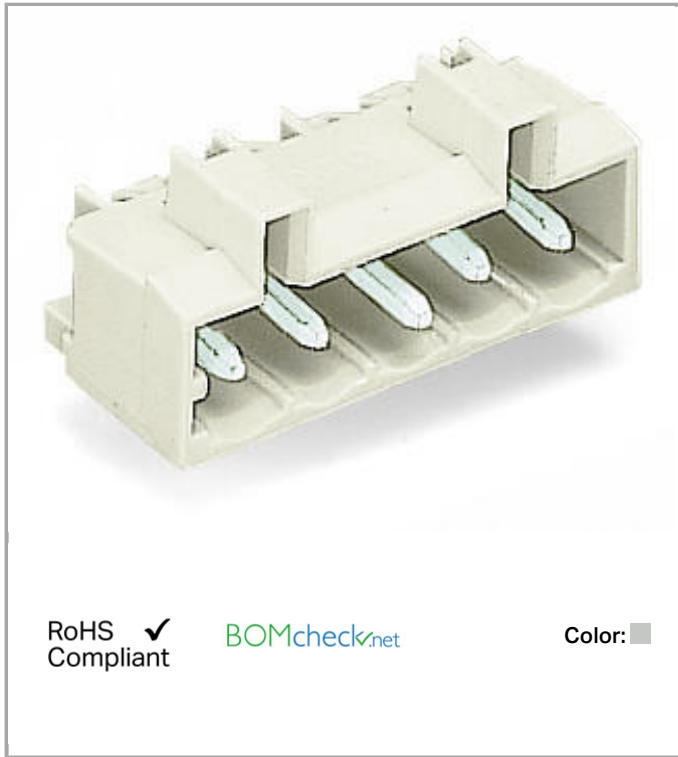


Data sheet | Item number: 721-480/001-000

THT male header; 1.2 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 5 mm; 20-pole



721-480/001-000



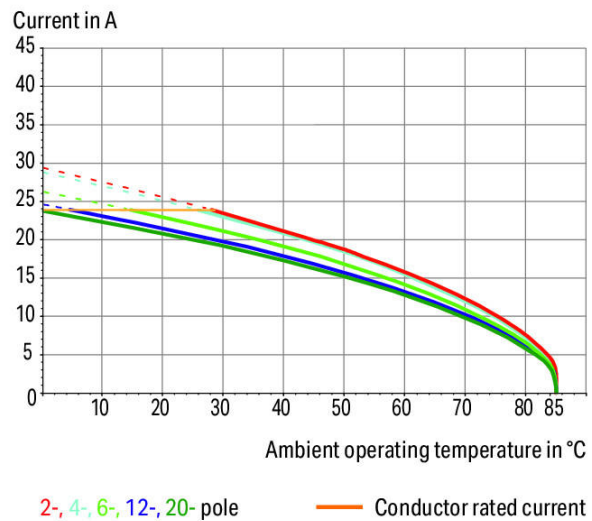
RoHS
Compliant

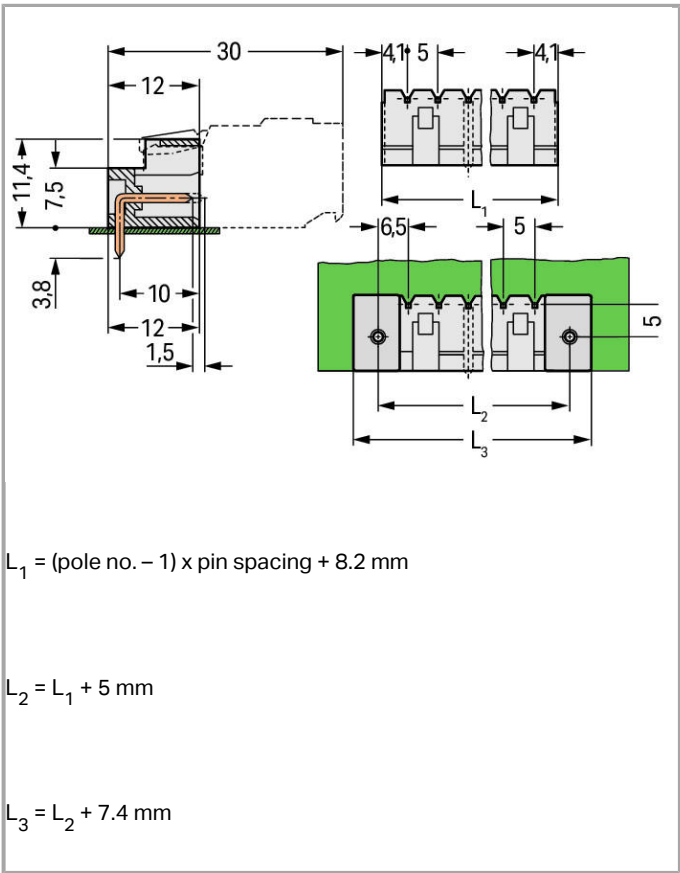
[BOMcheck.net](https://www.bomcheck.net)

Color:

Derating Curve

1-conductor female connector (721-102/026-000) with
THT male header (721-432/001-000)
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8





Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 1.2 x 1.2 mm solder pins allow nominal current up to 16 A, enhancing stability of horter headers
- 100 % protected against mismating
- With coding fingers

Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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

Ratings per IEC/EN 60664-1

Rated voltage (III / 3)	250 V
Rated impulse voltage (III / 3)	4 kV
Rated voltage (III / 2)	320 V
Rated impulse voltage (III / 2)	4 kV



Rated voltage (II / 2)	630 V
Rated impulse voltage (II / 2)	4 kV
Rated current	16 A

Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

Approvals per UL 1977

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	15 A

Approvals per CSA

Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	15 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data

No. of poles	20
Total number of potentials	20
Number of connection types	1
Number of levels	1

Geometrical Data

Pin spacing	5 mm / 0.197 inch
Width	103.2 mm / 4.063 inch
Height	15.2 mm / 0.598 inch
Height from the surface	11.4 mm / 0.449 inch
Depth	12 mm / 0.472 inch
Solder pin length	3.8 mm
Solder pin dimensions	1.2 x 1.2 mm
Drilled hole diameter (tolerance)	1.7 ^(- ... +0.1) mm

Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for PCBs

Mismating protection	Yes
Mating direction to the PCB	0°

PCB contact

PCB contact	THT
Solder pin arrangement	over the entire male connector, in line
Number of solder pins per potential	1

Material Data

Color	light gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.116 MJ
Weight	7.65 g

Environmental Requirements

Limit temperature range	-60 ... +100 °C
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Commercial data

Product Group	3 (Multi Conn. System)
Country of origin	DE
GTIN	4044918933377
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-39756
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	2190761.01

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
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ABS
American Bureau of Shipping

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HG1241537-
PDA



DNV GL
Det Norske Veritas, Germanischer Lloyd

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TAE000016Z

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UR UL International Germany GmbH	UL 1977	E45171
	UR UL International Germany GmbH	UL 1977	E45171

Compatible products

Female plug

	Item no.: 2721-120/026-000 1-conductor female plug; 100% protected against mismating; push-button; 2.5 mm ² ; Pin spacing 5 mm; 20-pole	/026-000	2721-120
	Item no.: 2721-120/037-000 1-conductor female plug; 100% protected against mismating; push-button; Locking lever; 2.5 mm ² ; Pin spacing 5 mm; 20-pole	/037-000	2721-120
	Item no.: 721-120/026-000 1-conductor female plug; 100% protected against mismating; 2.5 mm ² ; Pin spacing 5 mm; 20-pole	/026-000	721-120
	Item no.: 721-120/037-000 1-conductor female plug; 100% protected against mismating; Locking lever; 2.5 mm ² ; Pin spacing 5 mm; 20-pole	/037-000	721-120
	Item no.: 721-320/008-000 1-conductor female plug; angled; 100% protected against mismating; Snap-in mounting feet; 2.5 mm ² ; Pin spacing 5 mm; 20-pole	/008-000	721-320
	Item no.: 721-320/031-000 1-conductor female plug; angled; 100% protected against mismating; clamping collar; 2.5 mm ² ; Pin spacing 5 mm; 20-pole	/031-000	721-320

**Item no.: 722-150/039-000**

THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 20-pole

/039-000

722-150

**Item no.: 722-150/047-000**

THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Spacer flange; Pin spacing 5 mm; 20-pole

/047-000

722-150

**Item no.: 722-220/026-000**1-conductor female plug; angled; 100% protected against mismating; 2.5 mm²; Pin spacing 5 mm; 20-pole

/026-000

722-220

**Item no.: 722-250**

THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Pin spacing 5 mm; 20-pole

722-250

**Item no.: 722-250/031-000**

THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; clamping collar; Pin spacing 5 mm; 20-pole

/031-000

722-250

**Item no.: 722-250/039-000**

THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 20-pole

/039-000

722-250

**Item no.: 722-250/047-000**

THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Spacer flange; Pin spacing 5 mm; 20-pole

/047-000

722-250

Coding**Item no.: 231-129**

Coding key; snap-on type

231-129

Marking accessories**Item no.: 210-833**

Marking strips; on reel; 6 mm wide; plain; Self-adhesive

210-833

**Item no.: 210-834**

Marking strips; on reel; 5 mm wide; plain; Self-adhesive

210-834

Downloads**CAD/CAE - Smart Data****PCB libraries**

EAGLE Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM)	2.1	zip	Download
Compatible with EAGLE PCB Design Software Version 6.x or higher	Oct 6, 2014	6.2 MB	

DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM)	2.1	zip	Download
Compatible with DesignSpark PCB Version 4.x or higher	Oct 6, 2014	6.1 MB	

TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System)	1.1.0	zip	Download
Compatible with TARGET PCB Design Software Version 17.x	Oct 6, 2014	7.4 MB	

CAD data



3D Download 721-480/001-000

URL Download

Subject to changes.