

## Data Sheet | Item Number: 2716-158

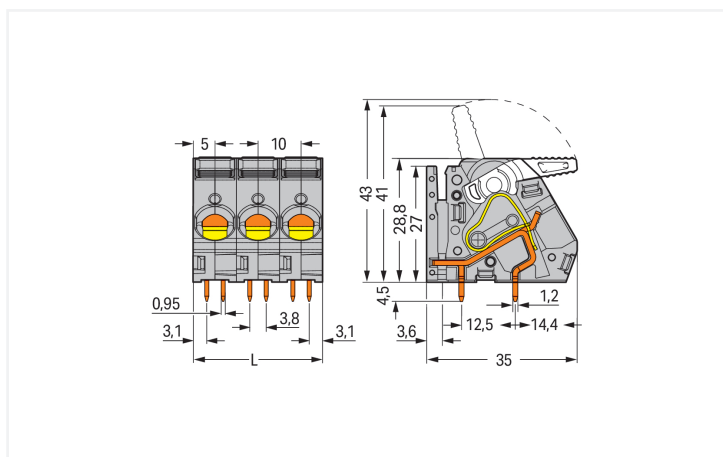
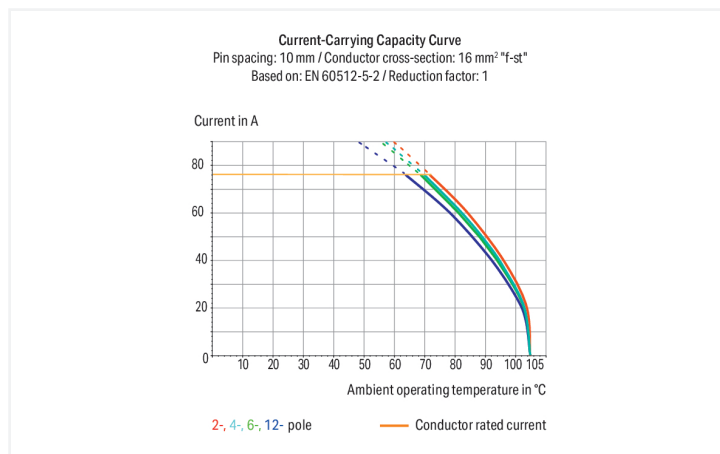
PCB terminal block; lever; 16 mm<sup>2</sup>; Pin spacing 10 mm; 8-pole; CAGE CLAMP®; commoning option; gray

<https://www.wago.com/2716-158>



Color: ■ gray

Similar to illustration



Dimensions in mm

L = pole no. x pin spacing

### PCB terminal block, 2716 Series, lever

This PCB terminal block (item number 2716-158) is designed for simple and secure connections. It offers the flexibility needed for different mounting types. Conductors can only be connected to this PCB terminal block if their strip length is between 12 and 13 mm. Featuring one conductor terminal along with CAGE CLAMP®, this connector outperforms the competition. Our tried-and-tested universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. Dimensions: (80 x 33.3 x 35) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is suitable for conductor cross sections ranging from 1.5 mm<sup>2</sup> to 16 mm<sup>2</sup>.

The contact surface is coated with tin. A lever is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted at an angle of 30°.



| 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 per                     |  | IEC/EN 60664-1 |       |       |
| Overvoltage category            |  | III            | III   | II    |
| Pollution degree                |  | 3              | 2     | 2     |
| Nominal voltage                 |  | 320 V          | 320 V | 630 V |
| Rated impulse withstand voltage |  | 4 kV           | 4 kV  | 4 kV  |
| Rated current                   |  | 76 A           | 76 A  | 76 A  |

| Approvals per |  | UL 1059 |       |       |
|---------------|--|---------|-------|-------|
| Use group     |  | B       | C     | D     |
| Rated voltage |  | 300 V   | 150 V | 300 V |
| Rated current |  | 55 A    | 55 A  | 10 A  |

| Connection Data            |   |
|----------------------------|---|
| Clamping units             | 8 |
| Total number of potentials | 8 |
| Number of connection types | 1 |
| Number of levels           | 1 |
| Number of jumper slots     | 1 |

| Connection 1                                      |                                     |
|---------------------------------------------------|-------------------------------------|
| Connection technology                             | CAGE CLAMP®                         |
| Actuation type                                    | Lever                               |
| Solid conductor                                   | 1.5 ... 16 mm² / 16 ... 6 AWG       |
| Fine-stranded conductor                           | 1.5 ... 16 mm² / 16 ... 6 AWG       |
| Fine-stranded conductor; with insulated ferrule   | 1.5 ... 10 mm²                      |
| Fine-stranded conductor; with uninsulated ferrule | 1.5 ... 10 mm²                      |
| Strip length                                      | 12 ... 13 mm / 0.47 ... 0.51 inches |
| Conductor connection direction to PCB             | 30 °                                |
| Pole number                                       | 8                                   |

| Physical data           |                        |
|-------------------------|------------------------|
| Pin spacing             | 10 mm / 0.394 inches   |
| Width                   | 80 mm / 3.15 inches    |
| Height                  | 33.3 mm / 1.311 inches |
| Height from the surface | 28.8 mm / 1.134 inches |
| Depth                   | 35 mm / 1.378 inches   |
| Solder pin length       | 4.5 mm                 |
| Solder pin dimensions   | 0.95 x 1.2 mm          |
| !                       | 1.6 (+0.1) mm          |

| PCB contact                         |                                          |
|-------------------------------------|------------------------------------------|
| PCB contact                         | THT                                      |
| Solder pin arrangement              | over the entire terminal strip (in-line) |
| Number of solder pins per potential | 4                                        |



| 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                          |  | 1.518 MJ                                                                 |
| Weight                             |  | 83.8 g                                                                   |

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

| Commercial data       |  |                                |
|-----------------------|--|--------------------------------|
| Product Group         |  | 4 (Printed Circuit Connectors) |
| PU (SPU)              |  | 12 pcs                         |
| Packaging type        |  | Box                            |
| Country of origin     |  | PL                             |
| GTIN                  |  | 4045454739409                  |
| 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



| Approval                                | Standard | Certificate Name |
|-----------------------------------------|----------|------------------|
| CCA<br>DEKRA Certification B.V.         | EN 60947 | NTR NL-7131      |
| cURus<br>Underwriters Laboratories Inc. | UL 1059  | E45172           |
| KEMA/KEUR<br>DEKRA Certification B.V.   | EN 60947 | 71-117512        |



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2716-158

Documentation

Additional Information

Technical Section03.04.2019pdf2027.26 KB

CAD/CAE-Data

CAD data

2D/3D Models2716-158

CAE data

ZUKEN Portal2716-158

PCB Design

Symbol and Footprint via SamacSys2716-158

Symbol and Footprint via Ultra Librarian2716-158

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule



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.: 216-289  
Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-209  
Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; red



Item No.: 216-109  
Ferrule; Sleeve for 10 mm² / AWG 8; un-insulated; electro-tin plated



Item No.: 216-266  
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-286  
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-267  
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-287  
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-208  
Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow



Item No.: 216-288  
Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow



Item No.: 216-108  
Ferrule; Sleeve for 6 mm² / AWG 10; un-insulated; electro-tin plated; silver-colored

1.1.2 Jumper

1.1.2.1 Jumper



Item No.: 745-582  
Jumper; 2-way; silver-colored



Item No.: 745-682  
Jumper; 2-way; unplated; silver-colored



Item No.: 745-583  
Jumper; 3-way; silver-colored



Item No.: 745-584  
Jumper; 4-way; unplated; silver-colored



Item No.: 745-585  
Jumper; 5-way; unplated; silver-colored

1.1.3 Test and measurement

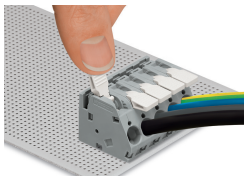
1.1.3.1 Testing accessories



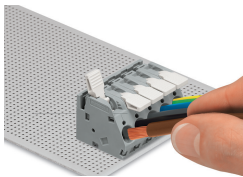
Item No.: 210-136  
Test plug; 2 mm Ø; with 500 mm cable; red

Installation Notes

Conductor termination

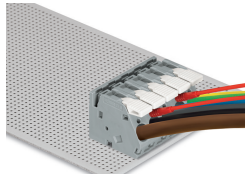


To open the clamping unit, pull the operating lever all the way back — 2706 and 2716 Series.



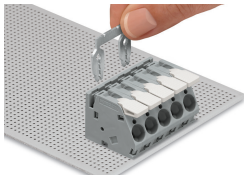
Inserting/removing a conductor – 2706 and 2716 Series.

Testing

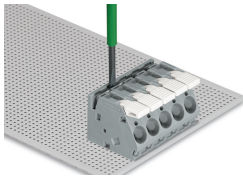


Testing with test plug – 2706 and 2716 Series.

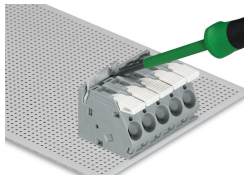
Commoning



Inserting a comb-style jumper bar.



Push jumper bar down firmly using a screwdriver until it hits the backstop – 2706 and 2716 Series.



To remove the comb-style jumper bar, lift it up using a screwdriver – 2706 and 2716 Series.