

Data sheet | Item number: 733-210

1-conductor male connector; 100% protected against mismatching; 0.5 mm²;
Pin spacing 2.5 mm; 10-pole; 0,50 mm²; light gray

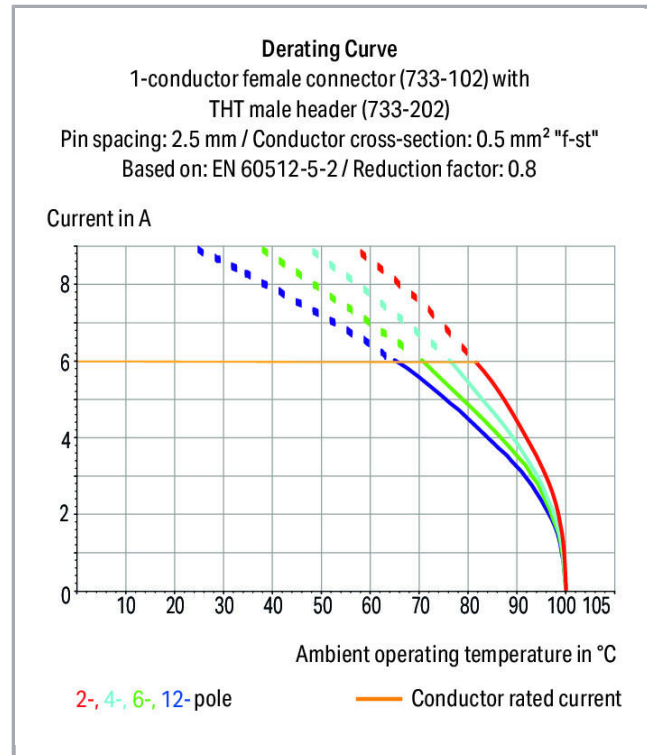
www.wago.com/733-210



RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)

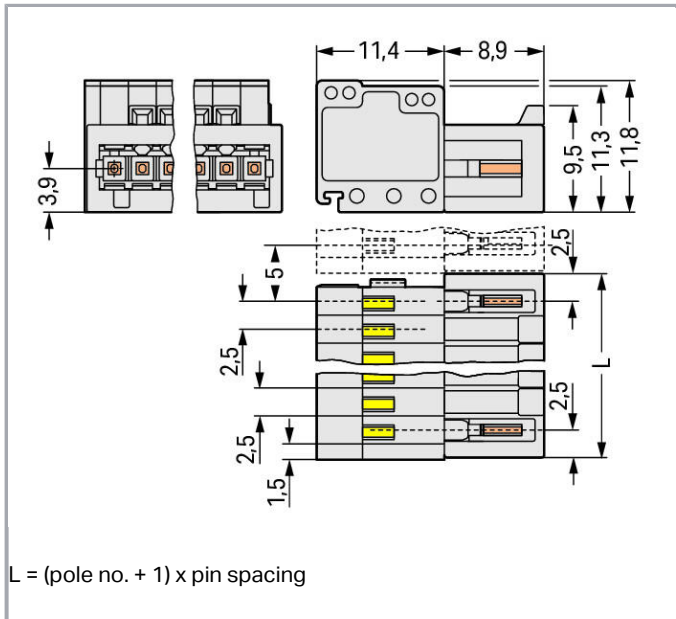
Color:



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

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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 via coding fingers

Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

Data

Electrical data

Ratings per IEC/EN 60664-1

| Ratings per | IEC/EN 60664-1 |
|---------------------------------|----------------|
| Rated 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 |
| Rated voltage (II / 2) | 320 V |

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| | |
|--------------------------------|--|
| Rated impulse voltage (II / 2) | 2.5 kV |
| Rated current | 6 A |
| Legend (ratings) | (III / 2) \triangleq Overvoltage category III / Pollution degree 2 |

Approvals per UL 1059

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

Approvals per CSA

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

Connection data

| | |
|---|--|
| Connection technology | CAGE CLAMP® |
| Actuation type | Operating tool |
| Solid conductor | 0,08 ... 0,5 mm ² / 28 ... 20 AWG |
| Fine-stranded conductor | 0,08 ... 0,5 mm ² / 28 ... 20 AWG |
| Fine-stranded conductor with ferrule with plastic collar | 0,25 ... 0,34 mm ² |
| Fine-stranded conductor with ferrule without plastic collar | 0,25 ... 0,34 mm ² |
| Strip length | 5 ... 6 mm / 0.2 ... 0.24 inch |
| No. of poles | 10 |
| Total number of connection points | 10 |
| Total number of potentials | 10 |
| Number of connection types | 1 |
| Number of levels | 1 |
| Conductor entry direction to mating direction | 0° |

Geometrical Data

| | |
|-------------|----------------------|
| Pin spacing | 2,5 mm / 0.098 inch |
| Width | 27,5 mm / 1.083 inch |
| Height | 11,8 mm / 0.465 inch |
| Depth | 20,3 mm / 0.799 inch |

Plug connection

| | |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
|------------------------------------|---------------------|

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

| | |
|---------------------------|----------------|
| Connector connection type | for conductors |
| Mismating protection | Yes |

Material Data

| | |
|-----------------------------|--|
| Color | light gray |
| Material group | I |
| Insulating material | Polyamide 66 (PA 66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact plating | tin-plated |
| Fire load | 0.097 MJ |
| Weight | 4.9 g |

Environmental Requirements



| | |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +100 °C |
|-------------------------|-----------------|

Commercial data

| | |
|--------------------|------------------------|
| Product Group | 3 (Multi Conn. System) |
| Packaging type | BOX |
| Country of origin | PL |
| GTIN | 4044918849609 |
| Customs Tariff No. | 85366990990 |




Approvals / Certificates

Country specific Approvals



| Logo | Approval | Additional Approval Text | Certificate name |
|--|---------------------------------|--------------------------|------------------|
| | CCA DEKRA Certification B.V. | IEC 61984 | NL-31141 |
|  | CCA DEKRA Certification B.V. | EN 61984 | 2169534.01 |
|  | CSA DEKRA Certification B.V. | C22.2 | 1465035 |

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



Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|--------------------------|--------------------------|
|  | ABS American Bureau of Shipping | - | 19- HG1869876- PDA |
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE000016Z |
|  | LR Lloyds Register | IEC 61984 | 96/20035 (E5) |

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|---------------------|
|  | UL UL International Germany GmbH | UL 1977 | E45171 |
|  | UR Underwriters Laboratories Inc. | UL 1059 | 20190122- E45172 |

Counterpart

| | | |
|--|--|--|
|  | Item no.733-110 1-conductor female plug; 100% protected against mismatching; 0.5 mm ² ; Pin spacing 2.5 mm; 10-pole; 0,50 mm ² ; light gray | www.wago.com/733-110 |
|  | Item no.733-110/037-000 1-conductor female plug; 100% protected against mismatching; Locking lever; 0.5 mm ² ; Pin spacing 2.5 mm; 10-pole; 0,50 mm ² ; light gray | www.wago.com/733-110/037-000 |




Compatible products

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

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ferrule

| | | |
|--|--|--|
| | Item no.: 216-131 Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-131 |
|  | Item no.: 216-132 Ferrule; Sleeve for 0.34 mm ² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-132 |
|  | Item no.: 216-151 Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-151 |
| | Item no.: 216-152 Ferrule; Sleeve for 0.34 mm ² / AWG 24; uninsulated; electro-tin plated | www.wago.com/216-152 |
| | Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-301 |
|  | Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green | www.wago.com/216-302 |
| | Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-321 |
| | Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green | www.wago.com/216-322 |





Coding

| | | |
|--|---|--|
| | Item no.: 733-330 Coding key; snap-on type; white | www.wago.com/733-330 |
| | Item no.: 733-331 Coding key; snap-on type; black | www.wago.com/733-331 |

Test Accessories

| | | |
|--|--|--|
|  | Item no.: 735-500 Test pin; 1 mm Ø; with solder connection for test wire | www.wago.com/735-500 |
|--|--|--|

tools

| | | |
|--|--|--|
|  | Item no.: 210-251 Operating tool; for MCS MICRO & MINI with CAGE CLAMP® connection; yellow | 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 |
|  | Item no.: 233-331 Operating tool; insulated; yellow | www.wago.com/233-331 |
|  | Item no.: 233-332 Operating tool; made of insulating material | www.wago.com/233-332 |

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



Item no.: 233-335
Operating tool

www.wago.com/233-335



Item no.: 733-130
Operating tool; loose; natural

www.wago.com/733-130



Item no.: 733-191
Operating tool; loose; yellow

www.wago.com/733-191

Strain relief plate



Item no.: 734-129
Strain relief plate; light gray

www.wago.com/734-129

Downloads

Documentation

Additional Information

| | | | |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf 3.6 MB | Download |
|------------------------|-------------|---------------|----------|

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 733-210 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 733-210 | URL | Download |
|---------------------------|-----|----------|

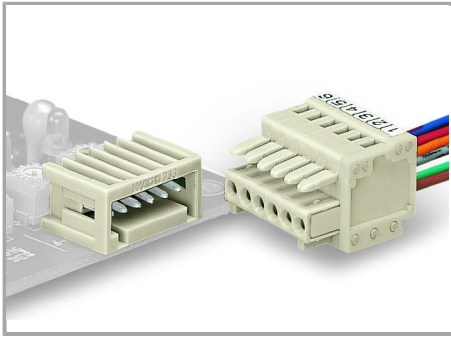
Installation Notes

Protected Against Mismatching

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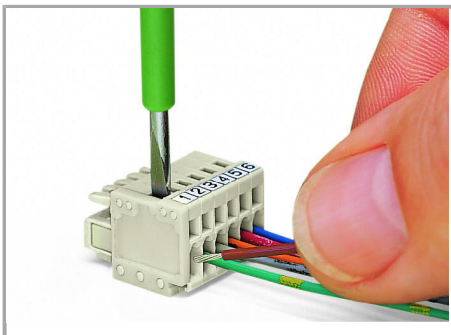
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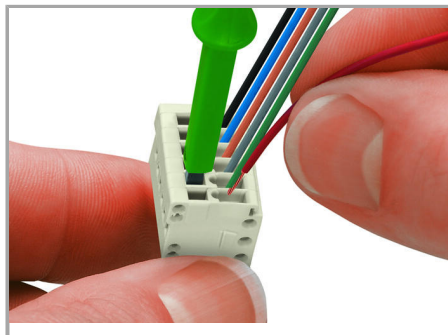
Male headers and female connectors are 100 % protected against mismatching.

Only mating halves with the same pole number can be connected.

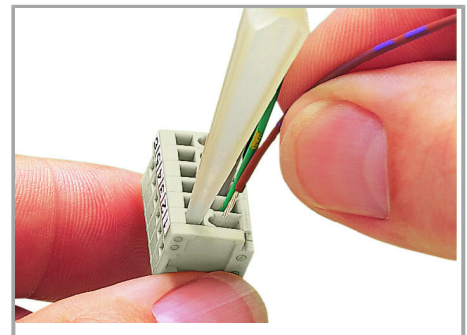
Inserting a conductor



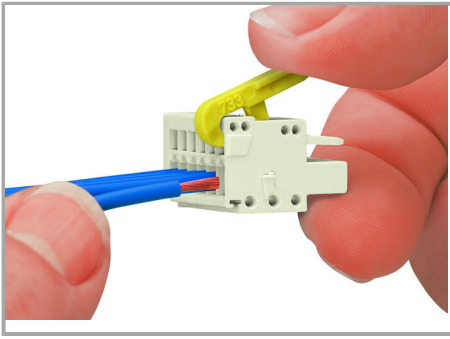
Inserting a conductor via (2.5 x 0.4) mm screwdriver. Operation is performed perpendicular to conductor entry.



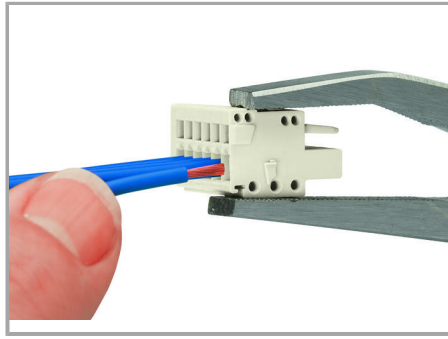
Inserting a conductor via screwdriver (233-335) – CAGE CLAMP® actuation parallel to conductor entry.



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

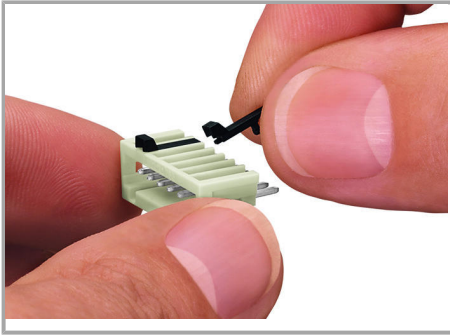


Inserting a conductor via 733-191 Operating Lever.

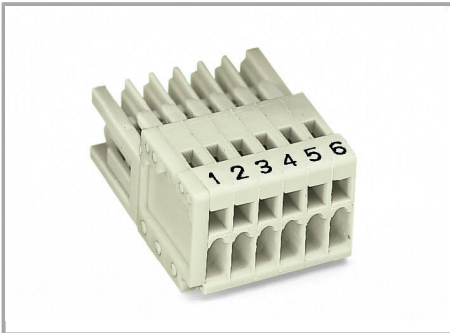


Inserting a conductor via 210-251 Operating Tool.

Coding

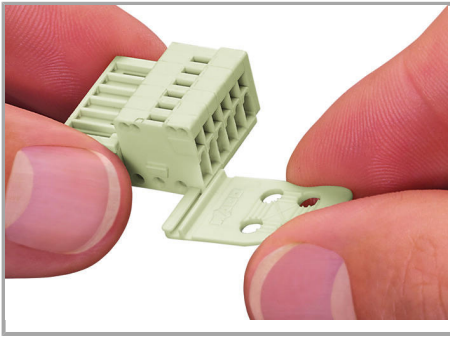


Coding a male header – fitting coding key(s).



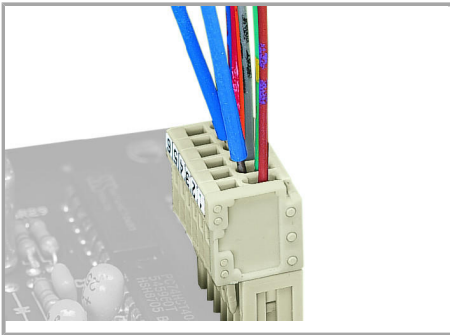
Assembly

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



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

[Learn more about the product family.](#)

[Show all products from the family](#)

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