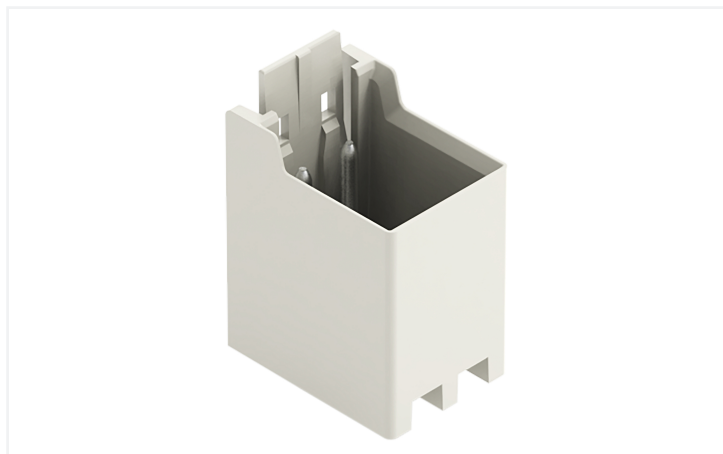


Data Sheet | Item Number: 2091-1403

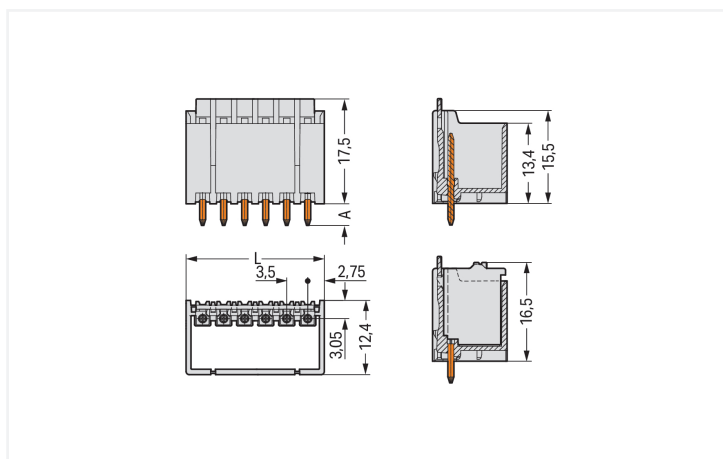
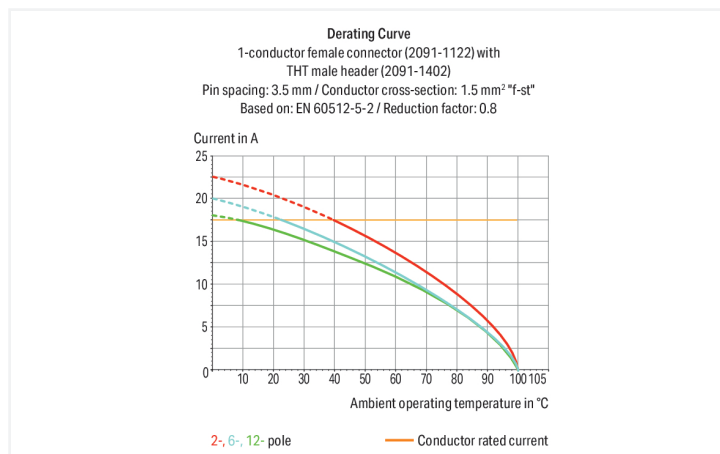
THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 3-pole; light gray

<https://www.wago.com/2091-1403>



Color: ■ light gray

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 2.0 \text{ mm}$
 $A = 3.6 \text{ mm THT solder pin}$
 $A = 2.4 \text{ mm THR solder pin}$

Male connector, 2091 Series, light gray

Our male connector (item number 2091-1403) is designed for seamless electrical installations. The dimensions are (12.5 x 21.1 x 12.4) mm (width x height x depth).

The contact surface is coated with tin. The pcb connector is designed for THT soldering.



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. 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 60664-1			Approvals per	
		III	III	II	UL 1059	
Overvoltage category		III	III	II	Use group	B C D
Pollution degree		3	2	2	Rated voltage	300 V - 300 V
Nominal voltage		160 V	160 V	320 V	Rated current	10 A - 10 A
Rated impulse withstand voltage		2.5 kV	2.5 kV	2.5 kV		
Rated current		10 A	10 A	10 A		

Connection Data		
Total number of potentials	3	Connection 1 Pole number 3
Number of connection types	1	
Number of levels	1	

Physical data	
Pin spacing	3.5 mm / 0.138 inches
Width	12.5 mm / 0.492 inches
Height	21.1 mm / 0.831 inches
Height from the surface	17.5 mm / 0.689 inches
Depth	12.4 mm / 0.488 inches
Solder pin length	3.6 mm
Solder pin diameter	1 mm
Drilled hole diameter with tolerance	1.2 (+0.1) mm

Mechanical data	
Variable coding	Yes
Suitable	suitable for Single Pair Ethernet (SPE)
Anti-rotation protection	Yes

Plug-in connection	
Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Plugging without loss of pin spacing	Yes
Mating direction to the PCB	90 °
Locking of plug-in connection	Locking latch



PCB contact		
PCB contact		THT

Material data		
Note (material data)		Information on material specifications can be found here
Color		light gray
Material group		I
Insulation material (main housing)		Polyphthalamide (PPA GF)
Flammability class per UL94		V0
Contact material		Electrolytic copper (E _{Cu})
Contact Plating		Tin
Fire load		0.03 MJ
Weight		1.3 g

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

Commercial data		
Product Group		26 (picoMAX Connectors)
PU (SPU)		200 pcs
Packaging type		Box
Country of origin		DE
GTIN		4050821161004
Customs tariff number		85366930000

Product Classification		
UNSPSC		39121409
eCl@ss 10.0		27-44-04-02
eCl@ss 9.0		27-44-04-02
ETIM 9.0		EC002637
ETIM 10.0		EC002637
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-89884
CSA CSA Group	C22.2	2362521
CSA DEKRA Certification B.V.	C22.2 No. 158	2362521
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-129873



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2091-1403

↓

Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

↓

CAD/CAE-Data

CAD data

2D/3D Models 2091-1403

↓

CAE data

ZUKEN Portal 2091-1403

↓

PCB Design

Symbol and Footprint via SamacSys 2091-1403

↓

Symbol and Footprint via Ultra Librarian 2091-1403

↓

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 2091-1123

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

Item No.: 2091-1103/002-000

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

Item No.: 2091-1103/002-1000

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

Item No.: 2091-1103

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

Item No.: 2091-1103/000-1000

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

Item No.: 2091-1103/000-5000

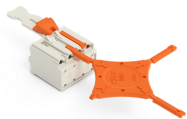
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 3-pole; Gripping plate; direct marking; 1,50 mm²; light gray

1.2 Optional Accessories
1.2.1 Coding
1.2.1.1 Coding



Item No.: [2091-1610](#)
Coding key carrier; suitable for 3.5 mm pin spacing; orange

Installation Notes
Coding



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