

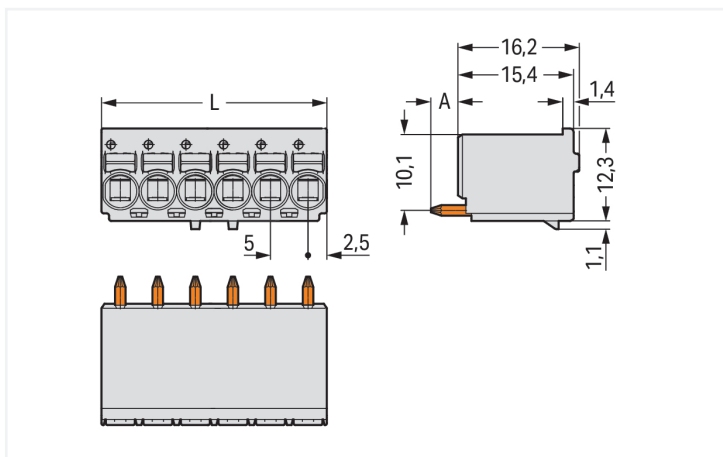
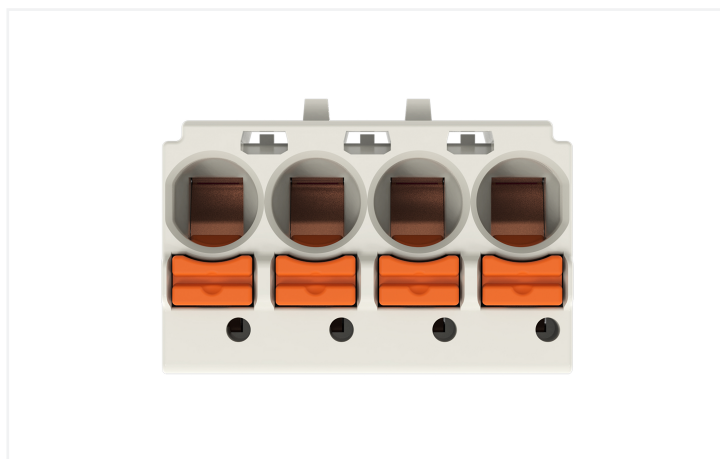
Data Sheet | Item Number: 2092-1174

1-conductor THT female connector straight; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 4-pole; 1.4 mm Ø solder pin; 2,50 mm²; light gray

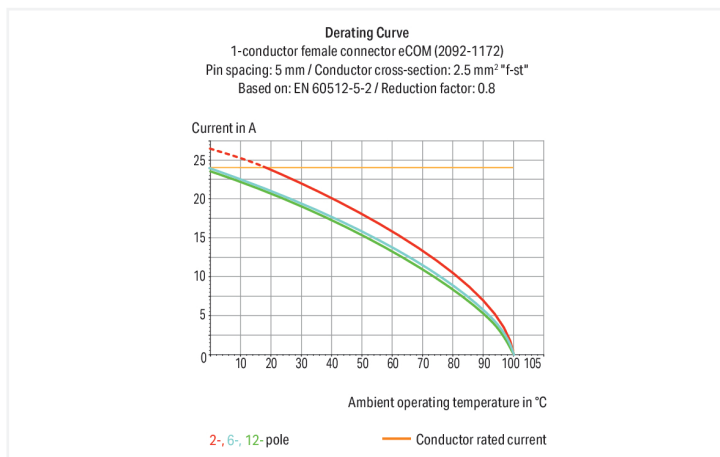
<https://www.wago.com/2092-1174>



Color: ■ light gray



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



Federleiste/Buchse Serie 2092 mit Rastermaß 5 mm

Die Federleiste/Buchse hat die Artikelnummer 2092-1174 und ermöglicht eine ordentliche Elektroinstallation. Mit unseren Leiterplatten-Steckverbindern erhalten Sie ein ganzheitliches Steckverbindersystem, das vielseitig eingesetzt werden kann: als Leiterplatten-Steckverbinder, als Durchführungssteckverbinder, als fliegende Steckverbindung für verschiedene Montagearten oder als Steckverbinder auf Reihenklemmen. Diese Federleiste/Buchse benötigt für den Leiteranschluss eine Abisolierung mit Längen zwischen 9 und 10 mm. Dieses Produkt verwendet die Push-in CAGE CLAMP®-Technologie. Push-in CAGE CLAMP® ist der wartungsfreie Universalanschluss für alle Leiterarten mit dem Zusatznutzen des direkten Steckens: Push-in. Starre Leiter sowie feindrähtige Leiter mit Aderendhülse können ohne Werkzeug direkt gesteckt werden. Eine Vorbehandlung der Leiter, z. B. durch das Aufcrimpen von Aderendhülsen, ist nicht erforderlich. In Breite x Höhe x Tiefe sind die Abmessungen (20 x 16,2 x 13,4) mm. In Abhängigkeit von der Leiterart eignet sich diese Federleiste/Buchse für Leiterquerschnitte von 0,2 mm² bis 2,5 mm². Die Kontaktoberfläche ist aus Zinn. Durch einen Drücker wird diese Federleiste/Buchse betätigt. picoMAX® ist ein kompaktes Steckverbindersystem mit innovativem Design. Es kann die Kontaktkraft einer einzigen Cr-Ni-Stahlfeder doppelt nutzen – einerseits für die Kontaktierung des Steckerstiftes, andererseits für den Anschluss des Leiters. Die Verlotung des Leiterplatten-Steckverbinders erfolgt mittels THT. Der Leiter wird zur Oberfläche in einem 90 °-Winkel eingeführt.

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.

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	250 V	320 V	630 V	Rated current	15 A	-	10 A
Rated impulse withstand voltage	4 kV	4 kV	4 kV				
Rated current	16 A	16 A	16 A				

Connection data

Clamping units	4	Connection 1	
Total number of potentials	4	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 ... 2.5 mm ² / 24 ... 12 AWG
		Fine-stranded conductor	0.2 ... 2.5 mm ² / 24 ... 12 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ²
		Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ²
		Strip length	9 ... 10 mm / 0.35 ... 0.39 inches
		Conductor connection direction to PCB	90 °
		Pole number	4

Physical data

Pin spacing	5 mm / 0.197 inches
Width	20 mm / 0.787 inches
Height	16.2 mm / 0.638 inches
Depth	13.4 mm / 0.528 inches
Solder pin length	3.6 mm
Solder pin diameter	1.4 mm
Drilled hole diameter with tolerance	1.6 ^(+0.1) mm

Mechanical data

Variable coding	No
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
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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	0.083 MJ
Weight	4.4 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	4050821165125
Customs tariff number	85366990990

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 8.0	EC002637
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-49737/A1
CSA DEKRA Certification B.V.	C22.2	2362521
CSA DEKRA Certification B.V.	C22.2 No. 158	2362521
cURus Underwriters Laboratories Inc.	UL 1059	E45172
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-102261 REV.2
UL Underwriters Laboratories Inc.	UL 1977	E45171

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2092-1174	↓

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models
2092-1174

CAE data

ZUKEN Portal
2092-1174

PCB Design

Symbol and Footprint
via SamacSys
2092-1174
















Symbol and Footprint
via Ultra Librarian
2092-1174

1 Compatible Products

1.1 Optional Accessories


1.1.1 Ferrule

1.1.1.1 Ferrule

 Item No.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; un-insulated; electro-tin plated; yellow	 Item No.: 216-131 Ferrule; Sleeve for 0.25 mm ² / AWG 24; un-insulated; electro-tin plated; silver-colored	 Item No.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; un-insulated; electro-tin plated; light turquoise	 Item No.: 216-132 Ferrule; Sleeve for 0.34 mm ² / AWG 24; un-insulated; electro-tin plated
 Item No.: 216-101 Ferrule; Sleeve for 0.5 mm ² / AWG 22; un-insulated; electro-tin plated; silver-colored	 Item No.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; un-insulated; electro-tin plated; gray	 Item No.: 216-102 Ferrule; Sleeve for 0.75 mm ² / AWG 20; un-insulated; electro-tin plated; silver-colored	 Item No.: 216-122 Ferrule; Sleeve for 0.75 mm ² / AWG 20; un-insulated; electro-tin plated; silver-colored
 Item No.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; un-insulated; electro-tin plated; red	 Item No.: 216-103 Ferrule; Sleeve for 1 mm ² / AWG 18; un-insulated; electro-tin plated	 Item No.: 216-143 Ferrule; Sleeve for 1 mm ² / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	 Item No.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; un-insulated; electro-tin plated; black
 Item No.: 216-144 Ferrule; Sleeve for 1.5 mm ² / AWG 16; un-insulated; 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 mm ² / AWG 16; un-insulated; electro-tin plated; silver-colored	 Item No.: 216-106 Ferrule; Sleeve for 2.5 mm ² / AWG 14; un-insulated; electro-tin plated; silver-colored	

1.1.2 Test and measurement

1.1.2.1 Testing accessories



Item No.: 735-500
 WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm un-insulated; Test lead for soldering up to 0,5mm²

1.1.3 Tool

1.1.3.1 Operating tool

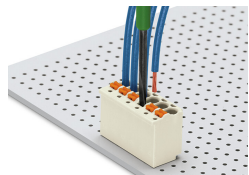


Item No.: 210-719

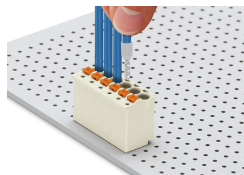
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

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.