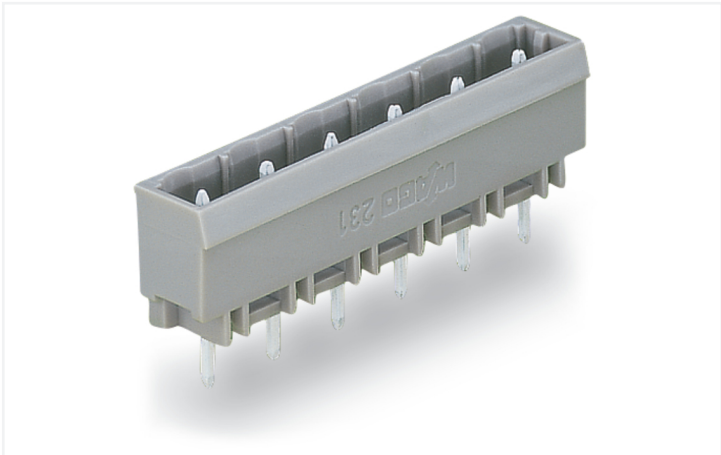
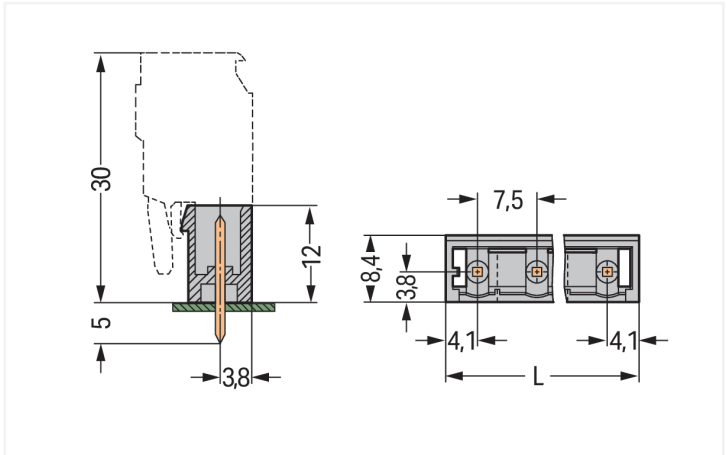


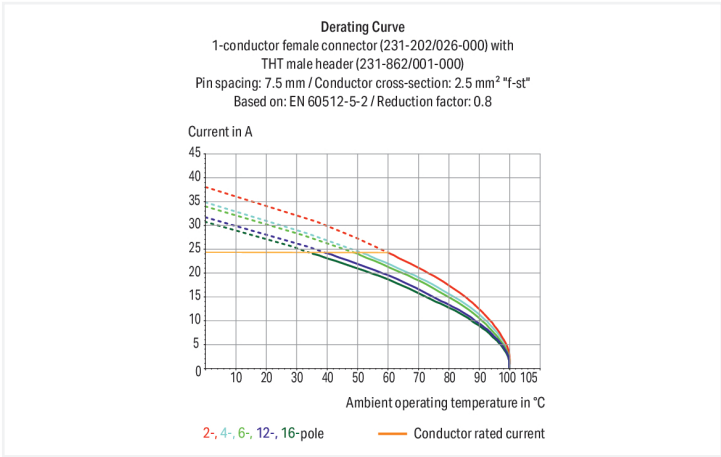


Color: ■ gray

Similar to illustration



Dimensions in mm  
 $L = (\text{pole no.} - 1) \times \text{pin spacing} + 8.2 \text{ mm}$



Stiftleiste Serie 231 mit Rastermaß 7,5 mm

Die Stiftleiste mit der Artikelnummer 231-264/001-000 ermöglicht eine reibungslose Elektroinstallation. Unsere Leiterplatten-Steckverbinder geben Ihnen die größtmögliche Flexibilität bei unterschiedlichen Montagearten. Die Maße sind in Breite x Höhe x Tiefe (30,7 x 17 x 8,4) mm. Die Oberfläche der Kontakte besteht aus Zinn. Das MCS – "Multi Connection System" von WAGO ist ein vielfältiges Steckverbindersystem für Ihre durchgängige Systemverdrahtung. Es ermöglicht Ihnen eine vereinfachte Verdrahtung in der Kabelvorkonfektionierung und auf Geräten durch zwei Betätigungsrichtungen für die CAGE CLAMP®-Varianten. Der Leiterplatten-Steckverbinder wird mittels THT verlötet.

| Notes              |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Information | The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated. |
| Variants:          | Other pole numbers<br>3.8 mm pin projection for male headers with straight solder pins<br>Gold-plated or partially gold-plated contact surfaces<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                      | 500 V                                    | 630 V          | 1000 V |       |
| Rated surge voltage                  | 6 kV                                     | 6 kV           | 6 kV   |       |
| Rated current                        | 16 A                                     | 16 A           | 16 A   |       |
| Approvals per                        |                                          | UL 1059        |        |       |
| Use group                            |                                          | B              | C      | D     |
| Rated voltage                        |                                          | 300 V          | -      | 300 V |
| Rated current                        |                                          | 15 A           | -      | 10 A  |
| Approvals per                        |                                          | UL 1977        |        |       |
| Rated voltage                        |                                          | 600 V          |        |       |
| Rated current                        |                                          | 15 A           |        |       |
| Approvals per                        |                                          | CSA            |        |       |
| Use group                            |                                          | B              | C      | D     |
| Rated voltage                        |                                          | 300 V          | -      | 300 V |
| Rated current                        |                                          | 15 A           | -      | 10 A  |
| Connection data                      |                                          |                |        |       |
| Total number of potentials           | 4                                        | Connection 1   |        |       |
| Number of connection types           | 1                                        | Pole number    | 4      |       |
| Number of levels                     | 1                                        |                |        |       |
| Physical data                        |                                          |                |        |       |
| Pin spacing                          | 7.5 mm / 0.295 inches                    |                |        |       |
| Width                                | 30.7 mm / 1.209 inches                   |                |        |       |
| Height                               | 17 mm / 0.669 inches                     |                |        |       |
| Height from the surface              | 12 mm / 0.472 inches                     |                |        |       |
| Depth                                | 8.4 mm / 0.331 inches                    |                |        |       |
| Solder pin length                    | 5 mm                                     |                |        |       |
| Solder pin dimensions                | 1.2 x 1.2 mm                             |                |        |       |
| Drilled hole diameter with tolerance | 1.7 <sup>(+0.1)</sup> mm                 |                |        |       |
| Mechanical data                      |                                          |                |        |       |
| Variable coding                      | Yes                                      |                |        |       |
| Anti-rotation protection             | Yes                                      |                |        |       |
| Plug-in connection                   |                                          |                |        |       |
| Contact type (pluggable connector)   | Male connector/plug                      |                |        |       |
| Connector (connection type)          | for PCB                                  |                |        |       |
| Mismating protection                 | No                                       |                |        |       |
| Mating direction to the PCB          | 90 °                                     |                |        |       |
| PCB contact                          |                                          |                |        |       |
| PCB contact                          | THT                                      |                |        |       |
| Solder pin arrangement               | over the entire male connector (in-line) |                |        |       |
| Number of solder pins per potential  | 1                                        |                |        |       |



| 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                                                                       |
| Contact material                   | Electrolytic copper (E <sub>CU</sub> )                                   |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.076 MJ                                                                 |
| Weight                             | 1.9 g                                                                    |

| Environmental requirements                                                                         |                                                                                                                                             |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Limit temperature range                                                                            | -60 ... +100 °C                                                                                                                             |
| Processing temperature                                                                             | -35 ... +60 °C                                                                                                                              |
| Environmental Testing (Environmental Conditions)                                                   |                                                                                                                                             |
| Test specification<br>Railway applications –<br>Rolling stock –<br>Electronic equipment            | DIN EN 50155 (VDE 0115-200):2022-06                                                                                                         |
| Test procedure<br>Railway applications –<br>Rolling stock equipment –<br>Shock and vibration tests | DIN EN 61373 (VDE 0115-0106):2011-04                                                                                                        |
| Spectrum/Installation location                                                                     | Service life test, Category 1, Class A/B                                                                                                    |
| Function test with noise-like vibration                                                            | Test passed according to Section 8 of the standard                                                                                          |
| Frequency                                                                                          | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz<br>f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz                                        |
| Acceleration                                                                                       | 0.101g (highest test level used for all axes)<br>0.572g (highest test level used for all axes)<br>5g (highest test level used for all axes) |
| Test duration per axis                                                                             | 10 min.<br>5 h                                                                                                                              |
| Test directions                                                                                    | X, Y and Z axes<br>X, Y and Z axes<br>X, Y and Z axes                                                                                       |
| Monitoring for contact faults/interruptions                                                        | Passed                                                                                                                                      |
| Voltage drop measurement before and after each axis                                                | Passed                                                                                                                                      |
| Simulated service life test through increased levels of noise-like vibration                       | Test passed according to Section 9 of the standard                                                                                          |
| Extended test scope: Monitoring for contact faults/interruptions                                   | Passed<br>Passed                                                                                                                            |
| Extended test scope: Voltage drop measurement before and after each axis                           | Passed<br>Passed                                                                                                                            |
| Shock test                                                                                         | Test passed according to Section 10 of the standard                                                                                         |
| Shock form                                                                                         | Half sine                                                                                                                                   |
| Shock duration                                                                                     | 30 ms                                                                                                                                       |
| Number of shocks per axis                                                                          | 3 pos. und 3 neg.                                                                                                                           |
| Vibration and shock stress for rolling stock equipment                                             | Passed                                                                                                                                      |



| Commercial data       |                        |  |
|-----------------------|------------------------|--|
| Product Group         | 3 (Multi Conn. System) |  |
| PU (SPU)              | 100 pcs                |  |
| Packaging type        | Box                    |  |
| Country of origin     | PL                     |  |
| GTIN                  | 4044918929103          |  |
| Customs tariff number | 85366930000            |  |

| Product classification |                      |  |
|------------------------|----------------------|--|
| UNSPSC                 | 39121409             |  |
| eCl@ss 10.0            | 27-44-04-02          |  |
| eCl@ss 9.0             | 27-44-04-02          |  |
| ETIM 9.0               | EC002637             |  |
| ETIM 8.0               | EC002637             |  |
| ECCN                   | NO US CLASSIFICATION |  |

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

### Approvals / Certificates

| General approvals                                                                  |           |                  | Declarations of conformity and manufacturer's declarations                          |          |                  |
|------------------------------------------------------------------------------------|-----------|------------------|-------------------------------------------------------------------------------------|----------|------------------|
|  |           |                  |  |          |                  |
| Approval                                                                           | Standard  | Certificate Name | Approval                                                                            | Standard | Certificate Name |
| CB<br>DEKRA Certification B.V.                                                     | IEC 61984 | NL-113351        | Railway<br>WAGO GmbH & Co. KG                                                       | -        | Railway Ready    |
| CSA<br>DEKRA Certification B.V.                                                    | C22.2     | 1466354          |                                                                                     |          |                  |
| KEMA/KEUR<br>DEKRA Certification B.V.                                              | EN 61984  | 71-130478 REV.1  |                                                                                     |          |                  |
| UR<br>Underwriters Laboratories Inc.                                               | UL 1977   | E 45171          |                                                                                     |          |                  |
| UR<br>Underwriters Laboratories Inc.                                               | UL 1059   | E45172           |                                                                                     |          |                  |

### Approvals for marine applications

|  |           |                  |
|------------------------------------------------------------------------------------|-----------|------------------|
| Approval                                                                           | Standard  | Certificate Name |
| ABS<br>American Bureau of Ship-<br>ping                                            | -         | 19-HG1869876-PDA |
| BV<br>Bureau Veritas S.A.                                                          | IEC 60998 | 11915/D0 BV      |
| DNV<br>DNV GL SE                                                                   | -         | TAE000016Z       |



Downloads

Environmental Product Compliance

| Compliance Search                |                 |  |  |
|----------------------------------|-----------------|--|--|
| Environmental Product Compliance | 231-264/001-000 |  |  |

Documentation

| Additional Information |            |                   |  |
|------------------------|------------|-------------------|--|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB |  |

CAD/CAE-Data

| CAD data        |  |
|-----------------|--|
| 2D/3D Models    |  |
| 231-264/001-000 |  |

| CAE data          |  |
|-------------------|--|
| EPLAN Data Portal |  |
| 231-264/001-000   |  |
| ZUKEN Portal      |  |
| 231-264/001-000   |  |

| PCB Design                                  |  |
|---------------------------------------------|--|
| Symbol and Footprint<br>via SamacSys        |  |
| 231-264/001-000                             |  |
| Symbol and Footprint<br>via Ultra Librarian |  |
| 231-264/001-000                             |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: [231-204/026-000](#)  
1-conductor female connector; CAGE  
CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 4-  
pole; gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



Item No.: [231-129](#)  
Coding key; snap-on type; light gray

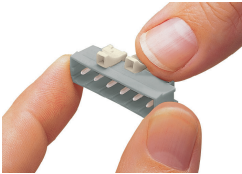
1.2.1.2 Intermediate plate



Item No.: [231-500](#)  
Spacer; for formation of groups; light gray

Installation Notes

Coding



Coding a male header – fitting coding key (s).