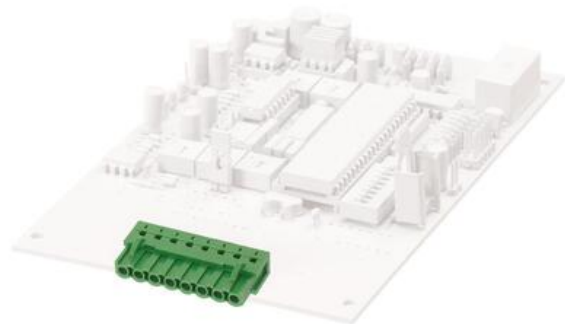


## ISTLZ 950

14150.1

ISTLZ 950/2/5,08-H GN

- 2 to 17 Poles
- 4 kV Impulse voltage
- male pin connector



### PRODUCT DESCRIPTION

The ISTLZ 950 series is a range of horizontal male pin connector blocks with a 5.08 mm pitch, available in pole counts from at least 2 through 17. For example, the ISTLZ 950/9/5.08-H GN features 9 poles across a width of approximately 47.7 mm, while widths scale accordingly for other pole counts. Each contact pin is around 1.0–1.05 mm in diameter, requires a 1.4 mm PCB drill hole, and has a length of roughly 3.5 mm. The housing is polyamide 6.6 (UL 94 V-0) with a CTI rating of 600, insulation resistance  $\geq 1 \times 10^{13} \Omega \cdot \text{cm}$ , glow-wire ratings GWFI 850 °C / GWIT 775 °C, and supports typical wave-soldering (265 °C for 3–4 s). The ISTLZ 950 connectors are rated for 12 A at up to 250 V, with an impulse voltage rating of 4 kV, contamination degree 3, and overvoltage category III, meeting UL 1059, cUL CSA 22.2 No. 158, and VDE EN 61984 approvals, with plug-in lifecycle of at least 100 mating cycles. The ISTLZ 950 series is used to create pluggable PCB-mounted interfaces in relay modules, interface circuits, power control boards, and automation equipment. The horizontal pin orientation provides low-profile mating with female socket counterparts (like PKBZ/PKB 950), facilitating easy module replacement or maintenance. Designers utilise these when layout density, secure high-current PCB interfacing, and mechanical robustness are required, especially in industrial control cabinets, power electronics assemblies, or retrofit configurations in machinery and building infrastructure.

## TECHNICAL DATA

### GENERAL DATA

Type	Inverted header
Pitch	5.08 mm
Colour	Green
Number of poles	2
Approvals	UL, cUL, VDE

### RATINGS

Rated current	12 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Overvoltage category	III
Contamination degree	3

### DIMENSIONS

Length	19 mm
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<b>Width</b>	12.16 mm
<b>Height</b>	8.5 mm
<b>Width left</b>	3.54 mm
<b>Width right</b>	3.54 mm
<b>Drillhole diameter</b>	1.4 mm
<b>Diameter of the connection pin</b>	1.05 mm
<b>Length of pin</b>	3.5 mm

## CONNECTION DATA

<b>Connector type/principle</b>	Pin header
<b>Connector version</b>	Fixed
<b>Number of plugin rows</b>	1

## MATERIALS

<b>Housing material</b>	Polyamide 6.6
<b>Flammability class</b>	UL94-V0
<b>Operating temperature from</b>	-30 °C
<b>Operating temperature to</b>	105 °C
<b>Contact spring</b>	Bronze

## APPROVALS

<b>UL test standard</b>	UL 1059
<b>Rated voltage UL</b>	300 V
<b>Rated current UL</b>	10 A
<b>cUL test standard</b>	CSA 22.2 No.158
<b>Rated voltage cUL</b>	300 V
<b>Rated current cUL</b>	10 A
<b>VDE test standard</b>	DIN EN 61984
<b>Rated voltage VDE</b>	250 V
<b>Rated current VDE</b>	12 A

<b>Plug-in cycles acc. to standard</b>	100
<b>Recommended wave solder duration max</b>	4 s
<b>Recommended wave solder duration min</b>	3 s
<b>Recommended wave soldering temperature</b>	265 °C
<b>Tariff code</b>	85366990

Pack size	50
Weight	1.61 g
Angle circuit board / contact	0°/180° (horizontal)
Country of origin	QU
Current creepage resistance	CTI 600
Glow wire flammability index (GWFI)	GWFI 850
Glow wire ignition temperature (GWIT)	GWIT 775
GWFI after-glow time	30 s
GWIT exposure time	5 s
Insulation resistance	$1 \cdot 10^{13} \Omega \times \text{cm}$

