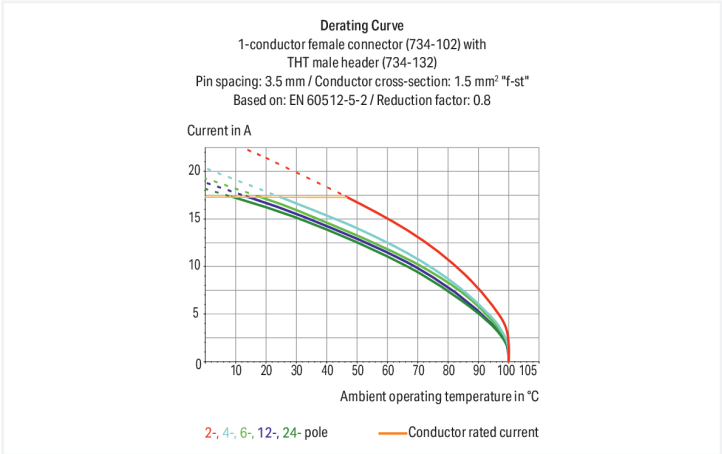


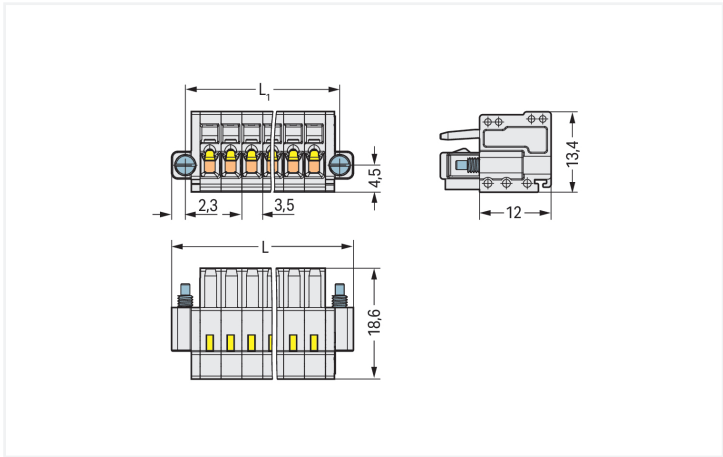
**Data Sheet | Item Number: 734-103/107-000**

1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 3-pole;  
100% protected against mismating; Screw flange; light gray

<https://www.wago.com/734-103/107-000>



Color: ■ light gray



Dimensions in mm  
 $L = (\text{pole no.} \times \text{pin spacing}) + 9.5 \text{ mm}$   
 $L1 = (\text{pole no.} \times \text{pin spacing}) + 4.9 \text{ mm}$

Female connector, 734 Series, light gray

Our female connector (item number 734-103/107-000) is designed for seamless electrical installations. Strip lengths must be between 6 and 7 mm when connecting conductors to this female connector. This product features one conductor terminal and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a reliable and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The dimensions are (20 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 mm² to 1.5 mm².

The contact surface is coated with tin.

| 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   |

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

|                            |   |
|----------------------------|---|
| Clamping units             | 3 |
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels           | 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 ... 1.5 mm² / 28 ... 14 AWG                                                                                                 |
| Fine-stranded conductor                          | 0.08 ... 1.5 mm² / 28 ... 14 AWG                                                                                                 |
| Fine-stranded conductor; with insulated ferule   | 0.25 ... 1.5 mm²                                                                                                                 |
| Fine-stranded conductor; with uninsulated ferule | 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                                      | 3                                                                                                                                |
| Conductor entry direction to mating direction    | 0 °                                                                                                                              |

|             |                        |
|-------------|------------------------|
| Pin spacing | 3.5 mm / 0.138 inches  |
| Width       | 20 mm / 0.787 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      | Screw flange            |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| 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                          | 0.044 MJ                                                                 |
| Weight                             | 3.3 g                                                                    |

| Environmental requirements |                 |
|----------------------------|-----------------|
| Limit temperature range    | -60 ... +100 °C |
| Processing temperature     | -35 ... +60 °C  |

| Environmental Testing                                                                               |                                                     |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 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)           |



| Environmental Testing                                                 |                   |
|-----------------------------------------------------------------------|-------------------|
| 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                  | 4045454683429          |
| 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       |
|---------------------------------------|----------|------------------------|
| CB<br>DEKRA Certification B.V.        | EN 61984 | NL-54190               |
| CSA<br>DEKRA Certification B.V.       | C22.2    | 1465035                |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984 | 71-105522              |
| UL<br>Underwriters Laboratories Inc.  | UL 1977  | E 45171                |
| UL<br>Underwriters Laboratories Inc.  | UL 1059  | UL-US-L45172-6187124-1 |



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



Approvals for marine applications



| Approval                      | Standard  | Certificate Name  |
|-------------------------------|-----------|-------------------|
| BV<br>Bureau Veritas S.A.     | IEC 60998 | 11915/E0 BV       |
| DNV<br>DNV GL SE              | -         | TAE000016Z        |
| PRS<br>Polski Rejestr Statków | -         | TE/1095/880590/23 |

Downloads

Environmental Product Compliance

| Compliance Search                                   |
|-----------------------------------------------------|
| Environmental Product Compliance<br>734-103/107-000 |



Documentation

| Additional Information |
|------------------------|
| Technical Section      |
| 03.04.2019             |
| pdf<br>2027.26 KB      |



CAD/CAE-Data

| CAD data                        |
|---------------------------------|
| 2D/3D Models<br>734-103/107-000 |



| CAE data                        |
|---------------------------------|
| ZUKEN Portal<br>734-103/107-000 |



1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug

|                                                                                                                                                                                 |                                                                                                                                                                                 |                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item No.: 734-303/109-000</b><br>1-conductor male connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 3-pole; 100% protected against mismating; Threaded flange; light gray | <b>Item No.: 734-163/108-000</b><br>THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismating; Threaded flange; Pin spacing 3.5 mm; 3-pole; light gray | <b>Item No.: 734-133/108-000</b><br>THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismating; Threaded flange; Pin spacing 3.5 mm; 3-pole; light gray |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule

|                                                                                                                                |                                                                                                                                          |                                                                                                                                         |                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                                               |                                                         |                                                        |                                                       |
| <div><div>Item No.: 216-321</div><div>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow</div></div> | <div><div>Item No.: 216-131</div><div>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored</div></div> | <div><div>Item No.: 216-322</div><div>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise</div></div> | <div><div>Item No.: 216-132</div><div>Ferrule; Sleeve for 0.34 mm² / 22 AWG; uninsulated; electro-tin plated</div></div>                 |
|                                               |                                                         |                                                        |                                                       |
| <div><div>Item No.: 216-221</div><div>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white</div></div>   | <div><div>Item No.: 216-121</div><div>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored</div></div>  | <div><div>Item No.: 216-222</div><div>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray</div></div>            | <div><div>Item No.: 216-122</div><div>Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; silver-colored</div></div> |
|                                               |                                                         |                                                        |                                                       |
| <div><div>Item No.: 216-223</div><div>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red</div></div>       | <div><div>Item No.: 216-123</div><div>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored</div></div>    | <div><div>Item No.: 216-224</div><div>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black</div></div>            | <div><div>Item No.: 216-124</div><div>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated</div></div>                  |

1.2.2 Insulation stop

1.2.2.1 Insulation stop

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

1.2.3 Marking

1.2.3.1 Marking strip

|                                                                                                                                                                                                               |                                                                                                                                                                                                                |                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                            |                                                                                                                             |                                                                                                                            |
| <div><div>Item No.: 210-332/350-202</div><div>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</div></div> | <div><div>Item No.: 210-332/350-204</div><div>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</div></div> | <div><div>Item No.: 210-332/350-206</div><div>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</div></div> |

1.2.4 Strain relief

1.2.4.1 Strain relief housing

|                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                       |
| <div><div>Item No.: 734-603</div><div>Strain relief housing; for female and male connectors; 2 parts; Pin spacing 3.5 mm; 3-pole; light gray</div></div> |



1.2.4.2 Strain relief plate

**Item No.: 734-127**  
Strain relief plate; for female and male connectors; 6 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>

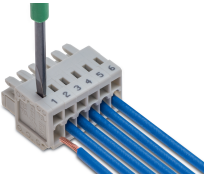
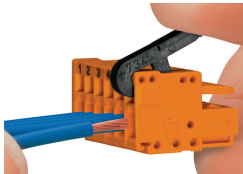
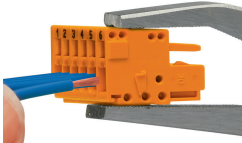
1.2.6 Tool

1.2.6.1 Operating tool

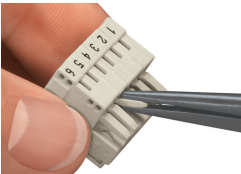
|                                                                                                                                                                                                    |                                                                                                                                                                                                |                                                                                                                                                                                              |                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>Item No.: 734-190</b><br/>Combination operating tool; natural</p>                                          |  <p><b>Item No.: 734-231</b><br/>Operating tool; black</p>                                                    |  <p><b>Item No.: 210-719</b><br/>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft</p> |  <p><b>Item No.: 210-647</b><br/>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured</p> |
|  <p><b>Item No.: 210-251</b><br/>Operating tool; for MCS MICRO and MINI with CAGE CLAMP® connection; yellow</p> |  <p><b>Item No.: 210-250</b><br/>Operating tool; for MCS MINI and MIDI with CAGE CLAMP® connection; red</p> |  <p><b>Item No.: 734-191</b><br/>Operating tool; made of insulating material; 1-way; loose; black</p>     |  <p><b>Item No.: 734-230</b><br/>Operating tool; made of insulating material; 1-way; white</p>                          |

Installation Notes

Conductor termination

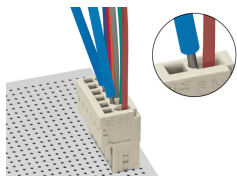
|                                                                                                                                                                                                           |                                                                                                                                                                                                      |                                                                                                                                                                       |                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Inserting a conductor via (2.5 x 0.4) mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.</p> |  <p>Inserting a conductor via (2.5 x 0.4) mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.</p> |  <p>Inserting a conductor into CAGE CLAMP® unit via operating tool (734-191).</p> |  <p>Inserting a conductor into CAGE CLAMP® unit via operating tool (210-251 or 210-250).</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Coding



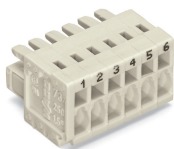
Coding a female connector – removing coding finger(s).

## Testing



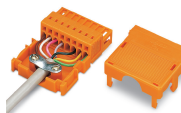
Testing via 1 mm Ø test pin (735-500) –  
CAGE CLAMP® connection – touch contact.

## Marking



Labeling via direct marking or self-adhesive  
strips.

## Installation



Strain relief housing for 734 Series Male and  
Female Connectors with CAGE CLAMP® con-  
nection