

PBKZ 4301

13131.1

PBKZ 4301/2/5,08-KD GN

- Push-in female socket terminal
- Conductor cross-sections from 0.08 mm² to 1.5 mm²
- Flame-retardant polyamide 6.6
- 2 to 4 poles

**PRODUCT DESCRIPTION**

The PBKZ 4301 series from Conta-Clip is a range of push-in female socket terminal blocks designed for efficient and secure wire-to-board connections. These terminals feature a 5.08 mm pitch and are available in configurations ranging from 2 to 4 poles, with widths of 10.16 mm, 15.24 mm, and 20.32 mm, respectively. They support conductor cross-sections from 0.08 mm² to 1.5 mm² for rigid wires, and up to 1.0 mm² for wires with ferrules. The terminals are rated for a maximum current of 16 A and a voltage of 250 V, with an impulse voltage resistance of 2 kV. They are constructed from flame-retardant polyamide 6.6 (UL 94 V-0) and feature brass soldering lugs and stainless-steel terminal springs, ensuring durability and reliability in various applications. The recommended wave soldering parameters are 265°C for 3–4 seconds, and the terminals operate within a temperature range of –40°C to +105°C.

The PBKZ 4301 series is ideal for use in industrial control systems, automation equipment, and power distribution modules, where space-saving and reliable connections are essential. The push-in connection system allows for quick and tool-free wiring, enhancing assembly efficiency and reducing labour costs. The angled design of the terminals, with a 45° PCB-to-wire connection angle, facilitates easy integration into compact PCBs and enclosures. With certifications including UL 1059, CSA 22.2 No.158, and VDE, the PBKZ 4301 series meets international safety standards, making it suitable for global applications in demanding environments.

TECHNICAL DATA**GENERAL DATA**

Type	Plug-in connector
Pitch	5.08 mm
Colour	Green
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	16 A
Rated voltage	250 V
Rated cross section	1.5 mm ²
Rated impulse voltage	2 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	16.1 mm
Width	10.16 mm
Height	13 mm
Width left	1.1 mm
Width right	3.98 mm
Drillhole diameter	1.4 mm
Diameter of the connection pin	1.1 mm
Length of pin	3.5 mm

CONNECTION DATA

Connector type/principle	Push-in
Number of levels	1
Angle of PCB/wire connection	45°/135° (diagonally upwards)
Type of attachment to PCB	Solder
Electrical connection type to PCB	Connecting contact
Cross section single wire from	0.08 mm ²
Cross section single wire to	1.5 mm ²
Cross section stranded wire from	0.2 mm ²
Cross section stranded with ferrule to	1 mm ²
Cross section stranded wire to	1.5 mm ²
Cross section stranded with ferrule from	0.14 mm ²
Rated wire cross section to (AWG)	16
Rated wire cross section from (AWG)	22
Stripping length	10 mm

MATERIALS

Housing material	Polyamide 6.6
Flammability class	UL94-V0
Operating temperature from	-30 °C
Operating temperature to	105 °C
Terminal spring	Stainless steel
Solder lug	Brass

APPROVALS

UL test standard	UL 1059
Rated voltage UL	300 V

Rated current UL	10 A
cUL test standard	CSA 22.2 No.158
Rated voltage cUL	300 V
Rated current cUL	10 A
VDE test standard	DIN EN 60998
Rated voltage VDE	250 V
Rated current VDE	16 A

Recommended wave solder duration max	4 s
Recommended wave solder duration min	3 s
Recommended wave soldering temperature	265 °C
Tariff code	85366990
Pack size	50
Weight	1 g
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	$1 \cdot 10^{13} \Omega \times \text{cm}$



