

Data Sheet | Item Number: 2091-1152

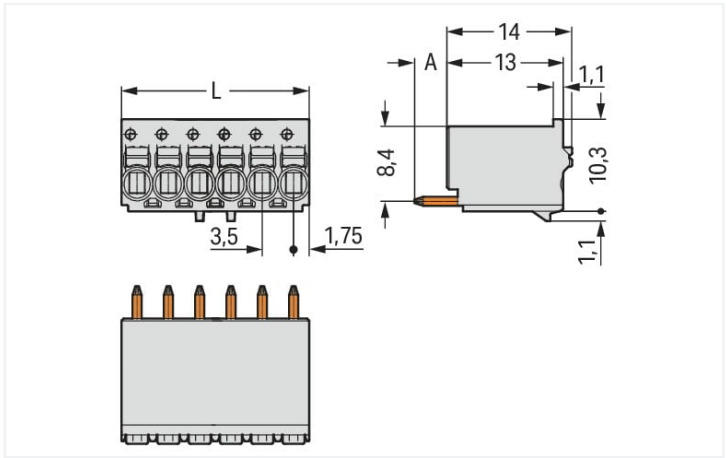
1-conductor THT female connector straight; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1.0 mm Ø solder pin; Gripping plate; 1,50 mm²; light gray

<https://www.wago.com/2091-1152>



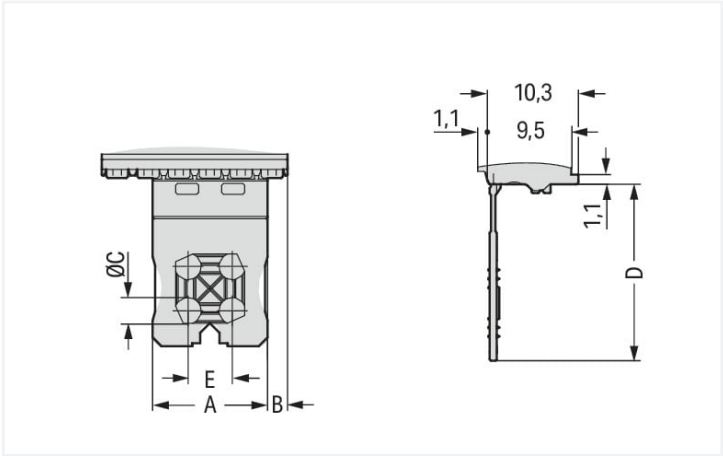
Color: ■ light gray

Similar to illustration

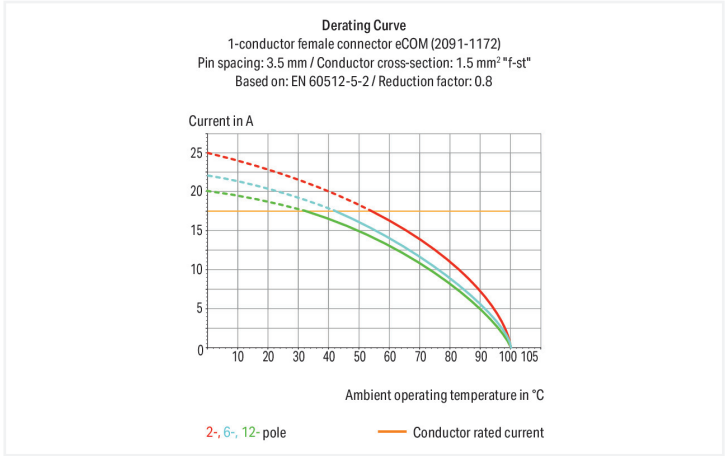


Dimensions in mm

L = pole no. x pin spacing
A = 3.6 mm THT solder pin
A = 2.4 mm THR solder pin



Dimensions in mm



- Universal connection for 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
- Integrated test ports for testing parallel to conductor entry
- Custom-installed solder pins

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.



Electrical data							
Ratings per		IEC/EN 60664-1		Approvals per		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 surge voltage	2.5 kV	2.5 kV	2.5 kV				
Rated current	10 A	10 A	10 A				

Connection data																							
Connection points	2	Connection 1 <table><tr><td>Connection technology</td><td>Push-in CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Push-button</td></tr><tr><td>Actuation direction 1</td><td>Operation parallel to conductor entry</td></tr><tr><td>Solid conductor</td><td>0.2 ... 1.5 mm² / 24 ... 14 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.2 ... 1.5 mm² / 24 ... 14 AWG</td></tr><tr><td>Fine-stranded conductor; with insulated ferrule</td><td>0.25 ... 0.75 mm²</td></tr><tr><td>Fine-stranded conductor; with uninsulated ferrule</td><td>0.25 ... 1.5 mm²</td></tr><tr><td>Strip length</td><td>8 ... 9 mm / 0.31 ... 0.35 inches</td></tr><tr><td>Conductor connection direction to PCB</td><td>90 °</td></tr><tr><td>Pole number</td><td>2</td></tr></table>		Connection technology	Push-in CAGE CLAMP®	Actuation type	Push-button	Actuation direction 1	Operation parallel to conductor entry	Solid conductor	0.2 ... 1.5 mm² / 24 ... 14 AWG	Fine-stranded conductor	0.2 ... 1.5 mm² / 24 ... 14 AWG	Fine-stranded conductor; with insulated ferrule	0.25 ... 0.75 mm²	Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1.5 mm²	Strip length	8 ... 9 mm / 0.31 ... 0.35 inches	Conductor connection direction to PCB	90 °	Pole number	2
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Conductor connection direction to PCB	90 °																						
Pole number	2																						
Total number of potentials	2																						
Number of connection types	1																						
Number of levels	1																						

Physical data	
Pin spacing	3.5 mm / 0.138 inches
Width	7 mm / 0.276 inches
Height	30 mm / 1.181 inches
Depth	11.4 mm / 0.449 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	No
Design	with gripping plate
Anti-rotation protection	Yes

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



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	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	0.023 MJ
Weight	1.2 g

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

Commercial data	
Product Group	26 (picoMAX Connectors)
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 8.0	EC002637
ETIM 7.0	EC002637
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821162322
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals		General approvals	
		UR	E45172
		Underwriters Laboratories Inc.	

Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-49736/A1
CSA DEKRA Certification B.V.	C22.2	2362521
CSA DEKRA Certification B.V.	C22.2 No. 158	2362521
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-102260 REV.1
UL Underwriters Laboratories Inc.	UL 1977	E45171

UL 1059

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2091-1152

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Documentation

Additional Information

Technical Section

03.04.2019

pdf

2010.85 KB

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CAD/CAE-Data

CAD data

2D/3D Models 2091-1152

↓

CAE data

ZUKEN Portal 2091-1152

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1 Compatible Products

1.1 Optional Accessories

1.1.1 Coding

1.1.1.1 Coding



Item No.: 2091-1610
Coding key carrier; suitable for 3.5 mm pin spacing; orange

1.1.2 Strain relief

1.1.2.1 Strain relief plate



Item No.: 2091-1603
Gripping plate; for female and male connectors; 1 part; Pin spacing 3.5 mm; light gray

1.1.3 Test and measurement

1.1.3.1 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

1.1.4 Tool

1.1.4.1 Operating tool



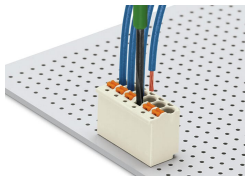
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



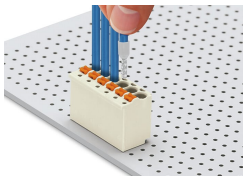
Item No.: 2092-1630
Unlocking tool; orange

Installation Notes

Conductor termination



Terminating fine-stranded conductors and removing all conductor types via push-buttons.



Solid and ferruled conductors are terminated by simply pushing them into unit.

Marking



Pole marking via direct marking perpendicular to conductor entry.



Pole marking via factory direct marking.

Testing



Testing via 1 mm Ø test pin – touch contact.