

## Data sheet | Item number: 2091-1176/200-000

1-conductor THR female header; 1.0 mm Ø solder pin; straight; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 6-pole; 1,50 mm<sup>2</sup>; light gray

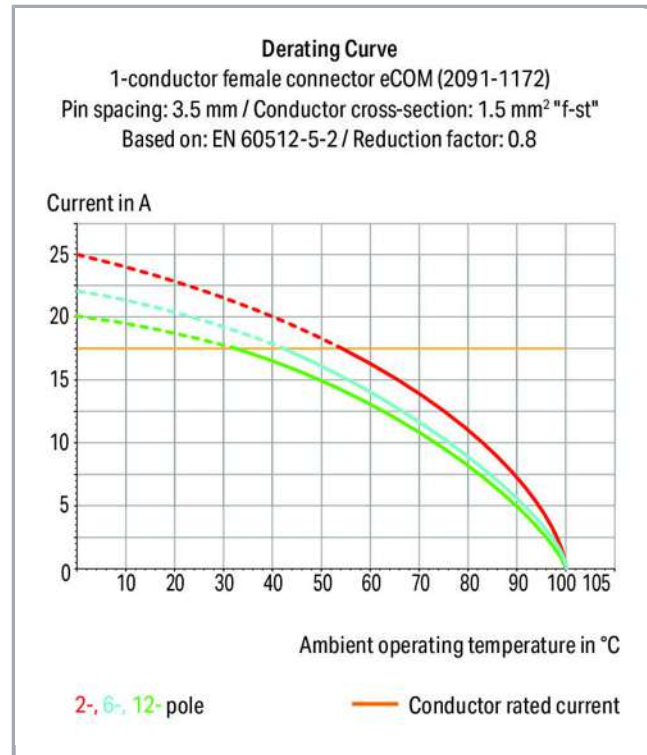
[www.wago.com/2091-1176\\_200-000](http://www.wago.com/2091-1176_200-000)



RoHS   
Compliant

[BOMcheck.net](https://www.bomcheck.net)

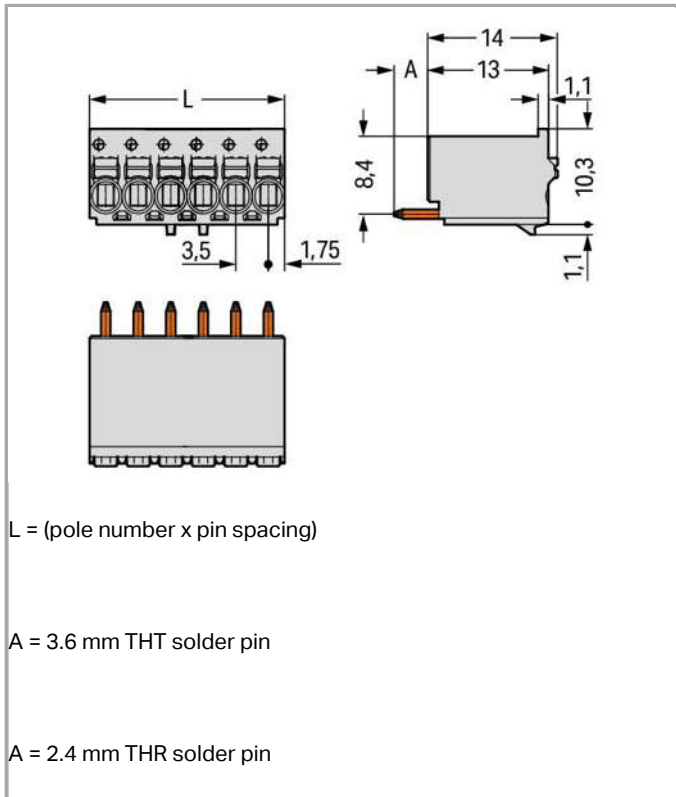
Color:



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

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## Item description

- Universal connection for all conductor types
- Simple, push-in termination of solid and ferruled conductors
- Easy-to-use design does not require specialty tools
- Ability to wire while mated or unmated
- Integrated test ports for testing parallel to conductor entry
- Factory-installed, straight or angled solder pins allow horizontal or vertical mounting to the PCB

## Safety information 1:

The **picoMAX® Pluggable 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

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

## Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	160 V
Rated impulse voltage (III / 3)	2.5 kV
Rated voltage (III / 2)	160 V
Rated impulse voltage (III / 2)	2.5 kV
Rated voltage (II / 2)	320 V
Rated impulse 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

## Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Solid conductor	0,2 ... 1,5 mm <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor	0,2 ... 1,5 mm <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor with ferrule with plastic collar	0,25 ... 0,75 mm <sup>2</sup>
Fine-stranded conductor with ferrule without plastic collar	0,25 ... 1,5 mm <sup>2</sup>
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Conductor entry angle to the PCB	90°
No. of poles	6
Total number of connection points	6
Total number of potentials	6
Number of connection types	1
Number of levels	1

## Geometrical Data

Pin spacing	3,5 mm / 0.138 inch
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Width	21 mm / 0.827 inch
Height	14 mm / 0.551 inch
Depth	11,4 mm / 0.449 inch
Solder pin length	2.4 mm
Solder pin diameter	1 mm
Plated through-hole diameter (THR)	1,2 <sup>(+0,1)</sup> mm

### Plug connection

Contact type (pluggable connector)	Female connector/socket
Connector connection type	for PCB
Mismating protection	No
Mating direction to the PCB	90°

### PCB contact

PCB contact	THR
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### Material Data

Color	light gray
Material group	I
Insulating material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.063 MJ
Weight	3.2 g

### Environmental Requirements

Limit temperature range	-60 ... +100 °C
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### Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4050821395898
Customs Tariff No.	85366990990



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## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CSA</b> DEKRA Certification B.V.	C22.2	2362521
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71- 102260 REV.1


### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> Underwriters Laboratories Inc.	UL 1977	20190909- E45171


## Counterpart

## Compatible products

### tools

	<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-719">www.wago.com/210-719</a>
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### Coding

	<b>Item no.: 2091-1610</b> Coding key carrier; suitable for 3.5 mm pin spacing; orange	<a href="http://www.wago.com/2091-1610">www.wago.com/2091-1610</a>
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### check

	<b>Item no.: 735-500</b> Test pin; 1 mm Ø; with solder connection for test wire	<a href="http://www.wago.com/735-500">www.wago.com/735-500</a>
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Subject to changes. Please also observe the further product documentation!

## Downloads

### Documentation

#### Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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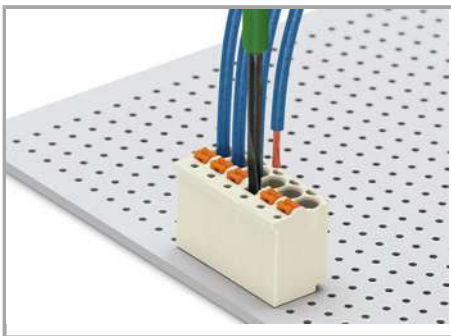
## CAD/CAE-Data

### CAD data

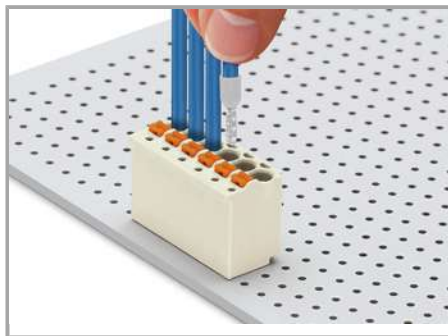
2D/3D Models 2091-1176/200-000	URL	Download
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## Installation Notes

### Conductor termination



Terminating fine-stranded conductors and removing all conductor types via push-buttons.



Terminating solid and ferruled conductors via push-in termination

### Marking

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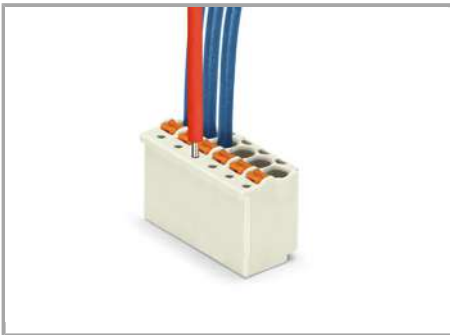


Pole marking via direct printing  
perpendicular to conductor entry.



Pole marking via factory direct printing.

### Testing



Testing with 1 mm Ø test pin, tip contact.

### Product family

picoMAX eCOM

[Show all products from the family](#)

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