

Data sheet | Item number: 721-465/001-040

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



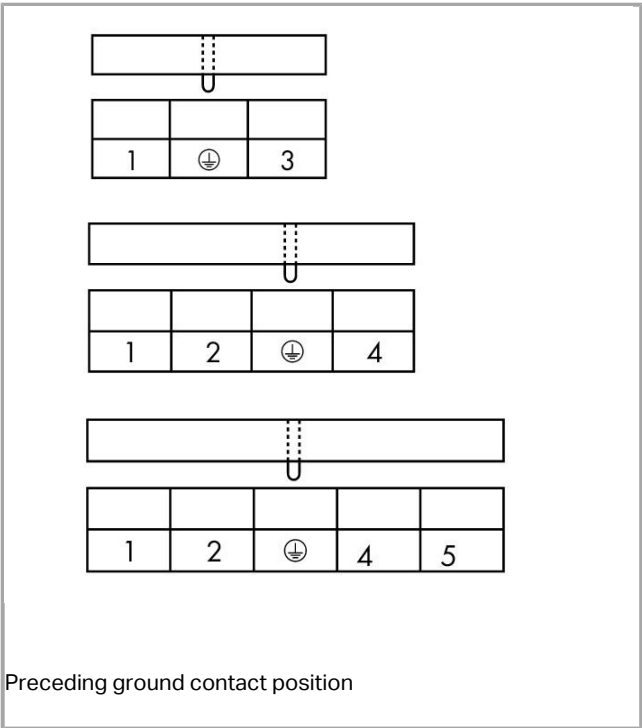
721-465/001-040



RoHS
Compliant

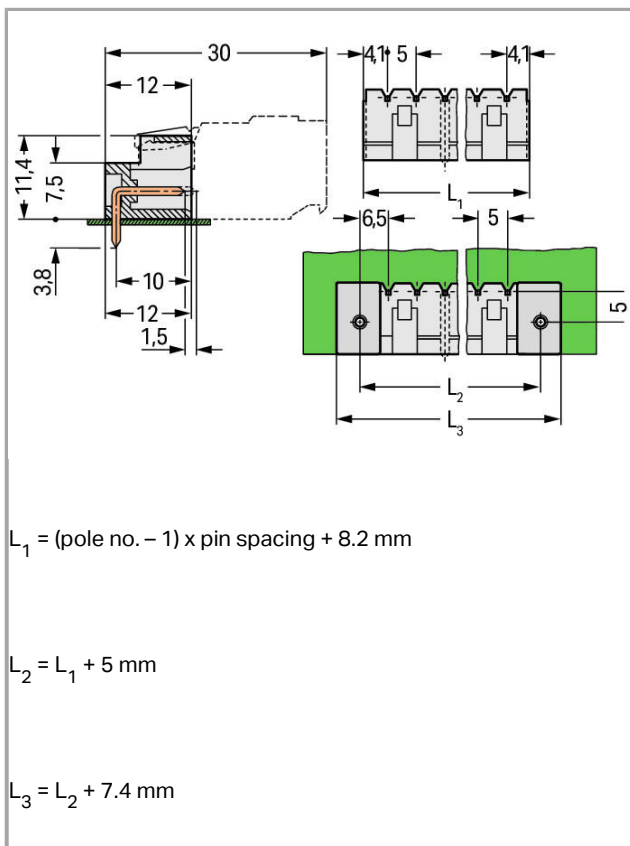
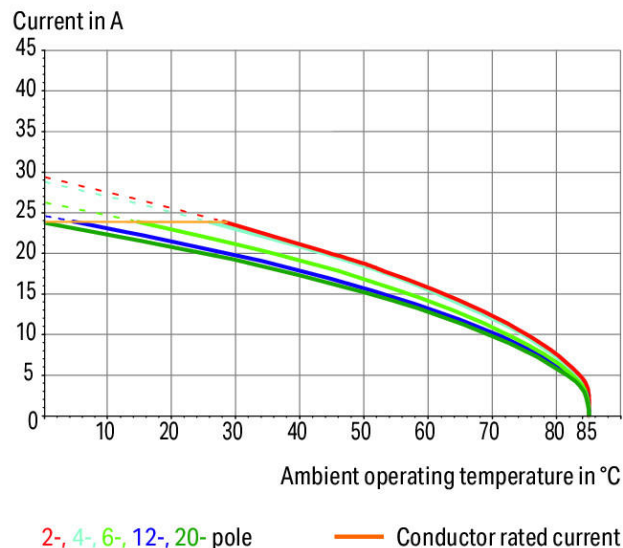
[BOMcheck.net](https://www.bomcheck.net)

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 shorter headers
- 100 % protected against mismatching
- 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	5
Total number of potentials	5
Number of connection types	1
Number of levels	1
Ground function	with preceding GND contact

Geometrical Data

Pin spacing	5 mm / 0.197 inch
Width	28.2 mm / 1.11 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
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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	0.034 MJ
Weight	2.116 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	4044918945622
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

Certificate

Logo	Approval	Additional Approval Text	name
	ABS American Bureau of Shipping	-	14- HG1241537- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	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

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

Coding

	Item no.: 231-129 Coding key; snap-on type	231-129
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Female plug

	Item no.: 2721-105/026-000 1-conductor female plug; 100% protected against mismatching; push-button; 2.5 mm ² ; Pin spacing 5 mm; 5-pole	2721-105 /026-000
	Item no.: 2721-105/037-000 1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 2.5 mm ² ; Pin spacing 5 mm; 5-pole	2721-105 /037-000
	Item no.: 721-105/026-000 1-conductor female plug; 100% protected against mismatching; 2.5 mm ² ; Pin spacing 5 mm; 5-pole	721-105 /026-000

	Item no.: 721-105/037-000 1-conductor female plug; 100% protected against mismating; Locking lever; 2.5 mm ² ; Pin spacing 5 mm; 5-pole	721-105
	Item no.: 721-305/008-000 1-conductor female plug; angled; 100% protected against mismating; Snap-in mounting feet; 2.5 mm ² ; Pin spacing 5 mm; 5-pole	721-305
	Item no.: 721-305/031-000 1-conductor female plug; angled; 100% protected against mismating; clamping collar; 2.5 mm ² ; Pin spacing 5 mm; 5-pole	721-305
	Item no.: 722-135 THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Pin spacing 5 mm; 5-pole	722-135
	Item no.: 722-135/031-000 THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; clamping collar; Pin spacing 5 mm; 5-pole	722-135
	Item no.: 722-135/039-000 THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 5-pole	722-135
	Item no.: 722-135/047-000 THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismating; Spacer flange; Pin spacing 5 mm; 5-pole	722-135
	Item no.: 722-205/026-000 1-conductor female plug; angled; 100% protected against mismating; 2.5 mm ² ; Pin spacing 5 mm; 5-pole	722-205
	Item no.: 722-235 THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Pin spacing 5 mm; 5-pole	722-235
	Item no.: 722-235/039-000 THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Locking lever; Pin spacing 5 mm; 5-pole	722-235
	Item no.: 722-235/047-000 THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismating; Spacer flange; Pin spacing 5 mm; 5-pole	722-235

Downloads

CAD/CAE - Smart Data

PCB libraries

DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) Compatible with DesignSpark PCB Version 4.x or higher	2.1 Oct 6, 2014	zip 6.1 MB	Download
TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System) Compatible with TARGET PCB Design Software Version 17.x	1.1.0 Oct 6, 2014	zip 7.4 MB	Download
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
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CAD data

3D Download 721-465/001-040	URL	Download
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Subject to changes.