

## Data Sheet | Item Number: 737-703

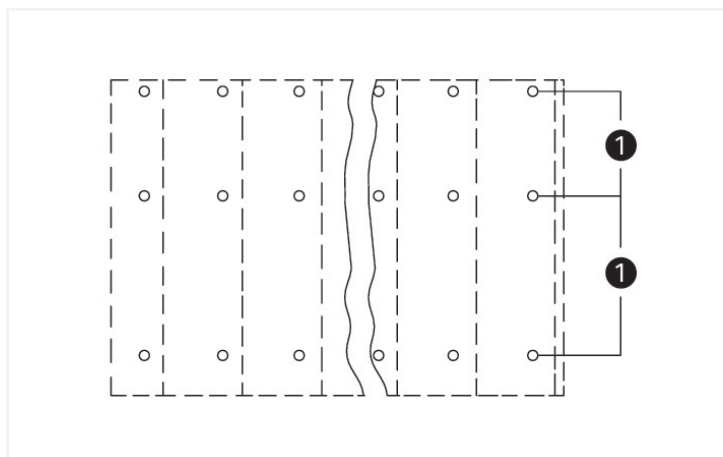
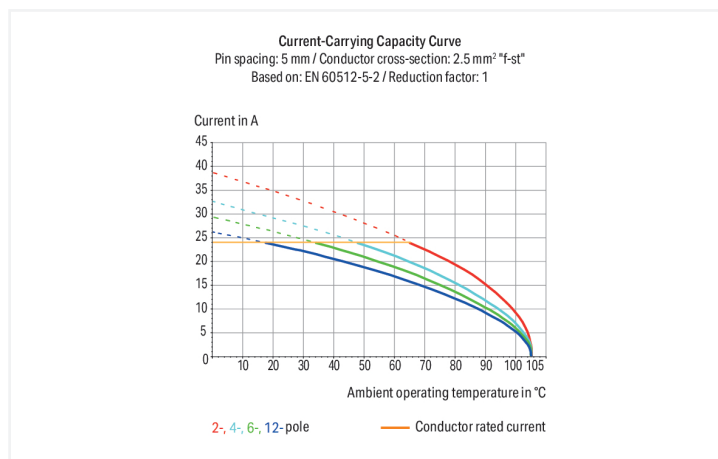
Triple-deck PCB terminal block; 2.5 mm<sup>2</sup>; Pin spacing 10 mm; 9-pole; CAGE CLAMP®; gray

<https://www.wago.com/737-703>

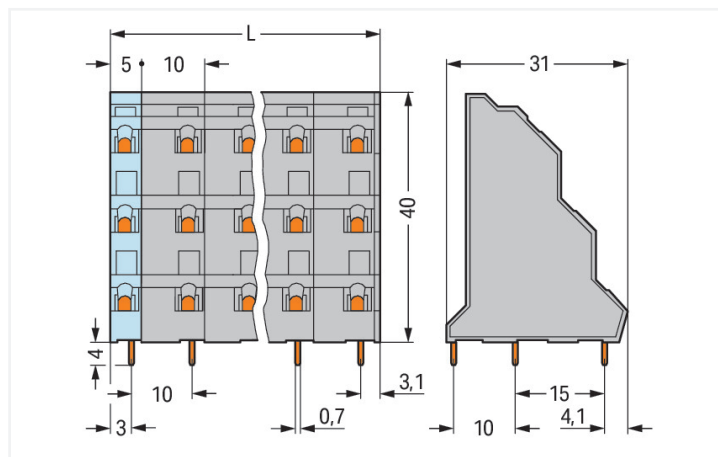


Color: ■ gray

Similar to illustration



(1) Solder pins in line



Dimensions in mm  
 $L = ((\text{pole no.} / 3) - 1) \times \text{pin spacing} + 5 \text{ mm} + 1.1 \text{ mm}$

### PCB terminal block, 737 Series, 45 °conductor entry to board

This PCB terminal block (item number 737-703) is designed for easy and secure 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 should only be connected to this PCB terminal block if their strip length is between 5 and 6 mm. This product features one conductor terminal and utilizes CAGE CLAMP®. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. The dimensions are (26.1 x 44 x 31) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is ideal 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. An operating tool is used to operate this PCB terminal block. THT is used to assemble the PCB terminal block. Insert the conductor into the board at an angle of 45°..



| 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 between the decks       |                |                |                |
|---------------------------------|----------------|----------------|----------------|---------------------------------|----------------|----------------|----------------|
| Ratings per                     | IEC/EN 60664-1 | IEC/EN 60664-1 | IEC/EN 60664-1 | Ratings per                     | IEC/EN 60664-1 | IEC/EN 60664-1 | IEC/EN 60664-1 |
| Overvoltage category            | III            | III            | II             | Overvoltage category            | III            | III            | II             |
| Pollution degree                | 3              | 2              | 2              | Pollution degree                | 3              | 2              | 2              |
| Nominal voltage                 | 630 V          | 1000 V         | 1000 V         | Nominal voltage                 | 320 V          | 320 V          | 630 V          |
| Rated impulse withstand voltage | 8 kV           | 8 kV           | 8 kV           | Rated impulse withstand voltage | 4 kV           | 4 kV           | 4 kV           |
| Rated current                   | 21 A           | 21 A           | 21 A           | 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             | 9 | <b>Connection 1</b>                               |                                  |
| Total number of potentials | 9 | Connection technology                             | CAGE CLAMP®                      |
| Number of connection types | 1 | Actuation type                                    | Operating tool                   |
| Number of levels           | 3 | 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                                       | 9                                |

Physical data

|                         |                        |
|-------------------------|------------------------|
| Pin spacing             | 10 mm / 0.394 inches   |
| Width                   | 26.1 mm / 1.028 inches |
| Height                  | 44 mm / 1.732 inches   |
| Height from the surface | 40 mm / 1.575 inches   |
| Depth                   | 31 mm / 1.22 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 (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                              | gray                                                                     |  |
| 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                          | 0.247 MJ                                                                 |  |
| Weight                             | 15.6 g                                                                   |  |

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

| Commercial data       |                                |  |
|-----------------------|--------------------------------|--|
| Product Group         | 4 (Printed Circuit Connectors) |  |
| PU (SPU)              | 40 pcs                         |  |
| Packaging type        | Box                            |  |
| Country of origin     | PL                             |  |
| GTIN                  | 4045454022495                  |  |
| 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 Inc. | UL 1059       | E45172   |
| Approval                                                                           | Standard     | Certificate Name |                                      |               |          |
| CCA<br>DEKRA Certification B.V.                                                    | EN 60947     | NTR NL-7960      |                                      |               |          |
| CCA<br>DEKRA Certification B.V.                                                    | EN 60947-7-4 | 2169331.28       |                                      |               |          |
| CCA<br>DEKRA Certification B.V.                                                    | EN 60947-7-4 | NTR NL 7445      |                                      |               |          |



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 737-703 |



Documentation

| Additional Information                     |
|--------------------------------------------|
| Technical Section                          |
| 03.04.2019                                 |
| pdf                                        |
| 2027.26 KB                                 |
| ↓                                          |
| Gebrückte Klemmenleisten für Leiterplatten |
| pdf                                        |
| 303.71 KB                                  |
| ↓                                          |

CAD/CAE-Data

| CAD data             |
|----------------------|
| 2D/3D Models 737-703 |



| CAE data                  |
|---------------------------|
| EPLAN Data Portal 737-703 |
| ZUKEN Portal 737-703      |



| PCB Design                                       |
|--------------------------------------------------|
| Symbol and Footprint via SamacSys 737-703        |
| Symbol and Footprint via Ultra Librarian 737-703 |





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 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow | <b>Item No.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored | <b>Item No.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise | <b>Item No.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; uninsulated; electro-tin plated; silver-colored |
|                                     |                                               |                                              |                                             |
| <b>Item No.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white   | <b>Item No.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored  | <b>Item No.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray            | <b>Item No.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; silver-colored |
|                                     |                                               |                                              |                                             |
| <b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red       | <b>Item No.: 216-123</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored    | <b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black            | <b>Item No.: 216-124</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated                  |

1.1.2 Marking

1.1.2.1 Marking strip

|                                                                                                                                                                                         |                                                                                                                                                                                          |                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                      |                                                                                                       |                                                                                                      |
| <b>Item No.: 210-332/1000-202</b><br>Marking strips; as a DIN A4 sheet; MARKED; 1-16 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white | <b>Item No.: 210-332/1000-204</b><br>Marking strips; as a DIN A4 sheet; MARKED; 17-31 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white | <b>Item No.: 210-332/1000-206</b><br>Marking strips; as a DIN A4 sheet; MARKED; 33-48 (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

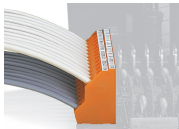
Conductor termination



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

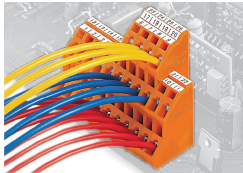


**Possible combination:**  
Double- (737 Series) and quadruple-deck PCB terminal strips (738 Series) upon request

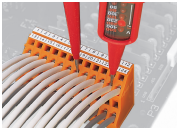


**Possible combination:**  
Double- (737 Series) and quadruple-deck PCB terminal strips (738 Series) upon request

Marking



Testing



Testing via contact area above the conductors.