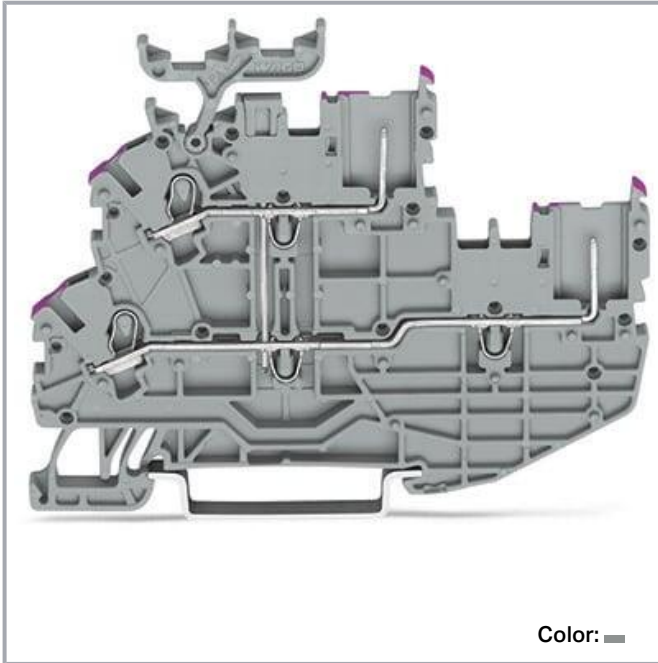


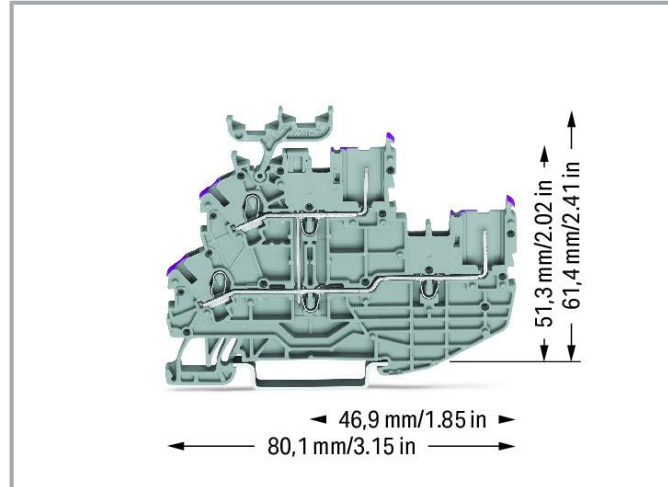
## Data sheet | Item number: 2020-2238

2-conductor/2-pin double-deck carrier terminal; 2-conductor/2-pin through terminal block; L; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; gray

[www.wago.com/2020-2238](http://www.wago.com/2020-2238)



Color: ■



## Data

### Electrical data

### Ratings per IEC/EN

|                               |   |
|-------------------------------|---|
| Ratings per                   | IEC/EN 60947-7-1  |
| Nominal voltage (III/3)       | 500 V   |
| Rated impulse voltage (III/3) | 6 kV  |
| Rated current                 | 13.5 A  |
| Legend (ratings)              | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

### Ratings per UL 1059

|                                |         |
|--------------------------------|---------|
| Approvals per                  | UL 1059 |
| Rated voltage UL (Use Group B) | 300 V   |
| Rated current UL (Use Group B) | 15 A    |
| Rated voltage UL (Use Group C) | 300 V   |

Subject to changes. Please also observe the further product documentation!

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|                                |       |
|--------------------------------|-------|
| Rated current UL (Use Group C) | 15 A  |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 15 A  |

### Ratings per CSA

|                                 |                 |
|---------------------------------|-----------------|
| Approvals per                   | CSA 22.2 No 158 |
| Rated voltage CSA (Use Group B) | 300 V           |
| Rated current CSA (Use Group B) | 10 A            |
| Rated voltage CSA (Use Group C) | 300 V           |
| Rated current CSA (Use Group C) | 10 A            |

### Power loss

|  |                |
|--|----------------|
| Power loss, per pole (potential)                             | 0.434 W        |
| Rated current $I_N$ for specified power loss                 | 13.5 A         |
| Resistance value for specified, current-dependent power loss | 0.002 $\Omega$ |

### Connection data

|                              |   |
|------------------------------|---|
| Connection points            | 2 |
| Female plug slots            | 2 |
| Total number of potentials   | 1 |
| Number of levels             | 2 |
| Number of jumper slots       | 3 |
| Anzahl Brückeraufnahmen Rang | 2 |

### Connection 1

|  |   |
|--|---|
| Connection technology                                      | Push-in CAGE CLAMP®   |
| Actuation type   | Operating tool  |
| Connectable conductor materials                            | Copper  |
| Nominal cross-section                                      | 1 mm <sup>2</sup>   |
| Solid conductor  | 0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG  |
| Solid conductor; push-in termination                       | 0.5 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG   |
| Fine-stranded conductor                                    | 0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG  |
| Fine-stranded conductor; with insulated ferrule            | 0.14 ... 0.75 mm <sup>2</sup> / 24 ... 18 AWG   |
| Fine-stranded conductor; with ferrule; push-in termination | 0.5 ... 0.75 mm <sup>2</sup> / 20 ... 18 AWG  |
| Note (conductor cross-section)                             | Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination. |

Subject to changes. Please also observe the further product documentation!



|                  |                                    |
|------------------|------------------------------------|
| Strip length     | 9 ... 11 mm / 0.35 ... 0.43 inches |
| Wiring direction | Front-entry wiring                 |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| Width                             | 3.5 mm / 0.138 inches  |
| Height                            | 80.1 mm / 3.154 inches |
| Depth from upper-edge of DIN-rail | 61.4 mm / 2.417 inches |

### Mechanical Data

|                   |                 |
|-------------------|-----------------|
| Potential marking | L               |
| Design            | horizontal type |
| Mounting type     | DIN-35 rail     |
| Marking level     | Side marking    |

### Material Data

|                             |  |
|-----------------------------|--|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | gray   |
| Material group              | I  |
| Insulation material         | Polyamide (PA66)   |
| Flammability class per UL94 | V0   |
| Fire load                   | 0.238 MJ   |
| Weight                      | 10.1 g   |

### Environmental requirements

|                                  |                 |
|----------------------------------|-----------------|
| Processing temperature           | -35 ... +85 °C  |
| Continuous operating temperature | -60 ... +105 °C |

### Commercial data

|                |                   |
|----------------|-------------------|
| Product Group  | 18 (X-COM-System) |
| eCl@ss 10.0    | 27-14-11-20       |
| eCl@ss 9.0     | 27-14-11-20       |
| ETIM 8.0       | EC000897          |
| ETIM 7.0       | EC000897          |
| PU (SPU)       | 50 pcs            |
| Packaging type | Box               |

Subject to changes. Please also observe the further product documentation!





|                       |               |
|-----------------------|---------------|
| Country of origin     | DE            |
| GTIN                  | 4050821049616 |
| Customs tariff number | 85366990990   |

## Environmental Product Compliance



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

## Approvals / Certificates

### General approvals

| Logo   | Approval                              | Additional Approval Text | Certificate name |
|--|---------------------------------------|--------------------------|------------------|
|    | CCA<br>DEKRA Certification B.V.       | EN 60947                 | NTR NL<br>7617   |
|    | CSA<br>DEKRA Certification B.V.       | C22.2                    | 2516073          |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947                 | 71-<br>100670    |
|  | UL<br>UL International Germany GmbH   | UL 1059                  | E 45172          |

### Declarations of conformity and manufacturer's declarations

| Logo   | Approval   | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                        | -                |
|  | UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                        | -                |




### Approvals for marine applications

Certificate



Subject to changes. Please also observe the further product documentation!

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| Logo  | Approval  | Additional Approval Text | name                     |
|---|---|--------------------------|--------------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | EN 60947                 | 20-<br>HG1941090-<br>PDA |
|  | <b>BV</b><br>Bureau Veritas S.A.                        | EN 60947                 | 38586/B0 BV              |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001V2               |



## Counterpart

|   |  |  |
|---|--|--|
|  | <b>Item no.2020-102</b><br>1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 2-pole; 1,50 mm <sup>2</sup> ;<br>gray | <a href="http://www.wago.com/2020-102">www.wago.com/2020-102</a> |
|  | <b>Item no.2020-202</b><br>2-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 2-pole; 1,50 mm <sup>2</sup> ;<br>gray | <a href="http://www.wago.com/2020-202">www.wago.com/2020-202</a> |

## Required accessories

### End plate


#### End plate

|  |  |  |
|--|--|--|
|  | <b>Item no.: 2020-2291</b><br>End and intermediate plate; 1 mm thick; gray   | <a href="http://www.wago.com/2020-2291">www.wago.com/2020-2291</a> |
|  | <b>Item no.: 2020-2292</b><br>End and intermediate plate; 1 mm thick; orange | <a href="http://www.wago.com/2020-2292">www.wago.com/2020-2292</a> |








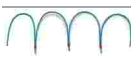




## Optional accessories

### Marking accessories















#### Marking strip

|  |  |  |
|--|--|--|
|  | <b>Item no.: 2009-110</b><br>Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white | <a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a> |
| <b>Marker</b>  |  |  |

Subject to changes. Please also observe the further product documentation!

|  |  |  |
|--|--|--|
|   | <b>Item no.: 2009-113</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white  | <a href="http://www.wago.com/2009-113">www.wago.com/2009-113</a>                 |
|    | <b>Item no.: 793-3501</b><br>WMB marking card; as card; plain; snap-on type; white   | <a href="http://www.wago.com/793-3501">www.wago.com/793-3501</a>                 |
| <b>Tool</b>  |  |  |
| Operating tool   |  |  |
|    | <b>Item no.: 210-648</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short                                     | <a href="http://www.wago.com/210-648">www.wago.com/210-648</a>                   |
|    | <b>Item no.: 210-647</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured                                     | <a href="http://www.wago.com/210-647">www.wago.com/210-647</a>                   |
|    | <b>Item no.: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft  | <a href="http://www.wago.com/210-719">www.wago.com/210-719</a>                   |
| <b>Coding</b>  |  |  |
| Coding   |  |  |
|    | <b>Item no.: 2020-100</b><br>Carrier with 6 coding pins; for coding of female plugs; for carrier terminal blocks; orange                             | <a href="http://www.wago.com/2020-100">www.wago.com/2020-100</a>                 |
| <b>Testing and measuring</b>   |  |  |
| Testing accessories  |  |  |
|  | <b>Item no.: 859-500</b><br>WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm <sup>2</sup> | <a href="http://www.wago.com/859-500">www.wago.com/859-500</a>                   |
| <b>Jumpers</b>   |  |  |
| Jumper   |  |  |
|  | <b>Item no.: 210-123</b><br>Wire commoning chain; insulated; blue  | <a href="http://www.wago.com/210-123">www.wago.com/210-123</a>                   |
|  | <b>Item no.: 2000-408</b><br>Jumper; 8-way; insulated; light gray  | <a href="http://www.wago.com/2000-408">www.wago.com/2000-408</a>                 |
|  | <b>Item no.: 2000-407</b><br>Jumper; 7-way; insulated; light gray  | <a href="http://www.wago.com/2000-407">www.wago.com/2000-407</a>                 |
|  | <b>Item no.: 2000-409</b><br>Jumper; 9-way; insulated; light gray  | <a href="http://www.wago.com/2000-409">www.wago.com/2000-409</a>                 |
|  | <b>Item no.: 2000-408/000-006</b><br>Jumper; 8-way; insulated; blue  | <a href="http://www.wago.com/2000-408/000-006">www.wago.com/2000-408/000-006</a> |

Subject to changes. Please also observe the further product documentation!














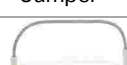
|  |   |  |
|--|---|--|
|    | <b>Item no.:</b> 2000-408/000-005<br>Jumper; 8-way; insulated; red        | <a href="http://www.wago.com/2000-408/000-005">www.wago.com/2000-408/000-005</a> |
|    | <b>Item no.:</b> 2000-409/000-005<br>Jumper; 9-way; insulated; red        | <a href="http://www.wago.com/2000-409/000-005">www.wago.com/2000-409/000-005</a> |
|    | <b>Item no.:</b> 2000-407/000-006<br>Jumper; 7-way; insulated; blue       | <a href="http://www.wago.com/2000-407/000-006">www.wago.com/2000-407/000-006</a> |
|     | <b>Item no.:</b> 2000-410<br>Jumper; 10-way; insulated; light gray        | <a href="http://www.wago.com/2000-410">www.wago.com/2000-410</a>                 |
|    | <b>Item no.:</b> 2000-410/000-006<br>Jumper; 10-way; insulated; blue      | <a href="http://www.wago.com/2000-410/000-006">www.wago.com/2000-410/000-006</a> |
|     | <b>Item no.:</b> 2000-433/000-005<br>Jumper; from 1 to 3; insulated; red  | <a href="http://www.wago.com/2000-433/000-005">www.wago.com/2000-433/000-005</a> |
|   | <b>Item no.:</b> 2000-407/000-005<br>Jumper; 7-way; insulated; red        | <a href="http://www.wago.com/2000-407/000-005">www.wago.com/2000-407/000-005</a> |
|   | <b>Item no.:</b> 2000-433/000-006<br>Jumper; from 1 to 3; insulated; blue | <a href="http://www.wago.com/2000-433/000-006">www.wago.com/2000-433/000-006</a> |
|  | <b>Item no.:</b> 2000-410/000-005<br>Jumper; 10-way; insulated; red       | <a href="http://www.wago.com/2000-410/000-005">www.wago.com/2000-410/000-005</a> |
|   | <b>Item no.:</b> 2000-435<br>Jumper; from 1 to 5; insulated; light gray   | <a href="http://www.wago.com/2000-435">www.wago.com/2000-435</a>                 |
|  | <b>Item no.:</b> 2000-409/000-006<br>Jumper; 9-way; insulated; blue       | <a href="http://www.wago.com/2000-409/000-006">www.wago.com/2000-409/000-006</a> |
|   | <b>Item no.:</b> 2000-436<br>Jumper; from 1 to 6; insulated; light gray   | <a href="http://www.wago.com/2000-436">www.wago.com/2000-436</a>                 |
|   | <b>Item no.:</b> 2000-433<br>Jumper; from 1 to 3; insulated; light gray   | <a href="http://www.wago.com/2000-433">www.wago.com/2000-433</a>                 |
|   | <b>Item no.:</b> 2000-434<br>Jumper; from 1 to 4; insulated; light gray   | <a href="http://www.wago.com/2000-434">www.wago.com/2000-434</a>                 |

Subject to changes. Please also observe the further product documentation!

|  |  |  |
|--|--|--|
|    | <b>Item no.: 2000-402</b><br>Jumper; 2-way; insulated; light gray                    | <a href="http://www.wago.com/2000-402">www.wago.com/2000-402</a>                 |
|    | <b>Item no.: 2000-402/000-006</b><br>Jumper; 2-way; insulated; blue                  | <a href="http://www.wago.com/2000-402/000-006">www.wago.com/2000-402/000-006</a> |
|    | <b>Item no.: 2000-403</b><br>Jumper; 3-way; insulated; light gray                    | <a href="http://www.wago.com/2000-403">www.wago.com/2000-403</a>                 |
|    | <b>Item no.: 2000-402/000-005</b><br>Jumper; 2-way; insulated; red                   | <a href="http://www.wago.com/2000-402/000-005">www.wago.com/2000-402/000-005</a> |
|    | <b>Item no.: 2000-402/000-018</b><br>Jumper; 2-way; insulated; yellow-green          | <a href="http://www.wago.com/2000-402/000-018">www.wago.com/2000-402/000-018</a> |
|    | <b>Item no.: 2000-404</b><br>Jumper; 4-way; insulated; light gray                    | <a href="http://www.wago.com/2000-404">www.wago.com/2000-404</a>                 |
|    | <b>Item no.: 2000-403/000-005</b><br>Jumper; 3-way; insulated; red                   | <a href="http://www.wago.com/2000-403/000-005">www.wago.com/2000-403/000-005</a> |
|    | <b>Item no.: 2000-404/000-006</b><br>Jumper; 4-way; insulated; blue                  | <a href="http://www.wago.com/2000-404/000-006">www.wago.com/2000-404/000-006</a> |
|  | <b>Item no.: 2000-403/000-006</b><br>Jumper; 3-way; insulated; blue                  | <a href="http://www.wago.com/2000-403/000-006">www.wago.com/2000-403/000-006</a> |
|  | <b>Item no.: 2000-404/000-005</b><br>Jumper; 4-way; insulated; red                   | <a href="http://www.wago.com/2000-404/000-005">www.wago.com/2000-404/000-005</a> |
|  | <b>Item no.: 2000-405</b><br>Jumper; 5-way; insulated; light gray                    | <a href="http://www.wago.com/2000-405">www.wago.com/2000-405</a>                 |
|  | <b>Item no.: 2000-405/011-000</b><br>Star point jumper; 3-way; insulated; light gray | <a href="http://www.wago.com/2000-405/011-000">www.wago.com/2000-405/011-000</a> |
|  | <b>Item no.: 2000-405/000-006</b><br>Jumper; 5-way; insulated; blue                  | <a href="http://www.wago.com/2000-405/000-006">www.wago.com/2000-405/000-006</a> |
|  | <b>Item no.: 2000-406/000-006</b><br>Jumper; 6-way; insulated; blue                  | <a href="http://www.wago.com/2000-406/000-006">www.wago.com/2000-406/000-006</a> |

Subject to changes. Please also observe the further product documentation!



|  |  |  |
|--|--|--|
|    | <b>Item no.: 2000-405/000-005</b><br>Jumper; 5-way; insulated; red   | <a href="http://www.wago.com/2000-405/000-005">www.wago.com/2000-405/000-005</a> |
|     | <b>Item no.: 2000-406</b><br>Jumper; 6-way; insulated; light gray  | <a href="http://www.wago.com/2000-406">www.wago.com/2000-406</a>                 |
|    | <b>Item no.: 2000-406/000-005</b><br>Jumper; 6-way; insulated; red   | <a href="http://www.wago.com/2000-406/000-005">www.wago.com/2000-406/000-005</a> |
|    | <b>Item no.: 2000-406/020-000</b><br>Delta jumper; insulated; light gray   | <a href="http://www.wago.com/2000-406/020-000">www.wago.com/2000-406/020-000</a> |
|     | <b>Item no.: 2000-437</b><br>Jumper; from 1 to 7; insulated; light gray  | <a href="http://www.wago.com/2000-437">www.wago.com/2000-437</a>                 |
|     | <b>Item no.: 2000-438</b><br>Jumper; from 1 to 8; insulated; light gray  | <a href="http://www.wago.com/2000-438">www.wago.com/2000-438</a>                 |
|     | <b>Item no.: 2000-439</b><br>Jumper; from 1 to 9; insulated; light gray  | <a href="http://www.wago.com/2000-439">www.wago.com/2000-439</a>                 |
|     | <b>Item no.: 2000-440</b><br>Jumper; from 1 to 10; insulated; light gray   | <a href="http://www.wago.com/2000-440">www.wago.com/2000-440</a>                 |
|  | <b>Item no.: 210-103</b><br>Wire commoning chain; insulated; black   | <a href="http://www.wago.com/210-103">www.wago.com/210-103</a>                   |
| <b>Protective warning marker</b>   |  |  |
| Cover  |  |  |
|  | <b>Item no.: 2000-115</b><br>Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow   | <a href="http://www.wago.com/2000-115">www.wago.com/2000-115</a>                 |
| <b>Ferrule</b>   |  |  |
| Ferrule  |  |  |
|   | <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 | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a>                   |
|   | <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 | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a>                   |
|   | <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     | <a href="http://www.wago.com/216-243">www.wago.com/216-243</a>                   |
| <b>Push-in type wire jumper</b>  |  |  |
| Jumper   |  |  |
|  | <b>Item no.: 2009-404</b><br>Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 110 mm long; gray   | <a href="http://www.wago.com/2009-404">www.wago.com/2009-404</a>                 |

Subject to changes. Please also observe the further product documentation!

**Item no.: 2009-402**Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 60 mm long; gray[www.wago.com/2009-402](http://www.wago.com/2009-402)**Item no.: 2009-406**Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; gray[www.wago.com/2009-406](http://www.wago.com/2009-406)**Carrier rail**

## Mounting accessories

**Item no.: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

[www.wago.com/210-197](http://www.wago.com/210-197)**Item no.: 210-198**

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

[www.wago.com/210-198](http://www.wago.com/210-198)**Item no.: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

[www.wago.com/210-113](http://www.wago.com/210-113)**Item no.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

[www.wago.com/210-118](http://www.wago.com/210-118)**Item no.: 210-112**Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored [www.wago.com/210-112](http://www.wago.com/210-112)**Item no.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

[www.wago.com/210-114](http://www.wago.com/210-114)**Item no.: 210-115**Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored [www.wago.com/210-115](http://www.wago.com/210-115)**Item no.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

[www.wago.com/210-196](http://www.wago.com/210-196)**Downloads****Documentation****Bid Text**

|                           |             |                 |          |
|---------------------------|-------------|-----------------|----------|
| 2020-2238<br>X81 - Datei  | 2019 Feb 19 | xml<br>4.4 kB   | Download |
| 2020-2238<br>docx - Datei | 2018 Aug 7  | docx<br>15.8 kB | Download |

**Additional Information**

Subject to changes. Please also observe the further product documentation!

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Technical explanations

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## CAD/CAE-Data

### CAD data

2D/3D Models 2020-2238      URL      Download

### CAE data

WSCAD Universe 2020-2238      URL      Download

ZUKEN Portal 2020-2238      URL      Download

EPLAN Data Portal 2020-2238      URL      Download

## Environmental Product Compliance

### Compliance Search

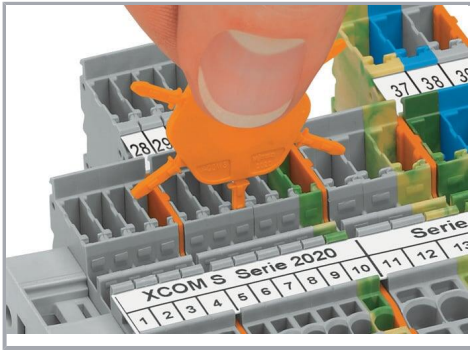
Environmental Product Compliance 2020-2238      URL      Download

2-conductor/2-pin double-deck carrier terminal; 2-conductor/2-pin through terminal block; L; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; gray

## Installation Notes

### Coding

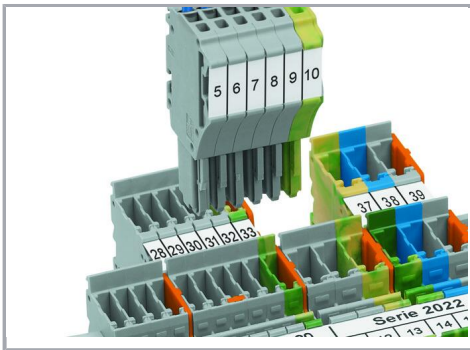
Subject to changes. Please also observe the further product documentation!



Insert coding pin into the corresponding slot and twist it off.

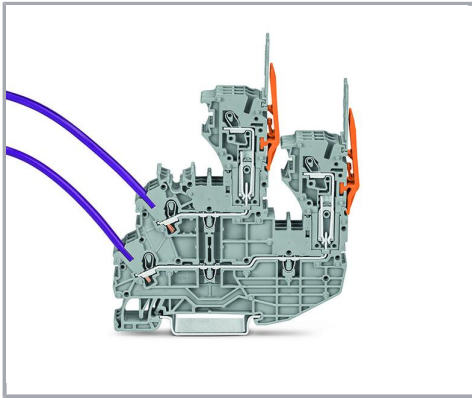


Coding a female plug: remove coding finger using a suitable tool.



Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

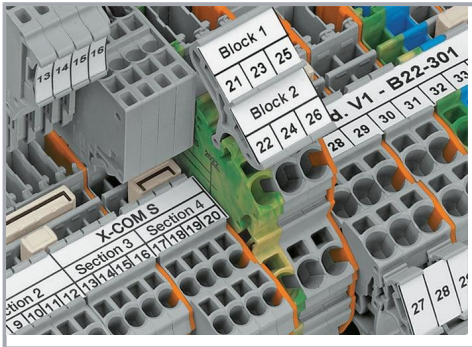
Subject to changes. Please also observe the further product documentation!



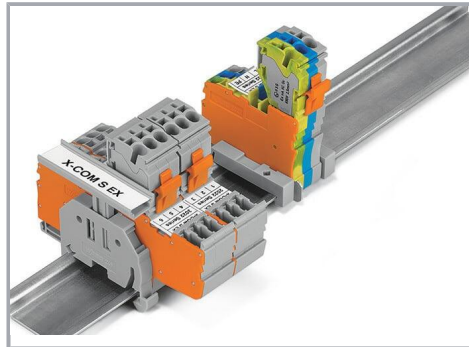
1-conductor female plug

Double-deck carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.

### Marking

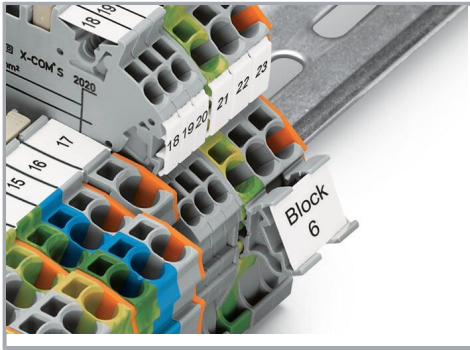


Clear marking via large marking area



Group marking with height-adjustable group marker carrier (2009-163)

Subject to changes. Please also observe the further product documentation!



Marking via marker carrier (2009-198)

## Product family

**X-COM S-Mini**

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!