

Data sheet | Item number: 721-433/001-040

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against
mismatching; Preceding ground contact; Pin spacing 5 mm; 3-pole



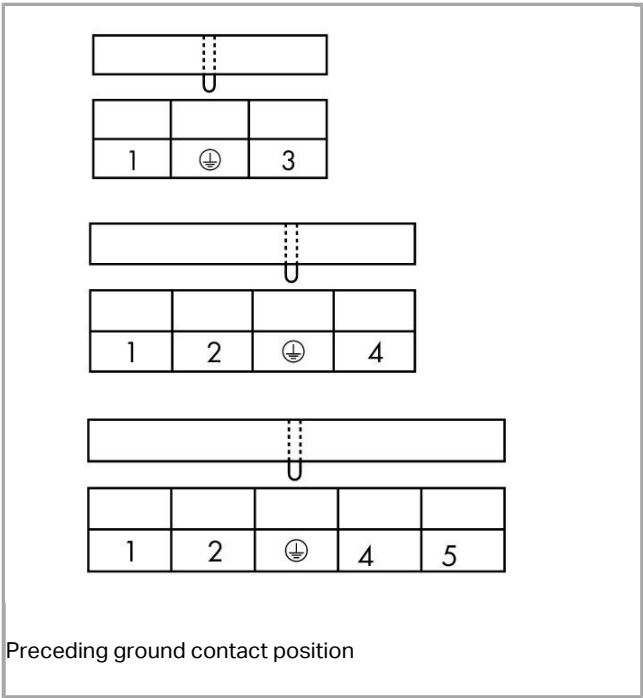
721-433_001-040



RoHS
Compliant

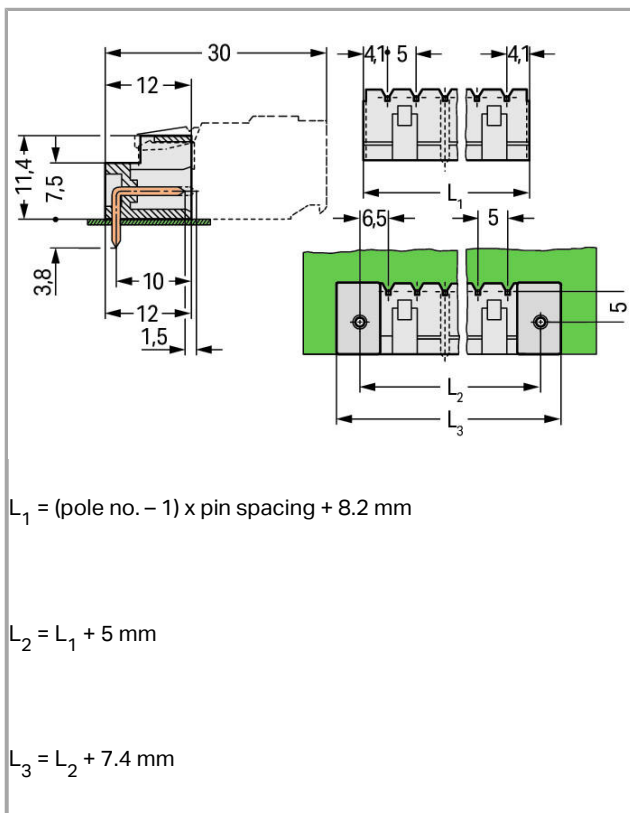
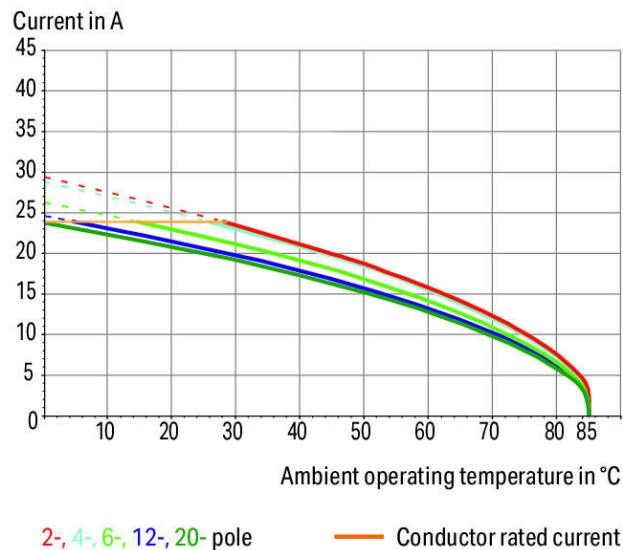
[BOMcheck.net](https://www.bomcheck.net)

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

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	3
Total number of potentials	3
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	18.2 mm / 0.717 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
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	0.023 MJ
Weight	1.174 g

Environmental Requirements

Limit temperature range	-60 +100 °C
-------------------------	-------------

Commercial data

Product Group	3 (Multi Conn. System)
Country of origin	PL
GTIN	4044918869539
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
	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
	UL Underwriters Laboratories Inc.	UL 1059	E45172- 19911118
	UR UL International Germany GmbH	UL 1977	E45171

Compatible products

Female plug

	Item no.: 2721-103/026-000 1-conductor female plug; 100% protected against mismatching; push-button; 2.5 mm ² ; Pin spacing 5 mm; 3-pole	/026-000	2721-103
	Item no.: 2721-103/037-000 1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 2.5 mm ² ; Pin spacing 5 mm; 3-pole	/037-000	2721-103
	Item no.: 721-103/026-000 1-conductor female plug; 100% protected against mismatching; 2.5 mm ² ; Pin spacing 5 mm; 3-pole	/026-000	721-103
	Item no.: 721-103/037-000 1-conductor female plug; 100% protected against mismatching; Locking lever; 2.5 mm ² ; Pin spacing 5 mm; 3-pole	/037-000	721-103
	Item no.: 721-303/008-000 1-conductor female plug; angled; 100% protected against mismatching; Snap-in mounting feet; 2.5 mm ² ; Pin spacing 5 mm; 3-pole	/008-000	721-303
	Item no.: 721-303/031-000 1-conductor female plug; angled; 100% protected against mismatching; clamping collar; 2.5 mm ² ; Pin	/031-000	721-303

spacing 5 mm; 3-pole

	Item no.: 722-133 THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 5 mm; 3-pole		722-133
	Item no.: 722-133/031-000 THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; clamping collar; Pin spacing 5 mm; 3-pole	/031-000	722-133
	Item no.: 722-133/039-000 THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; Locking lever; Pin spacing 5 mm; 3-pole	/039-000	722-133
	Item no.: 722-133/047-000 THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; Spacer flange; Pin spacing 5 mm; 3-pole	/047-000	722-133
	Item no.: 722-203/026-000 1-conductor female plug; angled; 100% protected against mismatching; 2.5 mm ² ; Pin spacing 5 mm; 3-pole	/026-000	722-203
	Item no.: 722-233 THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 5 mm; 3-pole		722-233
	Item no.: 722-233/031-000 THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; clamping collar; Pin spacing 5 mm; 3-pole	/031-000	722-233
	Item no.: 722-233/039-000 THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; Locking lever; Pin spacing 5 mm; 3-pole	/039-000	722-233
	Item no.: 722-233/047-000 THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; Spacer flange; Pin spacing 5 mm; 3-pole	/047-000	722-233

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

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
------------------------	-------------	---------------	----------



CAD/CAE - Smart Data

CAD data

3D Download 721-433/001-040	URL	Download
-----------------------------	-----	----------

EPLAN

EPLAN Data Portal	Download
-------------------	----------

Subject to changes.