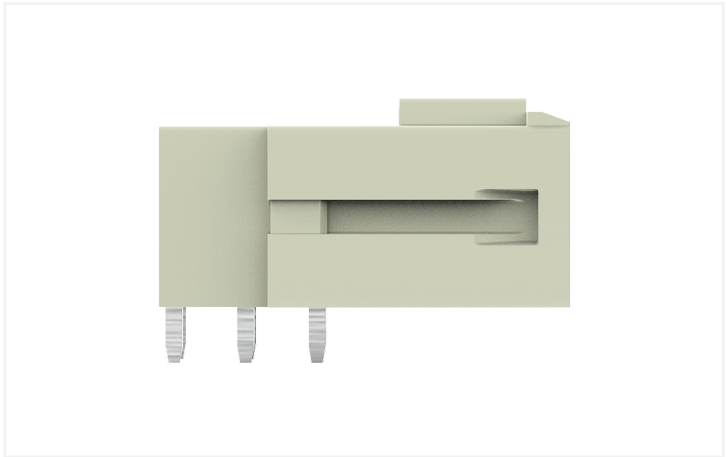
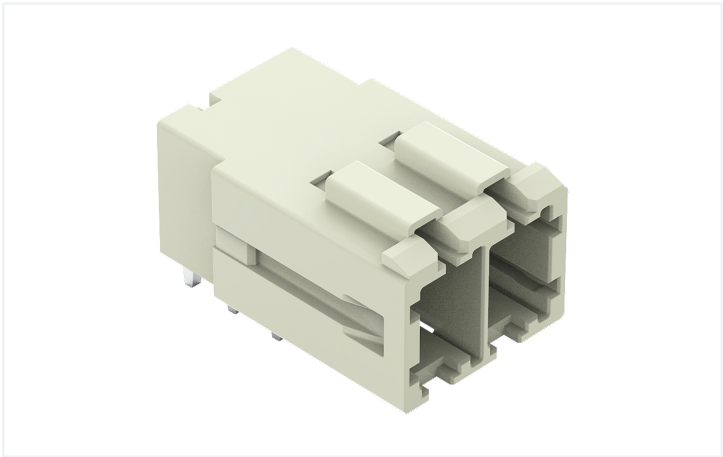


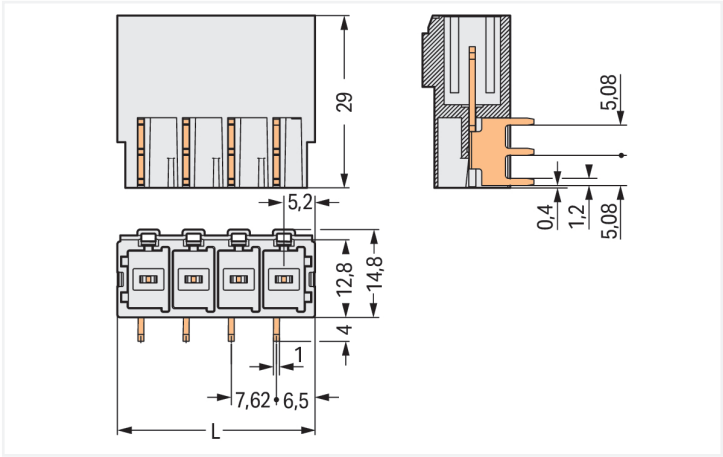
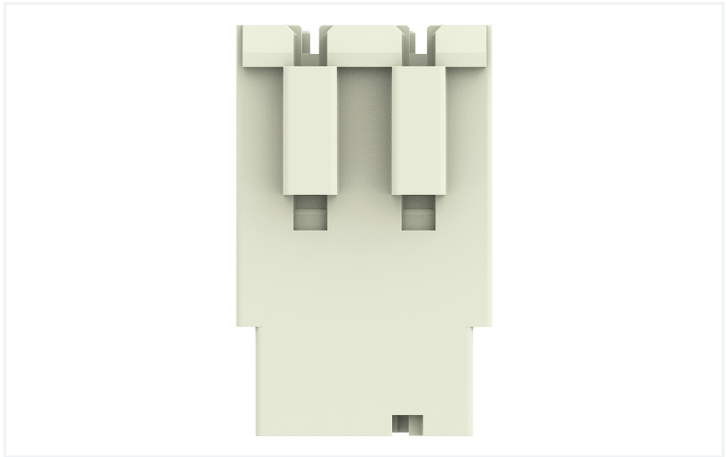
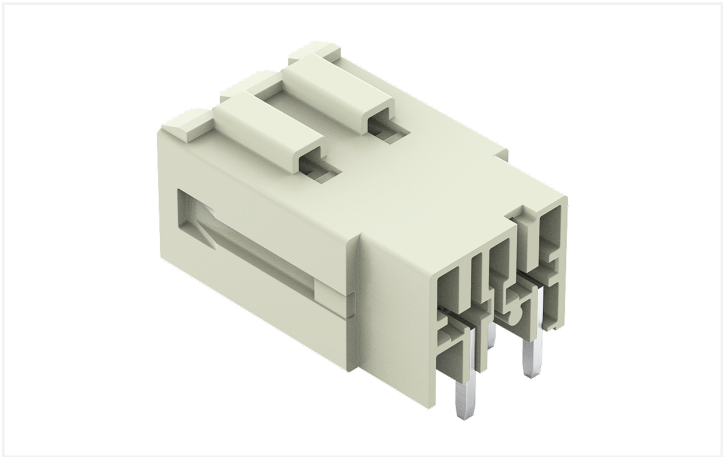
**Data Sheet | Item Number: 831-3622**

THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mis-mating; Pin spacing 7.62 mm; 2-pole; light gray

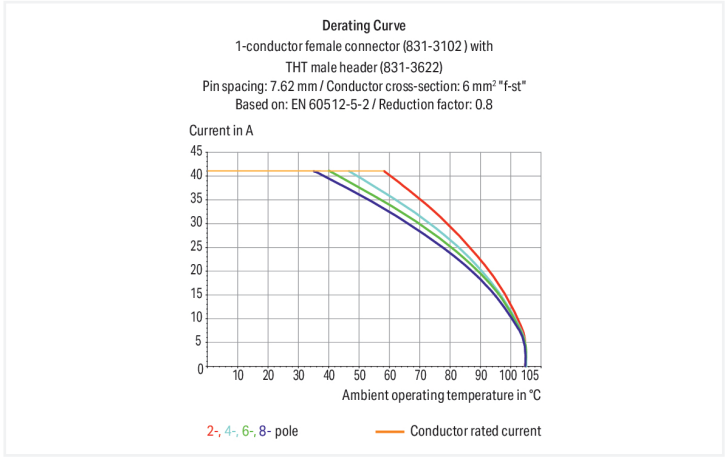
<https://www.wago.com/831-3622>

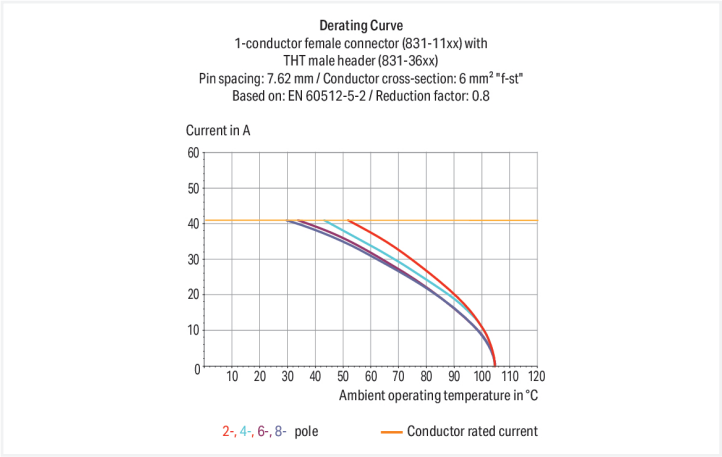


Color: ■ light gray



Dimensions in mm  
 $L = (\text{pole no.} - 1) \times \text{pin spacing} + 10.5 \text{ mm}$





Die Stiftheiste hat die Artikelnummer 831-3622 und bietet eine fehlerfreie Elektroinstallation. Mit unseren Leiterplatten-Steckverbindern bekommen Sie ein ganzheitliches Steckverbindersystem, das vielseitig eingesetzt werden kann: als Leiterplatten-Steckverbinder, als Durchführungssteckverbinder, als fliegende Steckverbindung für verschiedene Montagearten oder als Steckverbinder auf Reihenkontakten. In Breite x Höhe x Tiefe betragen die Maße (18,12 x 18,8 x 29) mm. Die Kontaktoberfläche besteht aus Zinn. Das "Multi Connection System" – MCS von WAGO ist das vielfältige Steckverbindersystem mit überzeugenden Lösungen für Ihre Anwendungen. Der Leiterplatten-Steckverbinder wird mittels THT auf die Platine gelötet.

## 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  
Protection against PCB mounting errors  
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.



| Electrical data      |       |                |        |               |               |       |
|----------------------|-------|----------------|--------|---------------|---------------|-------|
| Ratings per          |       | IEC/EN 60664-1 |        |               | Approvals per |       |
|                      |       | UL 1059        |        |               |               |       |
| Overvoltage category | III   | III            | II     | Use group     | B             | C     |
| Pollution degree     | 3     | 2              | 2      | Rated voltage | -             | 300 V |
| Nominal voltage      | 500 V | 630 V          | 1000 V | Rated current | -             | 42 A  |
| Rated surge voltage  | 6 kV  | 6 kV           | 6 kV   |               |               | 5 A   |
| Rated current        | 41 A  | 41 A           | 41 A   |               |               |       |

| Approvals per |   | CSA   |       |  |
|---------------|---|-------|-------|--|
| Use group     | B | C     | D     |  |
| Rated voltage | - | 300 V | 600 V |  |
| Rated current | - | 41 A  | 5 A   |  |

| Connection data            |   |              |   |
|----------------------------|---|--------------|---|
| Total number of potentials | 2 | Connection 1 |   |
| Number of connection types | 1 | Pole number  | 2 |
| Number of levels           | 1 |              |   |

| Physical data                        |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 7.62 mm / 0.3 inches     |
| Width                                | 18.12 mm / 0.713 inches  |
| Height                               | 18.8 mm / 0.74 inches    |
| Height from the surface              | 14.8 mm / 0.583 inches   |
| Depth                                | 29 mm / 1.142 inches     |
| Solder pin length                    | 4 mm                     |
| Solder pin dimensions                | 1 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               | Yes                 |
| Mating direction to the PCB        | 0 °                 |

| PCB contact                         |                                          |
|-------------------------------------|------------------------------------------|
| PCB contact                         | THT                                      |
| Solder pin arrangement              | over the entire male connector (in-line) |
| Number of solder pins per potential | 3                                        |



| Material data                      |  |                                                                          |
|------------------------------------|--|--------------------------------------------------------------------------|
| Note (material data)               |  | <a href="#">Information on material specifications can be found here</a> |
| Color                              |  | light 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                          |  | 0.103 MJ                                                                 |
| Weight                             |  | 5.7 g                                                                    |

| Environmental requirements |                 |                                                                                                                                             |
|----------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Limit temperature range    | -60 ... +105 °C | <b>Environmental Testing (Environmental Conditions)</b>                                                                                     |
| Processing temperature     | -35 ... +60 °C  |                                                                                                                                             |
|                            |                 | 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) |  |
| eCl@ss 10.0           | 27-44-04-02            |  |
| eCl@ss 9.0            | 27-44-04-02            |  |
| ETIM 9.0              | EC002637               |  |
| ETIM 8.0              | EC002637               |  |
| PU (SPU)              | 48 pcs                 |  |
| Packaging type        | Box                    |  |
| Country of origin     | PL                     |  |
| GTIN                  | 4045454002176          |  |
| 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-61360/M1      | 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  | 71-116057        |                                                                                   |          |                  |
| UR<br>Underwriters Laboratories Inc.                                                                                                                                                                                                                 | UL 1059   | E45172           |                                                                                   |          |                  |

| Approvals for marine applications                                                  |           |                  |
|------------------------------------------------------------------------------------|-----------|------------------|
|  |           |                  |
| Approval                                                                           | Standard  | Certificate Name |
| LR<br>Lloyds Register                                                              | IEC 61984 | 96/20035 (E5)    |

| Downloads                                 |                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------|
| Environmental Product Compliance          |                                                                                     |
| Compliance Search                         |                                                                                     |
| Environmental Product Compliance 831-3622 |  |



Documentation

| Additional Information |            |                   |                   |
|------------------------|------------|-------------------|-------------------|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB | <a href="#">↓</a> |

CAD/CAE-Data

| CAD data                                      | CAE data                                           |
|-----------------------------------------------|----------------------------------------------------|
| 2D/3D Models<br>831-3622<br><a href="#">↓</a> | EPLAN Data Portal<br>831-3622<br><a href="#">↓</a> |
|                                               | ZUKEN Portal<br>831-3622<br><a href="#">↓</a>      |

| PCB Design                                                                   |  |
|------------------------------------------------------------------------------|--|
| Symbol and Footprint<br>via SamacSys<br>831-3622<br><a href="#">↓</a>        |  |
| Symbol and Footprint<br>via Ultra Librarian<br>831-3622<br><a href="#">↓</a> |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket

|                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 831-1102</b><br>1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; 10,00 mm²; light gray                         | <br><b>Item No.: 831-1102/000-004</b><br>1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; black                                         | <br><b>Item No.: 831-1102/322-000</b><br>1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; Centered locking levers; 10,00 mm²; light gray | <br><b>Item No.: 831-1102/322-004</b><br>1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; Centered locking levers; black                          |
| <br><b>Item No.: 831-1102/133-000</b><br>1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; Gripping plate; 10,00 mm²; light gray | <br><b>Item No.: 831-1102/037-000</b><br>1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; Lateral locking levers; 10,00 mm²; light gray | <br><b>Item No.: 831-1102/038-000</b><br>1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; Lateral locking levers; 10,00 mm²; light gray  | <br><b>Item No.: 831-3102</b><br>1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; 10,00 mm²; light gray                                                  |
| <br><b>Item No.: 831-3102/000-9037</b><br>1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; direct marking; 10,00 mm²; light gray       | <br><b>Item No.: 831-3102/133-000</b><br>1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; Gripping plate; 10,00 mm²; light gray                | <br><b>Item No.: 831-3102/037-000</b><br>1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; Lateral locking levers; 10,00 mm²; light gray         | <br><b>Item No.: 831-3102/037-9037</b><br>1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; Lateral locking levers; direct marking; 10,00 mm²; light gray |
| <br><b>Item No.: 831-1102/320-000</b><br>1-conductor female plug; 100% protected against mismatching; lever; Locking lever; 10 mm²; Pin spacing 7.62 mm; 2-pole                                                   | <br><b>Item No.: 831-3522</b><br>THT female header; angled; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; 1.0 x 1.2 mm solder pin; light gray                                                          | <br><b>Item No.: 831-3502</b><br>THT female header; straight; Pin spacing 7.62 mm; 2-pole; 100% protected against mismatching; 1.0 x 1.2 mm solder pin; light gray                                                         |                                                                                                                                                                                                                                                                                                                          |

1.2 Optional Accessories

1.2.1 Coding

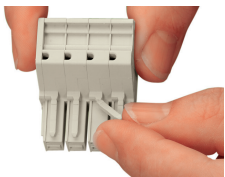
1.2.1.1 Coding



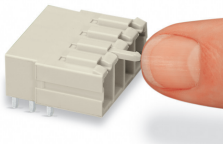
Item No.: 831-500  
Coding pin carrier with six coding pins;  
orange

Installation Notes

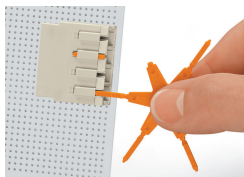
Coding



Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



Coding a THT male header by inserting a coding pin.