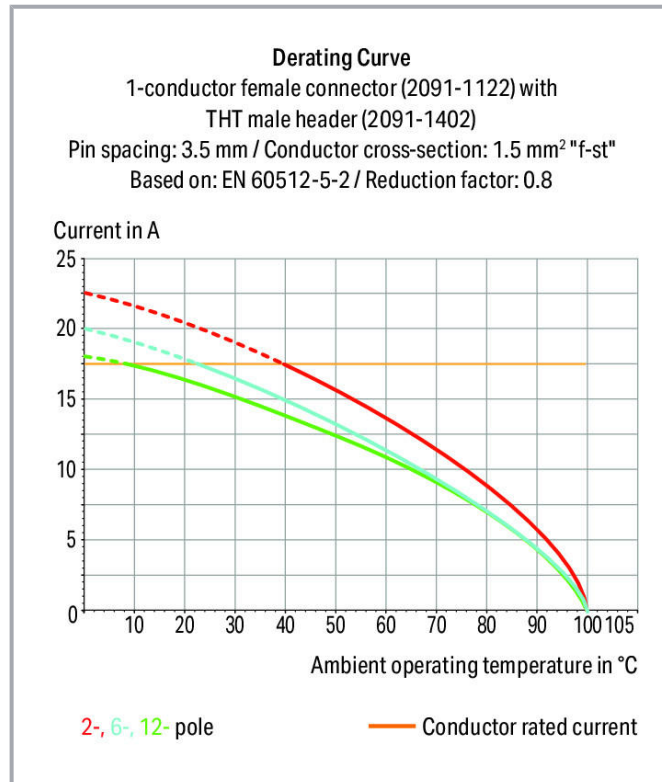
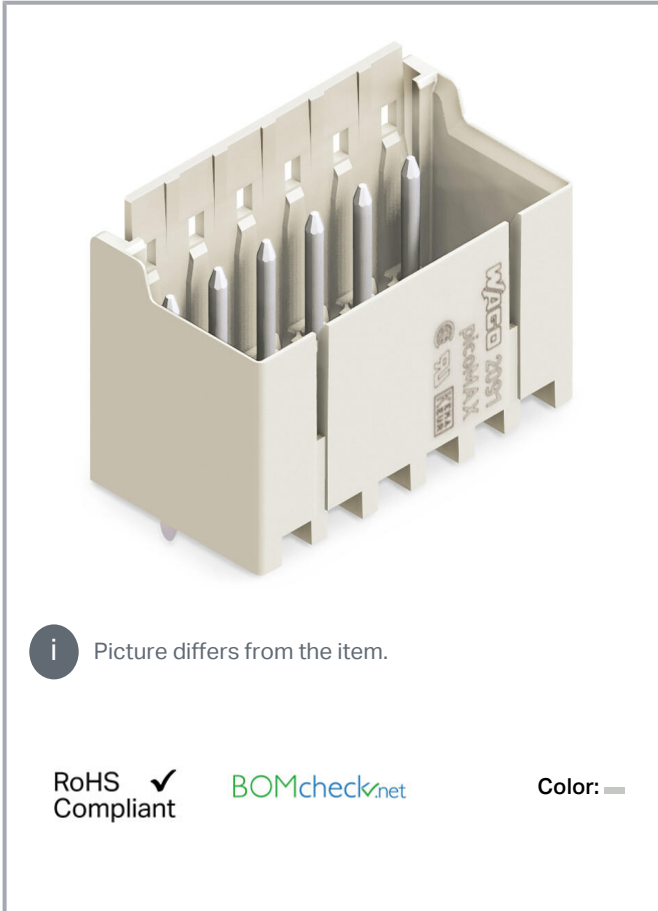


Data sheet | Item number: 2091-1412

THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; light gray

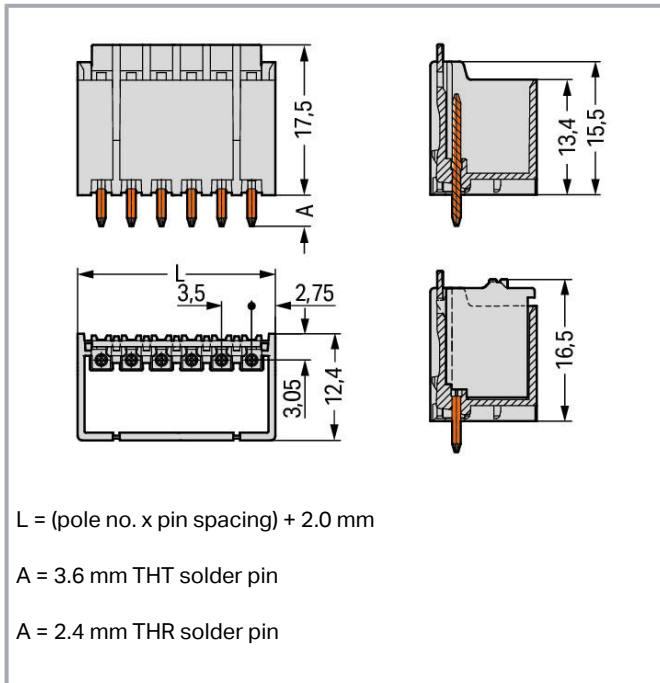
www.wago.com/2091-1412



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

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Item description

- Assembly of female connectors without loss of poles, allowing different functions to be divided within one male header
- Coding pins inserted into the header interface prevent mismatching, allowing subsequent coding in panel feedthrough applications
- The female connector is fully shrouded by the male header's housing, providing vibration resistance up to 20 g

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

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV

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



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

Ratings per CSA

Approvals per	CSA
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Connection data

Pole No.	12
Total number of potentials	12
Number of connection types	1
Number of levels	1

Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	44 mm / 1.732 inch
Height	21.1 mm / 0.831 inch
Height from the surface	17.5 mm / 0.689 inch
Depth	12.4 mm / 0.488 inch
Solder pin length	3.6 mm
Solder pin diameter	1 mm
Drilled hole diameter with tolerance	1.2 ^(+0.1) mm

Plug-in connection

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

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

Locking of plug-in connection

Locking latch

PCB contact

PCB Contact

THT

Material data

Color	light gray
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.077 MJ
Weight	3.9 g

Environmental requirements


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

Product Group	26 (picoMAX)
Packaging type	BOX
Country of origin	DE
GTIN	4050821161066
Customs tariff number	85366990990

Approvals / Certificates


Country specific 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







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



UL-Approvals


Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1977	20190909- E45171

Counterpart

	Item no.2091-1132 1-conductor female plug; 1.5 mm ² ; Pin spacing 3.5 mm; 12-pole; 1,50 mm ² ; light gray	www.wago.com/2091-1132
	Item no.2091-1112/000-1000 1-conductor female plug; Gripping plate; direct marking; 1.5 mm ² ; Pin spacing 3.5 mm; 12-pole; 1,50 mm ² ; light gray	www.wago.com/2091-1112/000-1000
	Item no.2091-1112/000-5000 1-conductor female plug; Gripping plate; direct marking; 1.5 mm ² ; Pin spacing 3.5 mm; 12-pole; 1,50 mm ² ; light gray	www.wago.com/2091-1112/000-5000
	Item no.2091-1112 1-conductor female plug; Gripping plate; 1.5 mm ² ; Pin spacing 3.5 mm; 12-pole; 1,50 mm ² ; light gray	www.wago.com/2091-1112
	Item no.2091-1112/002-000 1-conductor female plug; Gripping plate sliding connector release; 1.5 mm ² ; Pin spacing 3.5 mm; 12-pole; 1,50 mm ² ; light gray	www.wago.com/2091-1112/002-000
	Item no.2091-1112/002-1000 1-conductor female plug; Gripping plate sliding connector release; direct marking; 1.5 mm ² ; Pin spacing 3.5 mm; 12-pole; 1,50 mm ² ; light gray	www.wago.com/2091-1112/002-1000

Compatible products

Coding

	Item no.: 2091-1610 Coding key carrier; suitable for 3.5 mm pin spacing; orange	www.wago.com/2091-1610
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Downloads

Documentation

Additional Information

Technical explanations	2019 Apr 3	pdf	Download
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Subject to changes. Please also observe the further product documentation!

CAD/CAE-Data

CAD data

2D/3D Models 2091-1412	URL	Download
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PCB Design

Symbol and Footprint 2091-1412	URL	Download
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CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

CAE data

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

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2091-1412

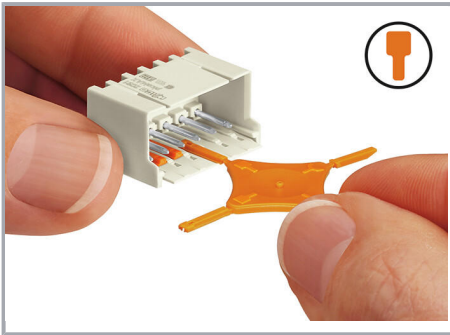
[URL](#)

[Download](#)

THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; light gray

Installation Notes

Coding



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

Product family

[*<i>picoMAX</i>[®] 3.5*](#)

[Show all products from the family](#)

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