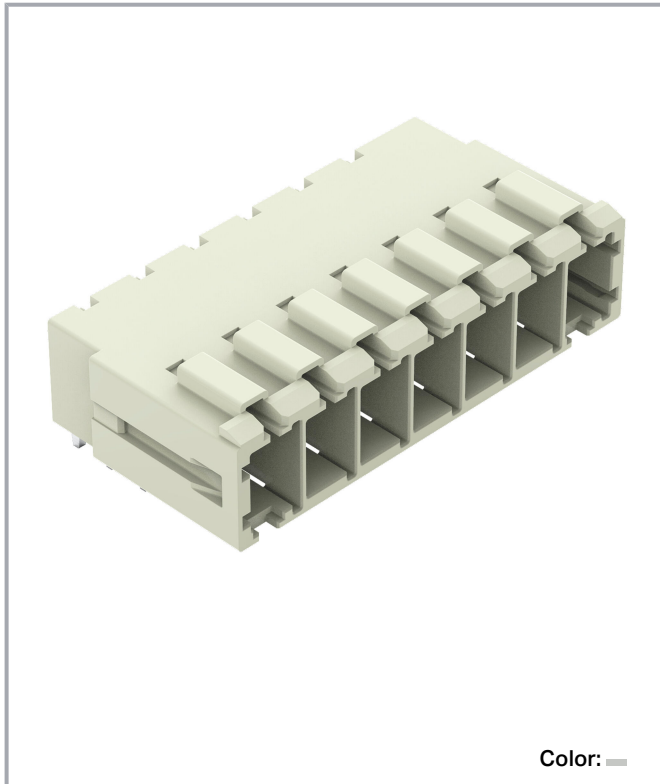


**Data sheet | Item number: 831-3627**

THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 7.62 mm; 7-pole; light gray

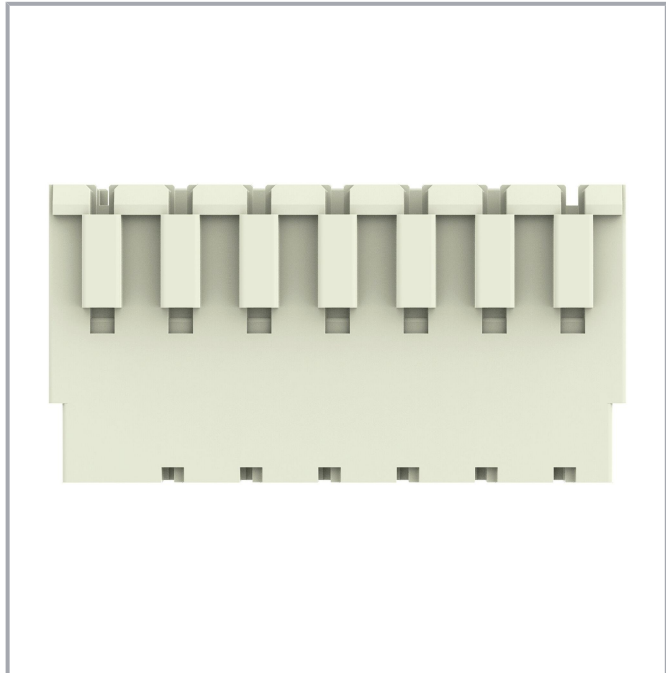
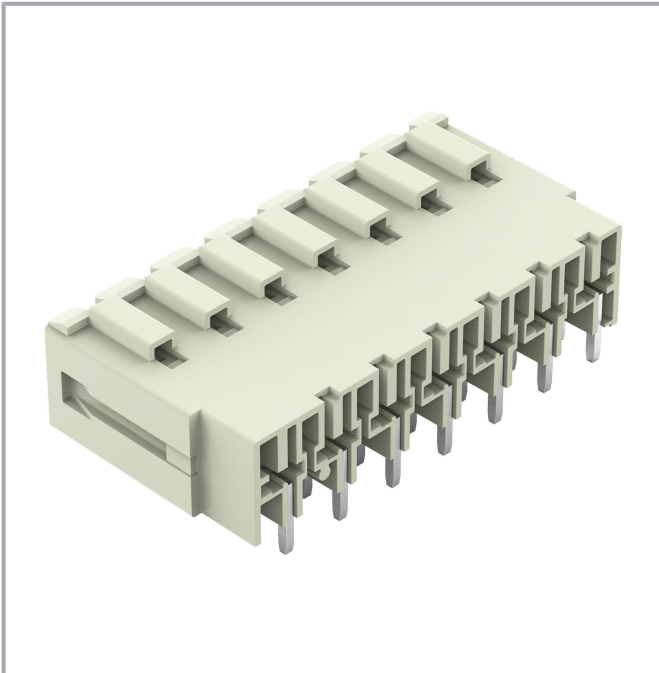
[www.wago.com/831-3627](http://www.wago.com/831-3627)



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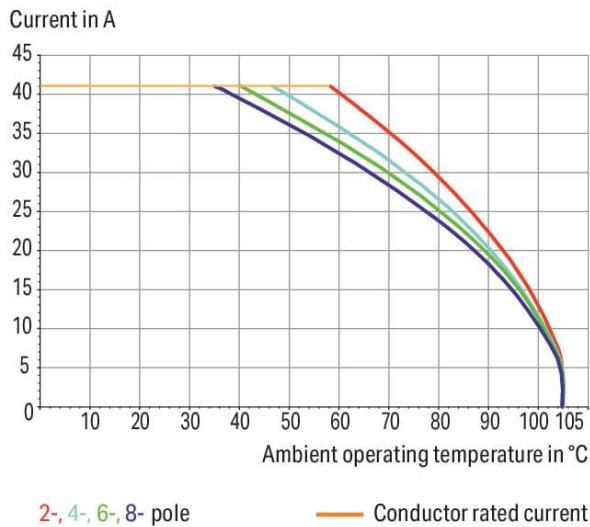
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**Derating Curve**

1-conductor female connector (831-3102) with  
THT male header (831-3622)

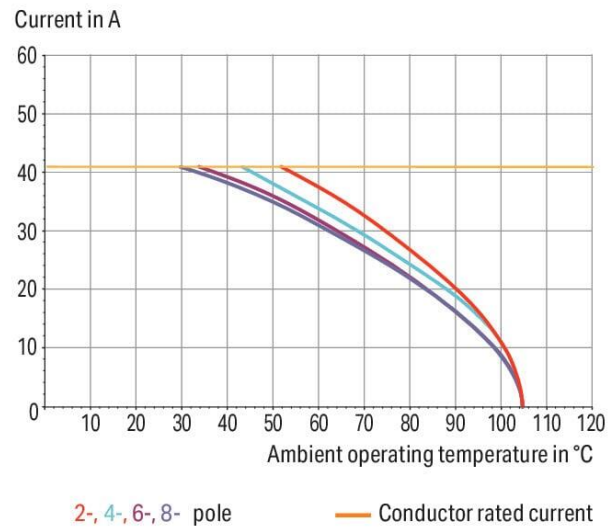
Pin spacing: 7.62 mm / Conductor cross-section: 6 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8



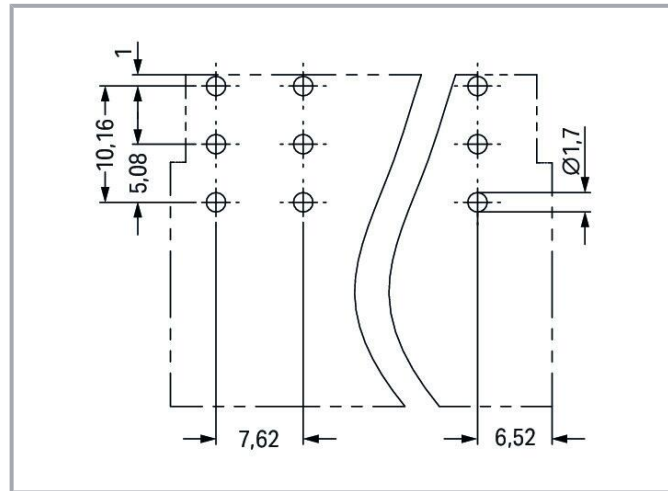
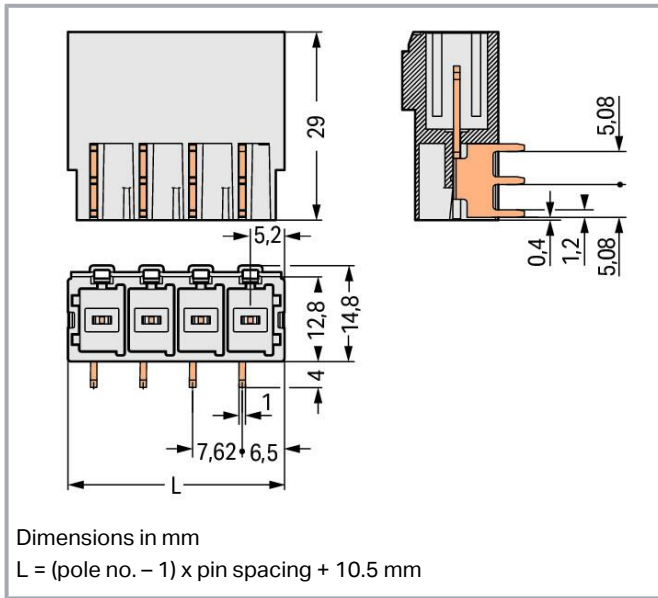
**Derating Curve**

1-conductor female connector (831-11xx) with  
THT male header (831-36xx)

Pin spacing: 7.62 mm / Conductor cross-section: 6 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!



## Item description

- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Three solder pins per pole provide high electrical and mechanical stability
- 100 % protected against mismatching
- Coding via 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  
 Protection against PCB mounting errors  
 Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

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



### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated impulse voltage (III/2)	6 kV
Nominal voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
Rated current	41 A
Legend (ratings)	(III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2

### Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group C)	300 V
Rated current UL (Use Group C)	42 A
Rated voltage UL (Use Group D)	600 V
Rated current UL (Use Group D)	5 A

### Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	41 A
Rated voltage CSA (Use Group D)	600 V
Rated current CSA (Use Group D)	5 A

### Connection data

Total number of potentials	7
Number of connection types	1
Number of levels	1

### Connection 1

Pole number	7
-------------	---

### Physical data

Pin spacing	7.62 mm / 0.3 inches
-------------	----------------------

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



Width	56.22 mm / 2.213 inches
Height	18.8 mm / 0.74 inches
Height from the surface	14.8 mm / 0.583 inches
Depth	29 mm / 1.142 inches
Solder pin length	4 mm
Solder pin dimensions	1 x 1.2 mm
Drilled hole diameter with tolerance	1.7 <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	0°
Locking of plug-in connection	none

## PCB contact

PCB contact	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	3

## Material data

Note (material data)	Information on material specifications can be found here
Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.3 MJ

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

Weight	17.9 g
--------	--------

### Environmental requirements

Limit temperature range	-60 ... +105 °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
ECCN	NO DATA
PU (SPU)	12 pcs
Packaging type	box
Country of origin	PL
GTIN	4045454002220
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>CB</b> DEKRA Certification B.V.	IEC 61984	NL-61360 /M1
	<b>CSA</b> DEKRA Certification B.V.	C22.2	1466354
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71-116057
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172


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## Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	Railway WAGO GmbH & Co. KG	-	Railway Ready

## Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	LR Lloyds Register	IEC 61984	96/20035 (E5)

## Counterpart

	<b>Item no.831-3107</b> 1-conductor female connector; Push-in CAGE CLAMP®; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 7-pole; 100% protected against mismatching; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-3107">www.wago.com/831-3107</a>
	<b>Item no.831-3107/000-9037</b> 1-conductor female connector; Push-in CAGE CLAMP®; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 7-pole; 100% protected against mismatching; direct marking; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-3107/000-9037">www.wago.com/831-3107/000-9037</a>
	<b>Item no.831-3107/037-000</b> 1-conductor female connector; Push-in CAGE CLAMP®; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 7-pole; 100% protected against mismatching; Lateral locking levers; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-3107/037-000">www.wago.com/831-3107/037-000</a>
	<b>Item no.831-3107/037-9037</b> 1-conductor female connector; Push-in CAGE CLAMP®; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 7-pole; 100% protected against mismatching; Lateral locking levers; direct marking; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-3107/037-9037">www.wago.com/831-3107/037-9037</a>
	<b>Item no.831-3107/136-000</b> 1-conductor female connector; Push-in CAGE CLAMP®; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 7-pole; 100% protected against mismatching; Gripping plate; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-3107/136-000">www.wago.com/831-3107/136-000</a>

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**Item no.831-1107**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 7-pole; 100% protected against mismatching; 10,00 mm²; light gray

[www.wago.com/831-1107](http://www.wago.com/831-1107)



**Item no.831-1107/037-000**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 7-pole; 100% protected against mismatching; Lateral locking levers; 10,00 mm²; light gray

[www.wago.com/831-1107/037-000](http://www.wago.com/831-1107/037-000)



**Item no.831-1107/322-000**

1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 7-pole; 100% protected against mismatching; Centered locking levers; 10,00 mm²; light gray

[www.wago.com/831-1107/322-000](http://www.wago.com/831-1107/322-000)

**Optional accessories**

**Coding**

Coding



**Item no.: 831-500**

Coding pin carrier with six coding pins; orange

[www.wago.com/831-500](http://www.wago.com/831-500)

**Downloads**

**Documentation**

**Additional Information**

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.1 MB	

**CAD/CAE-Data**

**CAD data**

2D/3D Models 831-3627	URL	Download
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**CAE data**

EPLAN Data Portal 831-3627	URL	Download
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ZUKEN Portal 831-3627	URL	Download
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**PCB Design**

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[URL](#)

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Symbol and Footprint via Ultra Librarian 831-3627

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
- 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

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Supported formats:

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

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**Asset Administration Shell**

	URL	Download
Asset Administration Shell 831-3627		

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**Environmental Product Compliance**

**Compliance Search**

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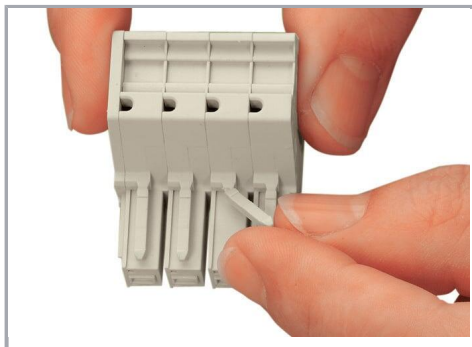
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Environmental Product Compliance 831-3627

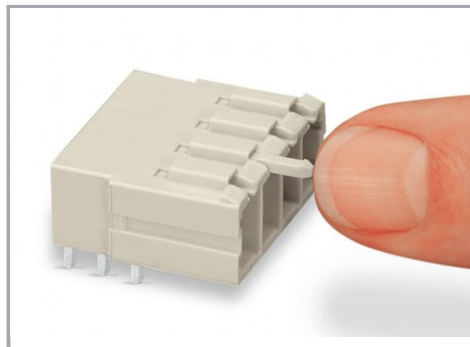
THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 7.62 mm; 7-pole; light gray

## Installation Notes

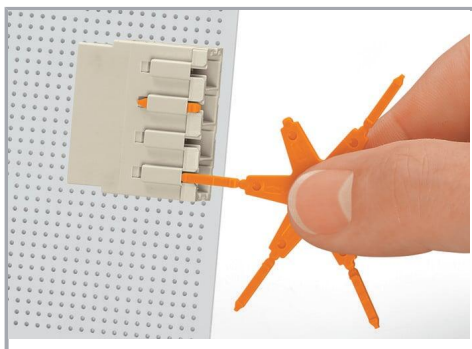
### Coding



Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



Coding a THT male header by inserting a coding pin.

## Product family

**MCS MAXI 6**

[Show all products from the family](#)

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