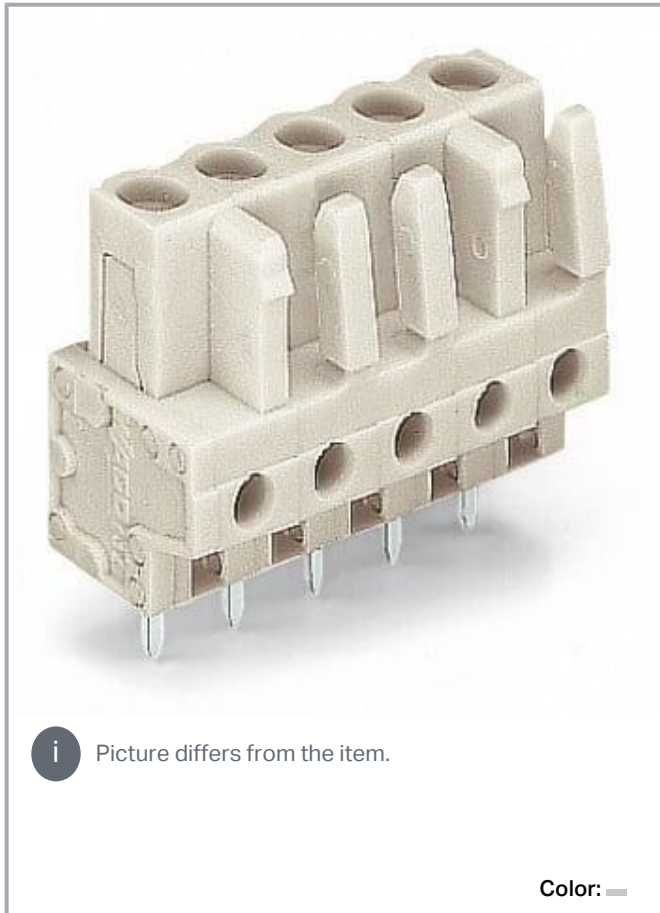


## Data sheet | Item number: 722-136

THT female header; straight; Pin spacing 5 mm; 6-pole; 100% protected against mismatching; 0.6 x 1.0 mm solder pin; light gray

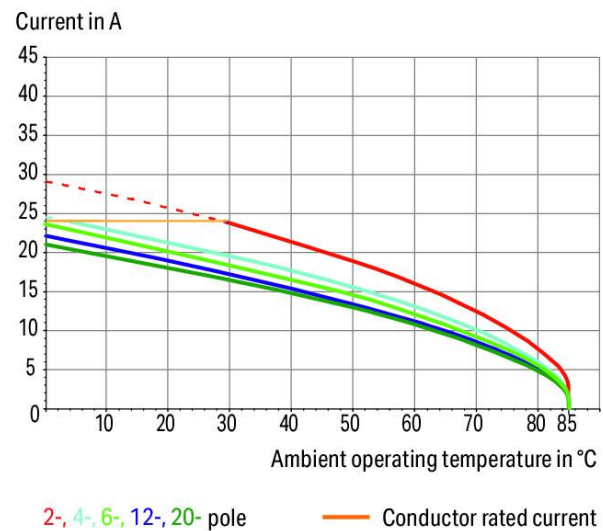
[www.wago.com/722-136](http://www.wago.com/722-136)



 Picture differs from the item.

Color: 

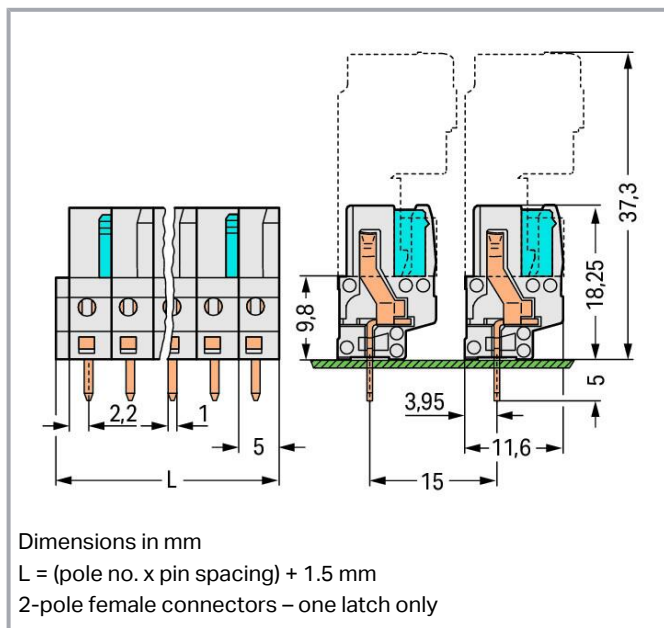
**Derating Curve**  
THT female header (722-232) with  
1-conductor male connector (721-602)  
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8



Subject to changes. Please also observe the further product documentation!

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## Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- For board-to-board and board-to-wire connections
- Touch-proof PCB outputs
- Easy-to-identify PCB inputs and outputs
- 100 % protected against mismatching
- With coding fingers

## Data

### 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

3.8 mm pin projection for male headers with straight solder pins  
 Gold-plated or partially gold-plated contact surfaces  
 Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

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## Electrical data

### Ratings per IEC/EN

| Ratings per                   | IEC/EN 60664-1                                                    |
|-------------------------------|-------------------------------------------------------------------|
| Nominal voltage (III/3)       | 320 V                                                             |
| Rated impulse voltage (III/3) | 4 kV                                                              |
| Rated voltage (III/2)         | 320 V                                                             |
| Rated impulse voltage (III/2) | 4 kV                                                              |
| Nominal voltage (II/2)        | 630 V                                                             |
| Rated surge voltage (II/2)    | 4 kV                                                              |
| Rated current                 | 12 A                                                              |
| Legend (ratings)              | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### Ratings per UL

| Approvals per                  | UL 1059 |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 300 V   |
| Rated current UL (Use Group B) | 15 A    |
| Rated voltage UL (Use Group D) | 300 V   |
| Rated current UL (Use Group D) | 10 A    |

### Ratings per UL 1977

|                         |       |
|-------------------------|-------|
| Rated voltage (UL 1977) | 600 V |
| Rated current UL 1977   | 15 A  |

### Ratings per CSA

| Approvals per                   | CSA   |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 15 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

## Connection data

|                            |   |
|----------------------------|---|
| Total number of potentials | 6 |
| Number of connection types | 1 |
| Number of levels           | 1 |

Subject to changes. Please also observe the further product documentation!



## Connection 1

|             |   |
|-------------|---|
| Pole number | 6 |
|-------------|---|

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 5 mm / 0.197 inches      |
| Width                                | 31.5 mm / 1.24 inches    |
| Height                               | 23.25 mm / 0.915 inches  |
| Height from the surface              | 18.25 mm / 0.719 inches  |
| Depth                                | 11.6 mm / 0.457 inches   |
| Solder pin length                    | 5 mm                     |
| Solder pin dimensions                | 0.6 x 1 mm               |
| Drilled hole diameter with tolerance | 1.3 <sup>(+0.1)</sup> mm |

## Mechanical Data

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

## Plug-in connection

|                                      |                         |
|--------------------------------------|-------------------------|
| Contact type (pluggable connector)   | Female connector/socket |
| Connector (connection type)          | for PCB                 |
| Mismating protection                 | Yes                     |
| Plugging without loss of pin spacing | No                      |
| Mating direction to the PCB          | 90 °                    |
| Locking of plug-in connection        | none                    |

## PCB contact

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

## Material data

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Note (material data) | Information on material specifications can be found here |
| Color                | light gray                                               |
| Material group       | I                                                        |

Subject to changes. Please also observe the further product documentation!



|                             |                  |
|-----------------------------|------------------|
| Insulation material         | Polyamide (PA66) |
| Flammability class per UL94 | V0               |
| Contact material            | Copper alloy     |
| Contact plating             | Tin              |
| Fire load                   | 0.095 MJ         |
| Weight                      | 5.6 g            |

## Environmental requirements

|                         |                |
|-------------------------|----------------|
| Limit temperature range | -60 ... +85 °C |
| Processing temperature  | -35 ... +60 °C |

## Commercial data

|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| eCl@ss 10.0           | 27-44-04-02            |
| eCl@ss 9.0            | 27-44-04-02            |
| ETIM 8.0              | EC002637               |
| ETIM 7.0              | EC002637               |
| PU (SPU)              | 50 pcs                 |
| Packaging type        | box                    |
| Country of origin     | DE                     |
| GTIN                  | 4044918580472          |
| Customs tariff number | 85366990990            |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Logo                                                                               | Approval                                     | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|                                                                                    | <b>CB</b><br>DEKRA Certification B.V.        | IEC 61984                | NL-39756 /A1     |
|  | <b>CSA</b><br>DEKRA Certification B.V.       | C22.2                    | 1466354          |
|                                                                                    | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 71-<br>121453    |

Subject to changes. Please also observe the further product documentation!



UR  
Underwriters Laboratories Inc.

UL 1977

E45171

#### Declarations of conformity and manufacturer's declarations

| Logo                                                                             | Approval                             | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------|
|  | <b>Railway</b><br>WAGO GmbH & Co. KG | -                        | Railway Ready    |

#### Approvals for marine applications

| Logo                                                                                | Approval                                  | Additional Approval Text | Certificate name |
|-------------------------------------------------------------------------------------|-------------------------------------------|--------------------------|------------------|
|    | <b>ABS</b><br>American Bureau of Shipping | -                        | 19-HG1869876-PDA |
|   | <b>DNV</b><br>DNV GL SE                   | -                        | TAE000016Z       |
|  | <b>LR</b><br>Lloyds Register              | IEC 61984                | 96/20035 (E5)    |

#### Counterpart



##### Item no.721-606

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; 100% protected against mismatching; 2,50 mm²; light gray

[www.wago.com/721-606](http://www.wago.com/721-606)



##### Item no.721-606/019-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; 100% protected against mismatching; clamping collar; 2,50 mm²; light gray

[www.wago.com/721-606/019-000](http://www.wago.com/721-606/019-000)

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**Item no. 721-606/034-000**  
1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 6-pole; 100% protected against  
mismatching; Strain relief plate; 2,50 mm²; light gray

[www.wago.com/721-606/034-000](http://www.wago.com/721-606/034-000)

Optional accessories

Marking accessories

|               |                                                                                                  |                                                                |
|---------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Marking strip |                                                                                                  |                                                                |
|               | <b>Item no.: 210-833</b><br>Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white | <a href="http://www.wago.com/210-833">www.wago.com/210-833</a> |
|               | <b>Item no.: 210-834</b><br>Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white      | <a href="http://www.wago.com/210-834">www.wago.com/210-834</a> |

Testing and measuring

|                     |                                                                                                                      |                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Testing accessories |                                                                                                                      |                                                                |
|                     | <b>Item no.: 210-136</b><br>Test plug; 2 mm Ø; with 500 mm cable; red                                                | <a href="http://www.wago.com/210-136">www.wago.com/210-136</a> |
|                     | <b>Item no.: 231-661</b><br>Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray | <a href="http://www.wago.com/231-661">www.wago.com/231-661</a> |

Downloads

Documentation

Additional Information

|  |            |               |          |
|--|------------|---------------|----------|
|  | 2019 Apr 3 | pdf<br>2.1 MB | Download |
|--|------------|---------------|----------|

CAD/CAE-Data

CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 722-136 | URL | Download |
|----------------------|-----|----------|

PCB Design

|                                                                                                                                                                        |     |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| Symbol and Footprint via Ultra Librarian 722-136                                                                                                                       | URL | Download |
| CAx data for your PCB design, consisting of "schematic symbols and PCB footprints",<br>allow easy integration of the WAGO component into your development environment. |     |          |

Supported formats:

Subject to changes. Please also observe the further product documentation!

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- Accel EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics
- BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design
- Expedition 99 and 2000
- 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
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

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

Symbol and Footprint via SamacSys 722-136

URL

Download

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:

- 3D (stp)
- Altium
- CADSTAR
- Capture

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- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

CAE data

|                           |     |          |
|---------------------------|-----|----------|
| ZUKEN Portal 722-136      | URL | Download |
| EPLAN Data Portal 722-136 | URL | Download |

Asset Administration Shell

|                                    |     |          |
|------------------------------------|-----|----------|
| Asset Administration Shell 722-136 | URL | Download |
|------------------------------------|-----|----------|

Environmental Product Compliance

Compliance Search

|                                          |     |          |
|------------------------------------------|-----|----------|
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|------------------------------------------|-----|----------|

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THT female header; straight; Pin spacing 5 mm; 6-pole; 100% protected against  
mismating; 0.6 x 1.0 mm solder pin; light gray

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## Installation Notes

## Product family

**MCS MIDI**

[Show all products from the family](#)

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