

## STL 990

11845.1  
STL 990/2/5,08-G GN

- 2 to 15 poles
- Conductor cross-sections from 0.2 mm<sup>2</sup> to 4 mm<sup>2</sup>
- Impulse voltage resistance of 4 kV
- Male pin blocks



### PRODUCT DESCRIPTION

The STL 990 series from Conta-Clip is a robust range of male pin blocks designed for secure and reliable wire-to-board connections in demanding applications. With a 5.08 mm pitch, these terminal blocks are available in configurations ranging from 2 to 15 poles, accommodating conductor cross-sections from 0.2 mm<sup>2</sup> to 4 mm<sup>2</sup> for rigid wires and up to 2.5 mm<sup>2</sup> for wires with ferrules. The terminals are rated for a maximum current of 10 A and a voltage of 250 V, with an impulse voltage resistance of 4 kV, making them suitable for applications requiring high electrical performance. They feature a 1 mm diameter connecting pin with a 1.4 mm drill hole diameter, ensuring secure and vibration-resistant terminations. Constructed from flame-retardant polyamide 6.6 (UL 94 V-0), these terminal blocks offer durability and compliance with international safety standards.

In practical applications, the STL 990 series is ideal for use in industrial control systems, automation equipment, and power distribution modules, where space-saving and reliable connections are essential. The 45°/135° PCB/contact angle facilitates easy integration into compact PCBs and enclosures. The male pin blocks are designed for plug-in connectors, allowing for quick and tool-free wiring, enhancing assembly efficiency and reducing labour costs. With certifications including overvoltage category III, pollution degree 3, and creepage-current resistance (CTI) 600, the STL 990 series meets international safety standards, making it suitable for global applications in demanding environments. Whether for new designs or retrofitting existing systems, these terminal blocks provide engineers with a dependable solution for dense and durable PCB interconnections.

## TECHNICAL DATA

### GENERAL DATA

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

### RATINGS

Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 kV
Overvoltage category	III
Contamination degree	3

### DIMENSIONS

Length	16.5 mm
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<b>Width</b>	11.36 mm
<b>Height</b>	14.5 mm
<b>Width left</b>	3.14 mm
<b>Width right</b>	3.14 mm
<b>Drillhole diameter</b>	1.4 mm
<b>Diameter of the connection pin</b>	1 mm
<b>Length of pin</b>	4.1 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 pin</b>	Copper alloy

## APPROVALS

<b>UL test standard</b>	UL 1059
<b>Rated voltage UL</b>	300 V
<b>Rated current UL</b>	15 A
<b>cUL test standard</b>	CSA 22.2 No.158
<b>Rated voltage cUL</b>	300 V
<b>Rated current cUL</b>	15 A
<b>VDE test standard</b>	DIN EN 61984
<b>Rated voltage VDE</b>	250 V
<b>Rated current VDE</b>	10 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	1.1 g
Angle circuit board / contact	45°/135° (diagonally upwards)
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	$1 \cdot 10^{13} \Omega \times \text{cm}$

