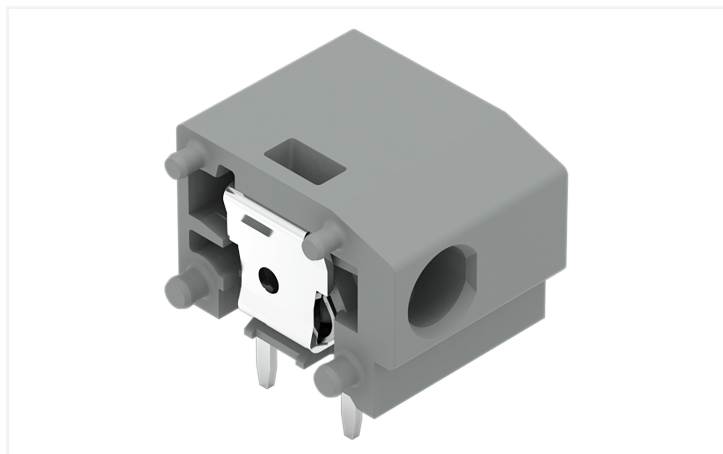


## Data Sheet | Item Number: 235-766

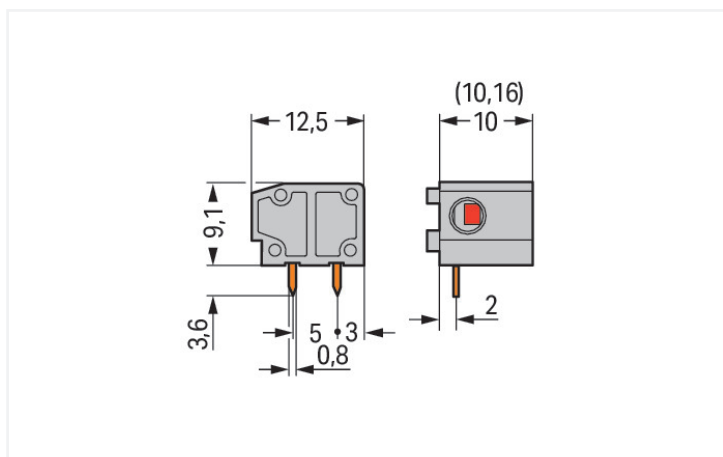
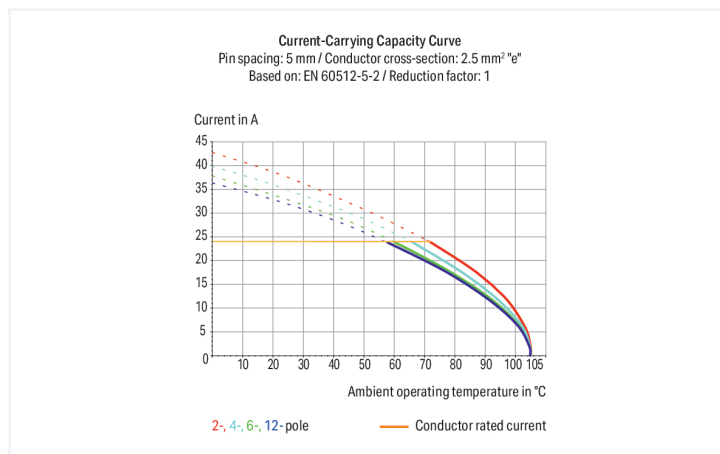
Stackable PCB terminal block; 2.5 mm<sup>2</sup>; Pin spacing 10/10.16 mm; 1-pole; PUSH WIRE®; orange

<https://www.wago.com/235-766>



Color: ■ orange

Similar to illustration



Dimensions in mm

PCB terminal block, 235 Series, solder pin dimensions 0.8 x 0.4 mm

Our PCB terminal block (item number 235-766) is the perfect way to connect conductors quickly and securely. You can count on trusted safety with these PCB terminal blocks, perfect for a wide range of applications when designing your devices. Strip lengths must be between 9 and 10 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes PUSH WIRE®. Our PUSH WIRE® connection offers a quick and simple method for connecting solid conductors. Dimensions: (11.5 x 12.8 x 12.5) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.5 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 solder the PCB terminal block. The conductor is designed to be inserted into the board at a 0° angle..



| Notes     |                                                                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variants: | Other colors<br>Versions for Ex i<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 |        |  |
| Overvoltage category            | III   | III            | II     |  |
| Pollution degree                | 3     | 2              | 2      |  |
| Nominal voltage                 | 630 V | 1000 V         | 1000 V |  |
| Rated impulse withstand voltage | 8 kV  | 8 kV           | 8 kV   |  |
| Rated current                   | 24 A  | 24 A           | 24 A   |  |

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

| Ratings per CSA                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 15 A  |

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

| Connection 1                                      |                                    |
|---------------------------------------------------|------------------------------------|
| Connection technology                             | PUSH WIRE®                         |
| Actuation type                                    | Operating tool                     |
| Solid conductor                                   | 0.5 ... 2.5 mm² / 20 ... 14 AWG    |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm²                   |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm²                   |
| Strip length                                      | 9 ... 10 mm / 0.35 ... 0.39 inches |
| Conductor connection direction to PCB             | 0 °                                |
| Pole number                                       | 1                                  |

| Physical data           |                                |
|-------------------------|--------------------------------|
| Pin spacing             | 10/10.16 mm / 0.394/0.4 inches |
| Width                   | 11.5 mm / 0.453 inches         |
| Height                  | 12.8 mm / 0.504 inches         |
| Height from the surface | 9.2 mm / 0.362 inches          |
| Depth                   | 12.5 mm / 0.492 inches         |
| Solder pin length       | 3.6 mm                         |
| Solder pin dimensions   | 0.8 x 0.4 mm                   |
| !                       | 1 (+0.1) mm                    |

| PCB contact                         |                                     |
|-------------------------------------|-------------------------------------|
| PCB contact                         | THT                                 |
| Solder pin arrangement              | within the terminal block (in-line) |
| Number of solder pins per potential | 2                                   |



| 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                          | 0.019 MJ                                                                 |  |
| Weight                             | 1 g                                                                      |  |

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

| Commercial data       |                                |  |
|-----------------------|--------------------------------|--|
| Product Group         | 4 (Printed Circuit Connectors) |  |
| PU (SPU)              | 400 (100) pcs                  |  |
| Packaging type        | Box                            |  |
| Country of origin     | CN                             |  |
| GTIN                  | 4044918832847                  |  |
| 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                                                                                                                                                      |          |             | Declarations of conformity and manufacturer's declarations |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------------------------------------------------------------|----------|------------------|
|   |          |             | Approval                                                   | Standard | Certificate Name |
| CCA                                                                                                                                                                    | EN 60947 | NTR NL-7144 | EU-Declaration of Confor-                                  | -        | -                |
| DEKRA Certification B.V.                                                                                                                                               |          |             | mity                                                       |          |                  |
|                                                                                                                                                                        |          |             | WAGO GmbH & Co. KG                                         |          |                  |
| CCA                                                                                                                                                                    | EN 60998 | NTR NL 6919 | UK-Declaration of Confor-                                  | -        | -                |
| DEKRA Certification B.V.                                                                                                                                               |          |             | mity                                                       |          |                  |
|                                                                                                                                                                        |          |             | WAGO GmbH & Co. KG                                         |          |                  |
| KEMA/KEUR                                                                                                                                                              | EN 60947 | 2160584.38  |                                                            |          |                  |
| DEKRA Certification B.V.                                                                                                                                               |          |             |                                                            |          |                  |



Approvals for marine applications



| Approval                                | Standard | Certificate Name  |
|-----------------------------------------|----------|-------------------|
| ABS<br>American Bureau of Ship-<br>ping | -        | 24-0095975-PDA    |
| DNV<br>DNV GL SE                        | -        | TAE000016Z        |
| PRS<br>Polski Rejestr Statków           | -        | TE/1095/880590/23 |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 235-766 |
|                                             |

Documentation

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

CAD/CAE-Data

| CAD data             |
|----------------------|
| 2D/3D Models 235-766 |
|                      |

| CAE data                     |
|------------------------------|
| EPLAN Data Portal<br>235-766 |
|                              |
| ZUKEN Portal 235-766         |
|                              |

| PCB Design                                             |
|--------------------------------------------------------|
| Symbol and Footprint<br>via SamacSys 235-766           |
|                                                        |
| Symbol and Footprint<br>via Ultra Librarian<br>235-766 |
|                                                        |



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



**Item No.: 235-500**  
End plate; snap-fit type; 1 mm thick; black



**Item No.: 235-400**  
End plate; snap-fit type; 1 mm thick; blue



**Item No.: 235-200**  
End plate; snap-fit type; 1 mm thick; dark gray



**Item No.: 235-100**  
End plate; snap-fit type; 1 mm thick; gray



**Item No.: 235-300**  
End plate; snap-fit type; 1 mm thick; light gray



**Item No.: 235-700**  
End plate; snap-fit type; 1 mm thick; light green



**Item No.: 235-600**  
End plate; snap-fit type; 1 mm thick; orange



**Item No.: 235-800**  
End plate; snap-fit type; 1 mm thick; red



**Item No.: 235-650**  
End plate; snap-fit type; 1 mm thick; violet



**Item No.: 235-850**  
End plate; snap-fit type; 1 mm thick; white



**Item No.: 235-550**  
End plate; snap-fit type; 1 mm thick; yellow

1.1.2 Installation

1.1.2.1 Intermediate plate



**Item No.: 235-701**  
Spacer; for doubling the pin spacing; gray

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



**Item No.: 216-241**  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



**Item No.: 216-141**  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-242**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-262**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-142**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-243**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



**Item No.: 216-263**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



**Item No.: 216-143**  
Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-244**  
Ferrule; Sleeve for 1.5 mm² / 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 mm² / 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 mm² / 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 mm² / AWG 16; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

1.2.2 Marking

1.2.2.1 Marking strip



**Item No.: 210-332/1000-202**  
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



**Item No.: 210-332/1016-202**  
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



**Item No.: 210-332/1000-204**  
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



**Item No.: 210-332/1016-204**  
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



**Item No.: 210-332/1000-206**  
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



**Item No.: 210-332/1016-206**  
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

1.2.3 Tool

1.2.3.1 Operating tool



**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



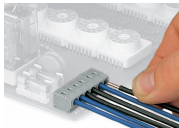
**Item No.: 210-648**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

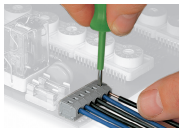
Installation Notes

Conductor termination



Inserting a solid conductor via push-in termination.

Conductor removal



Removing a conductor via screwdriver (2.5 mm blade width).