

**Data sheet | Item number: 733-205**

1-conductor male connector; CAGE CLAMP®; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm;  
5-pole; 100% protected against mismatching; 0,50 mm<sup>2</sup>; light gray

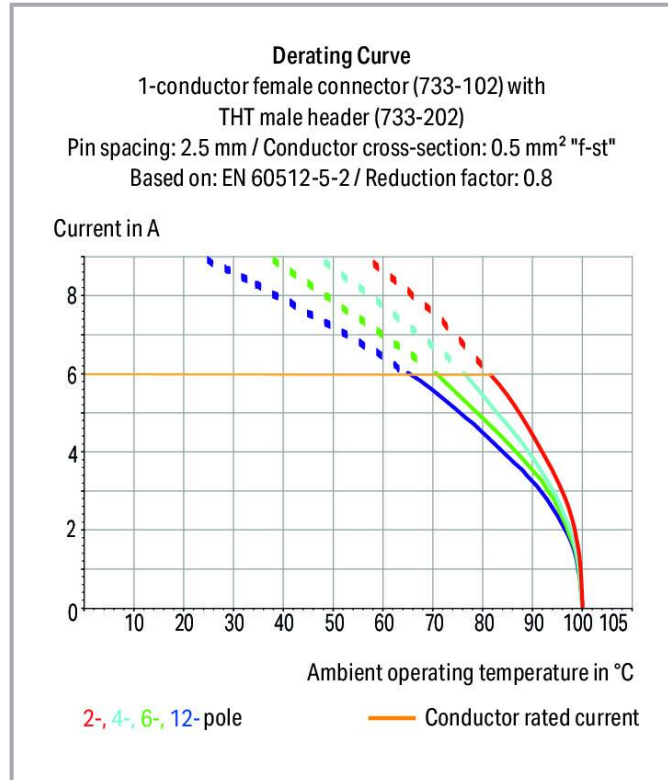


[www.wago.com/733-205](http://www.wago.com/733-205)



**i** Picture differs from the item.

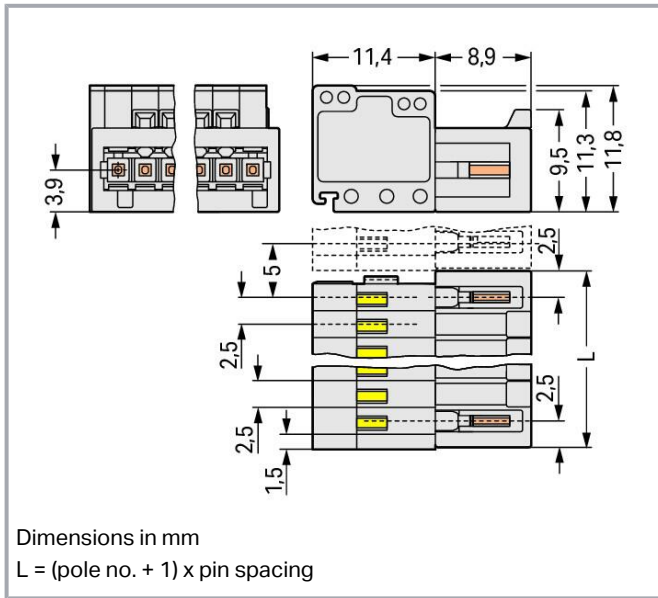
Color: —



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## Item description

- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- For wire-to-wire connections
- 100% protected against mismatching
- Coding option available

## Data

### 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  
Gold-plated or partially gold-plated contact surfaces  
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

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



### Ratings per IEC/EN

| Ratings per                   | IEC/EN 60664-1  |
|-------------------------------|---|
| Nominal voltage (III/3)       | 100 V   |
| Rated impulse voltage (III/3) | 2.5 kV  |
| Rated voltage (III/2)         | 160 V   |
| Rated impulse voltage (III/2) | 2.5 kV  |
| Nominal voltage (II/2)        | 320 V   |
| Rated surge voltage (II/2)    | 2.5 kV  |
| Rated current                 | 6 A   |
| Legend (ratings)              | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### Ratings per UL

| Approvals per                  | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 150 V   |
| Rated current UL (Use Group B) | 4 A     |

### Ratings per CSA

| Approvals per                   | CSA   |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 150 V |
| Rated current CSA (Use Group B) | 4 A   |

### Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 5 |
| Total number of potentials | 5 |
| Number of connection types | 1 |
| Number of levels           | 1 |

### Connection 1

|   |  |
|---|--|
| Connection technology                           | CAGE CLAMP®                                  |
| Actuation type                                  | Operating tool                               |
| Actuation direction 1                           | Operation parallel to conductor entry        |
| Actuation direction 2                           | Operation perpendicular to conductor entry   |
| Solid conductor                                 | 0.08 ... 0.5 mm <sup>2</sup> / 28 ... 20 AWG |
| Fine-stranded conductor                         | 0.08 ... 0.5 mm <sup>2</sup> / 28 ... 20 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 0.34 mm <sup>2</sup>                |

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|   |                                  |
|---|----------------------------------|
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 0.34 mm <sup>2</sup>    |
| Strip length                                      | 5 ... 6 mm / 0.2 ... 0.24 inches |
| Pole number                                       | 5                                |
| Conductor entry direction to mating direction     | 0°                               |

### Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 2.5 mm / 0.098 inches  |
| Width       | 15 mm / 0.591 inches   |
| Height      | 11.8 mm / 0.465 inches |
| Depth       | 20.3 mm / 0.799 inches |

### Mechanical Data

|                          |     |
|--------------------------|-----|
| Variable coding          | Yes |
| Anti-rotation protection | Yes |

### Plug-in connection

|                                      |                     |
|--------------------------------------|---------------------|
| Contact type (pluggable connector)   | Male connector/plug |
| Connector (connection type)          | for conductor       |
| Mismating protection                 | Yes                 |
| Plugging without loss of pin spacing | No                  |
| Locking of plug-in connection        | none                |

### Material data

|                             |  |
|-----------------------------|--|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | light gray   |
| Material group              | I  |
| Insulation material         | Polyamide (PA66)   |
| Flammability class per UL94 | V0   |
| Clamping spring material    | Chrome-nickel spring steel (CrNi)                        |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                   |
| Contact plating             | Tin  |
| Fire load                   | 0.052 MJ   |
| Weight                      | 2.6 g  |

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

## 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           | 27-44-03-09            |
| eCl@ss 9.0            | 27-44-03-09            |
| ETIM 8.0              | EC002638               |
| ETIM 7.0              | EC002638               |
| ECCN                  | NO DATA                |
| PU (SPU)              | 100 pcs                |
| Packaging type        | box                    |
| Country of origin     | PL                     |
| GTIN                  | 4044918849555          |
| Customs tariff number | 85366930000            |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Logo   | Approval                            | Additional Approval Text | Certificate name |
|--|-------------------------------------|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V.     | EN 61984                 | 2169534.01       |
|  | CCA<br>DEKRA Certification B.V.     | IEC 61984                | NL-31141         |
|  | CSA<br>DEKRA Certification B.V.     | C22.2                    | 1465035          |
|  | UL<br>UL International Germany GmbH | UL 1977                  | E45171           |

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UL  
Underwriters Laboratories Inc.




UL 1059

E45172




## Declarations of conformity and manufacturer's declarations

| Logo   | Approval                      | Additional Approval Text | Certificate name |
|--|-------------------------------|--------------------------|------------------|
|  | Railway<br>WAGO GmbH & Co. KG | -                        | Railway Ready    |

## Approvals for marine applications

| Logo  | Approval                           | Additional Approval Text | Certificate name         |
|---|------------------------------------|--------------------------|--------------------------|
|     | ABS<br>American Bureau of Shipping | -                        | 19-<br>HG1869876-<br>PDA |
|    | DNV<br>DNV GL SE                   | -                        | TAE000016Z               |
|  | LR<br>Lloyds Register              | IEC 61984                | 96/20035<br>(E5)         |

## Counterpart













|  |  |  |
|--|--|--|
|  | <b>Item no.733-105</b><br>1-conductor female connector; CAGE CLAMP®; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 5-pole; 100% protected against mismatching; 0,50 mm <sup>2</sup> ; light gray                                 | <a href="http://www.wago.com/733-105">www.wago.com/733-105</a>                 |
|  | <b>Item no.733-105/010-000</b><br>1-conductor female connector; CAGE CLAMP®; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 5-pole; 100% protected against mismatching; Gold-plated contacts; 0,50 mm <sup>2</sup> ; light gray   | <a href="http://www.wago.com/733-105/010-000">www.wago.com/733-105/010-000</a> |
|  | <b>Item no.733-105/037-000</b><br>1-conductor female connector; CAGE CLAMP®; 0.5 mm <sup>2</sup> ; Pin spacing 2.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; 0,50 mm <sup>2</sup> ; light gray | <a href="http://www.wago.com/733-105/037-000">www.wago.com/733-105/037-000</a> |

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## Optional accessories

| Coding   |   |  |
|--|---|--|
| Coding   |   |  |
|    | <b>Item no.: 733-330</b><br>Coding key; snap-on type; white   | <a href="http://www.wago.com/733-330">www.wago.com/733-330</a> |
|    | <b>Item no.: 733-331</b><br>Coding key; snap-on type; black   | <a href="http://www.wago.com/733-331">www.wago.com/733-331</a> |
| Testing and measuring  |   |  |
| Testing accessories  |   |  |
|    | <b>Item no.: 735-500</b><br>WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm <sup>2</sup> | <a href="http://www.wago.com/735-500">www.wago.com/735-500</a> |
| Ferrule  |   |  |
| Ferrule  |   |  |
|     | <b>Item no.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                      | <a href="http://www.wago.com/216-132">www.wago.com/216-132</a> |
|     | <b>Item no.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored                      | <a href="http://www.wago.com/216-131">www.wago.com/216-131</a> |
|     | <b>Item no.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                      | <a href="http://www.wago.com/216-152">www.wago.com/216-152</a> |
|   | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                      | <a href="http://www.wago.com/216-151">www.wago.com/216-151</a> |
|   | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow                                | <a href="http://www.wago.com/216-301">www.wago.com/216-301</a> |
|   | <b>Item no.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow                                | <a href="http://www.wago.com/216-321">www.wago.com/216-321</a> |
|   | <b>Item no.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise                       | <a href="http://www.wago.com/216-322">www.wago.com/216-322</a> |
|   | <b>Item no.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise                       | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |
| Strain relief  |   |  |
| Strain relief plate  |   |  |
|  | <b>Item no.: 734-128</b><br>Strain relief plate; for female and male connectors; 12.5 mm wide; 1 part; Pin spacing 3.5 mm; light gray               | <a href="http://www.wago.com/734-128">www.wago.com/734-128</a> |
| Tool   |   |  |
| Operating tool   |   |  |

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**Item no.: 210-251**  
Operating tool; for MCS MICRO and MINI with CAGE CLAMP® connection; yellow

[www.wago.com/210-251](http://www.wago.com/210-251)



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

[www.wago.com/210-719](http://www.wago.com/210-719)



**Item no.: 233-332**  
Operating tool; made of insulating material; white

[www.wago.com/233-332](http://www.wago.com/233-332)



**Item no.: 233-331**  
Operating tool; insulated; yellow

[www.wago.com/233-331](http://www.wago.com/233-331)



**Item no.: 233-335**  
Operating tool; green

[www.wago.com/233-335](http://www.wago.com/233-335)



**Item no.: 733-191**  
Operating tool; made of insulating material; 1-way; loose; yellow

[www.wago.com/733-191](http://www.wago.com/733-191)



**Item no.: 733-130**  
Operating tool; made of insulating material; 1-way; loose; white

[www.wago.com/733-130](http://www.wago.com/733-130)

## Downloads

### Documentation

#### Additional Information

|   |            |               |          |
|---|------------|---------------|----------|
| Technical Section<br>Technical explanations | 2019 Apr 3 | pdf<br>2.1 MB | Download |
|---|------------|---------------|----------|

### CAD/CAE-Data

#### CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 733-205 | URL | Download |
|----------------------|-----|----------|

#### CAE data

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 733-205 | URL | Download |
|---------------------------|-----|----------|

|                      |     |          |
|----------------------|-----|----------|
| ZUKEN Portal 733-205 | URL | Download |
|----------------------|-----|----------|

### Asset Administration Shell

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 733-205

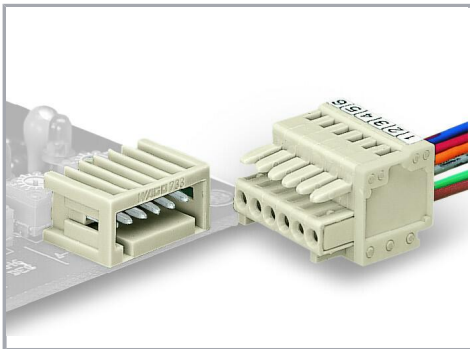
[URL](#)

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1-conductor male connector; CAGE CLAMP®; 0,5 mm<sup>2</sup>; Pin spacing 2.5 mm; 5-pole;  
100% protected against mismatching; 0,50 mm<sup>2</sup>; light gray

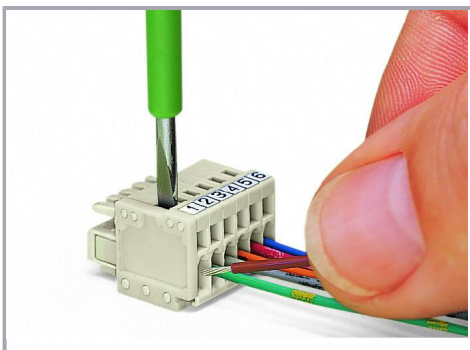
## Installation Notes

### Mismatching protection

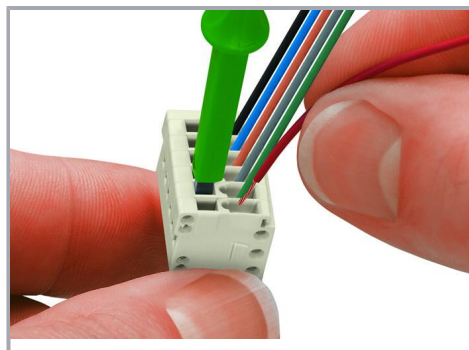


Male headers and female connectors are 100% protected against mismatching. Only mating halves with the same pole number can be connected.

### Conductor termination



Inserting conductor via (2.5 x 0.4) mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



Conductor termination via screwdriver (233-335) – parallel to CAGE CLAMP® actuation

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

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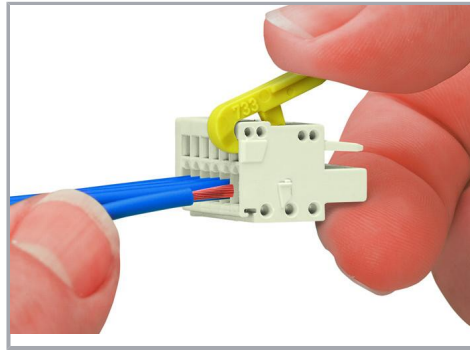
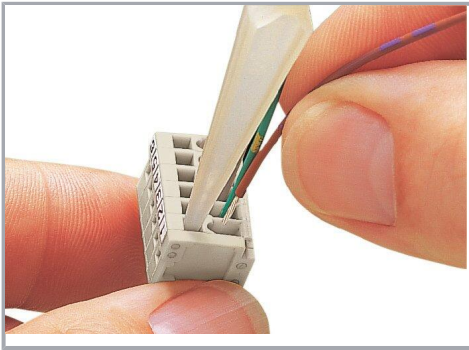
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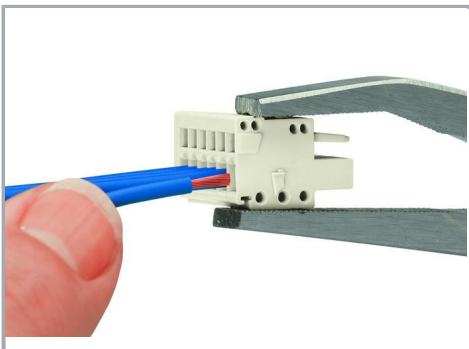
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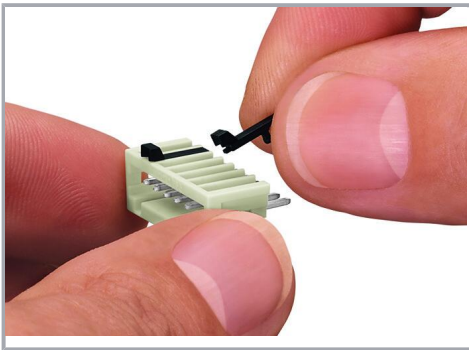


Conductor termination via operating tool (733-191)



Conductor termination via operating tool (210-251)

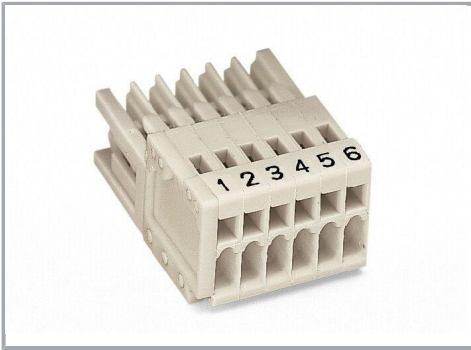
### Coding



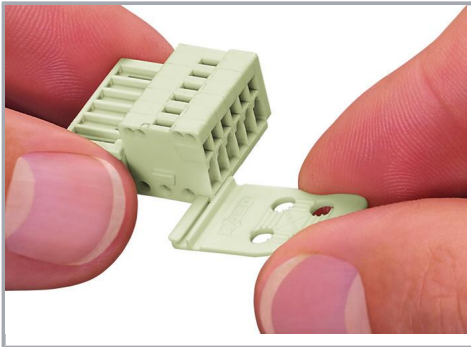
Coding a male header – fitting coding key(s).

### Marking

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

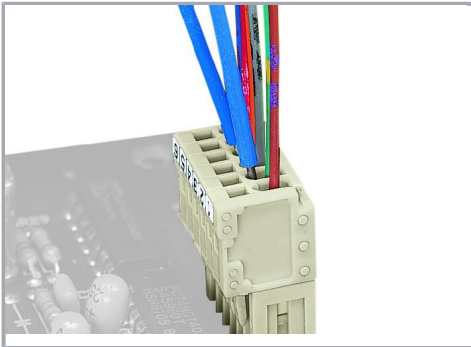


#### Strain relief



Strain relief plates for factory or in-the-field assembly

#### Testing



Testing via 1 mm Ø test pin (735-500), touch contact.

#### Product family

**MCS MICRO**

[Show all products from the family](#)

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