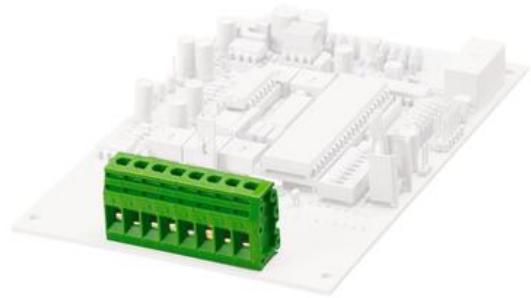


PK 2,5

5002.1
 PK 2,5/2/5,00 GN

- Clamping yoke screw connection
- Polyamide 6.6 housing
- Impulse voltage ratings up to 3.5 kV



PRODUCT DESCRIPTION

The PK 2.5 series comprises fixed PCB-mounted terminal blocks based on the clamping-yoke screw connection principle. These connectors are available in various pole counts and pitches (commonly 2.5 mm / 2.54 mm, with variants also in 5.00 mm, 5.08 mm, and even 10 mm designs). Each terminal block is constructed with a polyamide 6.6 housing (UL 94 V-0 flame-rated) and features machined turned metal pins instead of soldered versions, offering superior robustness. The screw clamps and clamping yokes are brass/steel, with slotted screws and a torque rating typically around 0.5 Nm. Current capacities reach up to 16 A at 250 V, with larger 10 mm-pitch versions rated to 1000 V and 15 A, along with impulse voltage ratings up to 3.5 kV and VDE/UL/cUL certifications. Insulation resistance is $\geq 10^{13} \Omega\text{-cm}$, CTI of 600, glow-wire ratings GWFI 850 °C / GWIT 775 °C, and they withstand wave-soldering at 265 °C for 3–4 s. Typical pin diameter is around 1 mm, with drill-hole sizes near 1.3–1.4 mm and pin lengths ~3.5 mm.

The PK 2.5 clamping-yoke connectors are well-suited to PCB applications requiring secure, vibration-proof screw-terminal wire connections in compact yet demanding environments. They're ideal for power supplies, control modules, relay interfaces, sensor or actuator connection boards, and compact automation hardware, especially where reliable contact force and mechanical resilience matter. Their modular fixed-block format simplifies PCB layout and production planning, while the high voltage and current ratings support both signal and low-power power distribution on the same board. Safety approvals and flame-retardant materials make these connectors appropriate for industrial, instrumentation, and building-control electronics where compliance and durability are essential.

TECHNICAL DATA

GENERAL DATA

Type	PCB terminal
Pitch	5 mm
Colour	Green
Number of poles	2
Approvals	CSA

RATINGS

Rated current	16 A
Rated voltage	250 V
Rated cross section	2.5 mm ²
Rated impulse voltage	4 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	12 mm
Width	12.5 mm
Height	20 mm
Width left	2.5 mm
Width right	5 mm
Drillhole diameter	1.3 mm
Length of pin	4.5 mm

CONNECTION DATA

Connector type/principle	Screw
Number of levels	1
Angle of PCB/wire connection	0°/180° (horizontal)
Type of attachment to PCB	Connecting contact
Electrical connection type to PCB	Solder
Cross section single wire from	0.2 mm ²
Cross section single wire to	4 mm ²
Cross section stranded wire from	0.2 mm ²
Cross section stranded with ferrule to	2.5 mm ²
Cross section stranded wire to	2.5 mm ²
Cross section stranded with ferrule from	0.2 mm ²
Rated wire cross section to (AWG)	14
Rated wire cross section from (AWG)	24
Stripping length	7 mm
Screw size	M 2,5
Torque	0.6

MATERIALS

Housing material	Polyamide 6.6
Flammability class	UL94-V2
Operating temperature from	-30 °C
Operating temperature to	105 °C
Solder lug	Copper
Screw material	Steel
Clamp material	Steel

APPROVALS

CSA test standard	CSA 22.2 No.158
Rated voltage CSA	300
Rated current CSA	20 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	100
Weight	3.8 g
Country of origin	DE
Current creepage resistance	CTI 600
Glow wire flammability index (GWFI)	GWFI 960
Glow wire ignition temperature (GWIT)	GWIT 775
GWFI after-glow time	30 s
GWIT exposure time	5 s
Insulation resistance	1*10 ¹² Ω x cm



