

PZK 3750

13334.1
 PZK 3750/2/5,00 GN

- 2 to 12 poles
- Spring Clamp Connection
- 12 A at 250 V



PRODUCT DESCRIPTION

The PZKZ 3750 series features double-level PCB-mounted terminals built around a tension-spring (spring-clamp) connection mechanism, typically offered in 5.08 mm pitch configurations and available from 2 up to 12 poles. For example, the 12-pole version spans approximately 61.7 mm, while pin diameter is 0.7 mm (requiring a ≈ 1.3 mm drill hole), and pin length is approximately 4 mm. Rated for 12 A at 250 V, with impulse voltage resistance of 2 kV, overvoltage category III and contamination class 3. Conductors from AWG 28 up to AWG 14 (0.08–2.5 mm², ferrules up to 1.5 mm²) are supported, with 45°/135° angled wire entry. The housing is UL 94 V-0 polyamide 6.6, CTI 600, insulation resistance $\geq 1 \times 10^{13}$ Ω -cm, glow-wire ratings GWFI 850 °C / GWIT 775 °C, and solder-compatible via wave-soldering at 265 °C for 3–4 s. It supports approximately 10 connection cycles and offers UL 1059, cUL CSA 22.2 No. 158 and VDE approval.

The PZKZ 3750 tension-spring terminals provide a rapid, tool-free wiring solution ideal for moderate-current applications in industrial electronics. The double-deck layout allows efficient utilisation of PCB space while accommodating multiple potential levels, such as separate control and supply buses, within a compact footprint. The spring-clamp system ensures secure, vibration-proof connections for device wiring in relay sockets, automation modules, sensor/actuator interface boards, and machine control PCBs. Angled wire entry promotes ease of installation in tight vertical spaces within control cabinets. Combined with high safety ratings and global approvals, these terminals suit device manufacturers and panel builders requiring reliable, service-friendly interfaces for long-term field installations.

TECHNICAL DATA

GENERAL DATA

Type	Double-level PCB terminal
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 ²
Rated impulse voltage	2 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	21 mm
Width	11.7 mm
Height	25.7 mm
Width left	3.7 mm
Width right	3 mm
Drillhole diameter	1.3 mm
Diameter of the connection pin	0.7 mm
Length of pin	4 mm

CONNECTION DATA

Connector type/principle	Spring clamp
Number of levels	2
Angle of PCB/wire connection	45°/135° (diagonally upwards)
Type of attachment to PCB	Connecting contact
Electrical connection type to PCB	Solder
Cross section single wire from	0.08 mm ²
Cross section single wire to	2.5 mm ²
Cross section stranded wire from	0.14 mm ²
Cross section stranded with ferrule to	1.5 mm ²
Cross section stranded wire to	2.5 mm ²
Cross section stranded with ferrule from	0.14 mm ²
Rated wire cross section to (AWG)	14
Rated wire cross section from (AWG)	28
Stripping length	6 mm

MATERIALS

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

APPROVALS

UL test standard	UL 1059
Rated voltage UL	300 V

Rated current UL	16 A
cUL test standard	CSA 22.2 No.158
Rated voltage cUL	300 V
Rated current cUL	16 A
VDE test standard	DIN EN 60998
Rated voltage VDE	250 V
Rated current VDE	12 A

Recommended wave solder duration max	4 s
Recommended wave solder duration min	3 s
Recommended wave soldering temperature	265 °C
Tariff code	85369010
Pack size	50
Weight	5.1 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*10 ¹³ Ω x cm



