

## PZB 3950

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PZB 3950/2/5,00 GN

- 2 to 12 poles
- Conductor cross-sections from 0.08 mm<sup>2</sup> to 2.5 mm<sup>2</sup>
- Impulse voltage resistance of 4 kV



### PRODUCT DESCRIPTION

The PZB 3950 series from Conta-Clip is a range of female socket terminal blocks designed for efficient and secure wire-to-board connections using a tension-spring system. These terminals feature a 5.00 mm pitch and are available in configurations ranging from 2 to 12 poles, with widths ranging from 10.0 mm to 60.0 mm. They support conductor cross-sections from 0.08 mm<sup>2</sup> to 2.5 mm<sup>2</sup> for rigid wires and up to 1.5 mm<sup>2</sup> for wires with ferrules. The terminals are rated for a maximum current of 12 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 horizontal wire connection/contact angle of 0°/180°, 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.

The PZB 3950 series is ideal for use in industrial control systems, automation equipment, and power distribution modules, where space-saving and reliable connections are essential. The tension-spring connection system allows for quick and tool-free wiring, enhancing assembly efficiency and reducing labour costs. The compact design facilitates easy integration into dense PCB layouts and enclosures. With certifications including UL 1059, CSA 22.2 No.158, and VDE, the PZB 3950 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	Plug-in connector
Pitch	5 mm
Colour	Green
Number of poles	2
Approvals	UL, cUL, VDE

### RATINGS

Rated current	12 A
Rated voltage	250 V
Rated cross section	2.5 mm <sup>2</sup>
Rated impulse voltage	4 kV
Overvoltage category	III
Contamination degree	3

## DIMENSIONS

Length	14.5 mm
Width	11.6 mm
Height	26.3 mm
Width left	4.1 mm
Width right	2.5 mm

## CONNECTION DATA

Connector type/principle	Spring clamp
Contact version	Female connector
Connector version	Pluggable
Number of plugin rows	1
Cross section single wire from	0.08 mm <sup>2</sup>
Cross section single wire to	2.5 mm <sup>2</sup>
Cross section stranded wire from	0.08 mm <sup>2</sup>
Cross section stranded with ferrule to	1.5 mm <sup>2</sup>
Cross section stranded wire to	2.5 mm <sup>2</sup>
Cross section stranded with ferrule from	0.14 mm <sup>2</sup>
Rated wire cross section to (AWG)	12
Rated wire cross section from (AWG)	28
Stripping length	8.5 mm

## MATERIALS

Housing material	Polyamide 6.6
Flammability class	UL94-V0
Operating temperature from	-30 °C
Operating temperature to	105 °C
Contact spring	Copper alloy
Main spring	Stainless steel

## APPROVALS

UL test standard	UL 1059
Rated voltage UL	300 V
Rated current UL	15 A
cUL test standard	CSA 22.2 No.158
Rated voltage cUL	300 V

Rated current cUL	15 A
VDE test standard	DIN EN 61984
Rated voltage VDE	4 V
Rated current VDE	12 A

Plug-in cycles acc. to standard	100
Tariff code	85366990
Pack size	50
Weight	3.8 g
Angle of wire connection/contact	0°/180° (horizontal)
Connection cycles acc. to standard	10
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*10 <sup>13</sup> Ω x cm



