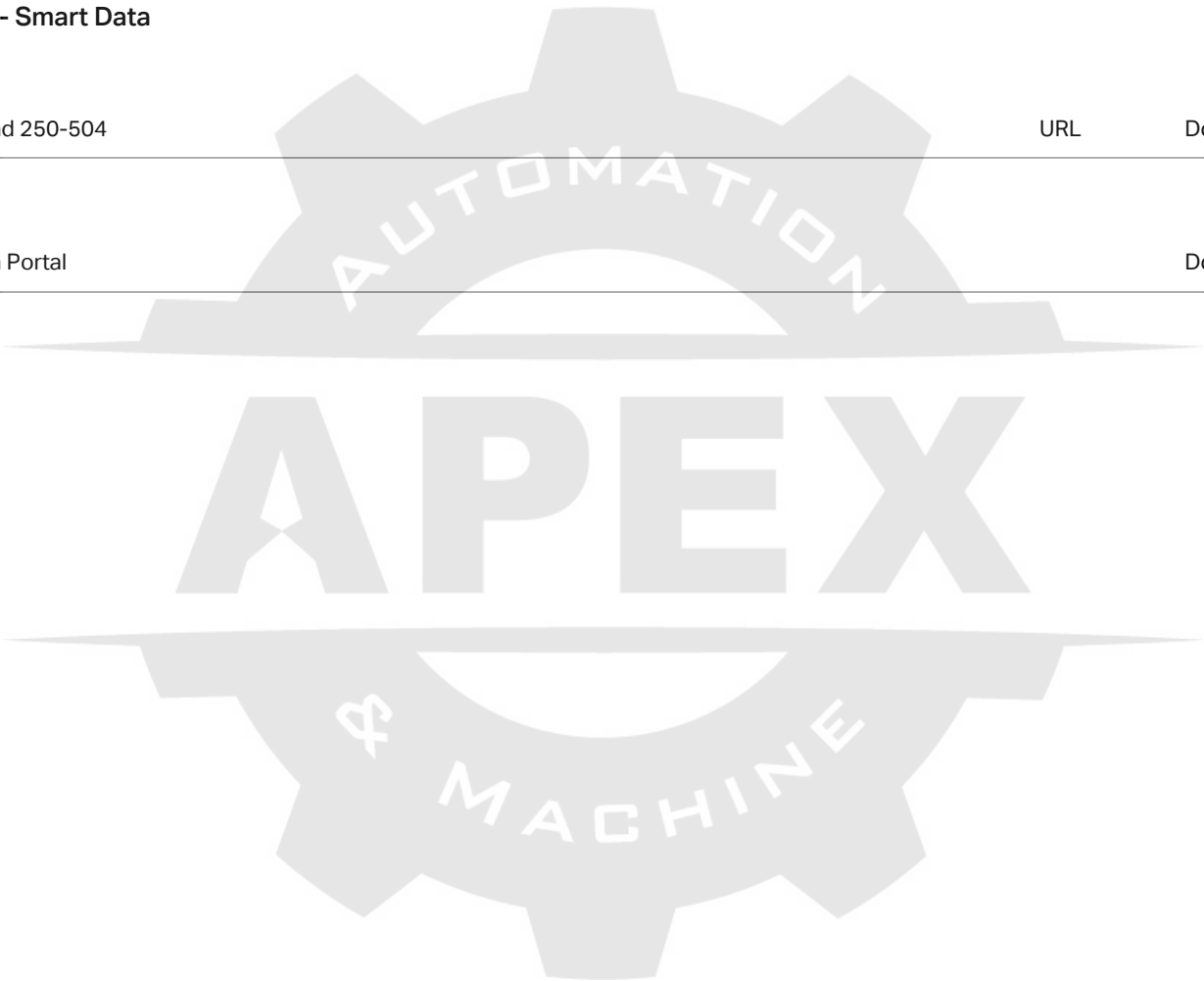


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Documentation

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| Additional Information |             |               |          |
| Technical explanations | Apr 3, 2019 | pdf<br>3.6 MB | Download |

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Subject to changes.