

# Product Data Sheet

## VarPol Straight pin header 1-row, Part No. 971-nn018-b1

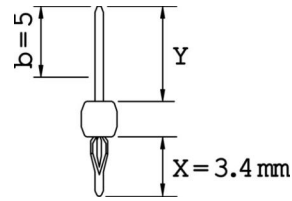


Illustration similar



Parallel



Press-fit

- length mating face (Y) = 17.5 mm
- Press-fit
- termination length 3.4 mm
- 2 - 36 contacts (nn in part number = pins / row)
- 1-row
- b in part number defines Performance Level of mating 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 - 36              |
| Termination Technology      | Press-fit           |
| Termination Length          | 3.4 mm              |
| Board-to-Board Distance     | 23.95 mm - 27.95 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](#)