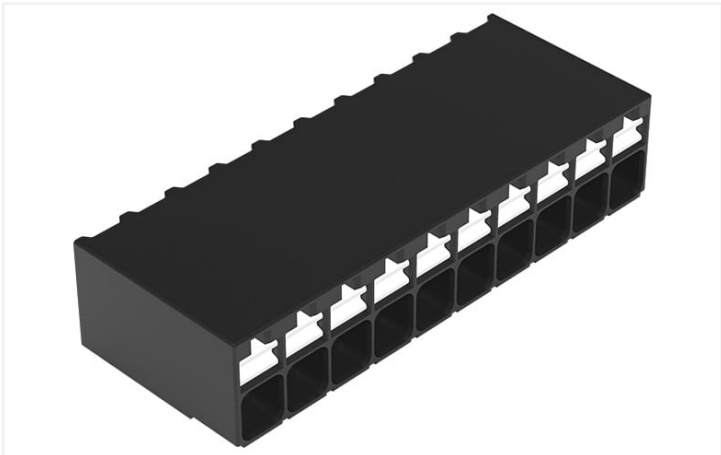
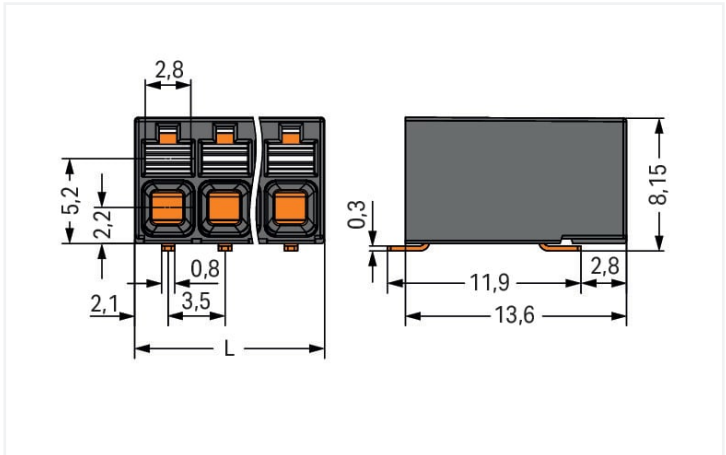
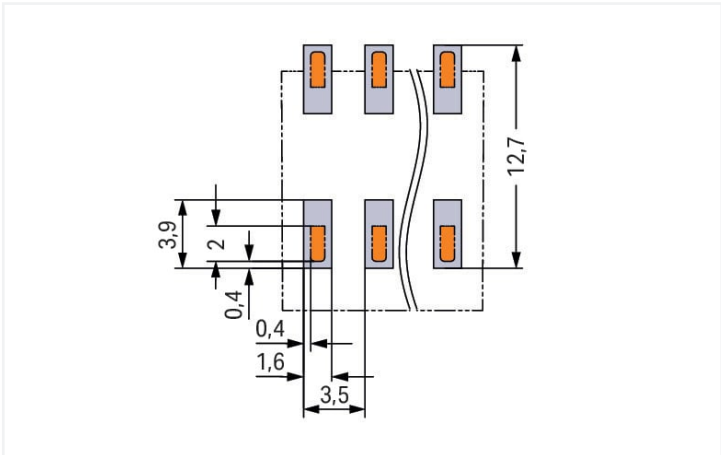




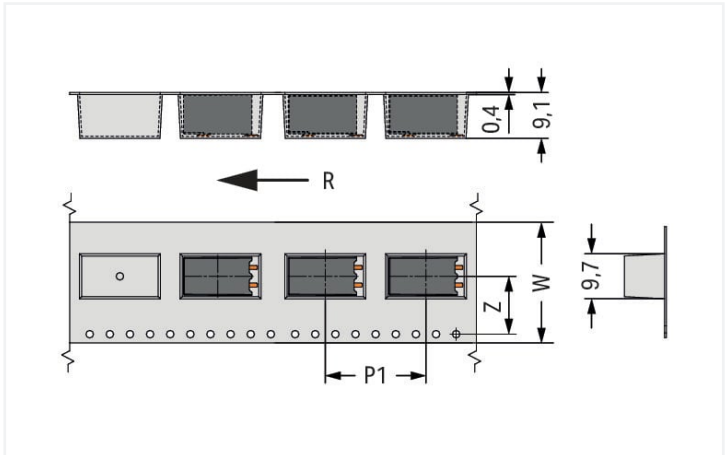
Color: ■ black



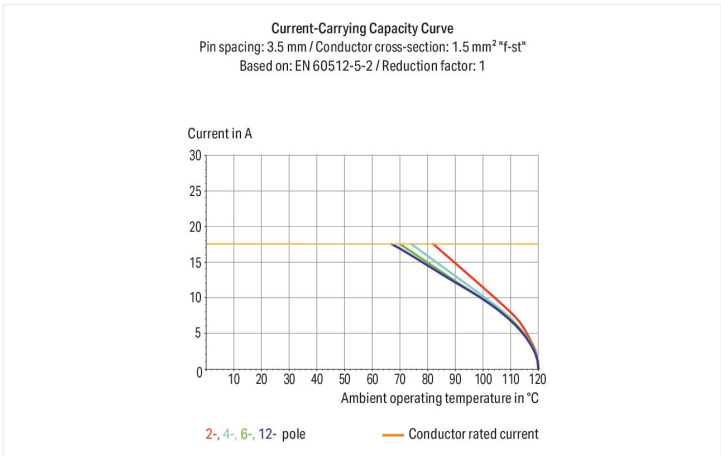
Dimensions in mm  
L = (pole no. – 1) x pin spacing + 4.2 mm



Dimensions in mm



Dimensions in mm  
W= Tape width  
R = Feed direction  
Pole no. 2: Z = 11.5 mm  
Pole no. 3: Z = 10.7 mm  
Pole no. 4: Z = 12.5 mm  
Pole no. 5: Z = 14.2 mm  
Pole no. 6; 8; 10; 12: Z = 26.2 mm  
Pole no. 7; 9; 11: Z = 24.5 mm





- Ideal for compact device connection, panel feedthrough and tight spaces
- Push-in CAGE CLAMP® termination of solid and ferruled fine-stranded conductors
- SMD and THR variants available
- Delivery in tape-and-reel packaging for full integration into SMT soldering process
- Push-button moves in direction of conductor connection
- Conductor connection and mating direction parallel or perpendicular to the PCB

Electrical data

| Ratings per IEC/EN 60664-1 |        |        |        | Approvals per UL 1059 |       |   |       |
|----------------------------|--------|--------|--------|-----------------------|-------|---|-------|
| Overvoltage category       | III    | III    | II     | Use group             | B     | C | D     |
| Pollution degree           | 3      | 2      | 2      | Rated voltage         | 300 V | - | 300 V |
| Nominal voltage            | 160 V  | 160 V  | 320 V  | Rated current         | 14 A  | - | 10 A  |
| Rated surge voltage        | 2.5 kV | 2.5 kV | 2.5 kV |                       |       |   |       |
| Rated current              | 17.5 A | 17.5 A | 17.5 A |                       |       |   |       |

| Approvals per CSA |       |   |       |
|-------------------|-------|---|-------|
| Use group         | B     | C | D     |
| Rated voltage     | 300 V | - | 300 V |
| Rated current     | 14 A  | - | 14 A  |

Connection data

|                            |    |                                                   |                                   |
|----------------------------|----|---------------------------------------------------|-----------------------------------|
| Total number of potentials | 10 | Connection 1                                      |                                   |
| Number of connection types | 1  | Connection technology                             | Push-in CAGE CLAMP®               |
| Number of levels           | 1  | Actuation type                                    | Push-button                       |
|                            |    | Solid conductor                                   | 0.14 ... 1.5 mm² / 28 ... 16 AWG  |
|                            |    | Fine-stranded conductor                           | 0.14 ... 1.5 mm² / 26 ... 14 AWG  |
|                            |    | Fine-stranded conductor; with insulated ferrule   | 0.25 ... 0.75 mm²                 |
|                            |    | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm²                  |
|                            |    | Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches |
|                            |    | Conductor connection direction to PCB             | 0 °                               |
|                            |    | Pole number                                       | 10                                |

Physical data

|                                          |                        |
|------------------------------------------|------------------------|
| Pin spacing                              | 3.5 mm / 0.138 inches  |
| Width                                    | 35.7 mm / 1.406 inches |
| Height                                   | 8.15 mm / 0.321 inches |
| Depth                                    | 13.6 mm / 0.535 inches |
| Reel diameter of tape-and-reel packaging | 380 mm                 |
| Tape width                               | 56 mm                  |

PCB contact

|                                     |                                          |
|-------------------------------------|------------------------------------------|
| PCB contact                         | SMD                                      |
| Solder pin arrangement              | over the entire terminal strip (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                       |  | black                                                                    |
| Material group              |  | I                                                                        |
| Insulation material         |  | Polyphthalamide (PPA GF)                                                 |
| 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                   |  | 0.102 MJ                                                                 |
| Weight                      |  | 6 g                                                                      |
| MSL per J-STD 020D          |  | 1                                                                        |

| Environmental requirements       |  |                 |
|----------------------------------|--|-----------------|
| Limit temperature range          |  | -60 ... +105 °C |
| Processing temperature           |  | -35 ... +60 °C  |
| Continuous operating temperature |  | -60 ... +105 °C |

| Commercial data       |  |                |
|-----------------------|--|----------------|
| ETIM 8.0              |  | EC002643       |
| ETIM 7.0              |  | EC002643       |
| PU (SPU)              |  | 2060 (515) pcs |
| Packaging type        |  | Box            |
| Country of origin     |  | CH             |
| GTIN                  |  | 4066966159981  |
| Customs tariff number |  | 85369010000    |

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

Approvals / Certificates

General approvals



| Approval                              | Standard      | Certificate Name |
|---------------------------------------|---------------|------------------|
| CB<br>DEKRA Certification B.V.        | IEC 60947-7-4 | NL-74022         |
| CSA<br>CSA Group                      | C22.2         | 80060692         |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947-7-4  | 71-119449        |
| UL<br>Underwriters Laboratories Inc.  | UL 1059       | E45172           |



Downloads

Environmental Product Compliance

Compliance Search

↓

Documentation

Additional Information

|                   |            |                   |   |
|-------------------|------------|-------------------|---|
| Technical Section | 03.04.2019 | pdf<br>2027.26 KB | ↓ |
|-------------------|------------|-------------------|---|

CAD/CAE-Data

CAD data

↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

|                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow                                                                   | <br><b>Item No.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; un-insulated; electro-tin plated                                                                                        | <br><b>Item No.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; un-insulated; electro-tin plated; silver-colored                                                            | <br><b>Item No.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise                                                              |
| <br><b>Item No.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm² / AWG 24; un-insulated; electro-tin plated                                                                        | <br><b>Item No.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm² / AWG 24; un-insulated; electro-tin plated                                                                                        | <br><b>Item No.: 216-241</b><br>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 | <br><b>Item No.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white                                                                         |
| <br><b>Item No.: 216-141</b><br>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 | <br><b>Item No.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored                                                                         | <br><b>Item No.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored                                                             | <br><b>Item No.: 216-242</b><br>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 |
| <br><b>Item No.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray                                                                     | <br><b>Item No.: 216-142</b><br>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                | <br><b>Item No.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored                                                            | <br><b>Item No.: 216-103</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated                                                                               |
| <br><b>Item No.: 216-143</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92   | <br><b>Item No.: 216-144</b><br>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 | <br><b>Item No.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored                                                             |                                                                                                                                                                                                                                                                         |



1.1.2 Test and measurement

1.1.2.1 Testing accessories



**Item No.: 859-500**  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm²



**Item No.: 735-500**  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

1.1.3 Tool

1.1.3.1 Operating tool



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

Installation Notes

Conductor termination



Inserting solid conductor via push-in termination.

Conductor termination



Inserting and removing fine-stranded conductors via push-buttons.

Conductor removal



Removing a conductor via push-button.

## Testing



Testing via 1 mm Ø test pin.  
Touch contact with current bar

## Marking



Pole marking via direct marking perpendicular to conductor entry.