

Data Sheet | Item Number: 734-112/037-000

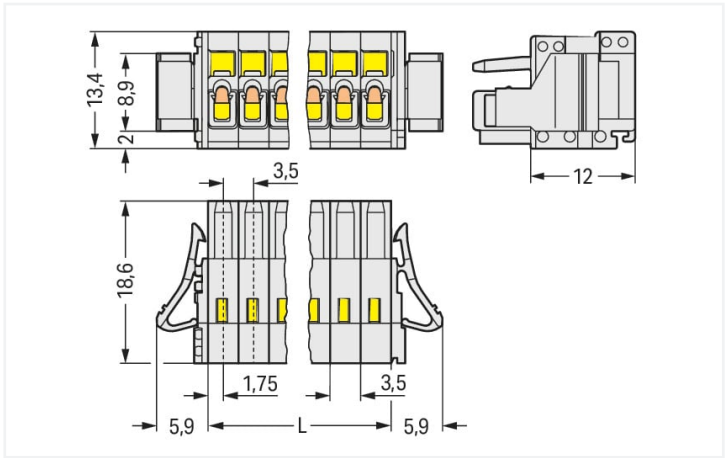
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray

<https://www.wago.com/734-112/037-000>



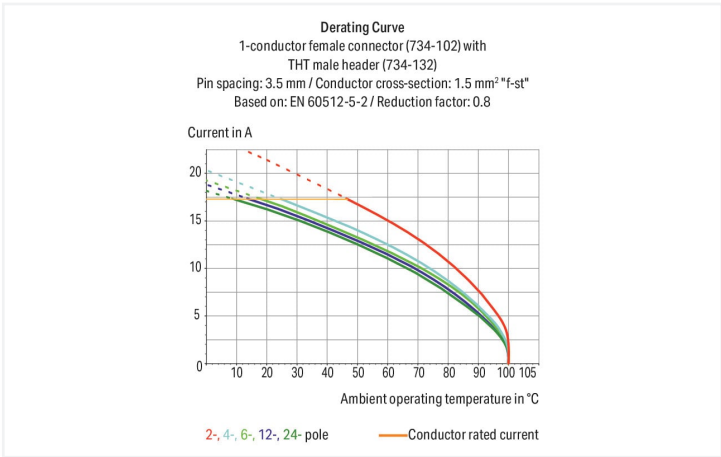
Color: ■ light gray

Similar to illustration



Dimensions in mm

L = pole no. x pin spacing



- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- Strain relief plates and housings for field assembly
- 100% protected against mismatching
- Coding option available

| 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 |        |        |        | Approvals per UL 1059 |       |   |       |
|----------------------------|--------|--------|--------|-----------------------|-------|---|-------|
| Overvoltage category       | III    | III    | II     | Use group             | B     | C | D     |
| Pollution degree           | 3      | 2      | 2      | Rated voltage         | 300 V | - | 300 V |
| Nominal voltage            | 160 V  | 160 V  | 320 V  | Rated current         | 10 A  | - | 10 A  |
| Rated surge voltage        | 2.5 kV | 2.5 kV | 2.5 kV |                       |       |   |       |
| Rated current              | 10 A   | 10 A   | 10 A   |                       |       |   |       |

| Approvals per CSA |       |   |       |
|-------------------|-------|---|-------|
| Use group         | B     | C | D     |
| Rated voltage     | 300 V | - | 300 V |
| Rated current     | 10 A  | - | 10 A  |

Connection data

|                            |    |                                                   |                                                                                                                                  |
|----------------------------|----|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Connection points          | 12 | Connection 1                                      |                                                                                                                                  |
| Total number of potentials | 12 | Connection technology                             | CAGE CLAMP®                                                                                                                      |
| Number of connection types | 1  | Actuation type                                    | Operating tool                                                                                                                   |
| Number of levels           | 1  | Actuation direction 1                             | Operation parallel to conductor entry                                                                                            |
|                            |    | Actuation direction 2                             | Operation perpendicular to conductor entry                                                                                       |
|                            |    | Solid conductor                                   | 0.08 ... 1.5 mm² / 28 ... 14 AWG                                                                                                 |
|                            |    | Fine-stranded conductor                           | 0.08 ... 1.5 mm² / 28 ... 14 AWG                                                                                                 |
|                            |    | Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm²                                                                                                                 |
|                            |    | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1.5 mm²                                                                                                                 |
|                            |    | Note (conductor cross-section)                    | Terminating 1.5 mm² conductors is possible; however insulation diameter does not allow clamping units to be terminated in a row. |
|                            |    | Strip length                                      | 6 ... 7 mm / 0.24 ... 0.28 inches                                                                                                |
|                            |    | Pole number                                       | 12                                                                                                                               |
|                            |    | Conductor entry direction to mating direction     | 0°                                                                                                                               |

Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 3.5 mm / 0.138 inches  |
| Width       | 53.8 mm / 2.118 inches |
| Height      | 13.4 mm / 0.528 inches |
| Depth       | 18.6 mm / 0.732 inches |

Mechanical data

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



| 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               |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| 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                                                                                                                    |
| Fire load                   | 0.155 MJ                                                                                                               |
| Weight                      | 9.6 g                                                                                                                  |

| 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               |
| PU (SPU)              | 50 pcs                 |
| Packaging type        | Box                    |
| Country of origin     | DE                     |
| GTIN                  | 4044918493727          |
| Customs tariff number | 85366990990            |

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

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                                                                                                              |          |                  | General approvals                 |         |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|-----------------------------------|---------|---------|
|     |          |                  | UL Underwriters Laboratories Inc. | UL 1977 | E 45171 |
|                                                                                                                                                                                                                                                                                                                                                |          |                  | UR Underwriters Laboratories Inc. | UL 1059 | E45172  |
| 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          |                                   |         |         |



Declarations of conformity and manufacturer's declarations



| 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 Ship-<br>ping | -         | 19-HG1869876-PDA |
| BV<br>Bureau Veritas S.A.               | IEC 60998 | 11915/D0 BV      |
| DNV<br>DNV GL SE                        | -         | TAE000016Z       |

Downloads

Environmental Product Compliance

|                                                        |
|--------------------------------------------------------|
| Compliance Search                                      |
| Environmental Product<br>Compliance<br>734-112/037-000 |



Documentation

|                        |
|------------------------|
| Additional Information |
| Technical Section      |
| 03.04.2019             |
| pdf<br>2010.85 KB      |



CAD/CAE-Data

|                                 |
|---------------------------------|
| CAD data                        |
| 2D/3D Models<br>734-112/037-000 |



|                                      |
|--------------------------------------|
| CAE data                             |
| EPLAN Data Portal<br>734-112/037-000 |
| ZUKEN Portal<br>734-112/037-000      |



1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



**Item No.: 734-312**  
1-conductor male connector; CAGE  
CLAMP®; 1.5 mm²; Pin spacing 3.5 mm;  
12-pole; 100% protected against misma-  
ting; 1,50 mm²; light gray



**Item No.: 734-172**  
THT male header; 1.0 x 1.0 mm solder pin;  
angled; 100% protected against misma-  
ting; Pin spacing 3.5 mm; 12-pole; light  
gray



**Item No.: 734-142**  
THT male header; 1.0 x 1.0 mm solder pin;  
straight; 100% protected against misma-  
ting; Pin spacing 3.5 mm; 12-pole; light  
gray



| 1.2 Optional Accessories                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.2.1 Ferrule                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                         |
| 1.2.1.1 Ferrule                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                         |
| <br><b>Item No.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow                                                                         | <br><b>Item No.: 216-321</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow                                                                     | <br><b>Item No.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated                                                                                          | <br><b>Item No.: 216-131</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored                                                               |
| <br><b>Item No.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise                                                                | <br><b>Item No.: 216-322</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise                                                            | <br><b>Item No.: 216-132</b><br>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated                                                                                          | <br><b>Item No.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated                                                                               |
| <br><b>Item No.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white   | <br><b>Item No.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white                                                                       | <br><b>Item No.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white                                                                                      | <br><b>Item No.: 216-141</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92        |
| <br><b>Item No.: 216-101</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored                                                                | <br><b>Item No.: 216-121</b><br>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored                                                            | <br><b>Item No.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray              | <br><b>Item No.: 216-262</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray   |
| <br><b>Item No.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray                                                                         | <br><b>Item No.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray                                                                     | <br><b>Item No.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                | <br><b>Item No.: 216-102</b><br>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored                                                             |
| <br><b>Item No.: 216-122</b><br>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored                                                             | <br><b>Item No.: 216-243</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red | <br><b>Item No.: 216-263</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red                | <br><b>Item No.: 216-203</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red                                                                             |
| <br><b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red                                                                             | <br><b>Item No.: 216-103</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated                                                                            | <br><b>Item No.: 216-143</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                   | <br><b>Item No.: 216-123</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored                                                                |
| <br><b>Item No.: 216-204</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black                                                                         | <br><b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black                                                                     | <br><b>Item No.: 216-244</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black            | <br><b>Item No.: 216-264</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black |
| <br><b>Item No.: 216-284</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <br><b>Item No.: 216-124</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated                                                                          | <br><b>Item No.: 216-144</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored | <br><b>Item No.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored                                                              |

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 plate



**Item No.: 734-129**  
Strain relief plate; for female and male connectors; 25 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 0,5mm²

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



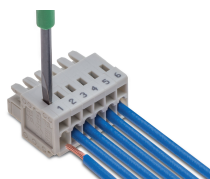
**Item No.: 734-191**  
Operating tool; made of insulating material; 1-way; loose; black



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

## Installation Notes

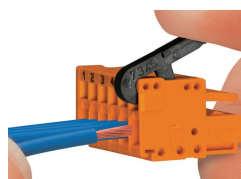
### Conductor termination



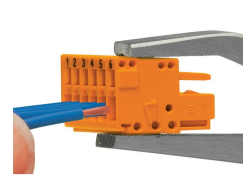
Inserting a conductor via (2.5 x 0.4) mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



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

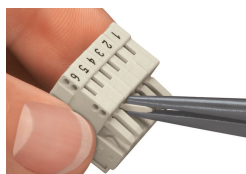


Inserting a conductor into CAGE CLAMP® unit via operating tool (734-191).



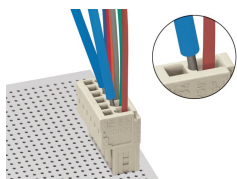
Inserting a conductor into CAGE CLAMP® unit via operating tool (210-251 or 210-250).

### Coding



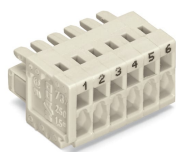
Coding a female connector – removing coding finger(s).

### Testing



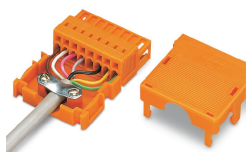
Testing via 1 mm Ø test pin (735-500) – CAGE CLAMP® connection – touch contact.

### Marking



Labeling via direct marking or self-adhesive strips.

### Installation



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