

# Product Data Sheet

## VarPol Straight pin header 2-row, Part No. 972-nn050-ba

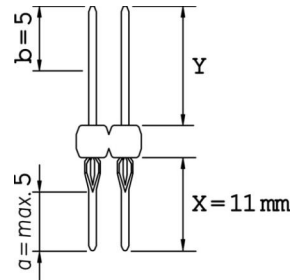


Illustration similar



Parallel



Press-fit

- length mating face ( $Y$ ) = 5.2 mm
- Press-fit
- termination length 11 mm
- 2 - 108 contacts (nn in part number = pins / row)
- 2-row
- b in part number defines Performance Level of mating side; a defines Performance Level of termination side



» to product on [www.ept.de](http://www.ept.de)



» to product group Varpol connectors

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## Technical Specifications

### Basics

No. of Contacts	2 - 108
Termination Technology	Press-fit
Termination Length	11 mm
Board-to-Board Distance	13.95 mm - 15.65 mm
Operating Temperature Range	-55°C to +125°C

### Material

Insulator Material	PBT glass filled, UL 94 V-0
Contact Material	Copper alloy

### Mechanical

Pitch	2.54 mm
Mating Force per Pin	max. 0.9 N
Separating Force per Pin	min 0.6 N

### Electrical

Operational Current	max. 1.9 A
Operational Voltage	150 V
Contact Resistance	< 20 mΩ
Clearance and Creepage	1.2 mm
Insulation Resistance	> 10 <sup>6</sup> MΩ

### Approval / Compliance

UL file	E130314
Environment	RoHS compliant

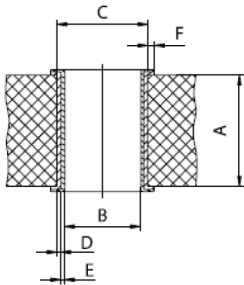
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### Hole Specifications

Plated through-hole according to IEC 60352-5



Material	imm. Sn printed circuit boards
<b>Nominal Hole</b>	<b>Ø 1.0 mm</b>
<b>A PCB Thickness</b>	min 1.44 mm
<b>B Plated Hole</b>	Ø 1.0 +0.09 / -0.06 mm
<b>C Drill Hole</b>	1.15 ±0.025 mm
<b>D Cu Plating</b>	min. 25 µm
<b>E Surface</b>	imm. Sn plating, max. 1.5 µm
<b>F Annular Ring</b>	min. 0.1 mm

Material	Ni, Au printed circuit boards
<b>Nominal Hole</b>	<b>Ø 1.0 mm</b>
<b>A PCB Thickness</b>	min 1.44 mm
<b>B Plated Hole</b>	Ø 1.0 +0.09 / -0.06 mm
<b>C Drill Hole</b>	1.15 ±0.025 mm
<b>D Cu Plating</b>	min. 25 µm
<b>E Surface</b>	Ni, Au plating, 0.05 - 0.2 µm Au over 2.5 - 5 µm Ni
<b>F Annular Ring</b>	min. 0.1 mm

Material	pure Cu printed circuit boards
<b>Nominal Hole</b>	<b>Ø 1.0 mm</b>
<b>A PCB Thickness</b>	min 1.44 mm
<b>B Plated Hole</b>	Ø 1.0 +0.09 / -0.06 mm
<b>C Drill Hole</b>	1.15 ±0.025 mm
<b>D Cu Plating</b>	min. 25 µm
<b>E Surface</b>	OSP, z.B. GLICOAT-SMD (F2) with 0.12 - 0.15 µm
<b>F Annular Ring</b>	min. 0.1 mm

Material	HAL Sn printed circuit boards
<b>Nominal Hole</b>	<b>Ø 1.0 mm</b>
<b>A PCB Thickness</b>	min 1.44 mm
<b>B Plated Hole</b>	Ø 1.0 +0.09 / -0.06 mm
<b>C Drill Hole</b>	1.15 ±0.025 mm
<b>D Cu Plating</b>	min. 25 µm
<b>E Surface</b>	HAL Sn, 5 - 15 µm
<b>F Annular Ring</b>	min. 0.1 mm

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## Drawings

Component data in 2D and 3D format you can download here:

[» PDF](#)