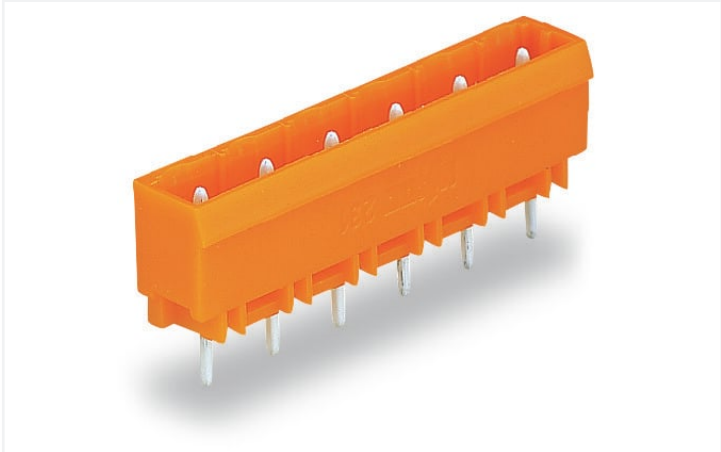
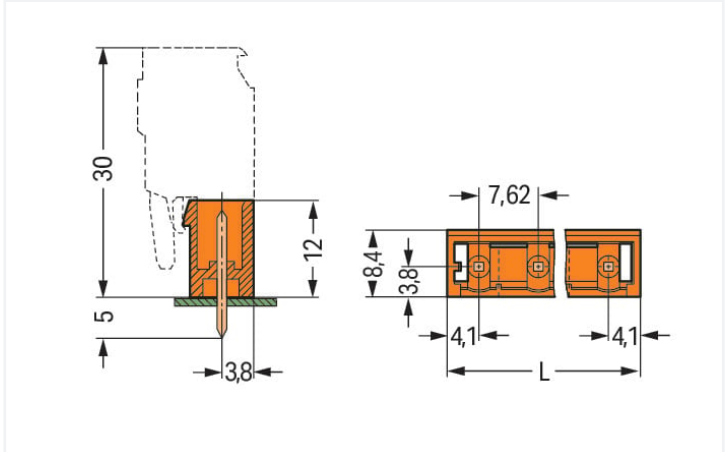


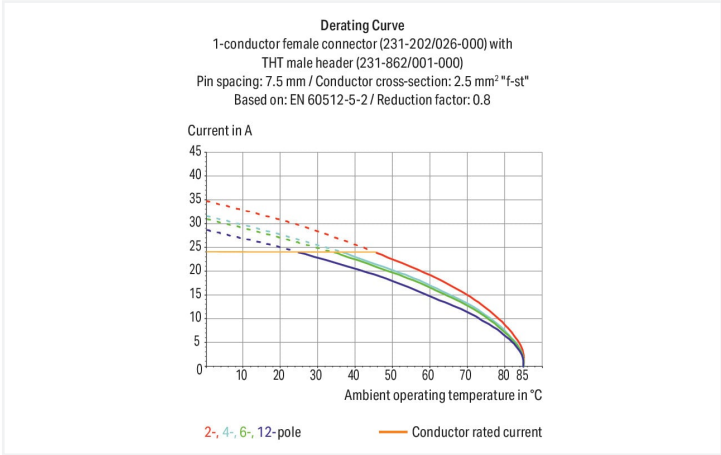


Color: ■ orange

Similar to illustration



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



- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- With coding fingers

| 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        | 12 A  | 12 A           | 12 A   |
| Approvals per        |       | UL 1059        |        |
| Use group            | B     | C              | D      |
| Rated voltage        | 300 V | -              | 300 V  |
| Rated current        | 10 A  | -              | 10 A   |



| Approvals per |  | UL 1977 |
|---------------|--|---------|
| Rated voltage |  | 600 V   |
| Rated current |  | 10 A    |

| Approvals per |  | CSA   |   |       |
|---------------|--|-------|---|-------|
| Use group     |  | B     | C | D     |
| Rated voltage |  | 300 V | - | 300 V |
| Rated current |  | 10 A  | - | 10 A  |

| Connection data            |    |              |    |  |
|----------------------------|----|--------------|----|--|
| Total number of potentials | 12 | Connection 1 |    |  |
| Number of connection types | 1  | Pole number  | 12 |  |
| Number of levels           | 1  |              |    |  |

| Physical data                        |                         |
|--------------------------------------|-------------------------|
| Pin spacing                          | 7.62 mm / 0.3 inches    |
| Width                                | 92.02 mm / 3.623 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 x 1 mm                |
| Drilled hole diameter with tolerance | 1.4 (+0.1) 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                       | orange                                                                   |
| Material group              | I                                                                        |
| Insulation material         | Polyamide (PA66)                                                         |
| Flammability class per UL94 | V0                                                                       |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                                   |
| Contact plating             | Tin                                                                      |
| Fire load                   | 0.093 MJ                                                                 |
| Weight                      | 4.6 g                                                                    |



| Environmental requirements |                 |
|----------------------------|-----------------|
| Limit temperature range    | -60 ... +100 °C |
| Processing temperature     | -35 ... +60 °C  |

| Commercial data       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| eCl@ss 10.0           | 27-44-04-02            |
| eCl@ss 9.0            | 27-44-04-02            |
| ETIM 8.0              | EC002637               |
| ETIM 7.0              | EC002637               |
| PU (SPU)              | 50 pcs                 |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4044918868020          |
| Customs tariff number | 85366930000            |

| 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-39756/A1      | Railway<br>WAGO GmbH & Co. KG                                                       | -        | Railway Ready    |
| CSA<br>DEKRA Certification B.V.                                                    | C22.2     | 1466354          |                                                                                     |          |                  |
| UR<br>Underwriters Laboratories Inc.                                               | UL 1977   | E45171           |                                                                                     |          |                  |
| 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      |



|                                                                                                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Downloads                                                                                                                                                                        |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| Environmental Product Compliance                                                                                                                                                 |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| Compliance Search                                                                                                                                                                |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| Environmental Product Compliance                                                                                                                                                 | 231-742/001-000                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| Documentation                                                                                                                                                                    |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| Additional Information                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| Technical Section                                                                                                                                                                | 03.04.2019                                                                                                                                                                          | pdf<br>2027.26 KB                                                                                                                                                                      |                                                                                                                                                                                               |
| CAD/CAE-Data                                                                                                                                                                     |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| CAD data                                                                                                                                                                         |                                                                                                                                                                                     | CAE data                                                                                                                                                                               |                                                                                                                                                                                               |
| 2D/3D Models                                                                                                                                                                     | 231-742/001-000                                                                                                                                                                     | EPLAN Data Portal                                                                                                                                                                      | 231-742/001-000                                                                                                                                                                               |
|                                                                                                                                                                                  |                                                                                                                                                                                     | ZUKEN Portal                                                                                                                                                                           | 231-742/001-000                                                                                                                                                                               |
| PCB Design                                                                                                                                                                       |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| Symbol and Footprint via SamacSys                                                                                                                                                | 231-742/001-000                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| Symbol and Footprint via Ultra Librarian                                                                                                                                         | 231-742/001-000                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| 1 Compatible Products                                                                                                                                                            |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| 1.1 System counterpart                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| 1.1.1 Female connector/socket                                                                                                                                                    |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
|                                                                                                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| <a href="#">Item No.: 732-132/026-000</a><br>1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; 2,50 mm²; orange                          | <a href="#">Item No.: 231-712/026-000</a><br>1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; 2,50 mm²; orange                                     | <a href="#">Item No.: 231-712/027-000</a><br>1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; clamping collar; 2,50 mm²; orange                       | <a href="#">Item No.: 231-712/031-000</a><br>1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; clamping collar; 2,50 mm²; orange                              |
|                                                                                                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| <a href="#">Item No.: 231-712/037-000</a><br>1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; Lateral locking levers; 2,50 mm²; orange          | <a href="#">Item No.: 2231-712/026-000</a><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; 2,50 mm²; orange               | <a href="#">Item No.: 2231-712/031-000</a><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; clamping collar; 2,50 mm²; orange | <a href="#">Item No.: 2231-712/037-000</a><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; Lateral locking levers; 2,50 mm²; orange |
|                                                                                                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |
| <a href="#">Item No.: 231-2712/037-000</a><br>2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; Lateral locking levers; 2,50 mm²; orange | <a href="#">Item No.: 231-2712/026-000</a><br>2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; with integrated end plate; 2,50 mm²; orange |                                                                                                                                                                                        |                                                                                                                                                                                               |

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



Item No.: [231-130](#)  
Coding key; snap-on type; light gray

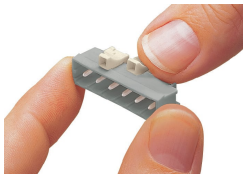
1.2.1.2 Intermediate plate



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

Installation Notes

Coding



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