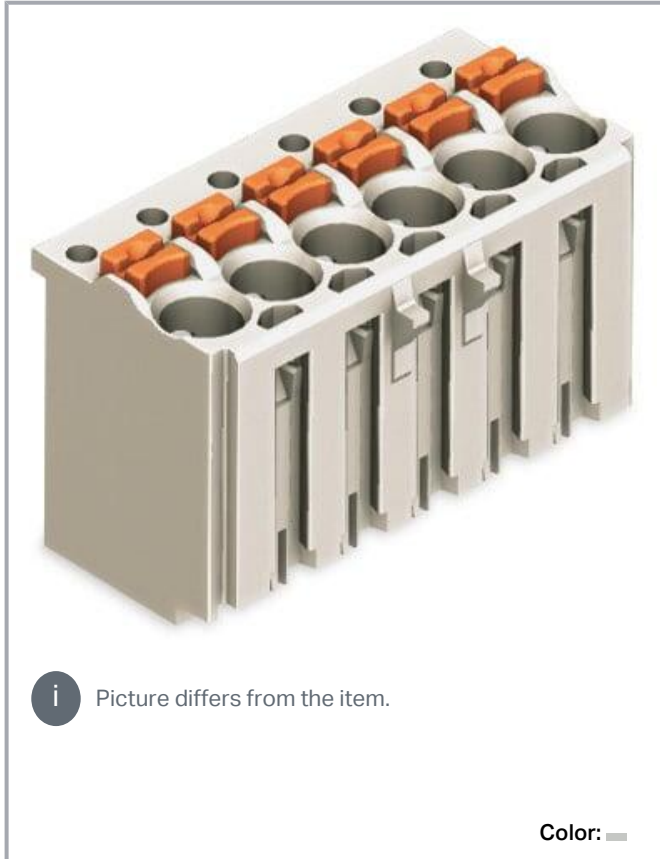


**Data sheet | Item number: 2091-1132**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 12-pole; 1,50 mm<sup>2</sup>; light gray



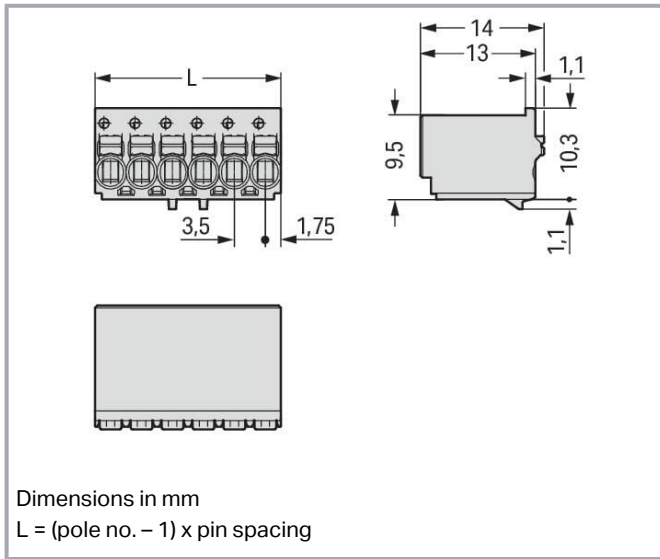
[www.wago.com/2091-1132](http://www.wago.com/2091-1132)



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

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## Item description

- Universal connection of all conductor types
- Simple, push-in termination of solid and ferruled conductors
- Easy-to-use design does not require special tools
- Ability to wire while mated or unmated
- Testing parallel to conductor entry – tip contact
- Also available with gripping plates
- Integrated locking latches prevent accidental disconnection

## Data

### Notes

Safety information

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.

Variants:

Direct marking

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

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## Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal 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
Nominal voltage (II/2)	320 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)	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

## Connection data

Connection points	12
Total number of potentials	12
Number of connection types	1
Number of levels	1

## Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Actuation direction 1	Operation parallel to conductor entry
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 insulated ferrule	0.25 ... 0.75 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1.5 mm <sup>2</sup>
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Pole number	12

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



## Physical data

Pin spacing	3.5 mm / 0.138 inches
Width	42 mm / 1.654 inches
Height	14 mm / 0.551 inches
Depth	11.4 mm / 0.449 inches

## Mechanical Data

Variable coding	Yes
Anti-rotation protection	Yes

## Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismatching protection	No
Plugging without loss of pin spacing	Yes
Locking of plug-in connection	none

## Material data

Note (material data)	Information on material specifications can be found here
Color	light gray
Material group	I
Insulation 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
Fire load	0.018 MJ
Weight	5.5 g

## Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

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

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## Commercial data





Product Group	26 (picoMAX Connectors)
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
ECCN	NO DATA
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821160823
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> DEKRA Certification B.V.	IEC 61984	NL-49736 /A1
	<b>CSA</b> DEKRA Certification B.V.	C22.2 No. 158	2362521
	<b>CSA</b> DEKRA Certification B.V.	C22.2	2362521
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71-102260 REV.1
	<b>UL</b> Underwriters Laboratories Inc.	UL 1977	E45171
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172

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



## Counterpart

	<b>Item no.2091-1412</b> THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; light gray	<a href="http://www.wago.com/2091-1412">www.wago.com/2091-1412</a>
	<b>Item no.2091-1412/200-000</b> THR male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; light gray	<a href="http://www.wago.com/2091-1412/200-000">www.wago.com/2091-1412/200-000</a>
	<b>Item no.2091-1432</b> THT male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 12-pole; light gray	<a href="http://www.wago.com/2091-1432">www.wago.com/2091-1432</a>
	<b>Item no.2091-1432/205-000</b> THR male header; 1.0 mm Ø solder pin; angled; clamping collar; Pin spacing 3.5 mm; 12-pole; light gray	<a href="http://www.wago.com/2091-1432/205-000">www.wago.com/2091-1432/205-000</a>
	<b>Item no.2091-1412/205-000</b> THR male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm; 12-pole; light gray	<a href="http://www.wago.com/2091-1412/205-000">www.wago.com/2091-1412/205-000</a>
	<b>Item no.2091-1432/200-000</b> THR male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 12-pole; light gray	<a href="http://www.wago.com/2091-1432/200-000">www.wago.com/2091-1432/200-000</a>
	<b>Item no.2091-1512/002-3000</b> 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 12-pole; Gripping plate; direct marking; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1512/002-3000">www.wago.com/2091-1512/002-3000</a>
	<b>Item no.2091-1512/002-000</b> 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 12-pole; Gripping plate; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1512/002-000">www.wago.com/2091-1512/002-000</a>
	<b>Item no.2091-1532/002-000</b> 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 12-pole; Integrated release lever; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1532/002-000">www.wago.com/2091-1532/002-000</a>
	<b>Item no.2091-1532/020-000</b> 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 12-pole; DIN-35 rail/panel mounting; Snap-in mounting feet; Integrated release lever; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1532/020-000">www.wago.com/2091-1532/020-000</a>
	<b>Item no.2091-1532/002-3000</b> 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 12-pole; Integrated release lever; direct marking; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1532/002-3000">www.wago.com/2091-1532/002-3000</a>
	<b>Item no.2091-1532/020-3000</b> 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 12-pole; DIN-35 rail/panel mounting; Snap-in mounting feet; Integrated release lever; direct marking; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1532/020-3000">www.wago.com/2091-1532/020-3000</a>

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



**Item no.2091-1712**  
THT pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; black

[www.wago.com/2091-1712](http://www.wago.com/2091-1712)



**Item no.2091-1712/200-000**  
THR pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; black

[www.wago.com/2091-1712/200-000](http://www.wago.com/2091-1712/200-000)



**Item no.2091-1732**  
THT pin strip; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 12-pole; black

[www.wago.com/2091-1732](http://www.wago.com/2091-1732)



**Item no.2091-1732/200-000**  
THR pin strip; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 12-pole; black

[www.wago.com/2091-1732/200-000](http://www.wago.com/2091-1732/200-000)

## Optional accessories

### Testing and measuring

#### Testing accessories



**Item no.: 735-500**  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm<sup>2</sup> [www.wago.com/735-500](http://www.wago.com/735-500)

### Coding

#### Coding



**Item no.: 2091-1610**  
Coding key carrier; suitable for 3.5 mm pin spacing; orange [www.wago.com/2091-1610](http://www.wago.com/2091-1610)

### Tool

#### Operating tool



**Item no.: 2092-1630**  
Unlocking tool; orange [www.wago.com/2092-1630](http://www.wago.com/2092-1630)



**Item no.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft [www.wago.com/210-719](http://www.wago.com/210-719)

### Strain relief

#### Strain relief plate



**Item no.: 2091-1603**  
Gripping plate; for female and male connectors; 1 part; Pin spacing 3.5 mm; light gray [www.wago.com/2091-1603](http://www.wago.com/2091-1603)

## Downloads

### Documentation

#### Additional Information

#### Technical Section

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

Technical explanations

2019 Apr 3

pdf  
2.1 MB

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## CAD/CAE-Data

### CAD data

2D/3D Models 2091-1132

URL

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### CAE data

ZUKEN Portal 2091-1132

URL

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### Asset Administration Shell

Asset Administration Shell 2091-1132

URL

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 2091-1132

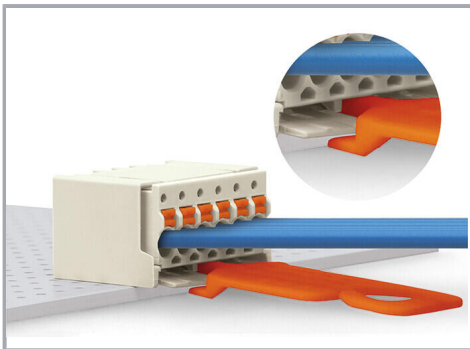
URL

Download

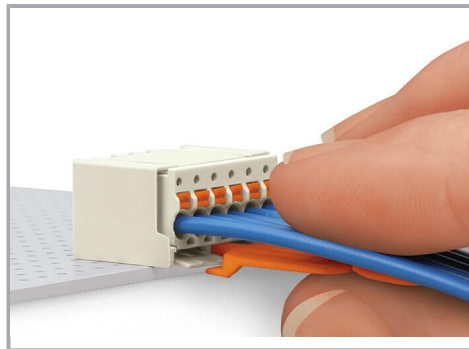
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 12-pole; 1,50 mm<sup>2</sup>; light gray

## Installation Notes

### Locking system



Disconnecting a female connector via unlocking tool. Plug unlocking tool into the male header's locking latch.



Insert unlocking tool until it hits the backstop. Wedge opens locking latches.

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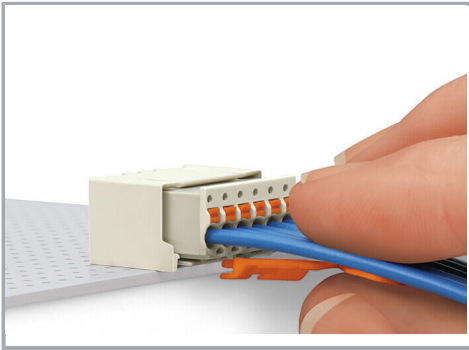
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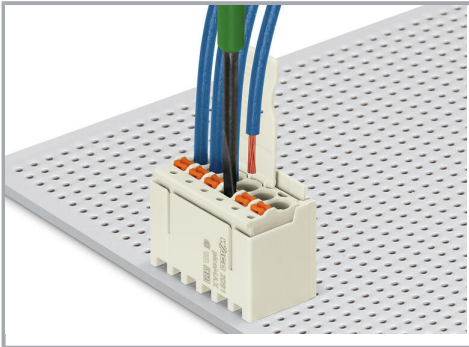
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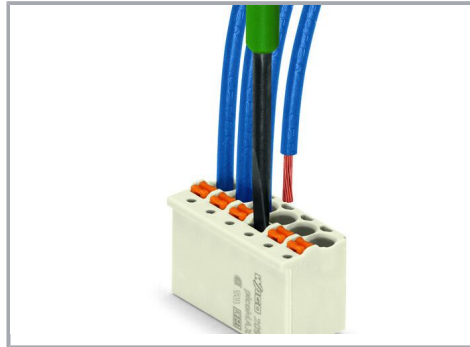


Pull on both unlocking tool and conductors to remove female connector from male header.

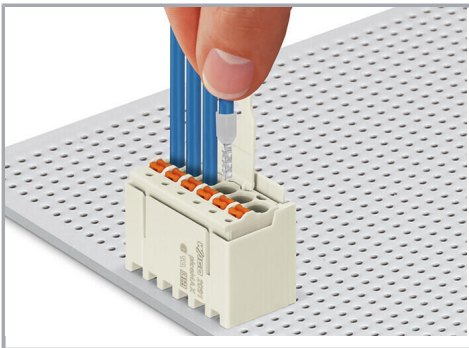
### Conductor termination



Inserting fine-stranded conductor into mated female connector via push-button.



Inserting a fine-stranded conductor into an unmated female connector via push-button.



Inserting solid and ferruled conductors via push-in termination.

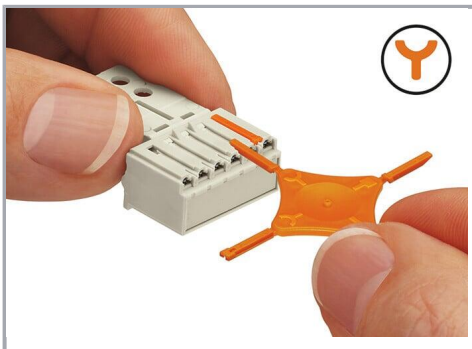
### Marking

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



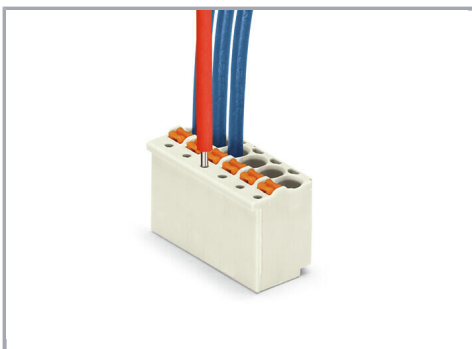
Pole marking via factory direct marking.

### Coding



Coding a female connector (via coding key carrier and two keys for female connector, see symbol).

### Testing



Testing via 1 mm Ø test pin – touch contact.

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