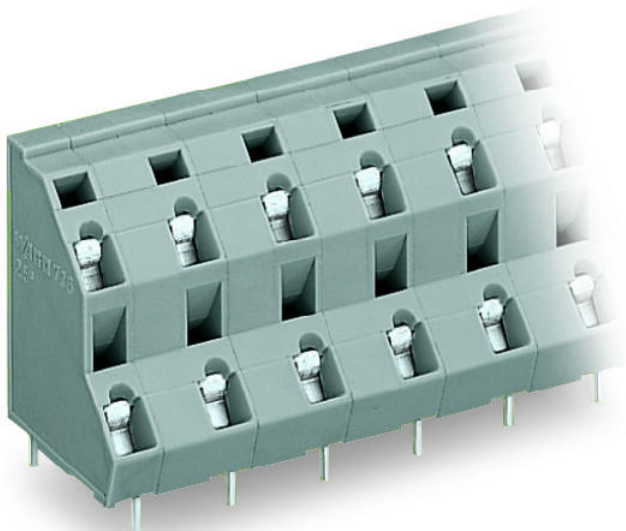


## Data sheet | Item number: 736-754

Double-deck PCB terminal block; 2.5 mm<sup>2</sup>; Pin spacing 10 mm; 2 x 4-pole;  
CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray



736-754

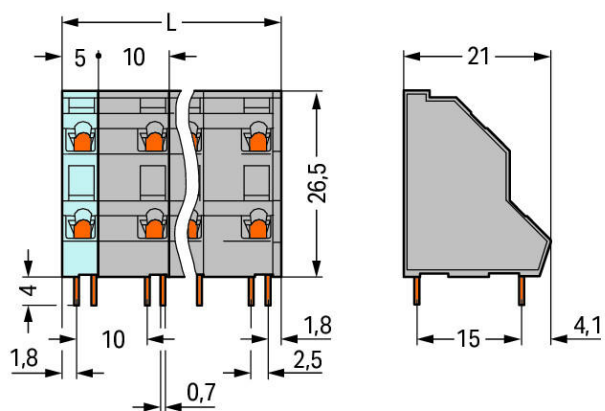
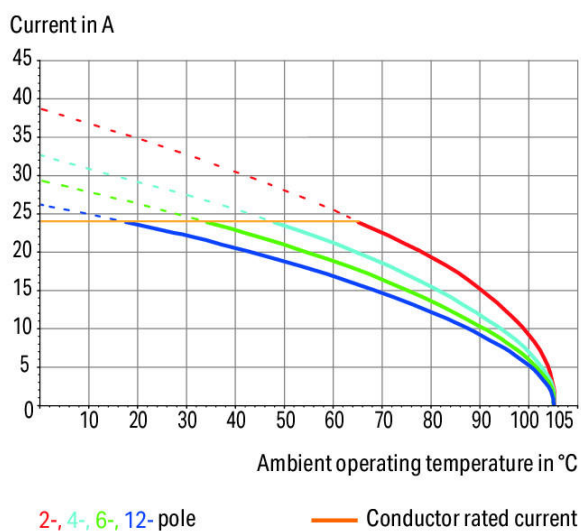


RoHS Compliant

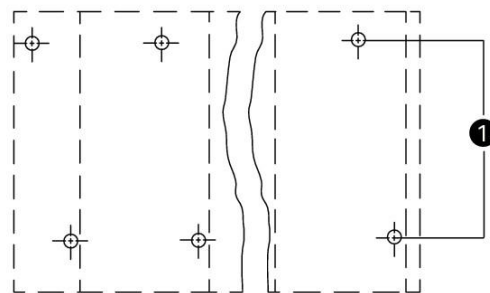
[BOMcheck.net](https://www.bomcheck.net)

Color:

**Current-Carrying Capacity Curve**  
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 1



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



(1) Solder pin staggered by half a pin spacing

### Item description



- PCB terminal strips with screwdriver-actuated CAGE CLAMP®
- High-density, double-deck design for space-efficient wiring of multiple conductors in confined areas
- Custom marking for all termination levels

## Data

### Electrical data

#### Ratings per IEC/EN 60664-1

| Ratings note                      | Between the modules |
|-----------------------------------|---------------------|
| Rated voltage (III / 3)           | 630 V               |
| Rated impulse voltage (III / 3)   | 8 kV                |
| Rated voltage (III / 2)           | 1000 V              |
| Rated impulse voltage (III / 2)   | 8 kV                |
| Rated voltage (II / 2)            | 1000 V              |
| Rated impulse voltage (II / 2)    | 8 kV                |
| Rated current                     | 21 A                |
| Ratings according to 2            | IEC/EN 60664-1      |
| Ratings note 2                    | Between the decks   |
| Rated voltage (III / 3) 2         | 320 V               |
| Rated impulse voltage (III / 3) 2 | 4 kV                |
| Rated voltage (III / 2) 2         | 320 V               |
| Rated impulse voltage (III / 2) 2 | 4 kV                |
| Rated voltage (II / 2) 2          | 630 V               |
| Rated impulse voltage (II / 2) 2  | 4 kV                |
| Rated current (2)                 | 21 A                |

#### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 10 A  |
| Rated voltage UL (Use Group D) | 300 V |

#### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

### Connection data

|                       |             |
|-----------------------|-------------|
| Connection technology | CAGE CLAMP® |
|-----------------------|-------------|



| Actuation type                                              | Operating tool                       |
|-------------------------------------------------------------|--------------------------------------|
| Solid conductor                                             | 0.08 2.5 mm <sup>2</sup> / 28 12 AWG |
| Fine-stranded conductor                                     | 0.08 2.5 mm <sup>2</sup> / 28 12 AWG |
| Fine-stranded conductor with ferrule with plastic collar    | 0.25 1.5 mm <sup>2</sup>             |
| Fine-stranded conductor with ferrule without plastic collar | 0.25 2.5 mm <sup>2</sup>             |
| Strip length                                                | 5 6 mm / 0.2 0.24 inch               |
| Conductor entry angle to the PCB                            | 45°                                  |
| Note (conductor cross-section)                              | 12 AWG: THHN, THWN                   |
| Total number of connection points                           | 8                                    |
| Total number of potentials                                  | 8                                    |
| Number of connection types                                  | 1                                    |
| Number of levels                                            | 2                                    |
| No. of poles                                                | 4                                    |

## Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 10 mm / 0.394 inch             |
| Width                             | 36 mm / 1.417 inch             |
| Height                            | 30.5 mm / 1.201 inch           |
| Height from the surface           | 26.5 mm / 1.043 inch           |
| Depth                             | 21 mm / 0.827 inch             |
| Solder pin length                 | 4 mm                           |
| Solder pin dimensions             | 0.7 x 0.7 mm                   |
| Drilled hole diameter (tolerance) | 1.3 <sup>(- ... +0.1)</sup> mm |

## PCB contact

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| PCB contact                         | THT                                  |
| Solder pin arrangement              | within the terminal block, staggered |
| Number of solder pins per potential | 1                                    |

## Material Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | gray                                   |
| Material group              | I                                      |
| Insulating material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Chrome nickel spring steel (CrNi)      |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.215 MJ                               |
| Weight                      | 11.728 g                               |

## Environmental Requirements

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

## Commercial data

|                    |                     |
|--------------------|---------------------|
| Product Group      | 4 (Printed Circuit) |
| Country of origin  | PL                  |
| GTIN               | 4044918911153       |
| Customs Tariff No. | 85369010000         |

## Approvals / Certificates

### Radio-Approvals

| Logo                                                                               | Approval                        | Additional Approval Text | 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-7307      |
|  | CSA<br>DEKRA Certification B.V. | C22.2 No. 158            | 70049157         |

### Country specific Approvals

| Logo                                                                               | Approval                           | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|------------------------------------|--------------------------|------------------|
|  | ABS<br>American Bureau of Shipping | -                        | 14-HG1241537-PDA |
|  | CCA<br>DEKRA Certification B.V.    | EN 60947                 | 2160584.37       |
|  | CCA<br>DEKRA Certification B.V.    | EN 60947                 | NTR NL-7143      |



CCA  
DEKRA Certification B.V.

IEC 60947-7-4

NTR NL-  
7307



CSA  
DEKRA Certification B.V.

C22.2 No. 158

70049157



DNV GL  
Det Norske Veritas, Germanischer Lloyd

-

TAE000016Z

## Ship Approvals

| Logo                                                                              | Approval                                         | Additional Approval Text | Certificate name         |
|-----------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|--------------------------|
|   | ABS<br>American Bureau of Shipping               | -                        | 14-<br>HG1241537-<br>PDA |
|  | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE000016Z               |

## UL-Approvals

| Logo                                                                               | Approval                             | Additional Approval Text | Certificate name  |
|------------------------------------------------------------------------------------|--------------------------------------|--------------------------|-------------------|
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172,<br>sec. 6 |

## Compatible products

### Marking accessories

|                                                                                                                                                                                          |                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <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  | 210-332<br>/ 1000-202 |
| <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 | 210-332<br>/ 1000-204 |
| <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 | 210-332<br>/ 1000-206 |

| ferrule                                                                            |                                                                                                                                                                                        |         |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|    | <b>Item no.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated                                                                          | 216-101 |
|    | <b>Item no.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated                                                                         | 216-102 |
|    | <b>Item no.: 216-103</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated                                                                            | 216-103 |
|    | <b>Item no.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated                                                                          | 216-104 |
|    | <b>Item no.: 216-106</b><br>Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; uninsulated; electro-tin plated                                                                          | 216-106 |
|    | <b>Item no.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated                                                                          | 216-121 |
|    | <b>Item no.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated                                                                         | 216-122 |
|    | <b>Item no.: 216-123</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated                                                                            | 216-123 |
|   | <b>Item no.: 216-124</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated                                                                          | 216-124 |
|  | <b>Item no.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                         | 216-131 |
|  | <b>Item no.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                         | 216-132 |
|  | <b>Item no.: 216-141</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92  | 216-141 |
|  | <b>Item no.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 | 216-142 |
|  | <b>Item no.: 216-143</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92    | 216-143 |
|  | <b>Item no.: 216-144</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92  | 216-144 |
|  | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                         | 216-151 |
|  | <b>Item no.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                         | 216-152 |
|  | <b>Item no.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                     | 216-201 |
|  | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                     | 216-202 |

|                                                                                   |                                                                                                                                                                                            |         |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|    | <b>Item no.: 216-203</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                                                                             | 216-203 |
|    | <b>Item no.: 216-204</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black                                                                         | 216-204 |
|    | <b>Item no.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                         | 216-221 |
|    | <b>Item no.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                         | 216-222 |
|    | <b>Item no.: 216-223</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                                                                             | 216-223 |
|    | <b>Item no.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black                                                                         | 216-224 |
|    | <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 | 216-241 |
|    | <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 | 216-242 |
|   | <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     | 216-243 |
|  | <b>Item no.: 216-244</b><br>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 | 216-244 |
|  | <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 | 216-262 |
|  | <b>Item no.: 216-263</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     | 216-263 |
|  | <b>Item no.: 216-264</b><br>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 | 216-264 |
|  | <b>Item no.: 216-284</b><br>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 | 216-284 |
|                                                                                   | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow                                                                       | 216-301 |
|  | <b>Item no.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green                                                                        | 216-302 |
|                                                                                   | <b>Item no.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow                                                                       | 216-321 |
|  | <b>Item no.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green                                                                        | 216-322 |

tools



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

Downloads

Documentation

|                               |             |               |          |  |
|-------------------------------|-------------|---------------|----------|--|
| <b>Additional Information</b> |             |               |          |  |
| Technical explanations        | Apr 3, 2019 | pdf<br>3.6 MB | Download |  |

CAD/CAE - Smart Data

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| <b>CAD data</b>     |  |  |     |          |
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Subject to changes.