

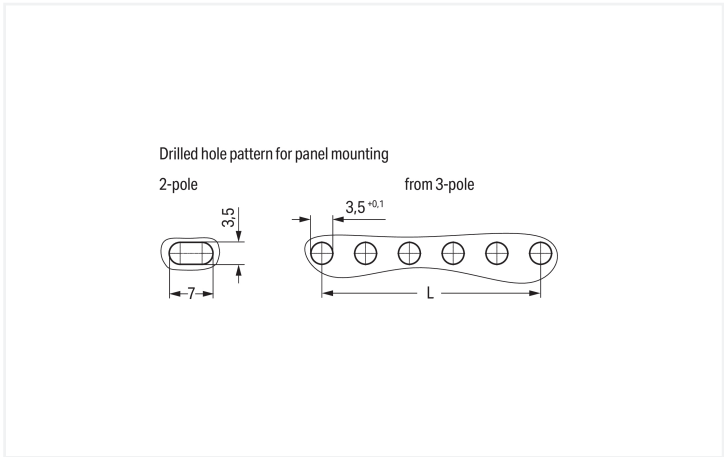
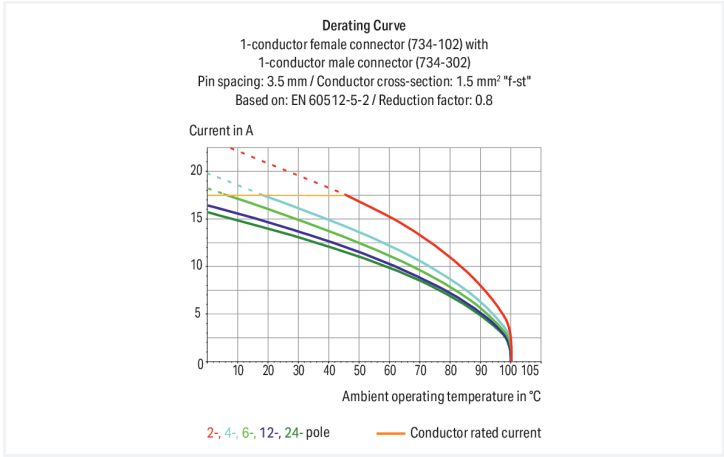
**Data Sheet | Item Number: 734-345/018-000**

1-conductor male connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 15-pole;  
100% protected against mismatching; DIN-35 rail/panel mounting; Snap-in mounting feet;  
orange

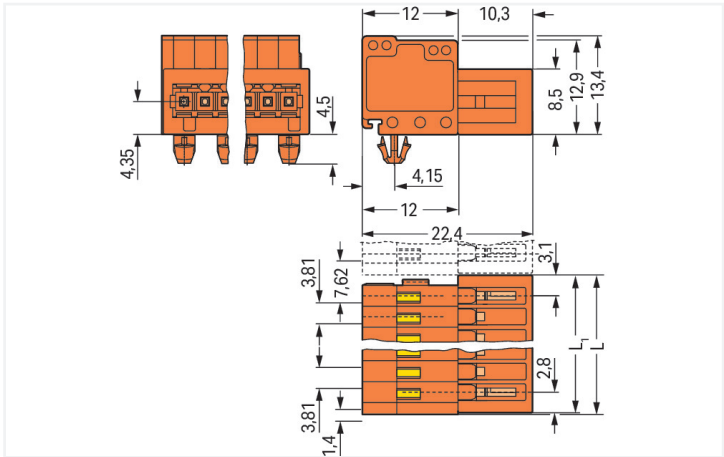
<https://www.wago.com/734-345/018-000>



Color: ■ orange



Dimensions in mm  
Even pole number:  $L = (\text{pole no.} - 2) \times \text{pin spacing}$   
Odd pole number:  $L = (\text{pole no.} - 1) \times \text{pin spacing}$



Dimensions in mm  
 $L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm} + 0.45 \text{ mm}$   
 $L_1 = L - 0.45 \text{ mm}$

Male connector, 734 Series, with 3.81 mm pin spacing

Error-free electrical installations are guaranteed with this male connector (item number 734-345/018-000). Strip lengths must be between 6 and 7 mm when connecting conductors to this male connector. Featuring one conductor terminal along with CAGE CLAMP®, this connector is highly versatile. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. Dimensions: (59.24 x 17.9 x 22.3) mm (width x height x depth). This male connector is suitable for conductor cross sections ranging from 0.08 mm² to 1.5 mm².

The contact surface is coated with tin.

| Notes              |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Information | The MCS – <i>MULTI CONNECTION SYSTEM</i> 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 impulse withstand 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                                   |                                                                                                                                  |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Clamping units                                    | 15                                                                                                                               |
| Total number of potentials                        | 15                                                                                                                               |
| Number of connection types                        | 1                                                                                                                                |
| Number of levels                                  | 1                                                                                                                                |
| Connection 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 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                                       | 15                                                                                                                               |
| Conductor entry direction to mating direction     | 0 °                                                                                                                              |

| Physical data                                                  |                         |
|----------------------------------------------------------------|-------------------------|
| Pin spacing                                                    | 3.81 mm / 0.15 inches   |
| Width                                                          | 59.24 mm / 2.332 inches |
| Height                                                         | 17.9 mm / 0.705 inches  |
| Height from the surface                                        | 13.4 mm / 0.528 inches  |
| Depth                                                          | 22.3 mm / 0.878 inches  |
| Drilled hole diameter for snap-in mounting foot with tolerance | 3.5 (+0.1) mm           |

| Mechanical data          |                                         |
|--------------------------|-----------------------------------------|
| Variable coding          | Yes                                     |
| Housing sheet thickness  | 0.6 ... 1.2 mm / 0.024 ... 0.047 inches |
| Mounting type            | Snap-in foot                            |
| Mounting type            | Panel mounting                          |
| Anti-rotation protection | Yes                                     |

| Plug-in connection                 |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type)        | for conductor       |
| Mismating protection               | Yes                 |

| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | orange                                                                   |
| Material group                     | I                                                                        |
| Insulation material (main housing) | Polyamide (PA66)                                                         |
| Flammability class per UL94        | V0                                                                       |
| Clamping spring material           | Chrome-nickel spring steel (CrNi)                                        |
| Contact material                   | Electrolytic copper (E <sub>Cu</sub> )                                   |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.242 MJ                                                                 |
| Weight                             | 13.7 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 |



| Environmental Testing                                                 |                                           |
|-----------------------------------------------------------------------|-------------------------------------------|
| 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       |               |
|-----------------------|---------------|
| PU (SPU)              | 25 pcs        |
| Packaging type        | Box           |
| Country of origin     | PL            |
| GTIN                  | 4055143544405 |
| Customs tariff number | 85366930000   |

| 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



| Approval                              | Standard | Certificate Name |
|---------------------------------------|----------|------------------|
| CB<br>DEKRA Certification B.V.        | EN 61984 | NL-54190         |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984 | 71-105522        |
| UL<br>Underwriters Laboratories Inc.  | UL 1977  | E 45171          |

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  |
|-------------------------------|-----------|-------------------|
| 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>734-345/018-000 |



Documentation

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



CAD/CAE-Data

| CAD data                        |
|---------------------------------|
| 2D/3D Models<br>734-345/018-000 |



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



**Item No.: 734-215**  
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 15-pole; 100% protected against mismating; orange



1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



**Item No.: 734-130**  
Coding key; to be snapped above top level;  
white

1.2.2 Cover

1.2.2.1 Cover



**Item No.: 734-420**  
Cover for male connectors; for 734 Series;  
IP20 protection; black

1.2.3 Ferrule

1.2.3.1 Ferrule

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

1.2.4 Marking

1.2.4.1 Marking strip

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

1.2.5 Mounting adapter

1.2.5.1 Mounting accessories



**Item No.: 209-137**  
Mounting adapter; can be used as end stop;  
6.5 mm wide; gray

1.2.6 Test and measurement

1.2.6.1 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>

1.2.7 Tool

1.2.7.1 Operating tool



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



**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

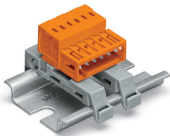


**Item No.: 210-250**  
Operating tool; for MCS MINI and MIDI with  
CAGE CLAMP® connection; red



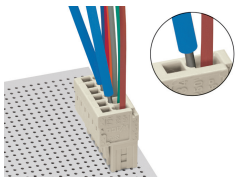
**Item No.: 734-191**  
Operating tool; made of insulating material;  
1-way; loose; black

Installation Notes



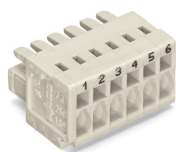
Using two DIN-35 rail mounting adapters  
(209-137) for 3 or more poles; distance be-  
tween two mounting adapters: maximum 7  
poles

Testing



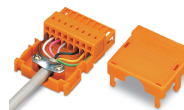
Testing via 1 mm Ø test pin (735-500) –  
CAGE CLAMP® connection – touch contact.

## Marking



Labeling via direct marking or self-adhesive strips.

## Installation



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