

PKBZ 965

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PKBZ 965/2/7,62-F GN

- 6 kV impulse voltage
- Pluggable female socket blocks
- 2 to 16 poles



PRODUCT DESCRIPTION

The PKBZ 965 is a series of pluggable female socket blocks featuring screw-terminal connections and a 7.62 mm pitch, available in configurations ranging from 2 to 16 poles. Each variant offers reliable technical performance: rated for 12 A current, 400 V voltage, and 6 kV impulse voltage, with compliance to Overvoltage Category III and Pollution Degree 3, ensuring safe and stable operation in industrial environments. These connectors are constructed with a polyamide 6.6 housing (UL 94 V-0) and brass clamping elements, complemented by bronze contact springs and steel screws. Safety and durability are reinforced by glow-wire resistance that meets GWFI 850 °C and GWIT 775 °C standards, CTI 600 for tracking resistance, and up to 100 mating cycles, operating reliably between -30 °C to +105 °C. Approvals from UL, cUL, and VDE (UL 1059, CSA 22.2 No. 158, DIN EN 61984) further validate its credentials for use in regulated markets.

The PKBZ 965 series serves as a versatile solution for PCB-to-wire or board-to-module interconnections across sectors such as industrial automation, control cabinet construction, and transportation systems. Its screw-connection design supports wiring flexibility and strong contacts, suitable for wiring multi-channel control panels or modular system designs. The range of pole counts provides flexibility for dense circuit layouts, enabling designers to match the connector size to their application precisely. The high current and voltage ratings make it suitable for both control signals and power distribution within compact PCB assemblies. Combined with its high temperature and flame resistance and robust safety certifications, the PKBZ 965 is ideal for environments demanding reliability, serviceability, and safety, including heavy machinery, HVAC systems, and commercial electrical panels.

TECHNICAL DATA

GENERAL DATA

Type	Plug-in connector
Pitch	7.62 mm
Colour	Green
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	12 A
Rated voltage	400 V
Rated cross section	2.5 mm ²
Rated impulse voltage	6 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	15.1 mm
Width	25.54 mm
Height	18.2 mm
Width left	8.96 mm
Width right	8.96 mm

CONNECTION DATA

Connector type/principle	Screw
Contact version	Female connector
Connector version	Pluggable
Number of plugin rows	1
Cross section single wire from	0.08 mm ²
Cross section single wire to	4 mm ²
Cross section stranded wire from	0.08 mm ²
Cross section stranded with ferrule to	2.5 mm ²
Cross section stranded wire to	4 mm ²
Cross section stranded with ferrule from	0.25 mm ²
Rated wire cross section to (AWG)	12
Rated wire cross section from (AWG)	28
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
Contact spring	Bronze
Screw material	Steel
Clamp material	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 61984
Rated voltage VDE	400 V
Rated current VDE	12 A
Plug-in cycles acc. to standard	100
Tariff code	85366990
Pack size	50
Weight	4.27 g
Angle of wire connection/contact	0°/180° (horizontal)
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	$1 \cdot 10^{13} \Omega \times \text{cm}$



