Data sheet | Item number: 2091-1177

1-conductor female plug; push-button; 1.5 mm²; Pin spacing 3.5 mm; 7-pole;
1,50 mm²; light gray

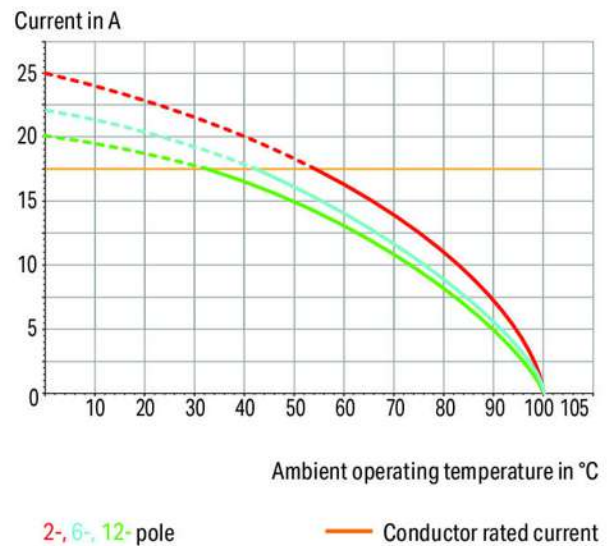www.wago.com/2091-1177

i Picture differs from the item.
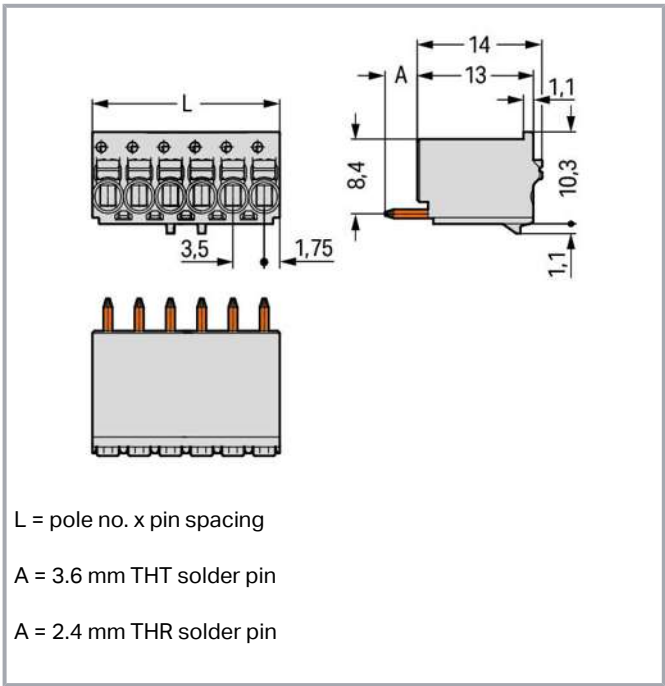
RoHS ✓
Compliant

BOMcheck.net

Color:

Derating Curve
1-conductor female connector eCOM (2091-1172)
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A

Ambient operating temperature in °C

2-, 6-, 12- pole   —— Conductor rated current

Subject to changes. Please also observe the further product documentation!

Item description

■ 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

Safety information 1:

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.

Data
Electrical data

IEC Approvals

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	160 V

Subject to changes. Please also observe the further product documentation!

Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	10 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

UL Approvals

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

CSA Approvals

Approvals per	CSA

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
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 inch
Pole No.	7
Total number of connection points	7
Total number of potentials	7
Number of connection types	1
Number of levels	1

Physical data

Pin spacing	3.5 mm / 0.138 inch
Width	24.5 mm / 0.965 inch
Height	14 mm / 0.551 inch

Subject to changes. Please also observe the further product documentation!

Depth	11.4 mm / 0.449 inch
Solder pin length	3.6 mm
Solder pin diameter	1 mm
Drilled hole diameter with tolerance	1.2 $^{(+0.1)}$ mm

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for PCB
Mismating protection	No
Mating direction to the PCB	90 °

PCB contact

PCB Contact	THT

Material data

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-plated
Fire load	0.009 MJ
Weight	4.1 g

Environmental requirements

Limit temperature range	-60 … +100 °C

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143428637
Customs tariff number	8536694040

Subject to changes. Please also observe the further product documentation!

Do you have any questions about our products?
We are always happy to take your call at {0}.

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-49736 /A1
	CSA DEKRA Certification B.V.	C22.2	2362521
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-102260 REV.1

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1977	20190909-E45171
	UR Underwriters Laboratories Inc.	UL 1059	E45172-20100415

Downloads
Documentation

Additional Information

Technical explanations		2019 Apr 3	pdf 2.0 MB	Download

CAD files

PCB Design

Symbol and Footprint 2091-1177		URL	Download

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints",
allow easy integration of the WAGO component into your development environment.

Subject to changes. Please also observe the further product documentation!

Do you have any questions about our products?
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Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

CAD data

2D/3D Models 2091-1177	URL	Download

CAE data

ZUKEN Portal 2091-1177	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2091-1177	URL	Download

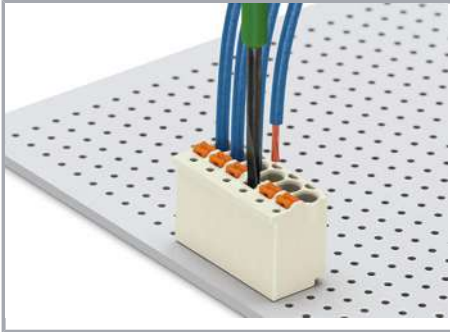Subject to changes. Please also observe the further product documentation!

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
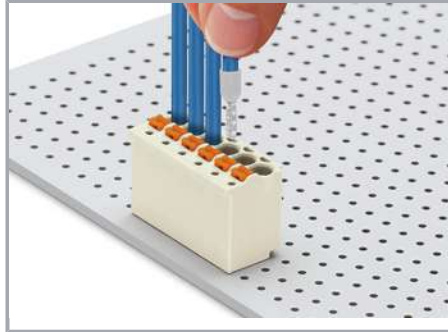We are always happy to take your call at {0}.

1-conductor female plug; push-button; 1.5 mm²; Pin spacing 3.5 mm; 7-pole; 1,50 mm²; light gray

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

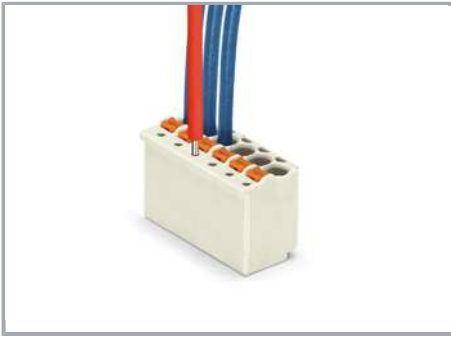Pole marking via direct marking perpendicular to conductor entry.

Pole marking via factory direct marking.

Testing

Subject to changes. Please also observe the further product documentation!

Testing via 1 mm Ø test pin – touch contact.

Product family

<i>picoMAX</i>® <i>eCOM</i> 3.5
Show all products from the family