

## Data sheet | Item number: 2091-1102/000-5000

1-conductor female plug; Gripping plate; direct marking; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 2-pole; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/2091-1102\\_000-5000](http://www.wago.com/2091-1102_000-5000)



RoHS Compliant

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

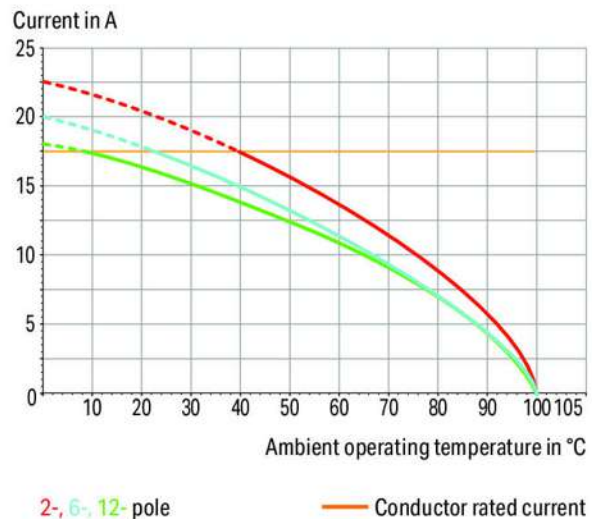
Color:

### Derating Curve

1-conductor female connector (2091-1122) with  
THT male header (2091-1402)

Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"

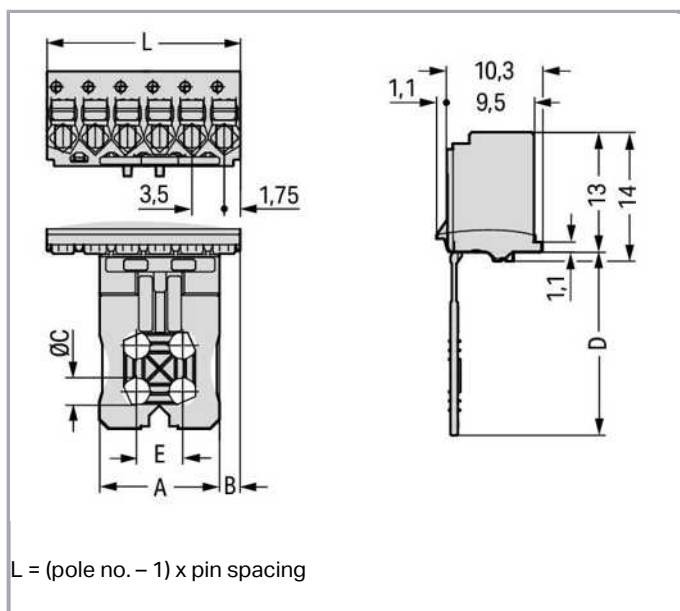
Based on: EN 60512-5-2 / Reduction factor: 0.8



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

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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

## Safety information 1:

The **picoMAX® pluggable connection system** is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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

### 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

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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
No. of poles	2
Total number of potentials	2
Number of connection types	1
Number of levels	1

### Geometrical Data

Pin spacing	3.5 mm / 0.138 inch
Width	7 mm / 0.276 inch
Height	31 mm / 1.22 inch
Depth	11.4 mm / 0.449 inch

### Mechanical data

Design	With gripping plate
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## Plug connection

Contact type (pluggable connector)	Female connector/socket
Connector connection type	for conductors
Mismating protection	No

## 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	0.023 MJ
Weight	0.9 g

## Environmental Requirements



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

Packaging type	BOX
Country of origin	DE
GTIN	4050821327707
Customs Tariff No.	85366990990

## Approvals / Certificates

### Country specific Approvals




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

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## Counterpart


	<b>Item no.2091-1422</b> THT male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 2-pole; light gray	<a href="http://www.wago.com/2091-1422">www.wago.com/2091-1422</a>
	<b>Item no.2091-1522/002-000</b> 1-conductor male connector; Integrated release lever; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 2-pole; 1,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/2091-1522/002-000">www.wago.com/2091-1522/002-000</a>
	<b>Item no.2091-1402</b> THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 2-pole; light gray	<a href="http://www.wago.com/2091-1402">www.wago.com/2091-1402</a>

## 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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## Downloads

### Documentation

#### Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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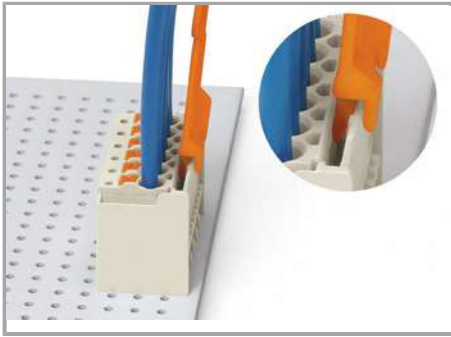
## Installation Notes

### Locking

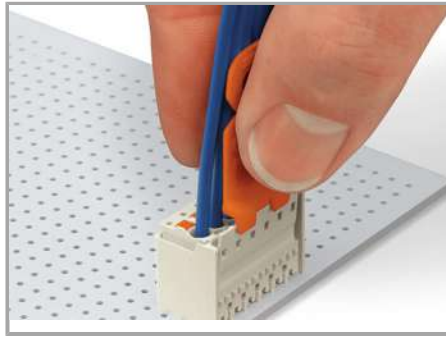
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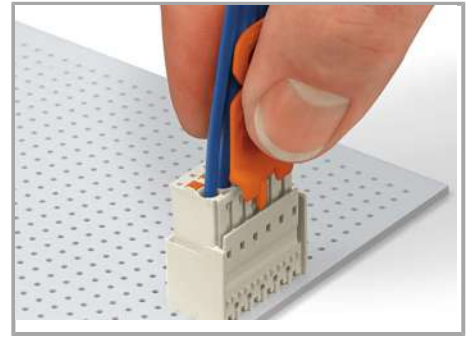
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Disconnecting female connector via unlocking tool. Plug unlocking tool into the male locking latch.

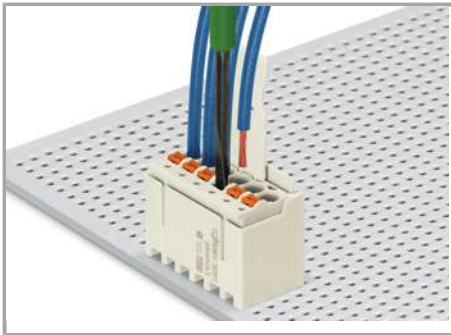


Insert unlocking tool until it hits backstop. Wedge opens locking latch.

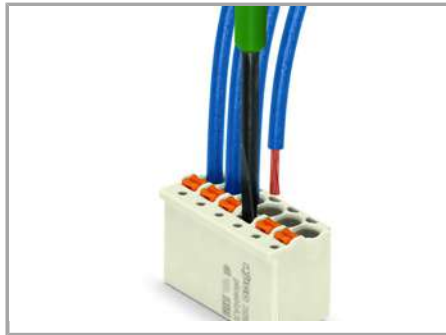


Pull on both unlocking tool and conductors to remove female connector from male header.

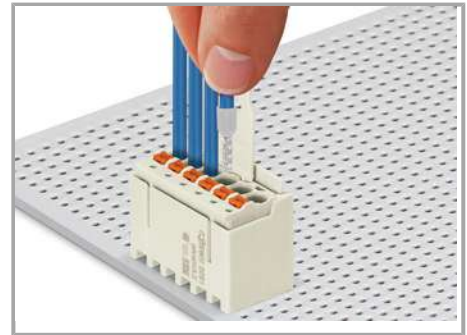
### Inserting a conductor



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



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



Inserting solid and ferruled conductors via push-in termination

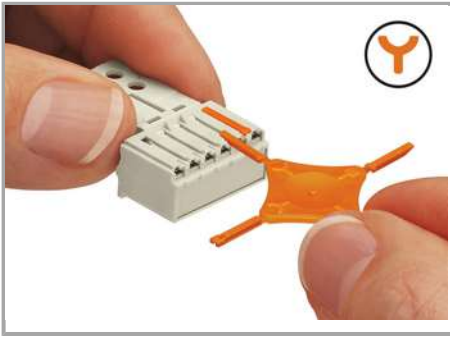
### Marking



Pole marking via factory direct printing.

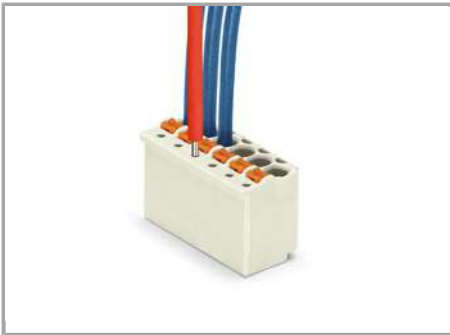
### Coding

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

### Testing



Testing with 1 mm Ø test pin, tip contact.

### Product family

picoMAX

[Show all products from the family](#)

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