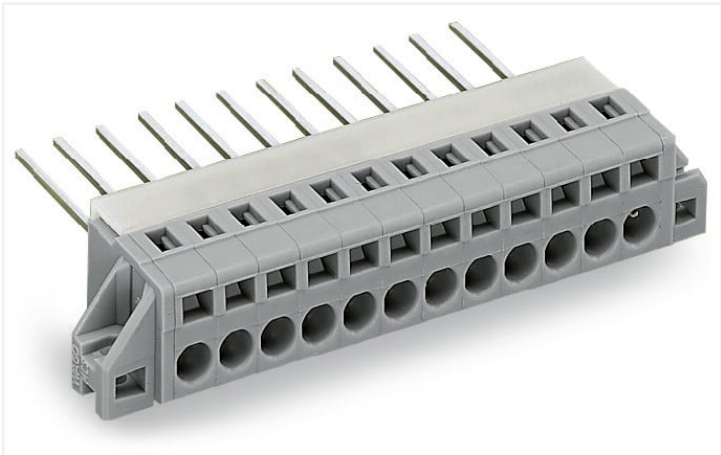


Data Sheet | Item Number: 731-141/048-000

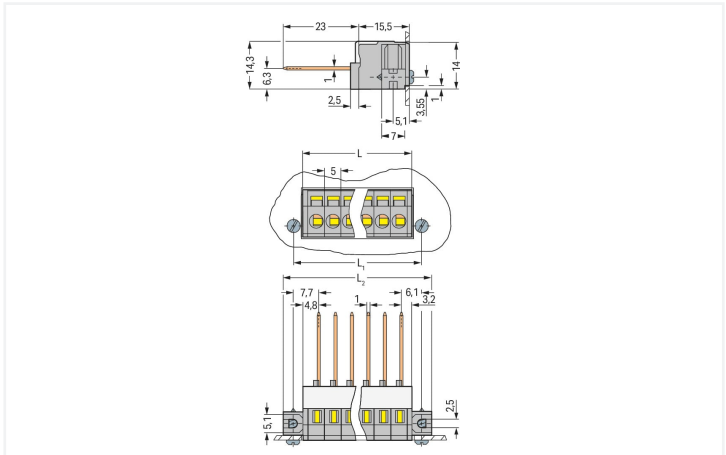
Feedthrough terminal block; Conductor/wire-wrap connection; Plate thickness: 1.5 mm; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 11-pole; CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray

<https://www.wago.com/731-141/048-000>



Color: ■ gray

Similar to illustration



Dimensions in mm  
L = (pole no. x pin spacing) + 3 mm  
L1 = L + 5.8 mm  
L2 = L1 + 6.4 mm  
for plate thickness up to 1.5 mm

- Feedthrough PCB terminal strips with screwdriver-actuated CAGE CLAMP®
- With flanges for PCB or front-panel mounting – either flush with enclosure or protruding

| Notes     |                                                                                                                                                                                                                                                           |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variants: | Other pole numbers<br>Other colors<br>Direct marking<br>Versions without mounting flanges<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      |  | 320 V          | 320 V | 630 V |
| Rated surge voltage  |  | 4 kV           | 4 kV  | 4 kV  |
| Rated current        |  | 5 A            | 5 A   | 5 A   |
| Approvals per        |  | UL 1059        |       |       |
| Use group            |  | B              | C     | D     |
| Rated voltage        |  | 300 V          | 150 V | 300 V |
| Rated current        |  | 5 A            | 5 A   | 5 A   |
| Approvals per        |  | CSA            |       |       |
| Use group            |  | B              | C     | D     |
| Rated voltage        |  | 300 V          | -     | -     |
| Rated current        |  | 5 A            | -     | -     |

## Connection data

|                            |    |
|----------------------------|----|
| Connection points          | 11 |
| Total number of potentials | 11 |
| Number of connection types | 1  |
| Number of levels           | 1  |

### Connection 1

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| Connection technology                             | CAGE CLAMP®                       |
| Actuation type                                    | Operating tool                    |
| Solid conductor                                   | 0.08 ... 2.5 mm² / 28 ... 14 AWG  |
| Fine-stranded conductor                           | 0.08 ... 2.5 mm² / 28 ... 14 AWG  |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm²                  |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm²                  |
| Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches |
| Pole number                                       | 11                                |

## Connection 2

|                         |               |
|-------------------------|---------------|
| Connection technology 2 | Wire-wrap pin |
|-------------------------|---------------|

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 5 mm / 0.197 inches    |
| Width       | 70.2 mm / 2.764 inches |
| Height      | 14.3 mm / 0.563 inches |
| Depth       | 15.5 mm / 0.61 inches  |

## Mechanical data

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| Housing sheet thickness | 1.5 ... 1.5 mm / 0.059 ... 0.059 inches                    |
| Mounting type           | Mounting flange<br>Feed-through mounting<br>Panel mounting |

## Material data

|                             |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | gray                                                                                                                   |
| Material group              | I                                                                                                                      |
| Insulation material         | 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                   | 0.853 MJ                                                                                                               |
| Weight                      | 17 g                                                                                                                   |

## Environmental requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +105 °C |
| Processing temperature  | -35 ... +60 °C  |



| Commercial data       |                        |  |
|-----------------------|------------------------|--|
| Product Group         | 3 (Multi Conn. System) |  |
| eCl@ss 10.0           | 27-14-11-06            |  |
| eCl@ss 9.0            | 27-14-11-06            |  |
| ETIM 8.0              | EC001284               |  |
| ETIM 7.0              | EC001284               |  |
| PU (SPU)              | 10 pcs                 |  |
| Packaging type        | Box                    |  |
| Country of origin     | DE                     |  |
| GTIN                  | 4044918269872          |  |
| Customs tariff number | 85369010000            |  |

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

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                                                                                                      |           |                  | Approvals for marine applications                                                 |           |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-----------------------------------------------------------------------------------|-----------|------------------|
|     |           |                  |  |           |                  |
| Approval                                                                                                                                                                                                                                                                                                                               | Standard  | Certificate Name | Approval                                                                          | Standard  | Certificate Name |
| CB<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                         | IEC 61984 | NL-39756/A1      | BV<br>Bureau Veritas S.A.                                                         | IEC 60998 | 11915/D0 BV      |
| CSA<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                        | C22.2     | 1466354          |                                                                                   |           |                  |
| KEMA/KEUR<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                  | EN 61984  | 71-121453        |                                                                                   |           |                  |
| UL<br>Underwriters Laboratories Inc.                                                                                                                                                                                                                                                                                                   | UL 1977   | E45171           |                                                                                   |           |                  |
| UL<br>Underwriters Laboratories Inc.                                                                                                                                                                                                                                                                                                   | UL 1059   | E45172           |                                                                                   |           |                  |

Downloads

| Environmental Product Compliance                    |                                                                                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| Compliance Search                                   |                                                                                     |
| Environmental Product Compliance<br>731-141/048-000 |  |



Documentation

Additional Information

Technical Section

03.04.2019

pdf  
2010.85 KB



CAD/CAE-Data

CAD data

2D/3D Models  
731-141/048-000



CAE data

EPLAN Data Portal  
731-141/048-000



ZUKEN Portal  
731-141/048-000



1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule



[Item No.: 216-301](#)  
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



[Item No.: 216-321](#)  
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



[Item No.: 216-151](#)  
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated



[Item No.: 216-131](#)  
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored



[Item No.: 216-302](#)  
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



[Item No.: 216-322](#)  
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



[Item No.: 216-132](#)  
Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated



[Item No.: 216-152](#)  
Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated



[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.: 216-201](#)  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



[Item No.: 216-221](#)  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



[Item No.: 216-141](#)  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



[Item No.: 216-101](#)  
Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored



[Item No.: 216-121](#)  
Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored



[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; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



[Item No.: 216-202](#)  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



[Item No.: 216-222](#)  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



[Item No.: 216-142](#)  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



[Item No.: 216-102](#)  
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored



[Item No.: 216-122](#)  
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored



[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.: 216-203](#)  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



1.1.1.1 Ferrule



**Item No.: 216-223**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-103**  
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated



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



**Item No.: 216-123**  
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-204**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



**Item No.: 216-224**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



**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.: 216-124**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated



**Item No.: 216-144**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; 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 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-106**  
Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

1.1.2 Installation

1.1.2.1 Mounting accessories



**Item No.: 231-295**  
Screw with nut



**Item No.: 231-195**  
Screw with nut; M2x12; for fixing element



**Item No.: 209-147**  
Self-tapping screw



**Item No.: 231-194**  
Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø

1.1.3 Marking

1.1.3.1 Marking strip



**Item No.: 210-332/500-202**  
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.: 210-332/500-205**  
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.: 210-332/500-204**  
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.: 210-332/500-206**  
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

1.1.4 Tool

1.1.4.1 Operating tool



**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



Feedthrough PCB terminal strips – front-entry conductor termination



Feedthrough PCB terminal strips can be used as front-panel feedthrough for external conductor termination.



With flanges for PCB or front-panel mounting – either flush with enclosure or protruding