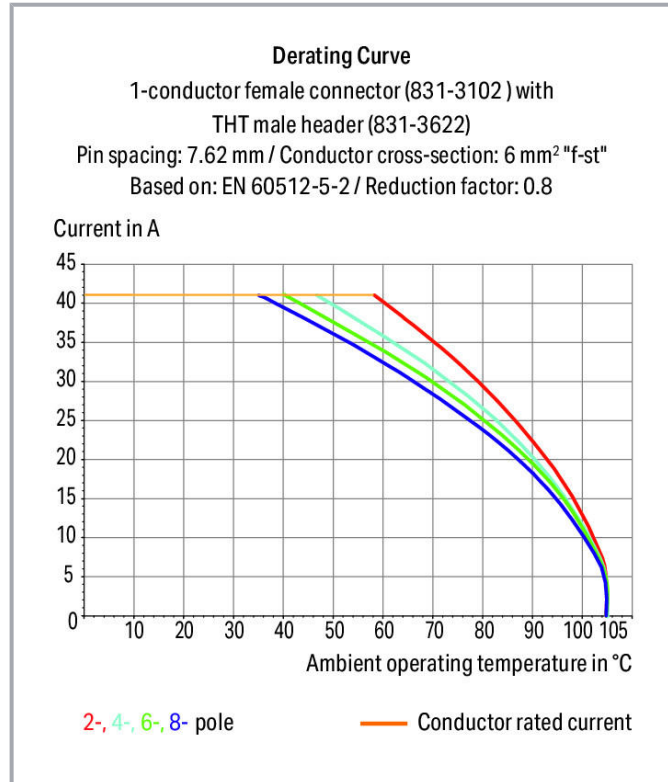
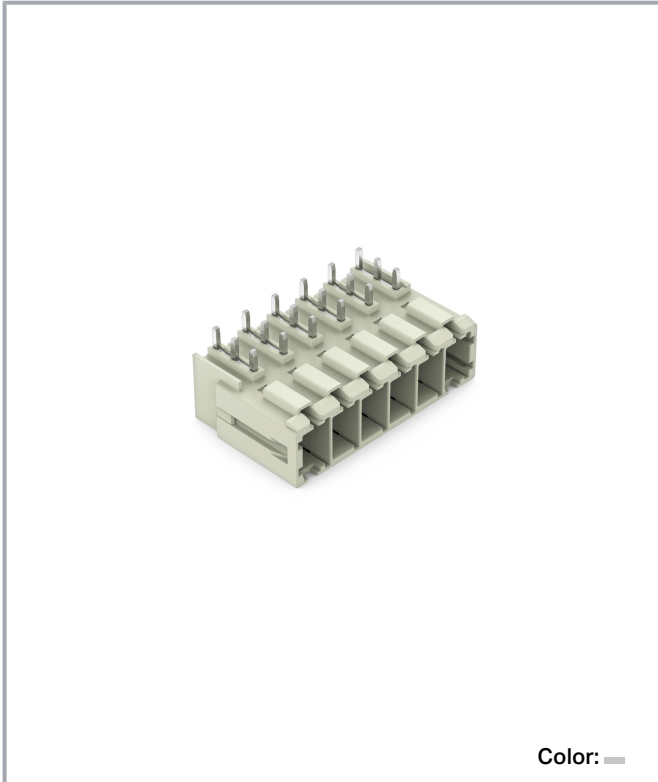


**Data sheet | Item number: 831-3646**

THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 7.62 mm; 6-pole; light gray



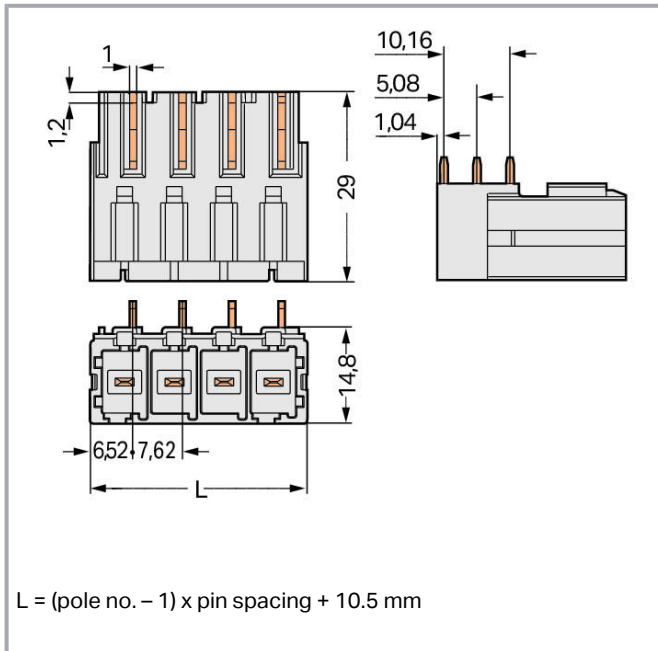
[www.wago.com/831-3646](http://www.wago.com/831-3646)



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

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

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## 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

## Safety information 1:

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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

## Data

### Electrical data

### IEC Approvals

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	500 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV

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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

### UL Approvals

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

### CSA Approvals

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

Pole No.	6
Total number of potentials	6
Number of connection types	1
Number of levels	1

### Physical data

Pin spacing	7.62 mm / 0.3 inch
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

### Plug-in connection

Contact type (pluggable connector)	Male header
Connector (connection type)	for PCB
Mismating protection	Yes
Mating direction to the PCB	180°

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

Locking of plug-in connection	Without
-------------------------------	---------

### PCB contact

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

### Material data

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-plated
Weight	17.1 g

### Environmental requirements


Limit temperature range	-60 ... +105 °C
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### Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055144082128
Customs tariff number	85366990990

### Approvals / Certificates

#### Country specific Approvals


Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-61360 /M1
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71- 116057

#### Ship Approvals

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

## Counterpart

	<b>Item no.831-1106</b> 1-conductor female connector; 100% protected against mismatching; lever; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 6-pole; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-1106">www.wago.com/831-1106</a>
	<b>Item no.831-1106/037-000</b> 1-conductor female connector; 100% protected against mismatching; lever; Locking lever; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 6-pole; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-1106/037-000">www.wago.com/831-1106/037-000</a>
	<b>Item no.831-1106/038-000</b> 1-conductor female connector; 100% protected against mismatching; lever; Locking lever; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 6-pole; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-1106/038-000">www.wago.com/831-1106/038-000</a>
	<b>Item no.831-1106/320-000</b> 1-conductor female plug; 100% protected against mismatching; lever; Locking lever; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 6-pole	<a href="http://www.wago.com/831-1106/320-000">www.wago.com/831-1106/320-000</a>
	<b>Item no.831-1106/322-000</b> 1-conductor female connector; 100% protected against mismatching; lever; center locking; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 6-pole; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-1106/322-000">www.wago.com/831-1106/322-000</a>
	<b>Item no.831-3106</b> 1-conductor female connector; 100% protected against mismatching; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 6-pole; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-3106">www.wago.com/831-3106</a>
	<b>Item no.831-3106/000-9037</b> 1-conductor female connector; 100% protected against mismatching; direct marking; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 6-pole; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-3106/000-9037">www.wago.com/831-3106/000-9037</a>
	<b>Item no.831-3106/037-000</b> 1-conductor female connector; 100% protected against mismatching; Locking lever; 10 mm <sup>2</sup> ; Pin spacing 7.62 mm; 6-pole; 10,00 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/831-3106/037-000">www.wago.com/831-3106/037-000</a>
	<b>Item no.831-3106/135-000</b>	

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



1-conductor female connector; 100% protected against mismatching; Gripping plate; 10 mm<sup>2</sup>; Pin spacing 7.62 mm; 6-pole; 10,00 mm<sup>2</sup>; light gray

[www.wago.com/831-3106/135-000](http://www.wago.com/831-3106/135-000)



**Item no.831-3106/037-9037**

1-conductor female connector; 100% protected against mismatching; Locking lever; direct marking; 10 mm<sup>2</sup>; Pin spacing 7.62 mm; 6-pole; 10,00 mm<sup>2</sup>; light gray

[www.wago.com/831-3106/037-9037](http://www.wago.com/831-3106/037-9037)

## Downloads

### Documentation

#### Additional Information

Technical explanations	Apr 3, 2019	pdf 2.0 MB	Download
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### CAD files

#### CAE data

ZUKEN Portal 831-3646	URL	Download
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#### CAD data

2D/3D Models 831-3646	URL	Download
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## Environmental Product Compliance

### Compliance Search

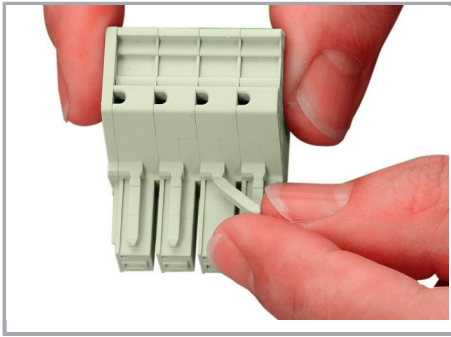
Environmental Product Compliance 831-3646	URL	Download
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THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 7.62 mm; 6-pole; light gray

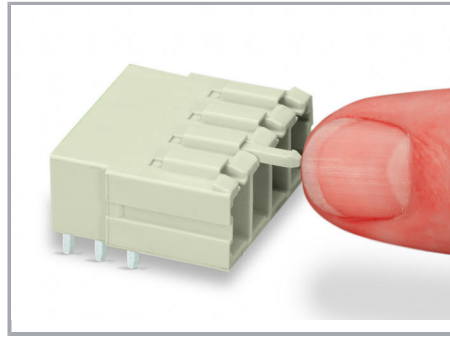
## Installation Notes

### Coding

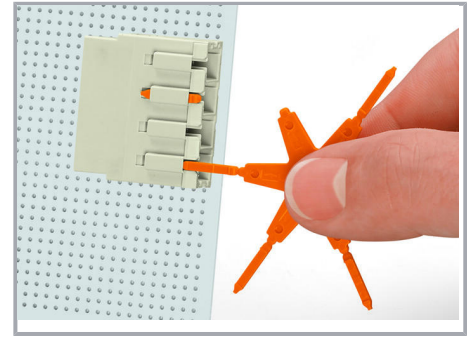
Subject to changes. Please also observe the further product documentation!



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](#)

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