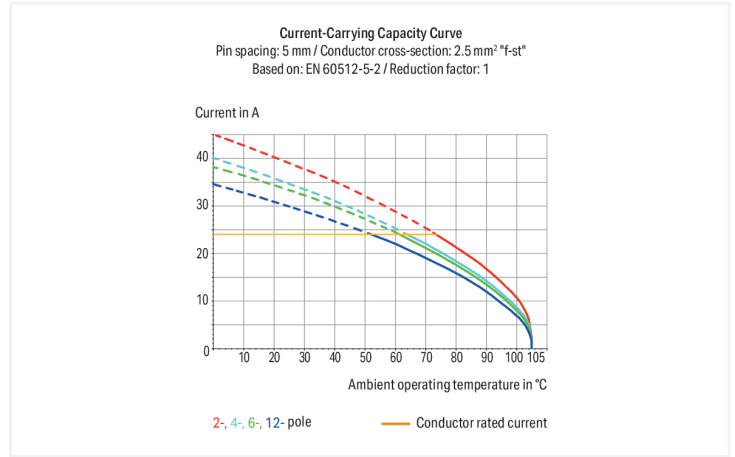


# Data Sheet | Item Number: 739-155

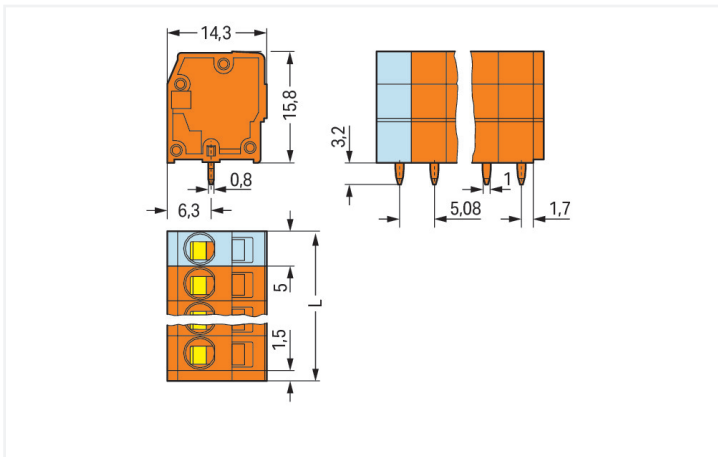
PCB terminal block; 2.5 mm<sup>2</sup>; Pin spacing 5.08 mm; 5-pole; CAGE CLAMP®; orange

<https://www.wago.com/739-155>



Color: ■ orange

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5 \text{ mm} + 1.5 \text{ mm}$

## PCB terminal block, 739 Series, 90° conductor entry to board

Connect conductors quickly and easily with this PCB terminal block (item number 739-155). It is a universal connector that can be used practically anywhere, for example, as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Ensure that the strip lengths are between 8 and 9 mm when connecting conductors to this PCB terminal block. This product incorporates one conductor terminal and utilizes CAGE CLAMP®. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. The item's dimensions are (26.82 x 19 x 14.3) mm (width x height x depth). Depending on the type of conductor, this PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 2.5 mm<sup>2</sup>.

The contact surface is coated with tin. This PCB terminal block is operated with an operating tool. THT is used to solder the PCB terminal block. The conductor is designed to be inserted at a 90° angle.

## Notes

|           |  |
|-----------|--|
| Variants: | Other pole numbers<br>Other colors<br>Mixed-color PCB connector strips<br>Direct marking<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> . |
|-----------|--|

## Electrical data

| Ratings per                     | IEC/EN 60664-1 |       |       | Approvals per | UL 1059 |   |       |
|---------------------------------|----------------|-------|-------|---------------|---------|---|-------|
| Overvoltage category            | III            | III   | II    | Use group     | B       | C | D     |
| Pollution degree                | 3              | 2     | 2     | Rated voltage | 300 V   | - | 300 V |
| Nominal voltage                 | 320 V          | 320 V | 630 V | Rated current | 20 A    | - | 10 A  |
| Rated impulse withstand voltage | 4 kV           | 4 kV  | 4 kV  |               |         |   |       |
| Rated current                   | 24 A           | 24 A  | 24 A  |               |         |   |       |

| Approvals per | CSA   |   |       |
|---------------|-------|---|-------|
| Use group     | B     | C | D     |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 12 A  | - | 10 A  |

## Connection Data

|                            |   |   |  |
|----------------------------|---|---|--|
| Clamping units             | 5 | <b>Connection 1</b>                               |  |
| Total number of potentials | 5 | Connection technology                             | CAGE CLAMP®                                  |
| Number of connection types | 1 | Actuation type                                    | Operating tool                               |
| Number of levels           | 1 | Solid conductor                                   | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
|                            |   | Fine-stranded conductor                           | 0.08 ... 2.5 mm <sup>2</sup> / 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 ... 2.5 mm <sup>2</sup>                 |
|                            |   | Note (conductor cross-section)                    | 12 AWG: THHN, THWN                           |
|                            |   | Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches            |
|                            |   | Conductor connection direction to PCB             | 90 °   |
|                            |   | Pole number                                       | 5  |

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 5.08 mm / 0.2 inches     |
| Width                                | 26.82 mm / 1.056 inches  |
| Height                               | 19 mm / 0.748 inches     |
| Height from the surface              | 15.8 mm / 0.622 inches   |
| Depth                                | 14.3 mm / 0.563 inches   |
| Solder pin length                    | 3.2 mm                   |
| Solder pin dimensions                | 0.8 x 1.2 mm             |
| Drilled hole diameter with tolerance | 1.6 <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 | 1  |

### Material data

|                                    |  |
|------------------------------------|--|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | orange   |
| Material group                     | I  |
| Insulation material (main housing) | Polyamide (PA66)   |
| Flammability class per UL94        | V0   |
| Clamping spring material           | Chrome-nickel spring steel (CrNi)  |
| Contact material                   | Electrolytic copper (E <sub>cu</sub> )                                   |
| Contact Plating                    | Tin  |
| Fire load                          | 0.107 MJ   |
| Weight                             | 5.9 g  |

### Environmental requirements

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

### Commercial data

|                       |                                |
|-----------------------|--------------------------------|
| Product Group         | 4 (Printed Circuit Connectors) |
| PU (SPU)              | 160 (40) pcs                   |
| Packaging type        | Box                            |
| Country of origin     | CH                             |
| GTIN                  | 4044918860444                  |
| Customs tariff number | 85369010000                    |

### Product Classification

|             |                      |
|-------------|----------------------|
| UNSPSC      | 39121409             |
| eCl@ss 10.0 | 27-44-04-01          |
| eCl@ss 9.0  | 27-44-04-01          |
| ETIM 9.0    | EC002643             |
| ETIM 10.0   | EC002643             |
| ECCN        | NO US CLASSIFICATION |

### Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

### Approvals / Certificates

#### General approvals



| Approval                        | Standard      | Certificate Name |
|---------------------------------|---------------|------------------|
| CCA<br>DEKRA Certification B.V. | EN 60947      | NTR NL-7961      |
| CCA<br>DEKRA Certification B.V. | EN 60947-7-4  | NTR NL 7780      |
| CSA<br>DEKRA Certification B.V. | C22.2 No. 158 | 1711139          |

#### General approvals

|                                       |              |           |
|---------------------------------------|--------------|-----------|
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947-7-4 | 71-110334 |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947     | 71-125886 |

## Downloads

### Environmental Product Compliance

|  |  |  |   |
|--|--|--|---|
| Compliance Search                        |  |  |   |
| Environmental Product Compliance 739-155 |  |  | ↓ |

## Documentation

|                        |            |                   |   |
|------------------------|------------|-------------------|---|
| Additional Information |            |                   |   |
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB | ↓ |

## CAD/CAE-Data

|                      |  |  |   |
|----------------------|--|--|---|
| CAD data             |  |  |   |
| 2D/3D Models 739-155 |  |  | ↓ |

|                           |   |
|---------------------------|---|
| CAE data                  |   |
| EPLAN Data Portal 739-155 | ↓ |
| ZUKEN Portal 739-155      | ↓ |

|  |   |
|--|---|
| PCB Design                                       |   |
| Symbol and Footprint via SamacSys 739-155        | ↓ |
| Symbol and Footprint via Ultra Librarian 739-155 | ↓ |

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Ferrule

##### 1.1.1.1 Ferrule

|  |   |  |  |
|--|---|--|--|
|  |   |  |  |
| <p><b>Item No.: 216-301</b><br/>                 Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow</p>   | <p><b>Item No.: 216-302</b><br/>                 Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise</p>   | <p><b>Item No.: 216-201</b><br/>                 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white</p>                   | <p><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</p> |
|  |   |  |  |
| <p><b>Item No.: 216-141</b><br/>                 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</p> | <p><b>Item No.: 216-101</b><br/>                 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; un-insulated; electro-tin plated; silver-colored</p>  | <p><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</p> | <p><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</p> |
|  |   |  |  |
| <p><b>Item No.: 216-202</b><br/>                 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray</p>   | <p><b>Item No.: 216-142</b><br/>                 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</p> | <p><b>Item No.: 216-102</b><br/>                 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; un-insulated; electro-tin plated; silver-colored</p>  | <p><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</p>     |

### 1.1.1.1 Ferrule



**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.: 216-103**

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



**Item No.: 216-143**

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



**Item No.: 216-204**

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.: 216-144**

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



**Item No.: 216-106**

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; un-insulated; electro-tin plated; silver-colored

### 1.1.2 Marking

#### 1.1.2.1 Marking strip



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

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



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

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



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

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



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

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

### 1.1.3 Tool

#### 1.1.3.1 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

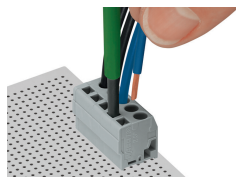


**Item No.: 210-657**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

### Installation Notes

#### Conductor termination



Inserting a conductor parallel to screwdriver actuation – 739 Series.