

Data sheet | Item number: 721-435/001-040

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against
mismatching; Preceding ground contact; Pin spacing 5 mm; 5-pole



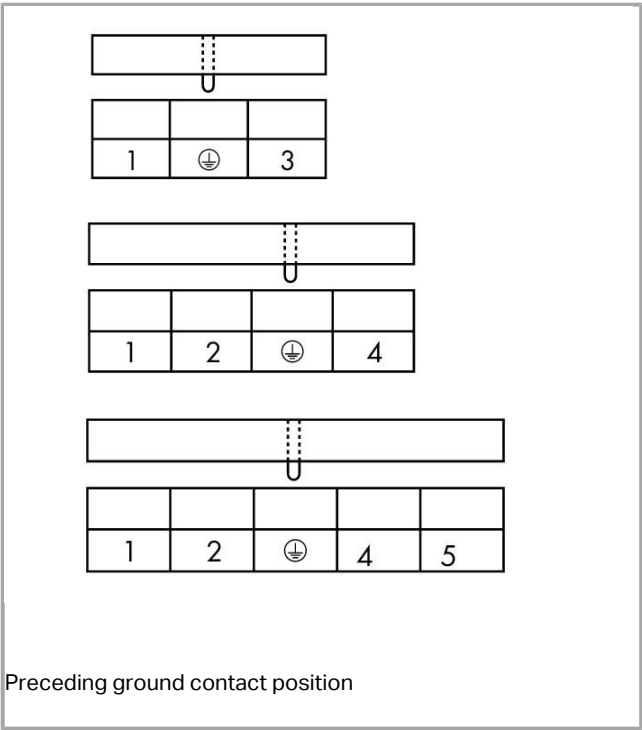
721-435/001-040



RoHS
Compliant

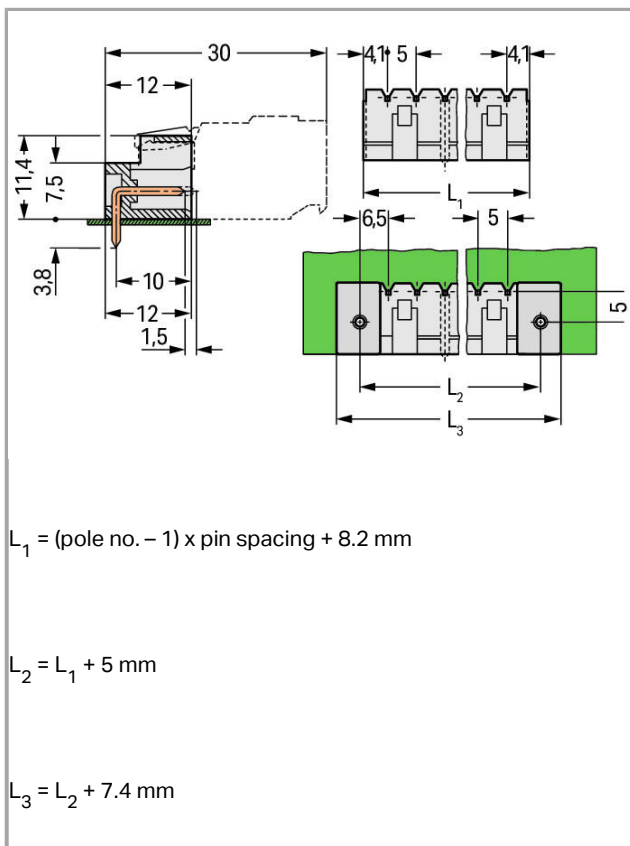
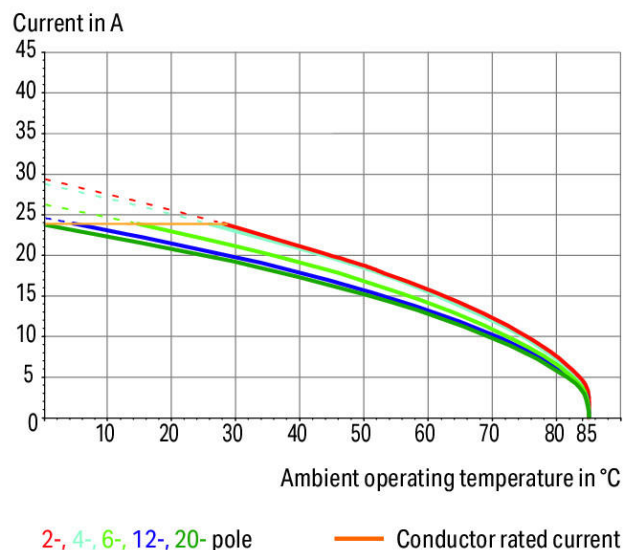
[BOMcheck.net](https://www.bomcheck.net)

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
- Pin cross-section: 1 x 1 mm
- 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)	320 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	12 A

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

Approvals per UL 1977

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	10 A

Approvals per CSA

Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 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 x 1 mm
Drilled hole diameter (tolerance)	1.4 ^(- ... +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	1.81 g

Environmental Requirements

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

Product Group	3 (Multi Conn. System)
Country of origin	PL
GTIN	4044918869614
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
	CSA DEKRA Certification B.V.	C22.2	1466354
	CSA DEKRA Certification B.V.	C22.2	1466354



KEMA/KEUR
DEKRA Certification B.V.

EN 61984

2190761.01

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate 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

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

Female plug

**Item no.: 2721-105/026-000**1-conductor female plug; 100% protected against mismating; push-button; 2.5 mm²; Pin spacing 5 mm; 5-pole

/026-000

2721-105

**Item no.: 2721-105/037-000**1-conductor female plug; 100% protected against mismating; push-button; Locking lever; 2.5 mm²; Pin spacing 5 mm; 5-pole

/037-000

2721-105

**Item no.: 721-105/026-000**1-conductor female plug; 100% protected against mismating; 2.5 mm²; Pin spacing 5 mm; 5-pole

/026-000

721-105

**Item no.: 721-105/037-000**1-conductor female plug; 100% protected against mismating; Locking lever; 2.5 mm²; Pin spacing 5 mm; 5-pole

/037-000

721-105

**Item no.: 721-305/008-000**1-conductor female plug; angled; 100% protected against mismating; Snap-in mounting feet; 2.5 mm²; Pin spacing 5 mm; 5-pole

/008-000

721-305

**Item no.: 721-305/031-000**1-conductor female plug; angled; 100% protected against mismating; clamping collar; 2.5 mm²; Pin spacing 5 mm; 5-pole

/031-000

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

/031-000

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

/039-000

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

/047-000

722-135

**Item no.: 722-205/026-000**1-conductor female plug; angled; 100% protected against mismating; 2.5 mm²; Pin spacing 5 mm; 5-pole

/026-000

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

/039-000

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

/047-000

722-235

Downloads

CAD/CAE - Smart Data



PCB libraries

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

CAD data

3D Download 721-435/001-040	URL	Download
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Subject to changes.