

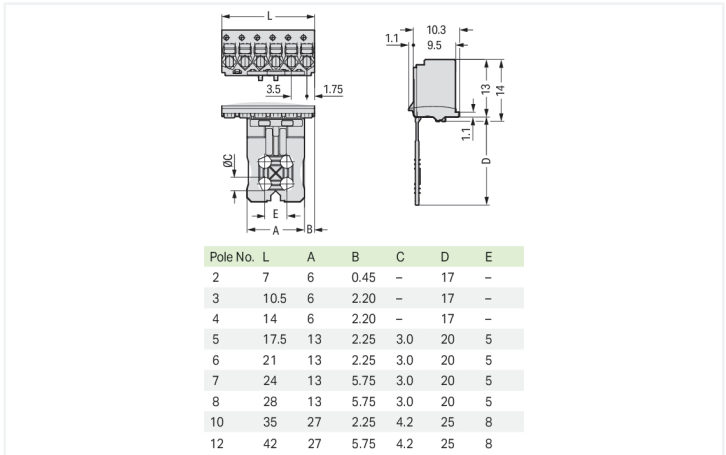
Data Sheet | Item Number: 2091-1102

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

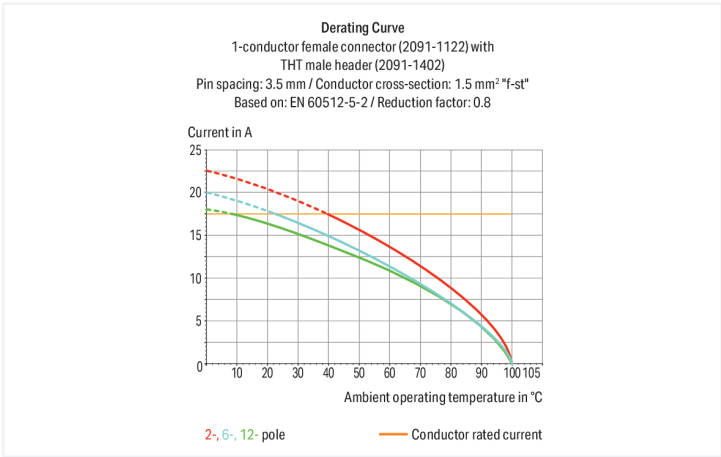
<https://www.wago.com/2091-1102>



Color: ■ light gray



Dimensions in mm



Federleiste/Buchse Serie 2091 mit Rastermaß 3,5 mm

Bei dieser Federleiste/Buchse mit der Artikelnummer 2091-1102 ist eine reibungslose Elektroinstallation der Fokus. Unsere Leiterplatten-Steckverbinder ermöglichen Ihnen die größtmögliche Flexibilität bei unterschiedlichen Montagearten. Diese Federleiste/Buchse benötigt für den Leiteranschluss eine Abisolierung mit Längen zwischen 8 und 9 mm . Dieses Produkt verwendet die Push-in CAGE CLAMP®-Technologie. Die Push-in CAGE CLAMP® Anschlusstechnik ist der Universalanschluss für alle Leiterarten mit dem Zusatznutzen des direkten Steckens. Starre Leiter sowie feindrähtige Leiter mit Aderendhülse können ohne Werkzeug direkt in die Klemmstelle gesteckt werden. Die Maße sind in Breite x Höhe x Tiefe (7 x 30 x 11,4) mm. In Abhängigkeit von der Leiterart eignet sich diese Federleiste/Buchse für Leiterquerschnitte von 0,2 mm² bis 1,5 mm². Die Kontaktoberfläche ist aus Zinn. Durch einen Drücker wird diese Federleiste/Buchse betätigt. picoMAX® ist das kompakte Steckverbindersystem mit innovativem Design. Es verwendet die Kontaktkraft einer einzigen Cr-Ni-Stahlfeder doppelt – einerseits für den Anschluss des Leiters, andererseits für die Kontaktierung des Steckertiftes.

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.
Safety information 2	The use of ferrules is recommended for applications with higher requirements.
Variants:	Effective cable securing must be used to prevent undue force on the clamping unit. 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 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

Clamping units	2	Connection 1	
Total number of potentials	2	Connection technology	Push-in CAGE CLAMP®
Number of connection types	1	Actuation type	Push-button
Number of levels	1	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	2

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

Mechanical data

Variable coding	Yes
Design	with gripping plate
Suitable	suitable for Single Pair Ethernet (SPE)
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	0.023 MJ



Material data

Weight	1 g
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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	4050821160670
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 8.0	EC001284
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



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
UR Underwriters Laboratories Inc.	UL 1059	E45172



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2091-1102

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Documentation

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB	Download icon
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CAD/CAE-Data

CAD data	CAE data
2D/3D Models 2091-1102	ZUKEN Portal 2091-1102
Download icon	Download icon

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug

Item No.: 2091-1522/002-000
1-conductor male connector; Push-in CA-GE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Integrated release lever; 1,50 mm²; light gray

Item No.: 2091-1422
THT male header; 1.0 mm Ø solder pin; angled; Pin spacing 3.5 mm; 2-pole; light gray

Item No.: 2091-1402
THT male header; 1.0 mm Ø solder pin; straight; Pin spacing 3.5 mm; 2-pole; 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



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 / AWG 24; 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.: 216-143
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



Item No.: 216-204
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



Item No.: 216-144
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored



Item No.: 216-104
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored



Item No.: 216-106
Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

1.2.3 Test and measurement

1.2.3.1 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

1.2.4 Tool

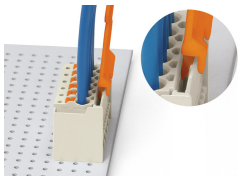
1.2.4.1 Operating tool



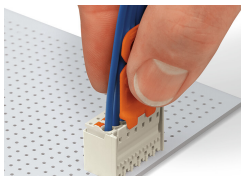
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

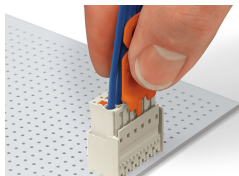
Locking system



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

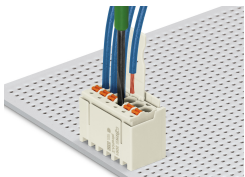


Insert unlocking tool until it hits the back-
stop. Wedge opens locking latches.



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

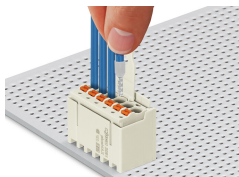
Conductor termination



Inserting fine-stranded conductor into
mated female connector via push-button.



Inserting a fine-stranded conductor into
an unmated female connector via push-
button.



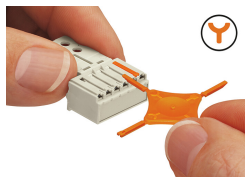
Inserting solid and ferruled conductors
via push-in termination.

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 con-
tact.