

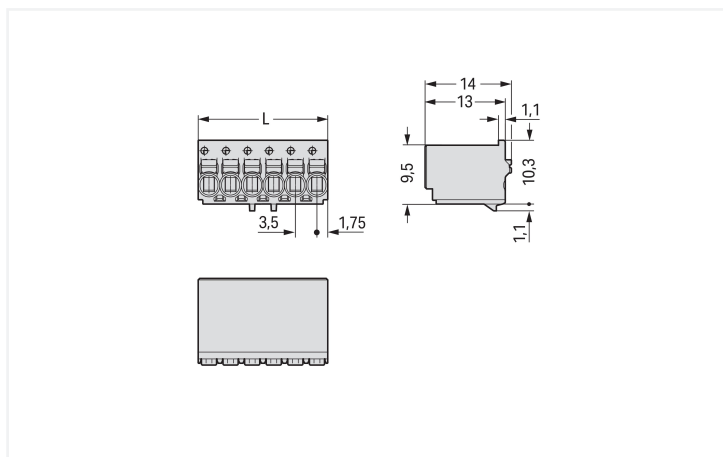
Data Sheet | Item Number: 2091-1132

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 1,50 mm²; light gray

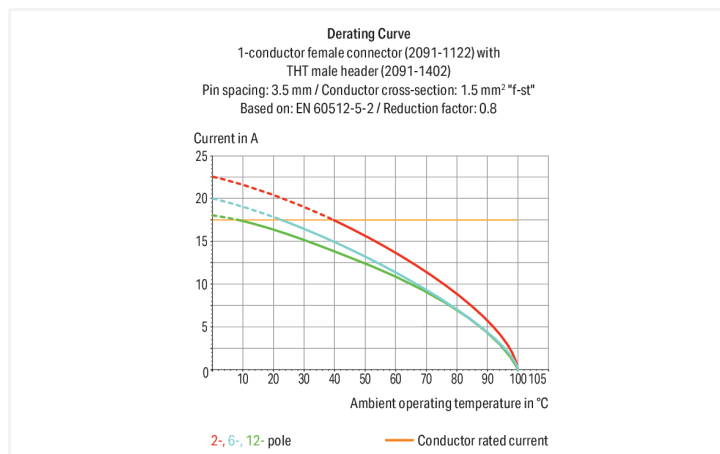
<https://www.wago.com/2091-1132>



Color: ■ light gray



Dimensions in mm
L = pole no. x pin spacing



Female connector, 2091 Series, with 3.5 mm pin spacing

Convenient electrical installations are guaranteed with this female connector (item number 2091-1132). Ensure that the strip lengths are between 8 and 9 mm when connecting conductors to this female connector. This product incorporates one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Both solid and fine-stranded conductors with ferrules can be plugged in without the need for tools—all thanks to its pluggable design. The dimensions are (42 x 14 x 11.4) mm (width x height x depth). This female connector is suitable for conductor cross sections ranging from 0.2 mm² to 1.5 mm².

The contact surface is coated with tin.



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 un-mated.
Safety information 2	The use of ferrules is recommended for applications with higher requirements. To prevent excessive force on the clamping point, effective cable strain relief must be used.
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		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		160 V	160 V	320 V
Rated impulse withstand voltage		2.5 kV	2.5 kV	2.5 kV
Rated current		10 A	10 A	10 A

Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		300 V	-	300 V
Rated current		10 A	-	10 A

Connection Data	
Clamping units	12
Total number of potentials	12
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 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
Pole number	12

Physical data	
Pin spacing	3.5 mm / 0.138 inches
Width	42 mm / 1.654 inches
Height	14 mm / 0.551 inches
Depth	11.4 mm / 0.449 inches

Mechanical data	
Variable coding	Yes
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

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
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.065 MJ
Weight	5.5 g

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

Commercial data	
Product Group	26 (picoMAX Connectors)
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821160823
Customs tariff number	85366990990

Product Classification	
UNSPSC	39121409
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 9.0	EC001284
ETIM 10.0	EC001284
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
UR Underwriters Laboratories Inc.	UL 1059	E45172

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 2091-1132 

Documentation

Additional Information
Technical Section 03.04.2019 pdf 2027.26 KB 

CAD/CAE-Data

CAD data
2D/3D Models 2091-1132 

CAE data
ZUKEN Portal 2091-1132 

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



Item No.: 2091-1532/020-000 1-conductor male connector; Push-in CA-GE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; DIN-35 rail/panel mounting; Snap-in mounting feet; Integrated release lever; 1,50 mm²; light gray



Item No.: 2091-1532/020-3000 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; DIN-35 rail/panel mounting; Snap-in mounting feet; Integrated release lever; direct marking; 1,50 mm²; light gray



Item No.: 2091-1512/002-000 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; Gripping plate; 1,50 mm²; light gray



Item No.: 2091-1512/002-3000 1-conductor male connector; Push-in CA-GE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; Gripping plate; direct marking; 1,50 mm²; light gray



1.1.1 Male connector/plug

 Item No.: 2091-1532/002-000 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; Integrated release lever; 1,50 mm²; light gray	 Item No.: 2091-1532/002-3000 1-conductor male connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; Integrated release lever; direct marking; 1,50 mm²; light gray	 Item No.: 2091-1432/205-000 THR male header; 1.0 mm Ø solder pin; angled; clamping collar; Pin spacing 3.5 mm; 12-pole; light gray	 Item No.: 2091-1432/200-000 THR male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 12-pole; light gray
 Item No.: 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	 Item No.: 2091-1412/200-000 THR male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; light gray	 Item No.: 2091-1732/200-000 THR pin strip; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 12-pole; black	 Item No.: 2091-1712/200-000 THR pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; black
 Item No.: 2091-1432 THT male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 12-pole; light gray	 Item No.: 2091-1412 THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; light gray	 Item No.: 2091-1732 THT pin strip; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 12-pole; black	 Item No.: 2091-1712 THT pin strip; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 12-pole; black

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

1.2.2 Ferrule

1.2.2.1 Ferrule

 Item No.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	 Item No.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored	 Item No.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise	 Item No.: 216-132 Ferrule; Sleeve for 0.34 mm² / 22 AWG; uninsulated; electro-tin plated
 Item No.: 216-101 Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored	 Item No.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	 Item No.: 216-102 Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored	 Item No.: 216-122 Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored
 Item No.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	 Item No.: 216-103 Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated	 Item No.: 216-204 Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; black	 Item No.: 216-104 Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

1.2.3 Strain relief

1.2.3.1 Gripping plate



Item No.: 2091-1603/002-000
Gripping plate with sliding connector re-
lease; for female and male connectors; 2
parts; Pin spacing 3.5 mm; light gray

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

1.2.4 Test and measurement

1.2.4.1 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

1.2.5 Tool

1.2.5.1 Operating tool

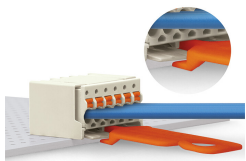


Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a
partially insulated shaft

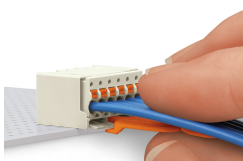
Item No.: 2092-1630
Unlocking tool; orange

Installation Notes

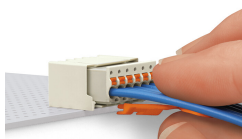
Locking system



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

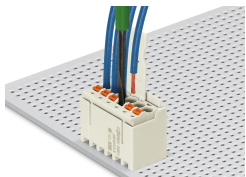


Insert unlocking tool until it hits the back-
stop. Wedge opens locking latches.



Pull on both unlocking tool and conduc-
tors to remove female connector from
male header.

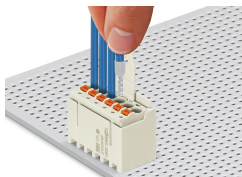
Conductor termination



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



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.