

Data sheet | Item number: 2091-1103/000-5000

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 3-pole; Gripping plate; direct marking; 1,50 mm²; light gray

www.wago.com/2091-1103/000-5000

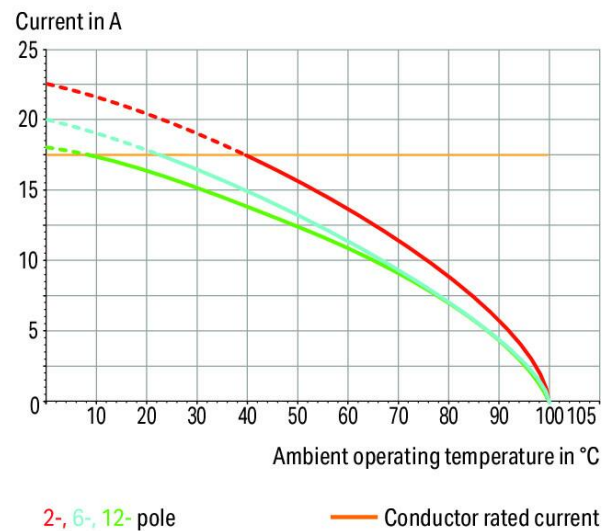


 Picture differs from the item.

Color: 

Derating Curve

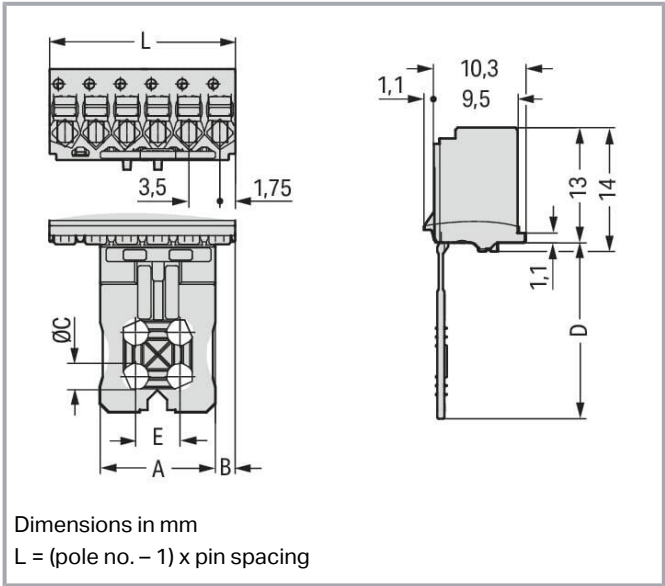
1-conductor female connector (2091-1122) with
THT male header (2091-1402)
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8



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

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Gripping plate Dimensions (in mm):					
Polzahl	A	B	C	D	E
2	6	0.45	–	17	–
3	6	2.20	–	17	–
4	6	2.20	–	17	–
5	13	2.25	3.0	20	5
6	13	2.25	3.0	20	5
7	13	5.75	3.0	20	5
8	13	5.75	3.0	20	5
10	27	2.25	4.2	25	8
12	27	5.75	4.2	25	8

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

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



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) $\triangleq$ 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

Total number of potentials	3
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 ² / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 0.75 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1.5 mm ²
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Pole number	3

Physical data

Pin spacing	3.5 mm / 0.138 inches
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Width	10.5 mm / 0.413 inches
Height	31 mm / 1.22 inches
Depth	11.4 mm / 0.449 inches

Mechanical data

Variable coding	Yes
Design	With gripping plate
Anti-rotation protection	Yes

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating 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_{Cu})
Contact plating	Tin
Fire load	0.008 MJ
Weight	1.5 g

Environmental requirements

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

Commercial data

eCl@ss 10.0	27-14-11-06
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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	4050821327714
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-49736 /A1
	CSA DEKRA Certification B.V.	C22.2	2362521
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-102260 REV.1
	UL Underwriters Laboratories Inc.	UL 1977	E45171
	UR Underwriters Laboratories Inc.	UL 1059	E45172

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Counterpart


Item no.2091-1423

THT male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 3-pole; light gray

www.wago.com/2091-1423
Item no.2091-1523/002-000

1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 3-pole; Integrated release lever; 1,50 mm²; light gray

www.wago.com/2091-1523/002-000
Item no.2091-1403

THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 3-pole; light gray

www.wago.com/2091-1403

Optional accessories

Coding

Coding


Item no.: 2091-1610

Coding key carrier; suitable for 3.5 mm pin spacing; orange

www.wago.com/2091-1610

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 0,5mm²

www.wago.com/735-500

Tool

Operating tool


Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Downloads

Documentation

Additional Information

Technical Section

2019 年4月3日

pdf

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Technical explanations

2.1 MB

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2091-1103/000-5000

URL

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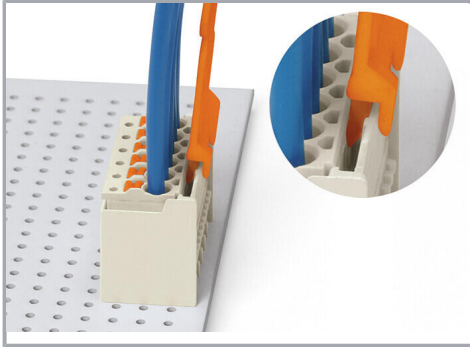
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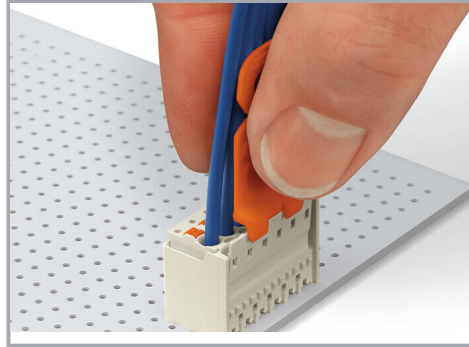
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Installation Notes

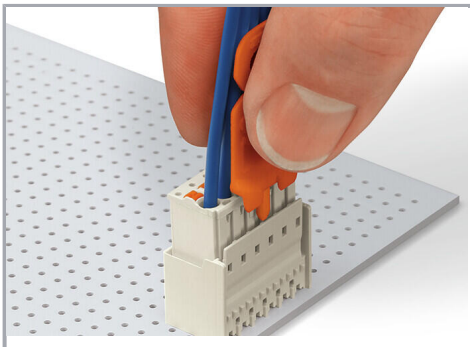
Locking system



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



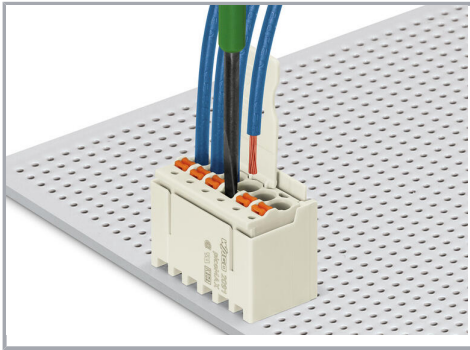
Insert unlocking tool until it hits the backstop. Wedge opens locking latches.



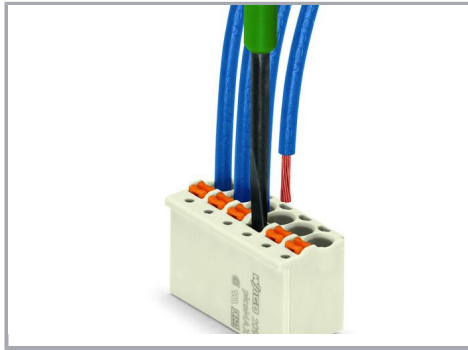
Pull on both unlocking tool and conductors to remove female connector from male header.

Conductor termination

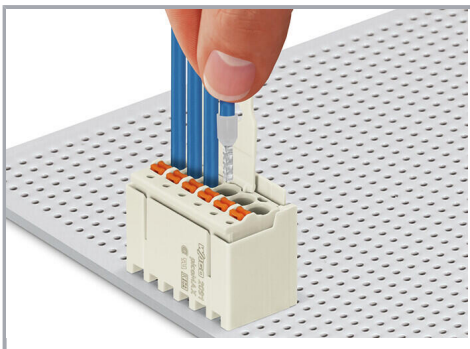
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Inserting fine-stranded conductor into mated female connector via push-button.



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



Inserting solid and ferruled conductors via push-in termination.

Marking



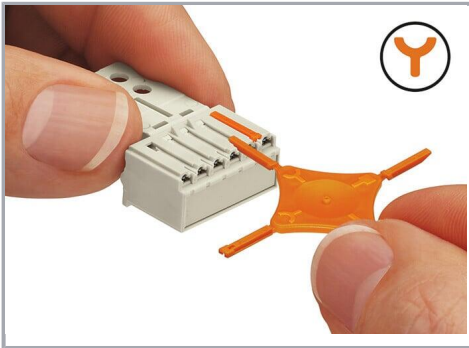
Pole marking via factory direct marking.

Coding

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

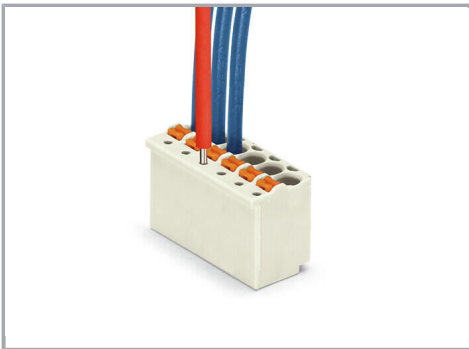
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Coding a female connector (via coding key carrier and two keys for female connector, see symbol).

Testing



Testing via 1 mm Ø test pin – touch contact.

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