

Data sheet | Item number: 733-110/037-000

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

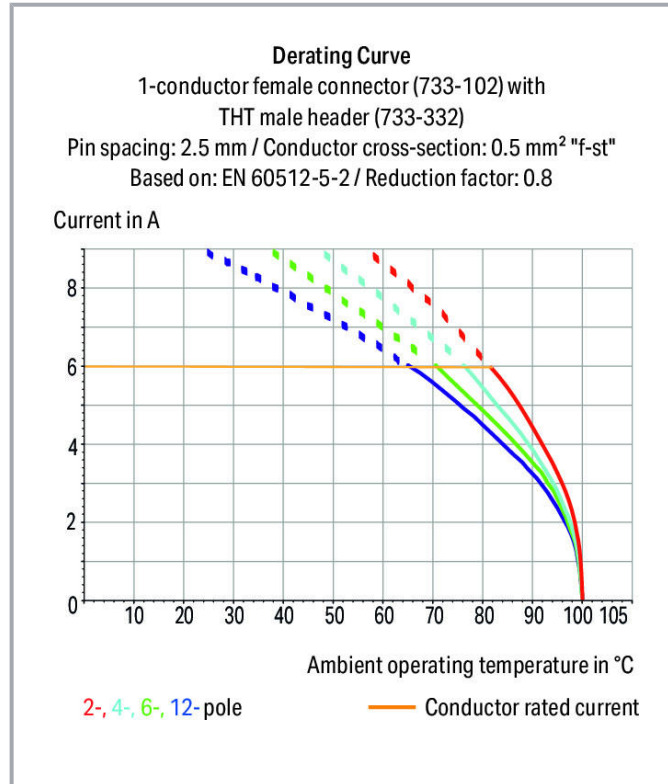


www.wago.com/733-110_037-000



i Picture differs from the item.

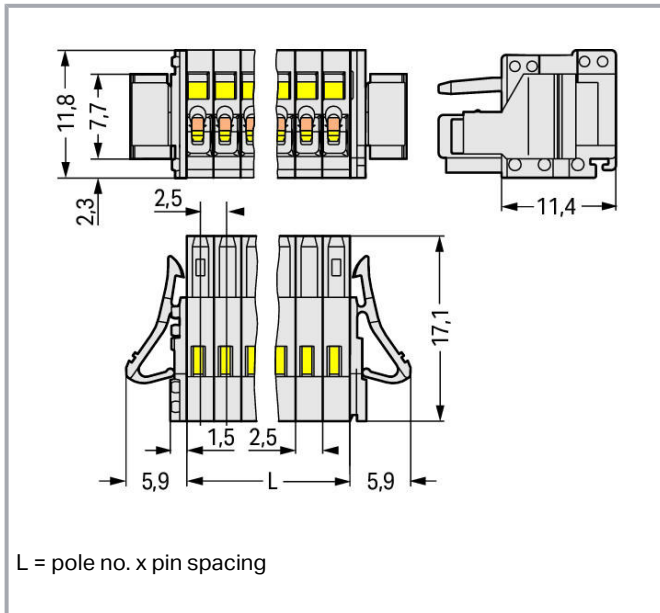
Color:



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
- Strain relief plates for factory and field assembly
- 100% protected against mismatching
- Coding option available

Safety information 1:

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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Data

Electrical data

Ratings per IEC/EN

| Ratings per | IEC/EN 60664-1 |
|-----------------------------|----------------|
| Nominal voltage (III/3) | 100 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |

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| | |
|----------------------------|--|
| Nominal voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| Rated current | 6 A |
| Legend (ratings) | (III / 2) \triangleq 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 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 insulated ferrule | 0.25 ... 0.34 mm ² |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 0.34 mm ² |
| Strip length | 5 ... 6 mm / 0.2 ... 0.24 inch |
| Pole No. | 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° |

Physical data

| | |
|-------------|----------------------|
| Pin spacing | 2.5 mm / 0.098 inch |
| Width | 36.8 mm / 1.449 inch |
| Height | 11.8 mm / 0.465 inch |
| Depth | 17.1 mm / 0.673 inch |

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Plug-in connection

| | |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type) | for conductor |
| Mismating protection | Yes |
| Locking of plug-in connection | locking lever |

Material data

| | |
|-----------------------------|-----------------------------------|
| 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 | Copper alloy |
| Contact plating | tin-plated |
| Fire load | 0.088 MJ |
| Weight | 4.7 g |

Environmental requirements


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

Commercial data

| | |
|-----------------------|------------------------|
| Product Group | 3 (Multi Conn. System) |
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4045454215668 |
| Customs tariff number | 85366990990 |

Approvals / Certificates

Ship Approvals


| Logo | Approval | Additional Approval Text | Certificate name |
|---|----------------------------------|--------------------------|------------------|
|  | BV Bureau Veritas S.A. | IEC 60998 | 11915/D0 BV |

UL-Approvals




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| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|---------------------|
|  | UR Underwriters Laboratories Inc. | UL 1059 | E45172- 19950922 |

Counterpart


| | | |
|--|--|--|
|  | Item no.733-210 1-conductor male connector; 100% protected against mismatching; 0.5 mm ² ; Pin spacing 2.5 mm; 10-pole; 0,50 mm ² ; light gray | www.wago.com/733-210 |
|  | Item no.733-340 THT male header; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 2.5 mm; 10-pole; light gray | www.wago.com/733-340 |
|  | Item no.733-370 THT male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 2.5 mm; 10-pole; light gray | www.wago.com/733-370 |

Compatible products

Marking accessories

| | |
|---|--|
| Item no.: 210-331/250-202 Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white | www.wago.com/210-331/250-202 |
| Item no.: 210-331/250-204 Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white | www.wago.com/210-331/250-204 |
| Item no.: 210-331/250-206 Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white | www.wago.com/210-331/250-206 |
| Item no.: 210-331/250-207 Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white | www.wago.com/210-331/250-207 |

Strain relief plate
















| | |
|--|--|
|  Item no.: 734-129 Strain relief plate; light gray | www.wago.com/734-129 |
|--|--|

check

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

ferrule

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

| | | |
|---|--|--|
|  | Item no.: 216-131 Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated; silver-colored | 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 |
| 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; white | www.wago.com/233-332 |
|  | Item no.: 233-335 Operating tool; yellow | 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 |

Downloads

Documentation

Additional Information

| | | | |
|------------------------|------------|---------------|----------|
| Technical explanations | 2019 Apr 3 | pdf 2.0 MB | Download |
|------------------------|------------|---------------|----------|

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CAD/CAE-Data

CAD data

| | | |
|------------------------------|---------------------|--------------------------|
| 2D/3D Models 733-110/037-000 | URL | Download |
|------------------------------|---------------------|--------------------------|

CAE data

| | | |
|-----------------------------------|---------------------|--------------------------|
| EPLAN Data Portal 733-110/037-000 | URL | Download |
|-----------------------------------|---------------------|--------------------------|

| | | |
|------------------------------|---------------------|--------------------------|
| ZUKEN Portal 733-110/037-000 | URL | Download |
|------------------------------|---------------------|--------------------------|

| | | |
|-----------------------------------|---------------------|--------------------------|
| EPLAN Data Portal 733-110/037-000 | URL | Download |
|-----------------------------------|---------------------|--------------------------|

Environmental Product Compliance

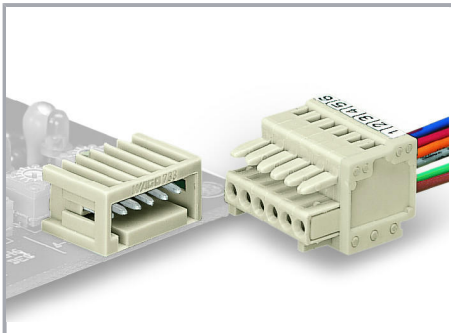
Compliance Search

| | | |
|--|---------------------|--------------------------|
| Environmental Product Compliance 733-110/037-000 | URL | Download |
|--|---------------------|--------------------------|

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

Installation Notes

Mismatching protection

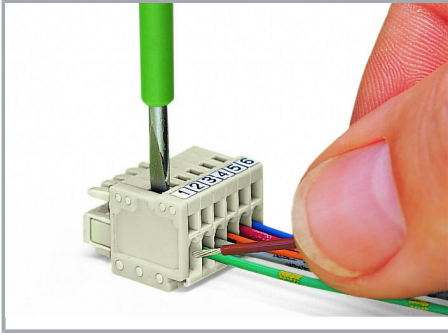


Male headers and female connectors are 100% protected against mismatching.

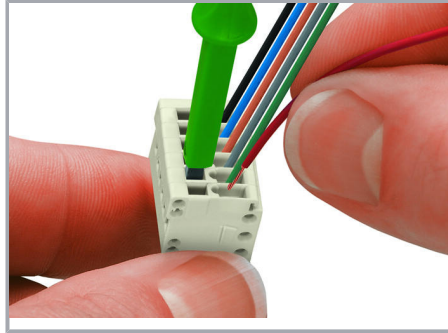
Only mating halves with the same pole number can be connected.

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

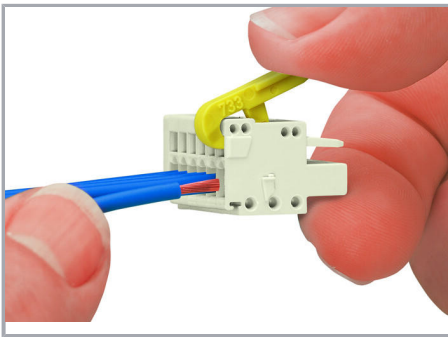
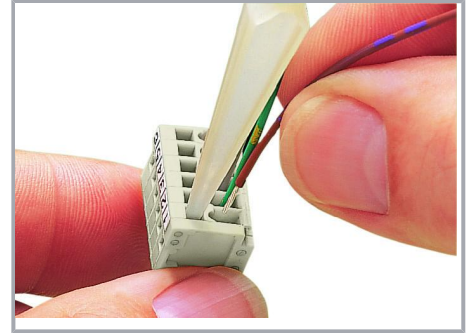
Conductor termination



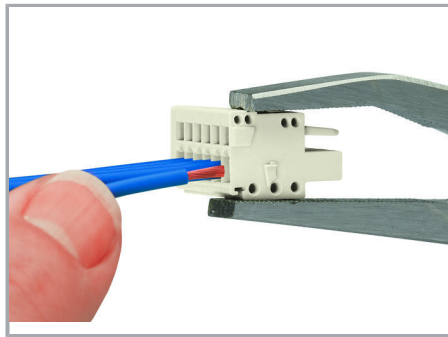
Inserting conductor via (2.5 x 0.4) mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



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

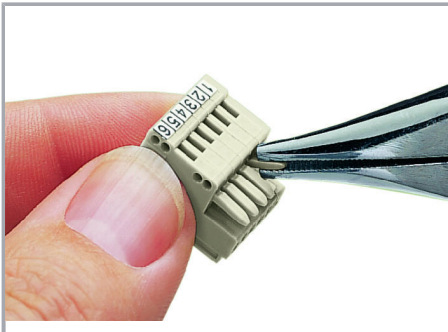


Conductor termination via operating tool (210-251)



Conductor termination via operating tool (210-251)

Coding

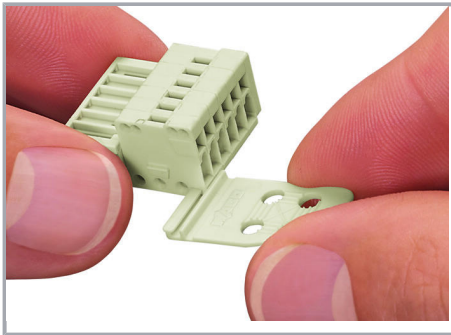


Coding a female connector – removing coding finger(s).

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

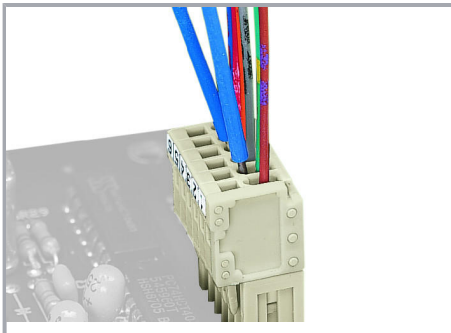


Installation



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

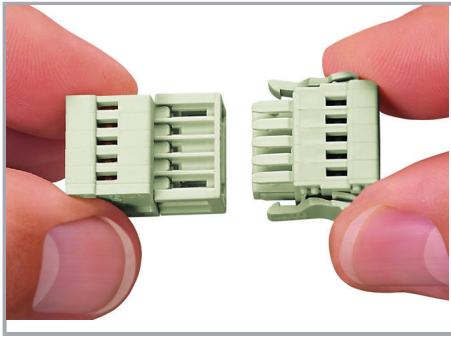
Testing



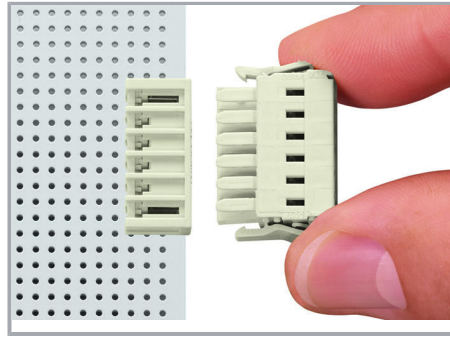
Testing via 1 mm Ø test pin (735-500), touch contact.

Locking system

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



Locking levers prevent accidental disconnection.



Locking levers prevent accidental disconnection.

Product family

MCS MICRO

[Show all products from the family](#)

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