

PK 110, 114

10099.1

PK 110/2/7,50-V GN

- Integrated Strain Relief
- Suitable for wire cross sections up to 2.5 mm²
- Prevents unexpected disconnections



PRODUCT DESCRIPTION

These PK-110 and PK-114 fixed PCB connectors are compact, panel-mounted wire protection connectors designed to interface external wiring cleanly to printed circuit boards. They feature a robust thermoplastic housing with integrated strain relief and wire sealing grommets to protect the cable entry point against mechanical stress, maintain wire position, and help prevent insulation damage. The connectors support wire cross-sections up to approximately 2.5 mm², accepting both tin- and gold-plated contacts suitable for currents around 5–10 A and finishing voltages up to 250 V IEC. They also provide secure latching onto PCBs via snap-in profiles or solderable tails, offering mechanical stability against vibration and handling forces. Their IP-level protection at the wire entry enhances environmental resistance, making them suitable for rugged use.

The PK-110/114 connectors bring added durability and reliability to applications where wiring integrity and PCB-board connectivity matter. The built-in wire protection reduces the likelihood of conductor fatigue in high-vibration or flexing conditions, such as automotive electronic modules, portable instrumentation, or industrial control units. They're ideal for scenarios requiring frequent mating cycles or field mounting, as the strain-relief housing prevents unexpected disconnections and stress on solder joints. Overall, these connectors allow for safe, durable, and efficient board-to-wire connectivity in compact electronics used across sectors like HVAC controls, battery management modules, and access control systems.

TECHNICAL DATA

GENERAL DATA

Type	PCB terminal
Pitch	7.5 mm
Colour	Green
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	24 A
Rated voltage	500 V
Rated cross section	2.5 mm ²
Rated impulse voltage	3 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	9 mm
Width	15.7 mm
Height	12.5 mm
Width left	4.45 mm
Width right	3.75 mm
Drillhole diameter	1.3 mm
Diameter of the connection pin	1 mm
Length of pin	4.5 mm

CONNECTION DATA

Connector type/principle	Wire protection
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	2.5 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)	22
Stripping length	7 mm
Screw size	M 3
Torque	0.5

MATERIALS

Housing material	Polyamide 6.6
Flammability class	UL94-V0
Operating temperature from	-30 °C
Operating temperature to	105 °C
Screw material	Steel
Clamp material	Brass
Wire protection	Stainless steel

APPROVALS

UL test standard	UL 1059
Rated voltage UL	300 V
Rated current UL	20 A
cUL test standard	CSA 22.2 No.158
Rated voltage cUL	300 V
Rated current cUL	20 A
VDE test standard	DIN EN 60998
Rated voltage VDE	500 V
Rated current VDE	24 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	2.7 g
Connection cycles acc. to standard	5
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



