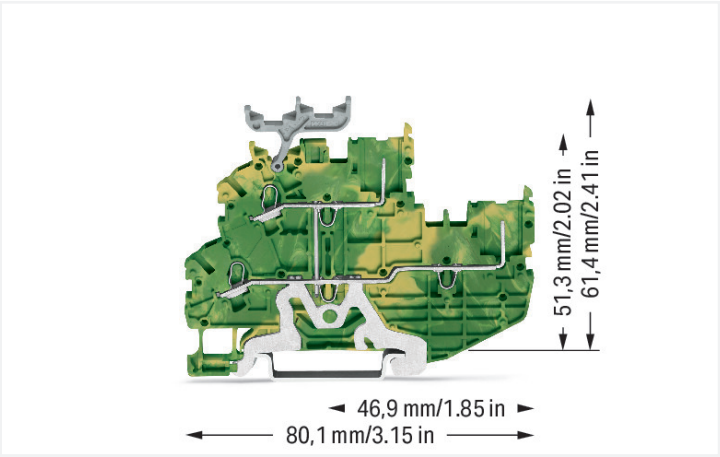
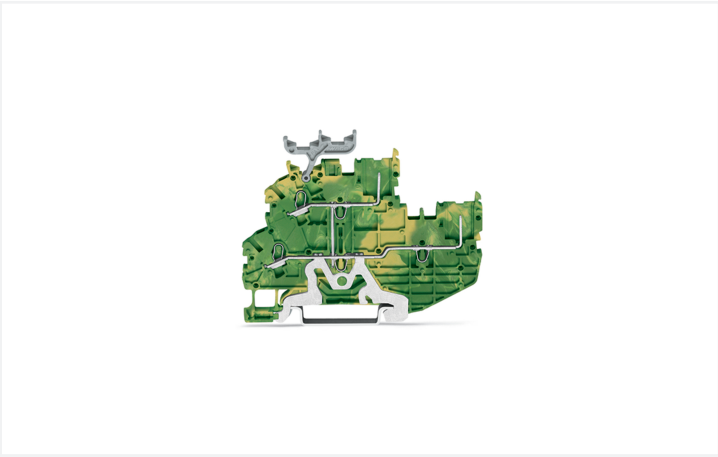
# Data Sheet | Item Number: 2020-2237

2-conductor/2-pin, double-deck carrier terminal block; 2-conductor/2-pin ground terminal block; PE; internal commoning; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; green-yellow

https://www.wago.com/2020-2237



Color: green-yellow

2-conductor/2-pin double-deck carrier terminal block, 2020 Series, operating tool

Enjoy error-free electrical installations with 2-conductor/2-pin double-deck carrier terminal block (item number 2020-2237). Conductors can only be connected to 2-conductor/2-pin double-deck carrier terminal block if their strip length is between 9 and 11 mm . Pluggable rail-mount terminal blocks are primarily found in switchgear units and control systems, most notably in railroad technology. These innovative systems combine the benefits of rail-mount terminal blocks and connectors for a flexible and reliable wiring system. You also have the option of pre-assembling installations, which not only makes production but also installation, operation, and maintenance more efficient and cost-effective. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. Depending on the type of conductor, 2-conductor/2-pin double-deck carrier terminal block is designed for conductor cross sections ranging from 0.14 mm² to 1.5 mm².

This pluggable rail-mount terminal block is operated with an operating tool.

## Notes

| | |
|---|---|
| Safety Information | A separator plate (Item No. 209-191) or a 10 mm end stop (Item No. 249-117) must be placed at the end of a WAGO X-COM®S-SYSTEM terminal strip. |

## Electrical data

### General information

| | |
|---|---|
| Wiring direction | Front-entry wiring |



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## Connection Data

| | |
|---|---|
| Clamping units | 2 |
| Female plug slots | 2 |
| Total number of potentials | 1 |
| Number of levels | 2 |
| Number of jumper slots | 3 |

### Connection 1

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool |
| Connectable conductor materials | Copper |
| Nominal cross-section | 1 mm² |
| Solid conductor | 0.14 … 1.5 mm² / 24 … 16 AWG |
| Solid conductor; push-in termination | 0.5 … 1.5 mm² / 20 … 16 AWG |
| Fine-stranded conductor | 0.14 … 1.5 mm² / 24 … 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.14 … 0.75 mm² / 24 … 18 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0.5 … 0.75 mm² / 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. |
| 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 | PE |
| 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 | green-yellow |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.192 MJ |
| Weight | 11.9 g |

## Environmental requirements

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


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## Commercial data

| | |
|---|---|
| Product Group | 18 (X-COM-System) |
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | CN |
| GTIN | 4050821049609 |
| Customs tariff number | 85366990990 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121410 |
| eCl@ss 10.0 | 27-14-11-41 |
| eCl@ss 9.0 | 27-14-11-41 |
| ETIM 9.0 | EC000901 |
| ETIM 10.0 | EC000901 |
| 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 7617 |
| CSA<br>DEKRA Certification B.V. | C22.2 | 2516073 |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947 | 71-100670 |
| UL<br>UL International Germany GmbH | UL 1059 | E 45172 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

### Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| ABS<br>American Bureau of Shipping | EN 60947 | 24-0152298-PDA |
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | - | TAE00001V2 |
| PRS<br>Polski Rejestr Statków | - | TE/1094/880590/23 |


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## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 2020-2237

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 2020-2237 | 19.02.2019 | xml 4.08 KB |
| 2020-2237 | 07.08.2018 | docx 15.17 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 2020-2237

**CAE data**

EPLAN Data Portal 2020-2237

WSCAD Universe 2020-2237

ZUKEN Portal 2020-2237

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Female connector/socket



Item No.: 2020-102
1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; gray



Item No.: 2020-202
2-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; gray

### 1.2 Required Accessories

#### 1.2.1 End plate

##### 1.2.1.1 End plate



Item No.: 2020-2291
End and intermediate plate; 1 mm thick; gray



Item No.: 2020-2292
End and intermediate plate; 1 mm thick; orange



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## 1.3 Optional Accessories

### 1.3.1 Coding

#### 1.3.1.1 Coding



Item No.: 2020-100
Carrier with 6 coding pins; for coding of female plugs; for carrier terminal blocks; orange

### 1.3.2 DIN-rail

#### 1.3.2.1 Mounting accessories



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



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



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



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



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



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



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



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

### 1.3.3 Ferrule

#### 1.3.3.1 Ferrule



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.: 216-242
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.: 216-243
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

### 1.3.4 Jumper

#### 1.3.4.1 Jumper



Item No.: 2000-406/020-000
Delta jumper; insulated; light gray



Item No.: 2000-410/000-006
Jumper; 10-way; insulated; blue



Item No.: 2000-410
Jumper; 10-way; insulated; light gray



Item No.: 2000-410/000-005
Jumper; 10-way; insulated; red



Item No.: 2000-402/000-006
Jumper; 2-way; insulated; blue



Item No.: 2000-402
Jumper; 2-way; insulated; light gray



Item No.: 2000-402/000-005
Jumper; 2-way; insulated; red



Item No.: 2000-402/000-018
Jumper; 2-way; insulated; yellow-green



Item No.: 2000-403/000-006
Jumper; 3-way; insulated; blue



Item No.: 2000-403
Jumper; 3-way; insulated; light gray



Item No.: 2000-403/000-005
Jumper; 3-way; insulated; red



Item No.: 2000-404/000-006
Jumper; 4-way; insulated; blue



Item No.: 2000-404
Jumper; 4-way; insulated; light gray



Item No.: 2000-404/000-005
Jumper; 4-way; insulated; red



Item No.: 2000-405/000-006
Jumper; 5-way; insulated; blue



Item No.: 2000-405
Jumper; 5-way; insulated; light gray



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### 1.3.4.1 Jumper



Item No.: 2000-405/000-005
Jumper; 5-way; insulated; red



Item No.: 2000-406/000-006
Jumper; 6-way; insulated; blue



Item No.: 2000-406
Jumper; 6-way; insulated; light gray



Item No.: 2000-406/000-005
Jumper; 6-way; insulated; red



Item No.: 2000-407/000-006
Jumper; 7-way; insulated; blue



Item No.: 2000-407
Jumper; 7-way; insulated; light gray



Item No.: 2000-407/000-005
Jumper; 7-way; insulated; red



Item No.: 2000-408/000-006
Jumper; 8-way; insulated; blue



Item No.: 2000-408
Jumper; 8-way; insulated; light gray



Item No.: 2000-408/000-005
Jumper; 8-way; insulated; red



Item No.: 2000-409/000-006
Jumper; 9-way; insulated; blue



Item No.: 2000-409
Jumper; 9-way; insulated; light gray



Item No.: 2000-409/000-005
Jumper; 9-way; insulated; red



Item No.: 2000-440
Jumper; from 1 to 10; insulated; light gray



Item No.: 2000-433/000-006
Jumper; from 1 to 3; insulated; blue



Item No.: 2000-433
Jumper; from 1 to 3; insulated; light gray



Item No.: 2000-433/000-005
Jumper; from 1 to 3; insulated; red



Item No.: 2000-434
Jumper; from 1 to 4; insulated; light gray



Item No.: 2000-435
Jumper; from 1 to 5; insulated; light gray



Item No.: 2000-436
Jumper; from 1 to 6; insulated; light gray



Item No.: 2000-437
Jumper; from 1 to 7; insulated; light gray



Item No.: 2000-438
Jumper; from 1 to 8; insulated; light gray



Item No.: 2000-439
Jumper; from 1 to 9; insulated; light gray



Item No.: 2000-405/011-000
Star point jumper; 3-way; insulated; light gray



Item No.: 210-103
Wire commoning chain; 0.5 mm²; insulated; black



Item No.: 210-123
Wire commoning chain; insulated; blue

## 1.3.5 Marking

### 1.3.5.1 Marker



Item No.: 793-3501
WMB marking card; as card; plain; snap-on type; white



Item No.: 2009-113
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

### 1.3.5.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white



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## 1.3.6 Protective warning marker

### 1.3.6.1 Cover



Item No.: 2000-115
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

## 1.3.7 Push-in type wire jumper

### 1.3.7.1 Jumper



Item No.: 2009-404
Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; gray



Item No.: 2009-406
Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; gray



Item No.: 2009-402
Push-in type wire jumper; 0.75 mm²; insulated; 60 mm long; gray

## 1.3.8 Screwless end stop

### 1.3.8.1 Mounting accessories



Item No.: 249-117
Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item No.: 249-116
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

## 1.3.9 Test and measurement

### 1.3.9.1 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

## 1.3.10 Tool

### 1.3.10.1 Operating tool



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



Item No.: 210-648
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

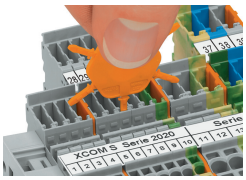


Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured


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## Installation Notes

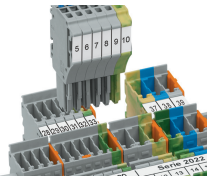
### Coding



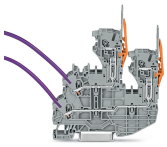
Insert coding pin into the corresponding slot and twist it off.



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

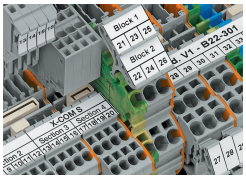


Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

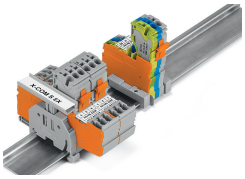


1-conductor female plug
Double-deck carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.

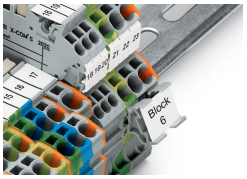
### Marking



Clear marking via large marking area



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



Marking via marker carrier (Item No. 2009-198)


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