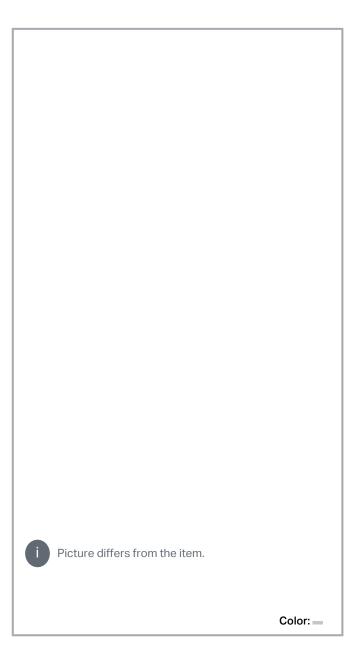
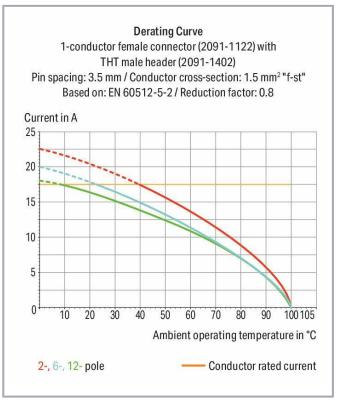
THR male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing

N/AGO

3.5 mm; 12-pole; light gray www.wago.com/2091-1412/205-000





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

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Dimensions in mm
L = (pole no. x pin spacing) + 2.0 mm
L <sub>1</sub> = (pole no. x pin spacing) + 7.8 mm
L <sub>2</sub> = (pole no. x pin spacing) + 6.8 mm
A = 3.6 mm THT solder pin
A = 2.4 mm THR solder pin

### Item description

Assembly of female connectors without loss of poles, allowing different functions to be divided within one male header

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- Coding pins inserted into the header interface prevent mismating, 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

# Data Notes

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

#### 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
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	10 A
Legend (ratings)	(III / 2) ≙ 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	12
----------------------------	----

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Number of connection types	1	
Number of levels	1	

#### Connection 1

Pole No.	12	

### Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	44 mm / 1.732 inch
Height	19.9 mm / 0.783 inch
Height from the surface	17.5 mm / 0.689 inch
Depth	12.4 mm / 0.488 inch
Solder pin length	2.4 mm
Solder pin diameter	1 mm
Plated through-hole diameter (THR)	1.2 <sup>(+0.1)</sup> mm

#### Mechanical data

Mounting type	Mounting flange
Mounting type	Feed-through mounting
	Panel mounting

### Plug-in connection

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

# **PCB** contact

PCB Contact	THR
-------------	-----

#### Material data

Note on material data	Information on material data can be found here
Color	light gray
Material group	1
Insulation material	Polyphthalamide (PPA GF)

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.095 MJ
Weight	4.2 g

### **Environmental requirements**

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

#### Commercial data

PU (SPU)	100 Stück
Packaging type	box
Country of origin	DE
GTIN	4050821412113
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	KEMA/KEUR  DEKRA Certification B.V.	EN 61984	71- 102260 REV.1



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

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#### Counterpart

Item no.2091-1132

1,50 mm<sup>2</sup>; light gray

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole;

Optional accessories

Coding

Coding

Item no.: 2091-1610

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

www.wago.com/2091-1610

**Downloads** 

**Documentation** 

Additional Information

Download Technical explanations Apr 3, 2019 pdf 2.0 MB Download **THR Soldering Process** pdf

402.7 kB

CAD/CAE-Data

**CAD** data

2D/3D Models 2091-1412/205-000 URL Download

CAE data

ZUKEN Portal 2091-1412/205-000 **URL** Download

**Environmental Product Compliance** 

Compliance Search

Environmental Product Compliance 2091-1412/205-000

THR male header; 1.0 mm Ø solder pin; straight; clamping collar; Pin spacing 3.5 mm;

12-pole; light gray

**URL** Download

**Installation Notes** 

Coding

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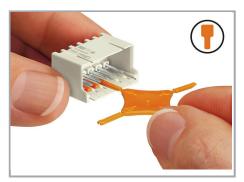
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Coding a male header (via coding key carrier and two keys for male header, see symbol).

# **Product family**

<i>picoMAX</i><sup>®</sup> 3.5 Show all products from the family

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