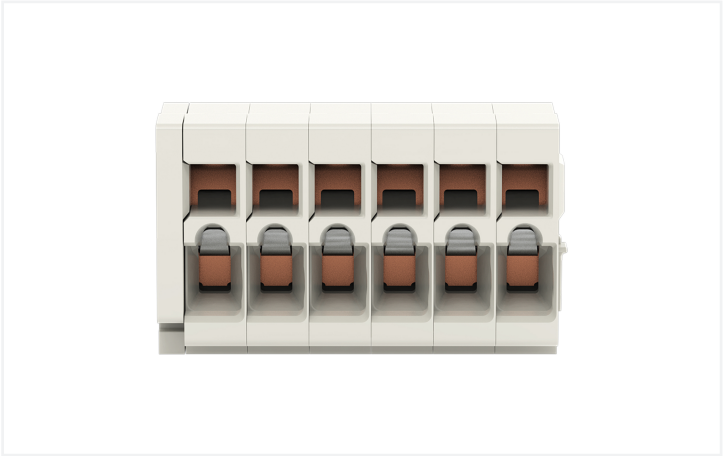
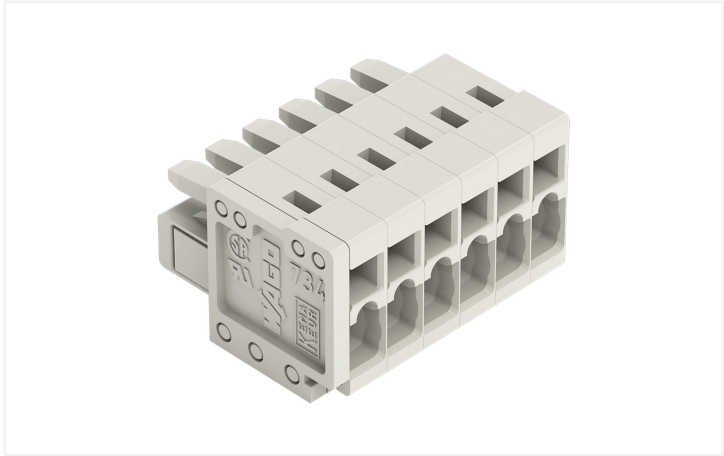


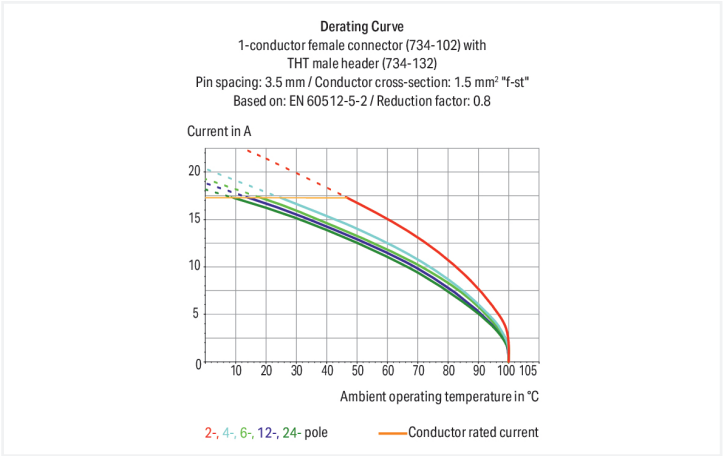
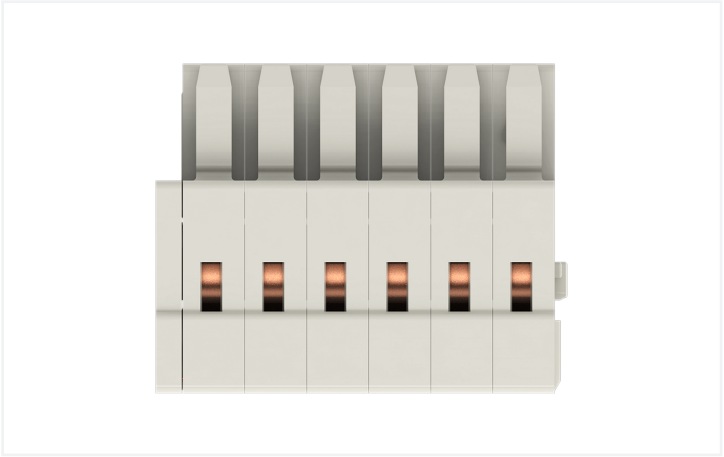
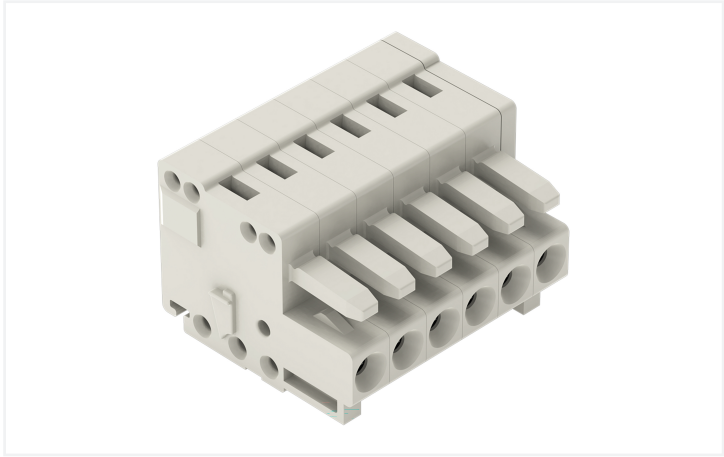
**Data Sheet | Item Number: 734-106**

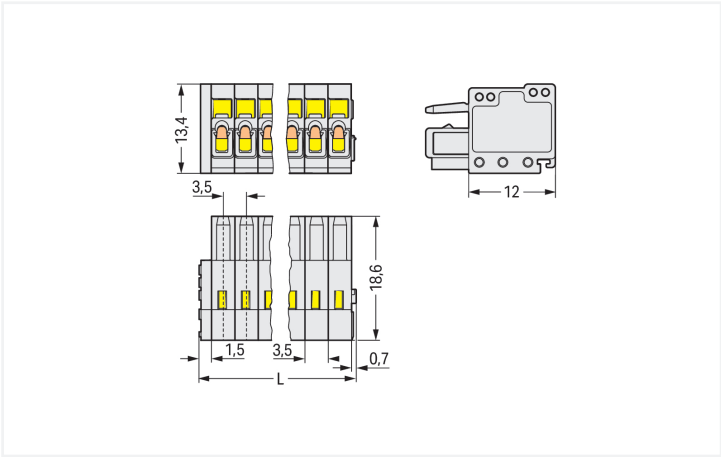
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 6-pole;  
100% protected against mismating; light gray

<https://www.wago.com/734-106>



Color: ■ light gray





Dimensions in mm  
L = (pole no. x pin spacing) + 2.2 mm

Female connector, 734 Series, operating tool

This female connector (item number 734-106) provides seamless electrical installations. Ensure that the strip lengths are between 6 and 7 mm when connecting conductors to this female connector. Featuring one conductor terminal along with CAGE CLAMP®, this connector is highly versatile. Our reliable and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. Dimensions: (23.2 x 13.4 x 18.6) mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 1.5 mm<sup>2</sup>.

Tin is used for coating the contact surfaces.

| 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>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                 |  | 160 V          | 160 V  | 320 V  |
| Rated impulse withstand voltage |  | 2.5 kV         | 2.5 kV | 2.5 kV |
| Rated current                   |  | 10 A           | 10 A   | 10 A   |
| Approvals per                   |  | UL 1059        |        |        |
| Use group                       |  | B              | C      | D      |
| Rated voltage                   |  | 300 V          | -      | 300 V  |
| Rated current                   |  | 10 A           | -      | 10 A   |
| Approvals per                   |  | CSA            |        |        |
| Use group                       |  | B              | C      | D      |
| Rated voltage                   |  | 300 V          | -      | 300 V  |
| Rated current                   |  | 10 A           | -      | 10 A   |

|             |                        |
|-------------|------------------------|
| Pin spacing | 3.5 mm / 0.138 inches  |
| Width       | 23.2 mm / 0.913 inches |
| Height      | 13.4 mm / 0.528 inches |
| Depth       | 18.6 mm / 0.732 inches |

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

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type)        | for conductor           |
| Mismatching protection             | Yes                     |

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| 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                                                                       |
| Clamping spring material           | Chrome-nickel spring steel (CrNi)                                        |
| Contact material                   | Copper alloy                                                             |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.071 MJ                                                                 |
| Weight                             | 4.6 g                                                                    |



Environmental requirements

|                         |                 |                                                                                                     |                                                     |
|-------------------------|-----------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Limit temperature range | -60 ... +100 °C | <b>Environmental Testing</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>Vibration and shock tests | DIN EN 61373 (VDE 0115-0106);2011-04                |
|                         |                 | Spectrum/Mounting location                                                                          | Service life test, Category 1, Class A/B            |
|                         |                 | Functional test with noise-like oscillations                                                        | Test passed according to Section 8 of the standard  |
|                         |                 | Frequency                                                                                           | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz    |
|                         |                 | Acceleration                                                                                        | 0.101g (highest test level used for all axes)       |
|                         |                 | Test duration per axis                                                                              | 10 min.                                             |
|                         |                 | Test directions                                                                                     | X, Y and Z axes                                     |
|                         |                 | Monitoring of contact faults and interruptions                                                      | Passed                                              |
|                         |                 | Voltage drop measurement before and after each axis                                                 | Passed                                              |
|                         |                 | Simulated service life test through increased levels of noise-like oscillations                     | Test passed according to Section 9 of the standard  |
|                         |                 | Frequency                                                                                           | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz    |
|                         |                 | Acceleration                                                                                        | 0.572g (highest test level used for all axes)       |
|                         |                 | Test duration per axis                                                                              | 5 h                                                 |
|                         |                 | Test directions                                                                                     | X, Y and Z axes                                     |
|                         |                 | Extended testing: Monitoring of contact faults and interruptions                                    | Passed                                              |
|                         |                 | Extended testing: Voltage drop measurement before and after each axis                               | Passed                                              |
|                         |                 | Shock test                                                                                          | Test passed according to Section 10 of the standard |
|                         |                 | Shock pulse form                                                                                    | Half sine                                           |
|                         |                 | Acceleration                                                                                        | 5g (highest test level used for all axes)           |
|                         |                 | Shock duration                                                                                      | 30 ms                                               |
|                         |                 | Number of shocks (per axis)                                                                         | 3 pos. und 3 neg.                                   |
|                         |                 | Test directions                                                                                     | X, Y and Z axes                                     |
|                         |                 | Extended testing: Monitoring of contact faults and interruptions                                    | Passed                                              |
|                         |                 | Extended testing: Voltage drop measurement before and after each axis                               | Passed                                              |
|                         |                 | Vibration and shock stress for rolling stock equipment                                              | Passed                                              |

Commercial data

|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| PU (SPU)              | 100 pcs                |
| Packaging type        | Box                    |
| Country of origin     | DE                     |
| GTIN                  | 4044918493017          |
| Customs tariff number | 85366990990            |



| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121409             |
| eCl@ss 10.0            | 27-44-03-09          |
| eCl@ss 9.0             | 27-44-03-09          |
| ETIM 9.0               | EC002638             |
| ETIM 10.0              | EC002638             |
| ECCN                   | NO US CLASSIFICATION |

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

| Approvals / Certificates |                                                            |
|--------------------------|------------------------------------------------------------|
| General approvals        | Declarations of conformity and manufacturer's declarations |



| Approval                             | Standard | Certificate Name |
|--------------------------------------|----------|------------------|
| CCA<br>DEKRA Certification B.V.      | EN 61984 | 2169534.02       |
| CCA<br>DEKRA Certification B.V.      | EN 61984 | nl-54190         |
| CSA<br>DEKRA Certification B.V.      | C22.2    | 1465035          |
| UL<br>Underwriters Laboratories Inc. | UL 1977  | E 45171          |



| Approval                      | Standard | Certificate Name |
|-------------------------------|----------|------------------|
| Railway<br>WAGO GmbH & Co. KG | -        | Railway Ready    |

| Approvals for marine applications |  |  |
|-----------------------------------|--|--|
|-----------------------------------|--|--|



| Approval                           | Standard  | Certificate Name  |
|------------------------------------|-----------|-------------------|
| ABS<br>American Bureau of Shipping | -         | 24-0095975-PDA    |
| DNV<br>DNV GL SE                   | -         | TAE000016Z        |
| LR<br>Lloyds Register              | IEC 61984 | 96/20035 (E5)     |
| PRS<br>Polski Rejestr Statków      | -         | TE/1095/880590/23 |



Downloads

Environmental Product Compliance

|                                          |
|------------------------------------------|
| Compliance Search                        |
| Environmental Product Compliance 734-106 |
| ↓                                        |

Documentation

|                        |
|------------------------|
| Additional Information |
| Technical Section      |
| 03.04.2019             |
| pdf                    |
| 2027.26 KB             |
| ↓                      |

CAD/CAE-Data

|                      |
|----------------------|
| CAD data             |
| 2D/3D Models 734-106 |
| ↓                    |

|                           |
|---------------------------|
| CAE data                  |
| EPLAN Data Portal 734-106 |
| ↓                         |
| ZUKEN Portal 734-106      |
| ↓                         |

1 Compatible Products

1.1 System counterpart

1.1.1 Distribution connector



**Item No.: 734-366**  
2-conductor combi strip; 100% protected against mismatching; 1.5 mm<sup>2</sup>; 6-pole; Pin spacing 3.5 mm; light gray



**Item No.: 734-366/037-000**  
2-conductor combi strip; 100% protected against mismatching; 1.5 mm<sup>2</sup>; Locking lever; 6-pole; Pin spacing 3.5 mm; light gray



**Item No.: 734-366/008-000**  
2-conductor combi strip; 100% protected against mismatching; Snap-in mounting feet; 1.5 mm<sup>2</sup>; Locking lever; 6-pole; Pin spacing 3.5 mm; light gray

1.1.2 Male connector/plug



**Item No.: 734-306/019-000**  
1-conductor male connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 6-pole; 100% protected against mismatching; clamping collar; light gray



**Item No.: 734-306/018-000**  
1-conductor male connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 6-pole; 100% protected against mismatching; DIN-35 rail/panel mounting; Snap-in mounting feet; light gray



**Item No.: 734-306**  
1-conductor male connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 6-pole; 100% protected against mismatching; light gray



**Item No.: 734-166/105-604/997-407**  
THR male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 3.5 mm; 6-pole; black



**Item No.: 734-166/105-604**  
THR male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 6-pole; black



**Item No.: 734-136/105-604/997-407**  
THR male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; in tape-and-reel packaging; Pin spacing 3.5 mm; 6-pole; black



**Item No.: 734-136/105-604**  
THR male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 6-pole; black



**Item No.: 734-406**  
THT double-deck male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 12-pole; light gray



**Item No.: 734-406/001-000**  
THT double-deck male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 12-pole; light gray



**Item No.: 734-166**  
THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 6-pole; light gray



**Item No.: 734-136/010-000**  
THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Gold-plated contacts; Pin spacing 3.5 mm; 6-pole; light gray



**Item No.: 734-136**  
THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 6-pole; light gray



1.1.2 Male connector/plug



**Item No.: 734-136/046-000**  
THT male header; 1.0 x 1.0 mm solder pin;  
straight; 100% protected against mismatching;  
Pin spacing 3.5 mm; 6-pole; light gray

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



**Item No.: 216-321**  
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-131**  
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-322**  
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-132**  
Ferrule; Sleeve for 0.34 mm² / 22 AWG; uninsulated; electro-tin plated



**Item No.: 216-221**  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



**Item No.: 216-121**  
Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-222**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-122**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-223**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-123**  
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-224**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



**Item No.: 216-124**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

1.2.2 Insulation stop

1.2.2.1 Insulation stop



**Item No.: 734-671**  
Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 8 pieces/strip; light gray

1.2.3 Marking

1.2.3.1 Marking strip



**Item No.: 210-332/350-202**  
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/350-204**  
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/350-206**  
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



1.2.4 Strain relief

1.2.4.1 Strain relief housing



**Item No.: 734-606**  
Strain relief housing; for female and male connectors; 2 parts; Pin spacing 3.5 mm; 6-pole; light gray

1.2.4.2 Strain relief plate



**Item No.: 734-128**  
Strain relief plate; for female and male connectors; 12.5 mm wide; 1 part; Pin spacing 3.5 mm; light gray

1.2.5 Test and measurement

1.2.5.1 Testing accessories



**Item No.: 735-500**  
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>

1.2.6 Tool

1.2.6.1 Operating tool



**Item No.: 734-190**  
Combination operating tool; natural



**Item No.: 734-231**  
Operating tool; black



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



**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured



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



**Item No.: 210-250**  
Operating tool; for MCS MINI and MIDI with CAGE CLAMP® connection; red



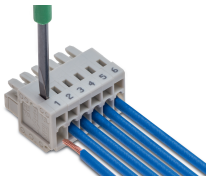
**Item No.: 734-191**  
Operating tool; made of insulating material; 1-way; loose; black



**Item No.: 734-230**  
Operating tool; made of insulating material; 1-way; white

Installation Notes

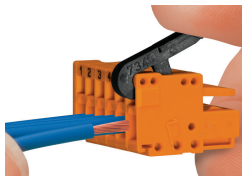
Conductor termination



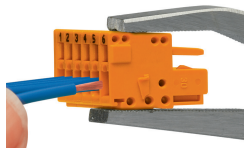
Inserting a conductor via (2.5 x 0.4) mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



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

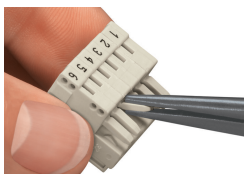


Inserting a conductor into CAGE CLAMP® unit via operating tool (734-191).



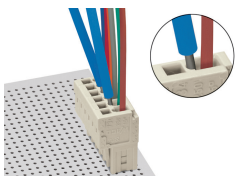
Inserting a conductor into CAGE CLAMP® unit via operating tool (210-251 or 210-250).

## Coding



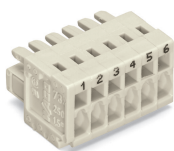
Coding a female connector – removing coding finger(s).

## Testing



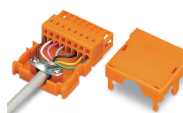
Testing via 1 mm Ø test pin (735-500) – CAGE CLAMP® connection – touch contact.

## Marking



Labeling via direct marking or self-adhesive strips.

## Installation



Strain relief housing for 734 Series Male and Female Connectors with CAGE CLAMP® connection