

High Temperature (500°C) Ceramic Terminal Blocks, with Stainless Steel terminals and screws

These high quality electrical connection blocks allow efficient and easy wiring connections of ovens, infrared heaters, quartz tube heaters in furnaces, kilns, catering equipment.

Main features :

- Designed for increased resistance to permanent high temperature, they can withstand long term temperatures of 900°F (500°C) and 1292°F (700°C) during short time periods.
- The BD type has 4 legs to avoid thermal conduction with the mounting board and a cable bending protection blade on saddles
- Terminal screws are provided with a stainless steel elastic washer to avoid loosening by thermal cycles
- Rating: 32A per terminal

Ceramic: Ker 600 ceramic (high alumina content)

- Bulk density : >3 g/cm³
- Water absorption : 0 %
- Flexural strength : >200 Mpa/cm²
- Coefficient of thermal expansion : <8 10-6 mm/°C (20-100°C)
- Volume resistivity : >10¹³ ohms.cm at 100°C
- Dielectric strength : 15 Kv/mm
- Terminal numbering: 1, 2, 3

Screws: M4 x8, AISI 304 stainless steel. Maximum torque allowed: 1.2Nm

Saddles and washers: Stainless steel Aisi 304

Terminals: 8 x 2mm Aisi 304 Stainless steel

Max wires gauge (per terminal, wires inserted between saddle and connector plate):

- accepts 1 stranded wire 5.1 mm dia. (max 10mm² or AWG 8) or 2 stranded wires dia 2.9 mm (6mm², AWG 10)
- accepts 2 plain wires, diameter up to 2.2 mm dia (2 x 4mm² or 2 x AWG 12)

Maximum ambient temperature:

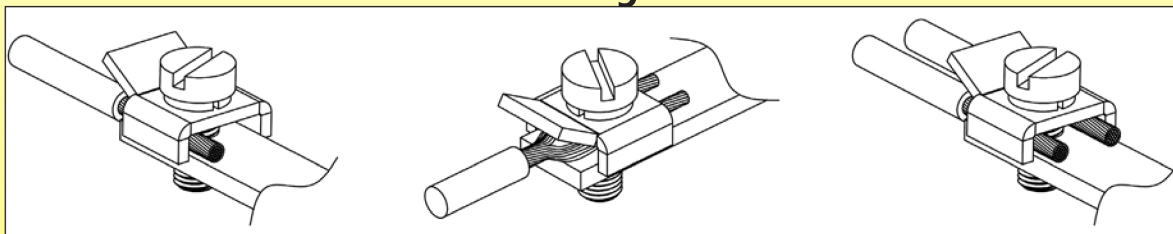
long term: 500°C (900°F)
short time: 700°C (1292°F)

Voltage: 750V max (insulation distance >10mm between fixing face and live parts, and >10 mm between phases)

Applicable standards: (IEC)EN 60998-1 and (IEC) EN60998-2-1 (August 1993)

Particular care must be taken while selecting central fixing screw dimensions to avoid reducing insulation distances under values requested by applicable standards.

Possible wire mountings under the saddle



Main references

Picture	Drawing	Ways	Dimensions (+/-1mm)	Fixing	Unit net weight	Reference
		2	40 x 32 x 21 mm	1 x 5 mm for 4mm dia. screws	56 grs (+/-5 grs)	BC2C2
		3	62 x 32 x 21 mm	2 x 5 mm for 4mm dia. screws, distance 22 mm	75 grs (+/-5 grs)	BC3C3
		2	40 x 32 x 21 mm	1 x 5 mm for 4mm dia. screws, 4 legs	56 grs (+/-5 grs)	BD2D2
		3	62 x 32 x 21 mm	2 x 5 mm for 4mm dia. screws, distance 22 mm, 4 legs	75 grs (+/-5 grs)	BD3D3