

## Data Sheet | Item Number: 736-662

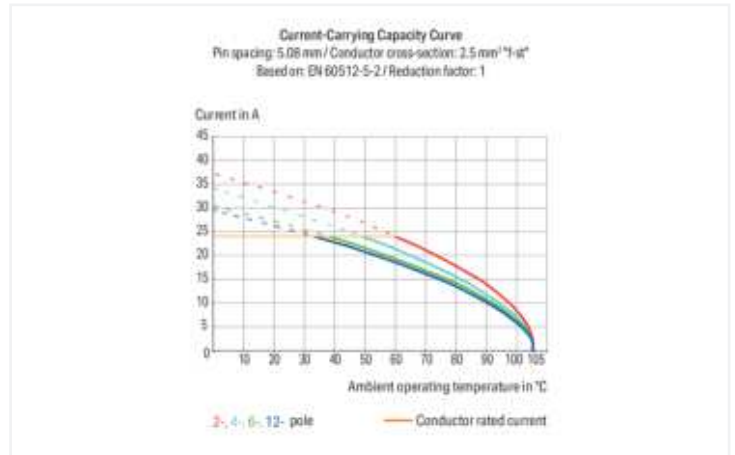
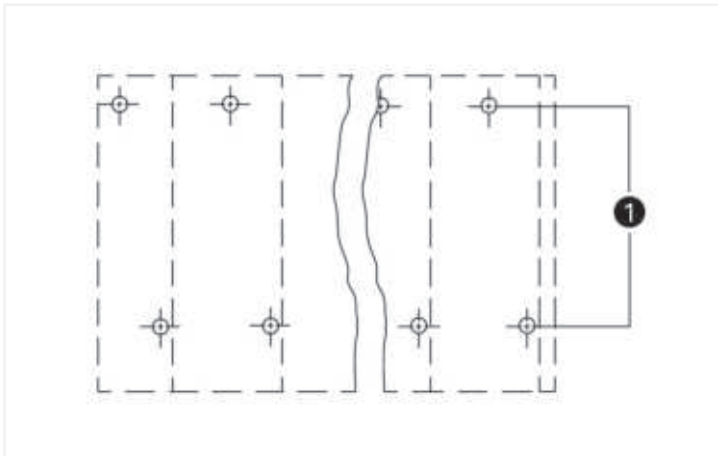
Double-deck PCB terminal block; 2.5 mm<sup>2</sup>; Pin spacing 7.62 mm; 24-pole; CAGE CLAMP®; orange

<https://www.wago.com/736-662>

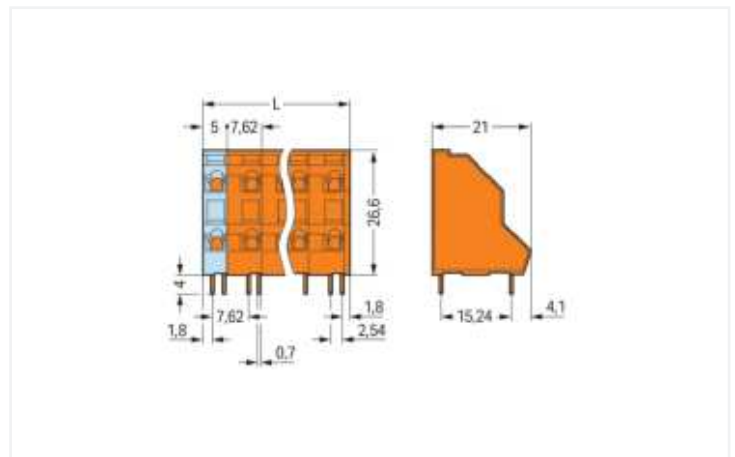


Color: ■ orange

Similar to illustration



(1) Solder pins staggered by half the pin spacing



PCB terminal block, 736 Series, 45 °conductor entry to board

This PCB terminal block (item number 736-662) is designed for quick and simple connections. It is a universal connector that can be used practically anywhere, e. g., as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Conductors can only be connected to this PCB terminal block if their strip length is between 5 and 6 mm. Featuring one conductor terminal along with CAGE CLAMP®, this product outperforms the competition. Our proven universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. The dimensions are (89.92 x 30.6 x 21) mm (width x height x depth). 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 45° 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                         |                | between the modules |                |
| Ratings per                     | IEC/EN 60664-1 | IEC/EN 60664-1      | IEC/EN 60664-1 |
| Overvoltage category            | III            | III                 | II             |
| Pollution degree                | 3              | 2                   | 2              |
| Nominal voltage                 | 400 V          | 630 V               | 1000 V         |
| Rated impulse withstand voltage | 6 kV           | 6 kV                | 6 kV           |
| Rated current                   | 21 A           | 21 A                | 21 A           |

| Ratings                         |                | between the decks |                |
|---------------------------------|----------------|-------------------|----------------|
| Ratings per                     | IEC/EN 60664-1 | IEC/EN 60664-1    | IEC/EN 60664-1 |
| Overvoltage category            | III            | III               | II             |
| Pollution degree                | 3              | 2                 | 2              |
| Nominal voltage                 | 320 V          | 320 V             | 630 V          |
| Rated impulse withstand voltage | 4 kV           | 4 kV              | 4 kV           |
| Rated current                   | 21 A           | 21 A              | 21 A           |

| Approvals per |       | UL 1059 |       |
|---------------|-------|---------|-------|
| Use group     | B     | C       | D     |
| Rated voltage | 300 V | -       | 300 V |
| Rated current | 10 A  | -       | 10 A  |

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

| Connection Data            |    |
|----------------------------|----|
| Clamping units             | 24 |
| Total number of potentials | 24 |
| Number of connection types | 1  |
| Number of levels           | 2  |

| Connection 1                                      |                                  |
|---------------------------------------------------|----------------------------------|
| Connection technology                             | CAGE CLAMP®                      |
| Actuation type                                    | Operating tool                   |
| 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 mm²                 |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm²                 |
| Note (conductor cross-section)                    | 12 AWG: THHN, THWN               |
| Strip length                                      | 5 ... 6 mm / 0.2 ... 0.24 inches |
| Conductor connection direction to PCB             | 45 °                             |
| Pole number                                       | 24                               |

| Physical data           |                        |
|-------------------------|------------------------|
| Pin spacing             | 7.62 mm / 0.3 inches   |
| Width                   | 89.92 mm / 3.54 inches |
| Height                  | 30.6 mm / 1.201 inches |
| Height from the surface | 26.6 mm / 1.043 inches |
| Depth                   | 21 mm / 0.827 inches   |
| Solder pin length       | 4 mm                   |
| Solder pin dimensions   | 0.7 x 0.7 mm           |
| Drilled hole diameter   | 1.3 (+0.1) mm          |



| PCB contact                         |  |                                       |
|-------------------------------------|--|---------------------------------------|
| PCB contact                         |  | THT                                   |
| Solder pin arrangement              |  | within the terminal block (staggered) |
| 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                          |  | 0.493 MJ                                                                 |
| Weight                             |  | 32.2 g                                                                   |

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

| Commercial data       |  |                                |
|-----------------------|--|--------------------------------|
| Product Group         |  | 4 (Printed Circuit Connectors) |
| PU (SPU)              |  | 14 pcs                         |
| Packaging type        |  | Box                            |
| Country of origin     |  | PL                             |
| GTIN                  |  | 4044918916295                  |
| 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                                                                  |               |                  | General approvals                       |               |          |
|------------------------------------------------------------------------------------|---------------|------------------|-----------------------------------------|---------------|----------|
|  |               |                  | CSA<br>DEKRA Certification B.V.         | C22.2 No. 158 | 70049157 |
|                                                                                    |               |                  | UR<br>Underwriters Laboratories<br>Inc. | UL 1059       | E45172   |
| Approval                                                                           | Standard      | Certificate Name |                                         |               |          |
| CCA<br>DEKRA Certification B.V.                                                    | EN 60947      | 2160584.37       |                                         |               |          |
| CCA<br>DEKRA Certification B.V.                                                    | EN 60947      | NTR NL-7143      |                                         |               |          |
| CCA<br>DEKRA Certification B.V.                                                    | IEC 60947-7-4 | NTR NL-7814      |                                         |               |          |



Declarations of conformity and manufacturer's declarations

| Approval                                           | Standard | Certificate Name |
|----------------------------------------------------|----------|------------------|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |

Approvals for marine applications

|    |           |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|
| Approval                                                                                                                                                                                                                                                 | Standard  | Certificate Name |
| ABS<br>American Bureau of Shipping                                                                                                                                                                                                                       | -         | 24-0095975-PDA   |
| BV<br>Bureau Veritas S.A.                                                                                                                                                                                                                                | IEC 60998 | 11915/E0 BV      |
| DNV<br>DNV GL SE                                                                                                                                                                                                                                         | -         | TAE000016Z       |

Downloads

Environmental Product Compliance

| Compliance Search                        |
|------------------------------------------|
| Environmental Product Compliance 736-662 |
| <a href="#">↓</a>                        |

Documentation

| Additional Information                     |
|--------------------------------------------|
| Technical Section                          |
| 03.04.2019                                 |
| pdf                                        |
| 2027.26 KB                                 |
| <a href="#">↓</a>                          |
| Gebrückte Klemmenleisten für Leiterplatten |
|                                            |
| pdf                                        |
| 303.71 KB                                  |
| <a href="#">↓</a>                          |

CAD/CAE-Data

| CAD data             |
|----------------------|
| 2D/3D Models 736-662 |
| <a href="#">↓</a>    |

| CAE data                  |
|---------------------------|
| EPLAN Data Portal 736-662 |
| <a href="#">↓</a>         |
| ZUKEN Portal 736-662      |
| <a href="#">↓</a>         |

| PCB Design                                       |
|--------------------------------------------------|
| Symbol and Footprint via SamacSys 736-662        |
| <a href="#">↓</a>                                |
| Symbol and Footprint via Ultra Librarian 736-662 |
| <a href="#">↓</a>                                |



1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

|                                                                                                          |                                                                                                                    |                                                                                                                   |                                                                                                                    |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                         |                                   |                                  |                                 |
| <b>Item No.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow | <b>Item No.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored | <b>Item No.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise | <b>Item No.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; uninsulated; electro-tin plated; silver-colored |
|                         |                                   |                                  |                                 |
| <b>Item No.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white   | <b>Item No.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored  | <b>Item No.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray            | <b>Item No.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; silver-colored |
|                         |                                   |                                  |                                 |
| <b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red       | <b>Item No.: 216-123</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored    | <b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black            | <b>Item No.: 216-124</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated                  |

1.1.2 Marking

1.1.2.1 Marking strip



**Item No.: 210-332/762-020**  
Marking strips; as a DIN A4 sheet; MARKED; 1-20 (80x); 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

|                                                                                                                                 |                                                                                                                  |                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|                                              |                               |                                     |
| <b>Item No.: 210-658</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured | <b>Item No.: 210-720</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured | <b>Item No.: 210-657</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured |

Installation Notes

Conductor termination



Inserting a conductor via 3.5 mm screwdriver.  
Screwdriver actuation parallel to conductor entry

Installation



Low space requirements due to high-density design  
Double-deck PCB terminal strip – 736 Series



**Possible combination:**  
Double- (736 Series) and triple-deck PCB terminal strips (737 Series) upon request



**Possible combination:**  
Double- (736 Series) and triple-deck PCB terminal strips (737 Series) upon request

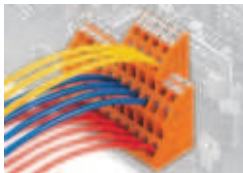


**Possible combination:**  
Double- (737 Series) and quadruple-deck PCB terminal strips (738 Series) upon request



**Possible combination:**  
Double- (737 Series) and quadruple-deck PCB terminal strips (738 Series) upon request

Marking



Testing



Testing via contact area above the conductors.