

**Data sheet | Item number: 713-1415**

THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Pin spacing 3.5 mm; 30-pole; black

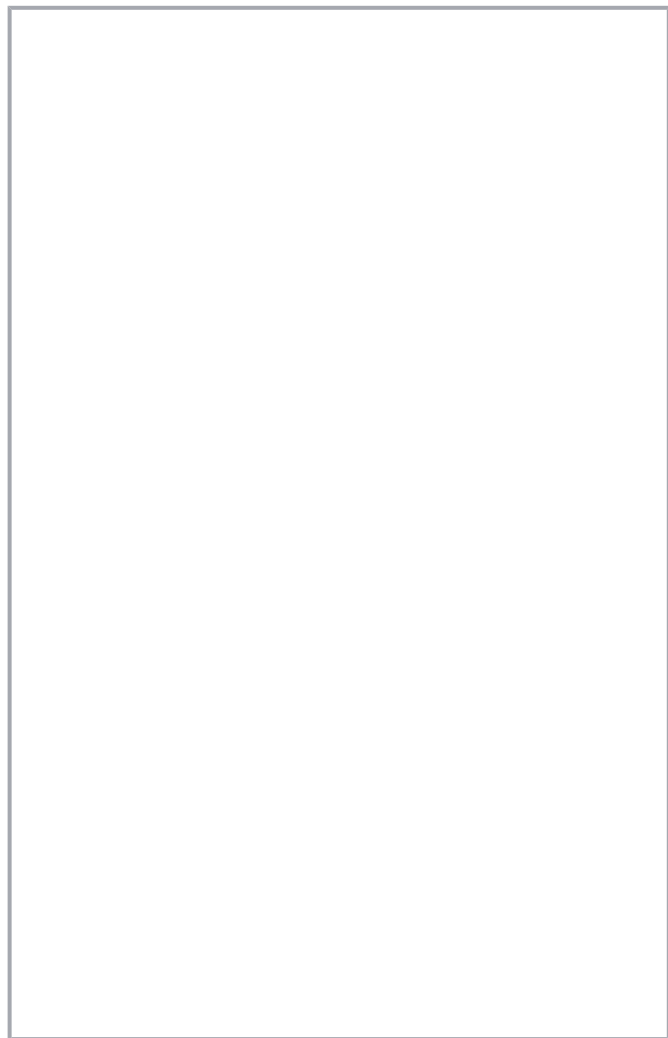
[www.wago.com/713-1415](http://www.wago.com/713-1415)



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

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### Item description

- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Header housing is molded of THT-compatible insulation material for lead-free reflow soldering
- Separated pin slots prevent damage and make the headers touch-proof when unplugged
- 100% protected against mismatching
- Coding option available

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## 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  
Other solder pin lengths  
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/>.

## Electrical data

### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	80 V
Rated impulse voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated impulse voltage (III/2)	2.5 kV
Nominal voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV
Rated current	10 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)	150 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group C)	50 V
Rated current UL (Use Group C)	10 A

### Ratings per CSA

Approvals per	CSA
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Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	12 A

### Connection data

Total number of potentials	30
Number of connection types	1
Number of levels	2

### Connection 1

Pole number	30
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### Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	54 mm / 2.126 inches
Height	17.3 mm / 0.681 inches
Height from the surface	13.5 mm / 0.531 inches
Depth	13.3 mm / 0.524 inches
Solder pin length	3.8 mm
Solder pin dimensions	0.8 x 0.8 mm
Drilled hole diameter with tolerance	1.2 <sup>(+0.1)</sup> mm

### Mechanical Data

Variable coding	Yes
Anti-rotation protection	Yes

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
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
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Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

## Material Data

Note (material data)	Information on material specifications can be found here
Color	black
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.156 MJ
Weight	7.7 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	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 8.0	EC002637
ETIM 7.0	EC002637
PU (SPU)	20 pcs
Packaging type	box
Country of origin	PL
GTIN	4045454700102
Customs tariff number	85366930000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 61984	2169947.01
	<b>CCA</b> DEKRA Certification B.V.	IEC 61984	NL-30980
	<b>CSA</b> DEKRA Certification B.V.	C22.2	2315087
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172

### Counterpart

<b>Item no.713-1115</b> 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 30-pole; 100% protected against mismatching; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1115">www.wago.com/713-1115</a>
<b>Item no.713-1115/000-047</b> 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 30-pole; 100% protected against mismatching; direct marking; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1115/000-047">www.wago.com/713-1115/000-047</a>
<b>Item no.713-1115/000-9037</b> 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 30-pole; 100% protected against mismatching; direct marking; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1115/000-9037">www.wago.com/713-1115/000-9037</a>
<b>Item no.713-1115/035-047</b> 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 30-pole; 100% protected against mismatching; Strain relief plate; direct marking; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1115/035-047">www.wago.com/713-1115/035-047</a>
<b>Item no.713-1115/035-9037</b> 1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 30-pole; 100% protected against mismatching; Strain relief plate; direct marking; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/713-1115/035-9037">www.wago.com/713-1115/035-9037</a>

### Optional accessories

#### Coding

Coding	
<b>Item no.: 714-101</b> Coding key; orange	<a href="http://www.wago.com/714-101">www.wago.com/714-101</a>

### Downloads

#### Documentation

#### Additional Information

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2019 年4月3日

pdf  
2.0 MB

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## CAD/CAE-Data

### CAD data

2D/3D Models 713-1415

URL

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### PCB Design

Symbol and Footprint 713-1415

URL

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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
- 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

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#### CAE data

ZUKEN Portal 713-1415

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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 713-1415

URL

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### Installation Notes

#### Coding



Coding a male header by inserting a coding pin.

### Product family

**MCS MINI HD**

[Show all products from the family](#)

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