




# Very High Temperature (500°C) Ceramic Terminal Blocks, with Stainless Steel terminals and screws, types **BCA**, **BCB** and **BCC**

		
Type BCA	Type BCB	Type BCC
<p>Basic model for general applications in electrothermics</p>	<p>Includes a 4 feet base to allow a remote mounting of the mounting surface and avoid the heat conduction from the support. Suitable for mounting on furnace walls.</p>	<p>Includes a ceramic protective cap secured by two M4 screws. It protects against hand contacts, and also prevents short circuits due to the fall of conductive materials in case of fire. Developed for road and railway tunnels.</p>

Applications: These high quality electrical connection blocks allow efficient and easy wiring connections of ovens, infrared heaters, quartz tube heaters in furnaces, kilns, catering equipment, **but also in equipment that must withstand fire whilst maintaining their function such as road and railway tunnels and military equipment**  
 Specially designed to provide increased resistance to high temperatures, they can withstand 500 °C (900 °F) continuously and 700 °C (1292 °F) peak. **They retain their mechanical properties, electrical insulation and connectivity after 2 hours at 920°C (Fire simulation test)**

#### Typical insulation resistance between two terminals:

- at 100°C (212°F): 1500 Mohm
- at 500°C (900°F): 1000 Mohm
- at 700°C (1290°F): 650 Mohm
- at 900°C (1650°F): 10 Mohm

**Dielectric strength:** 15 kV / mm

**Screws:** M4x8, 304 stainless steel, with spring washer against loosening at high temperature. Recommended torque 13~ 20 DaN.cm  
 Two possible types of screw heads: Phillips or slot upon DIN84

**Terminals:** 304 Stainless steel, 16mm<sup>2</sup> gauge

**Saddles:** 304 Stainless Steel, with or without safety tab against wire shearing

#### Max wire gauges (per terminal, wires inserted between saddle and connector plate):

- 1 stranded wire dia. 5.1mm (max 10 mm<sup>2</sup> or AWG8)
- Two stranded wires dia. 2.9 mm (2 x 6mm<sup>2</sup>, 2x AWG 10)
- Two rigid wires dia. max 3 mm (2 x 6 mm<sup>2</sup>, 2 x AWG 10)

**Current carrying capacity:** 32A per terminal

**Maximum Operating Voltage:** 750V (insulation distance greater than 10mm between mounting board and terminals, and between terminals). Special care must be taken to avoid reducing the isolation distances during assembly by the use of inappropriate mounting screws or poorly stripped or poorly insulated cables.

#### Maximum ambient temperature:

- Permanent: 500°C (900°F)
- In peak short duration: 700°C (1292°F)
- Fire: 920°C (1690°F) for two hours (Afterwards equipment must be replaced, but it retains its main characteristics during the fire).

**Applicable standards:** (IEC) EN60998-1 ; (IEC) EN60998-2-1 (August 1993) ; NFC32-070.