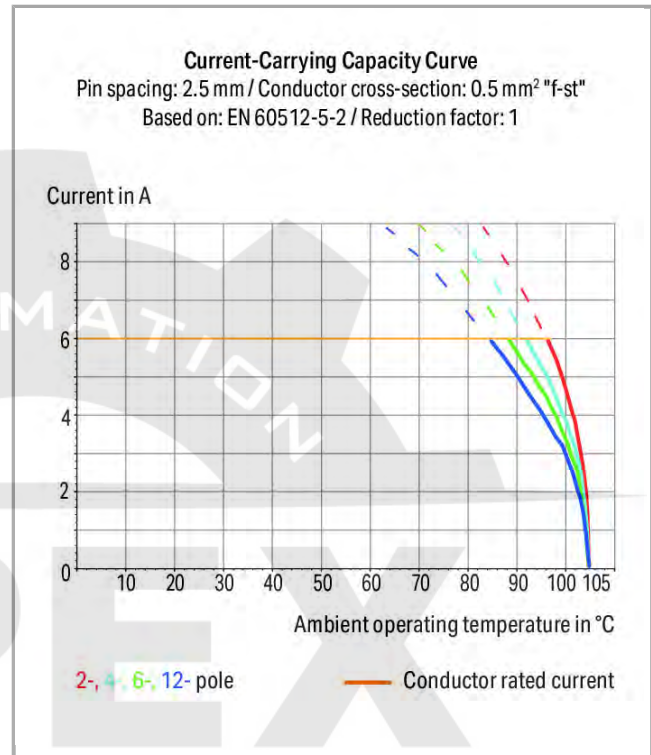


# Data sheet | Item number: 218-510

PCB terminal block; Locking slides; 0.5 mm<sup>2</sup>; Pin spacing 2.54 mm; 10-pole;  
CAGE CLAMP®



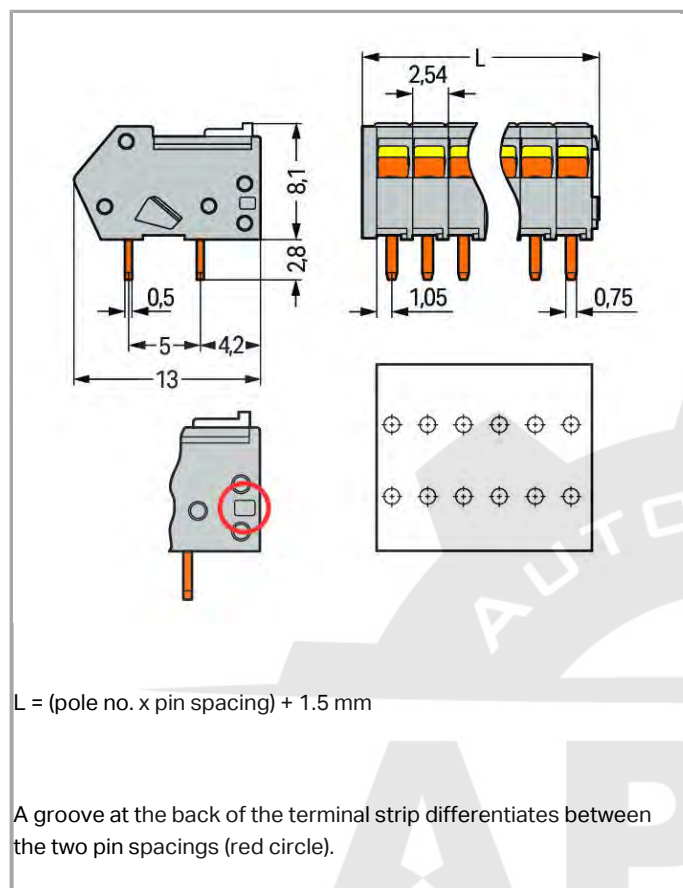
218-510



RoHS ☒ Compliant

BOMcheck.net

Color: ☐



### Item description

- Terminal strips are just 8.1mm high and feature an innovative, locking slide-actuated CAGE CLAMP®
- Several clamping units can be held open simultaneously
- Easy termination of stranded conductors in tight spaces (e.g., bus connectors)

### Data

#### Electrical data

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

|                                 |        |
|---------------------------------|--------|
| Rated voltage (III / 3)         | 80 V   |
| Rated impulse voltage (III / 3) | 2.5 kV |
| Rated voltage (III / 2)         | 160 V  |
| Rated impulse voltage (III / 2) | 2.5 kV |
| Rated voltage (II / 2)          | 320 V  |
| Rated impulse voltage (II / 2)  | 2.5 kV |
| Rated current                   | 6 A    |

## Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 150 V |
| Rated current UL (Use Group B) | 4 A   |

## Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 150 V |
| Rated current CSA (Use Group B) | 4 A   |

## Connection data

|                                                             |                                                                                                                                                                  |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection technology                                       | CAGE CLAMP®                                                                                                                                                      |
| Actuation type                                              | Locking slide                                                                                                                                                    |
| Solid conductor                                             | 0.08 ... 0.5 mm² / 28 ... 20 AWG                                                                                                                                 |
| Fine-stranded conductor                                     | 0.08 ... 0.5 mm² / 28 ... 20 AWG                                                                                                                                 |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 mm²                                                                                                                                                         |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 mm²                                                                                                                                                         |
| Strip length                                                | 5 ... 6 mm / 0.2 ... 0.24 inch                                                                                                                                   |
| Conductor entry angle to the PCB                            | 40°                                                                                                                                                              |
| Note (conductor cross-section)                              | Terminating 0.75 mm²/18 AWG conductors is possible; however insulation diameter allows only every other clamping unit to be terminated with this conductor size. |
| No. of poles                                                | 10                                                                                                                                                               |
| Total number of connection points                           | 10                                                                                                                                                               |
| Total number of potentials                                  | 10                                                                                                                                                               |
| Number of connection types                                  | 1                                                                                                                                                                |
| Number of levels                                            | 1                                                                                                                                                                |

## Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 2.54 mm / 0.1 inch             |
| Width                             | 26.9 mm / 1.059 inch           |
| Height                            | 10.9 mm / 0.429 inch           |
| Height from the surface           | 8.1 mm / 0.319 inch            |
| Depth                             | 13 mm / 0.512 inch             |
| Solder pin length                 | 2.8 mm                         |
| Solder pin dimensions             | 0.5 x 0.75 mm                  |
| Drilled hole diameter (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

|                             |                                        |
|-----------------------------|----------------------------------------|
| 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                   | 0.043 MJ                               |
| Weight                      | 3.3 g                                  |

## Environmental Requirements

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

## Commercial data

|                    |                     |
|--------------------|---------------------|
| Product Group      | 4 (Printed Circuit) |
| Country of origin  | PL                  |
| GTIN               | 4044918878487       |
| Customs Tariff No. | 85369010000         |

## Approvals / Certificates

### Country specific Approvals

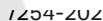
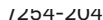
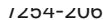
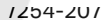
| Logo                                                                               | Approval                         | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V.  | EN 60947-7-4             | NTR NL-7267      |
|  | CCA<br>DEKRA Certification B.V.  | EN 60947                 | NTR NL-7076      |
|  | CSA<br>DEKRA Certification B.V.  | C22.2 No. 158            | 1565656          |
|  | ENEC<br>DEKRA Certification B.V. | EN 60947                 | 2160584.01       |

## UL-Approvals

| Logo                                                                             | Approval                            | Additional Approval Text | Certificate name  |
|----------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------|
|  | UL<br>UL International Germany GmbH | UL 1059                  | E45172<br>Sec. 43 |

## Compatible products

## Marking accessories

|                                                                                                                                                                                              |                                                                                       |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|
| <b>Item no.: 210-331/254-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive  |    | 210-331 |
| <b>Item no.: 210-331/254-204</b><br>Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive |   | 210-331 |
| <b>Item no.: 210-331/254-206</b><br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive |  | 210-331 |
| <b>Item no.: 210-331/254-207</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive  |  | 210-331 |

## check

|                                                                                    |                                                                                    |         |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------|
|  | <b>Item no.: 735-500</b><br>Test pin; 1 mm Ø; with solder connection for test wire | 735-500 |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------|

## tools

|                                                                                    |                                                                                                                |         |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|
|  | <b>Item no.: 210-648</b><br>Operating tool with partially insulated shaft; Blade (2.5 x 0.4) mm; short; angled | 210-648 |
|  | <b>Item no.: 210-719</b><br>Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm        | 210-719 |

## ferrule

|                                                                                   |                                                                                                                |         |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|
|  | <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.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated | 216-151 |
|                                                                                   | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated   | 216-301 |
|                                                                                   | <b>Item no.: 216-321</b>                                                                                       |         |



Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated

216-321

Downloads  
Documentation

Additional Information

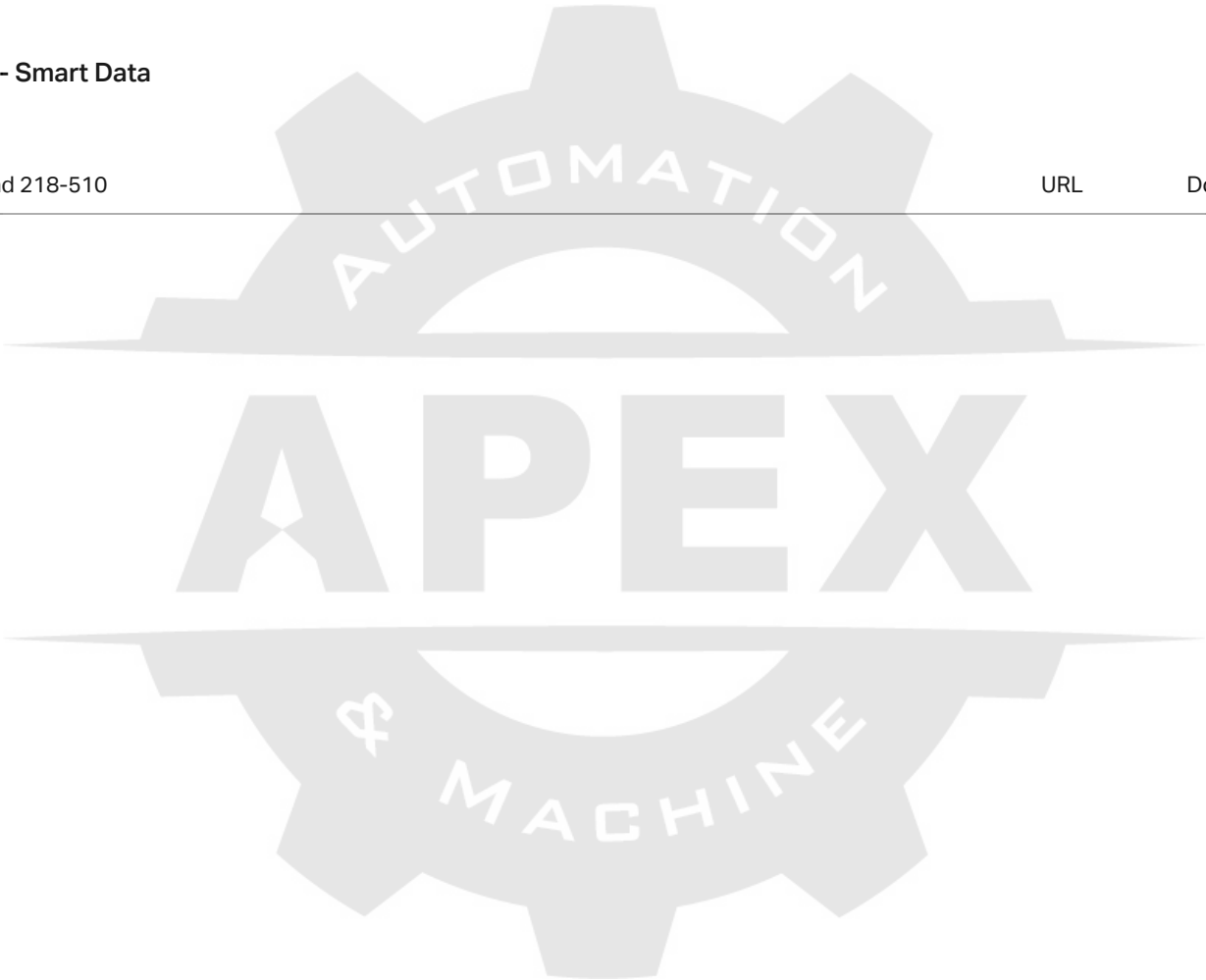
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Subject to changes.