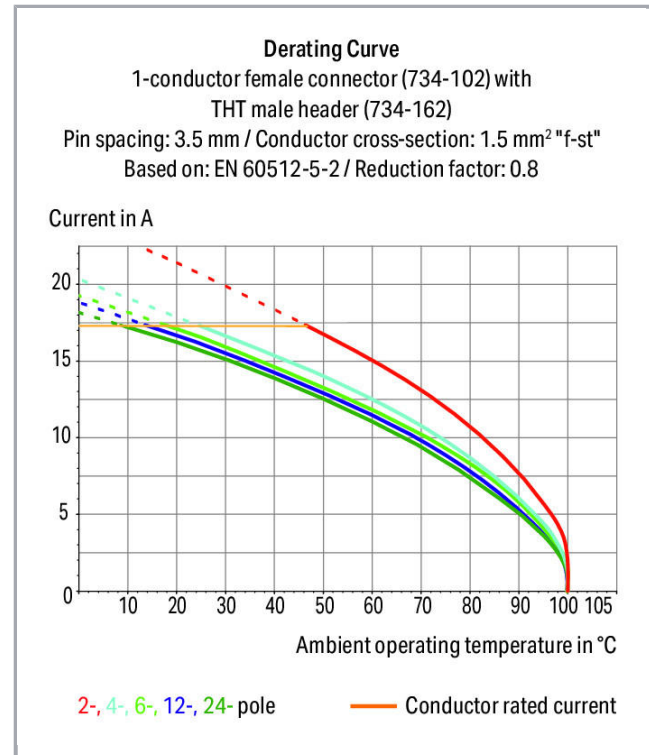


## Fișă tehnică | Număr articol: 734-242

THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.81 mm; 12-pole; orange

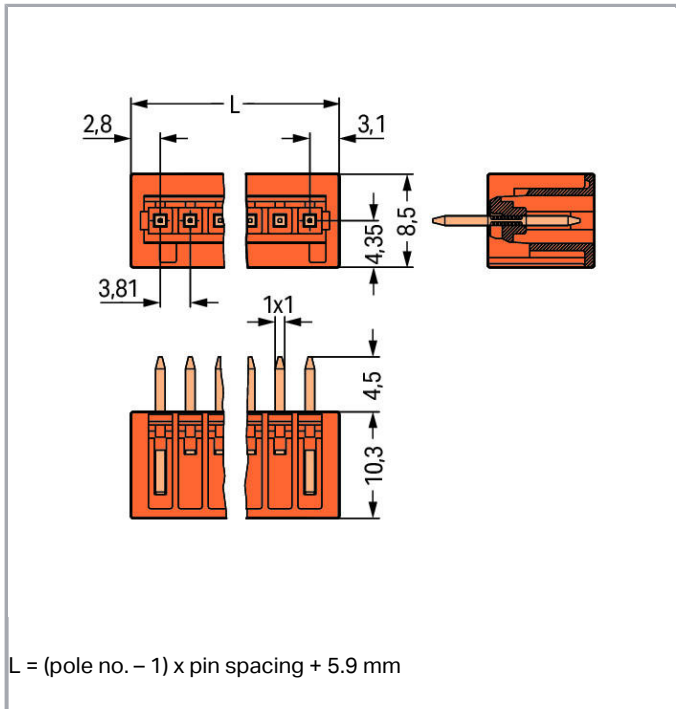
[www.wago.com/734-242](http://www.wago.com/734-242)



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## Descriere articol

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100 % protected against mismatching; only mating halves with the same number of poles can be connected together
- Coding via coding fingers

### Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

## Date

## Electrical data

### Ratings per IEC/EN 60664-1

| Ratings per                 | IEC/EN 60664-1 |
|-----------------------------|----------------|
| Nominal voltage (III/3)     | 160 V          |
| Rated surge voltage (III/3) | 2,5 kV         |
| Rated voltage (III/2)       | 160 V          |
| Rated surge voltage (III/2) | 2,5 kV         |

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|                            |  |
|----------------------------|--|
| Nominal voltage (II/2)     | 320 V  |
| Rated surge voltage (II/2) | 2,5 kV   |
| Rated current              | 10 A   |
| Legend (ratings)           | (III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2 |

### Approvals per UL 1059

|                                |         |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 300 V   |
| Rated current UL (Use Group B) | 10 A    |
| Rated voltage UL (Use Group D) | 300 V   |
| Rated current UL (Use Group D) | 10 A    |
| Approvals per                  | UL 1059 |

### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

### Connection data

|                            |    |
|----------------------------|----|
| Pole No.                   | 12 |
| Total number of potentials | 12 |
| Number of connection types | 1  |
| Number of levels           | 1  |

### Geometrical Data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 3.81 mm / 0.15 inch      |
| Width                                | 47.81 mm / 1.882 inch    |
| Height                               | 14.8 mm / 0.583 inch     |
| Height from the surface              | 10.3 mm / 0.406 inch     |
| Depth                                | 8.5 mm / 0.335 inch      |
| Solder pin length                    | 4,5 mm                   |
| Solder pin dimensions                | 1 x 1 mm                 |
| Drilled hole diameter with tolerance | 1.4 <sup>(+0.1)</sup> mm |

### Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
|------------------------------------|---------------------|

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|                             |          |
|-----------------------------|----------|
| Connector (connection type) | for PCBs |
| Mismating protection        | Yes      |
| Mating direction to the PCB | 90°      |

### PCB contact

|                                     |   |
|-------------------------------------|---|
| PCB contact                         | THT                                     |
| Solder pin arrangement              | over the entire male connector, in line |
| Number of solder pins per potential | 1                                       |

### Material Data

|                             |  |
|-----------------------------|--|
| Color                       | orange                                 |
| Material group              | I                                      |
| Insulation material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0,049 MJ                               |
| Weight                      | 2,8 g                                  |

### Environmental Requirements


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

### Commercial data

|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| Packaging type        | BOX                    |
| Country of origin     | DE                     |
| GTIN                  | 4044918847988          |
| Customs tariff number | 85366990990            |

### Aprobări / certificate

#### Country specific Approvals



| Emblemă  | Aprobare                              | Text de aprobare suplimentar | Nume certificat |
|--|---------------------------------------|------------------------------|-----------------|
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984                     | 71-<br>105522   |

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## Ship Approvals

| Emblemă   | Aprobare  | Text de aprobare suplimentar | Nume certificat  |
|---|---|------------------------------|------------------|
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                            | TAE000016Z       |
|  | <b>LR</b><br>Lloyds Register                            | IEC 61984                    | 96/20035<br>(E5) |

## UL-Approvals

| Emblemă  | Aprobare                                    | Text de aprobare suplimentar | Nume certificat     |
|--|---|------------------------------|---------------------|
|  | <b>UL</b><br>Underwriters Laboratories Inc. | UL 1977                      | 20150318-<br>E45171 |

## Counterpart

|  |  |  |
|--|--|--|
|  | <b>Nr. articol734-212</b><br>1-conductor female plug; 100% protected against mismatching; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 1,50 mm <sup>2</sup> ; orange  | <a href="http://www.wago.com/734-212">www.wago.com/734-212</a>                   |
|  | <b>Nr. articol2734-212</b><br>1-conductor female plug; 100% protected against mismatching; push-button; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 1,50 mm <sup>2</sup> ; orange                          | <a href="http://www.wago.com/2734-212">www.wago.com/2734-212</a>                 |
|  | <b>Nr. articol2734-212/027-000</b><br>1-conductor female plug; 100% protected against mismatching; push-button; clamping collar; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 1,50 mm <sup>2</sup> ; orange | <a href="http://www.wago.com/2734-212/027-000">www.wago.com/2734-212/027-000</a> |
|  | <b>Nr. articol2734-212/037-000</b><br>1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 1,50 mm <sup>2</sup> ; orange   | <a href="http://www.wago.com/2734-212/037-000">www.wago.com/2734-212/037-000</a> |
|  | <b>Nr. articol2734-212/031-000</b><br>1-conductor female plug; 100% protected against mismatching; push-button; clamping collar; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 1,50 mm <sup>2</sup> ; orange | <a href="http://www.wago.com/2734-212/031-000">www.wago.com/2734-212/031-000</a> |
|  | <b>Nr. articol734-212/037-000</b><br>1-conductor female plug; 100% protected against mismatching; Locking lever; 1.5 mm <sup>2</sup> ; Pin spacing 3.81 mm; 12-pole; 1,50 mm <sup>2</sup> ; orange                 | <a href="http://www.wago.com/734-212/037-000">www.wago.com/734-212/037-000</a>   |


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## Produse compatibile

### Coding

|  |   |  |
|--|---|--|
|  | <b>Nr. articol: 734-130</b><br>Coding key; to be snapped above top level; white | <a href="http://www.wago.com/734-130">www.wago.com/734-130</a> |
|  | <b>Nr. articol: 734-159</b><br>Coding key; to be snapped above top level; black | <a href="http://www.wago.com/734-159">www.wago.com/734-159</a> |

## Descărcări

### Documentation

#### Additional Information

|                        |             |               |            |
|------------------------|-------------|---------------|------------|
| Technical explanations | Apr 3, 2019 | pdf<br>3,6 MB | Descărcare |
|------------------------|-------------|---------------|------------|

## CAD/CAE-Data

### CAD data

|                      |     |            |
|----------------------|-----|------------|
| 2D/3D Models 734-242 | URL | Descărcare |
|----------------------|-----|------------|

### CAE data

|                           |     |            |
|---------------------------|-----|------------|
| EPLAN Data Portal 734-242 | URL | Descărcare |
|---------------------------|-----|------------|

### PCB Design

|                              |     |            |
|------------------------------|-----|------------|
| Symbol and Footprint 734-242 | URL | Descărcare |
|------------------------------|-----|------------|

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

### Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000

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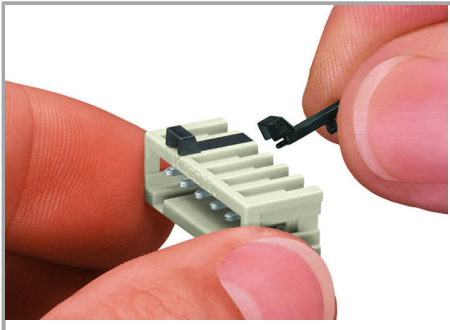
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

---

## Installation Notes

### Coding



Coding a male header – fitting coding key(s).

## Familie de produse

<i>MCS</i> MINI

Afișare globală produse din familie.

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