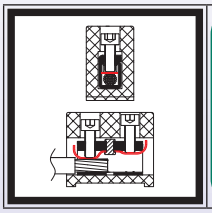
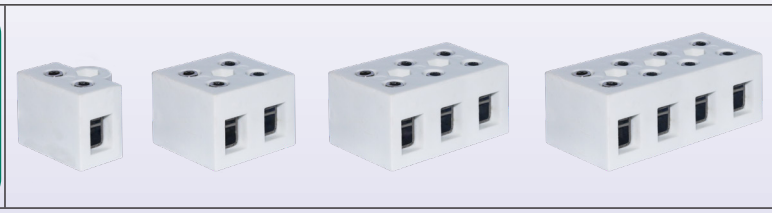
Type BK
Main features



C221 unglazed ceramic



Applications: These terminal blocks have been developed to meet the specific needs of connections that must withstand very high temperatures, up to 500°C (930°F) permanently and 700°C (1290°F) peak. They also ensure the continuity of the connection in case of fire up to 950°C (1740°F) (Their subsequent replacement is then necessary). They are particularly intended for road tunnels, public transport tunnels (trains, subways), boat and submarine parts that must withstand a fire, but also for furnace connections when the ambient temperature is very high at all times. Because of their construction, they are non-flammable and resistant to moisture. Although standards IEC (EN) 60998-1 and IEC (EN) 60998-2 have not provided for the special temperature holding conditions of these terminal blocks, their construction meets their specifications (where applicable), for a maximum voltage of 750V.
At 700°C, in 230V, the leakage current to earth is about 0.1milliamperes. The IEC 60331-21 and IEC 60331-11 standards for fire resistance of cables require a maximum leakage current of 2A at 850°C. It is reached only around 900°C in these terminals, for a voltage of 230V.

Ceramic: Steatite type C221, unglazed, slightly creamy color.
Typical isolation resistors between two terminals (500V measuring voltage):
- at 20°C (70°F): > 100 GΩ
- at 100°C (212°F): > 100 GΩ
- at 200°C (390°F): 90 GΩ
- at 300°C (570°F): 55 GΩ
- at 400°C (750°F): 5 GΩ
- at 500°C (930°F): 90 MΩ
- at 600°C (1110°F): 10 MΩ
- at 700°C (1290°F): 2,5 MΩ

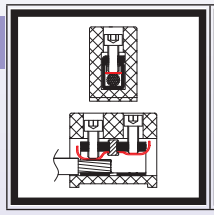
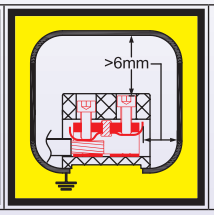
The EN 60998 standard imposes an insulation resistance greater than 5MΩ. It is reached around 680°C (1250°F) on this model.
Dielectric strength: greater than 3000V at 20°C
Screws: 304 stainless steel, hollow hexagonal head, according to ISO 4762
Terminals: Nickel
Pressure Plates: Nickel
Maximum operating voltage: 750V, in pollution class 3. (Pollution class 3 defines micro environmental conditions causing conductive pollution, or when a non-conductive pollution that may become conductive if condensation occurs).
Insulation distances: Greater than 6mm between mounting face and terminals, between terminals, and between two connection blocks mounted side by side.
Live parts: Not protected against accidental electrical contact.
Mounting: With the exception of the single-wire terminals, the terminal blocks have one or two holes for installing a fixing screw on a wall. A hexagonal housing makes it possible to place a round-headed or hexagonal screw, or a nut. This allows mounting with clamping by the front or the back. The largest dimensions (35 and 50mm²) can accommodate a 35mm Din rail mounting clip.
Important note: These terminal blocks must imperatively be fixed in order to prevent their movement for any reason in the box in which they are mounted, and consequently put them in a position where the insulation distances are no longer respected.
Maximum ambient temperature:
- Permanent: 500°C / 930°F
- Peak (<90 minutes): 700°C / 1290°F

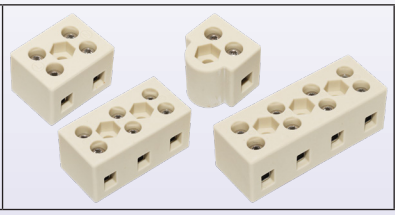
The temperature resistance values of the nickel terminals were validated by wire pull tests according to EN 60998, performed after 48H at 500°C (930°F) and 90 minutes at 700°C (1290°F).
Partially applicable standards: (IEC) EN 60998-1; (IEC) EN 60998-2-1.
Caution: Special care must be taken to avoid electric shock. These terminal blocks are not usable in places accessible without tools. They must be mounted in protective boxes. Respect the distances in the air of at least 6mm between the live parts and the walls of the protective case. Other rules may apply according to local safety regulations.

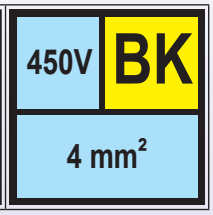
Miniature 450V steatite connection blocks

Halogens FREE | RoHS REACH | C221 unglazed ceramic

Not protected against electrical shocks, for temperature up to 650°C, nickel terminals with pressure plate, 4mm².

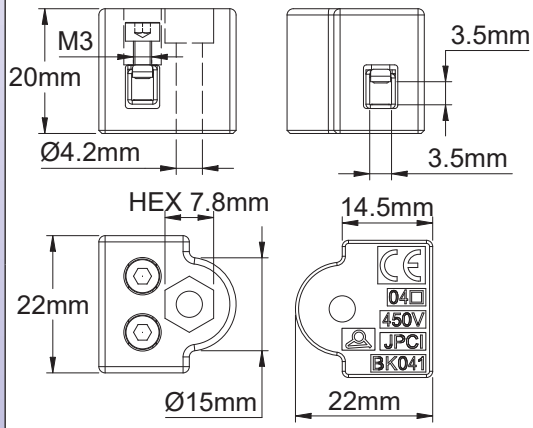


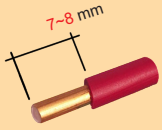
4mm²

BK041

20 gr.



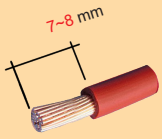
SOLID CONDUCTOR



4mm² / 2.5mm²/ 1.5mm²

AWG12 / AWG14 / AWG16

STRANDED CONDUCTOR

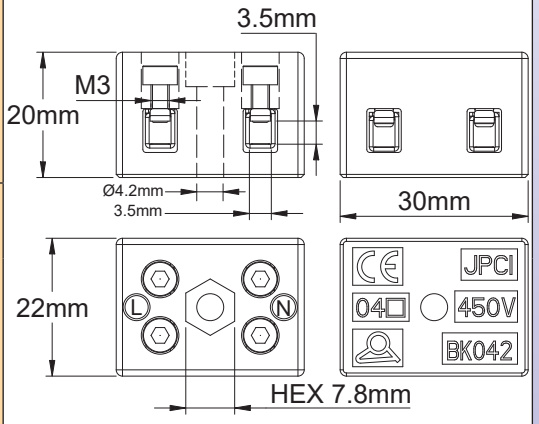


4mm² / 2.5mm²/ 1.5mm²

AWG12 / AWG14 / AWG16

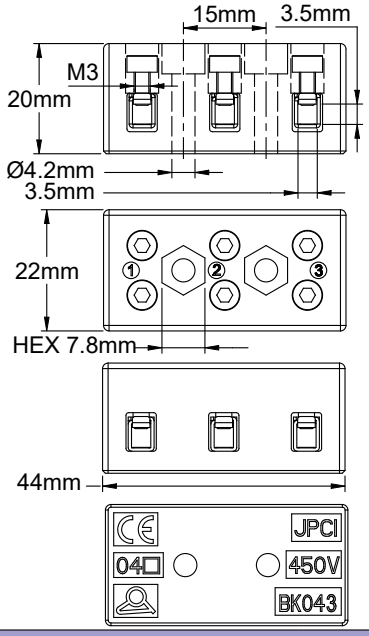
BK042

33 gr.



BK043

49 gr.



0.5 N.m

M3

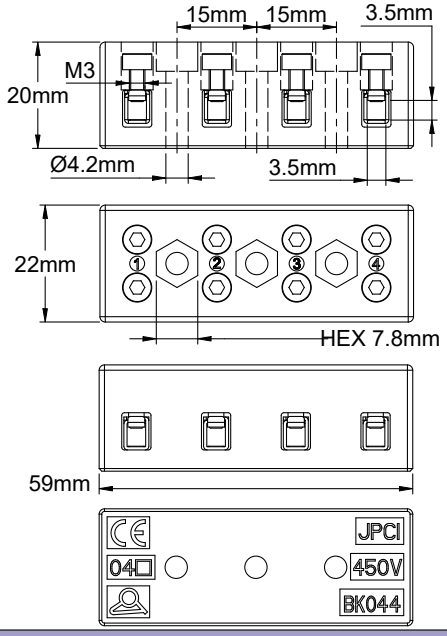
450V

32A

Permanent	500°C/930°F
Peak	700°C/1290°F 950°C/1740°F*

BK044

65 gr.



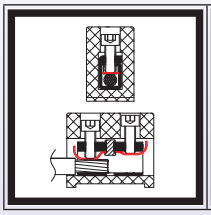
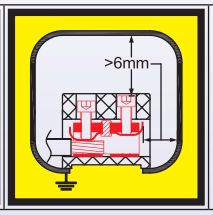
* : Fire conditions, product must be replaced after it.
Terminals, screws and pressure plate are also available in stainless steel. MOQ apply.

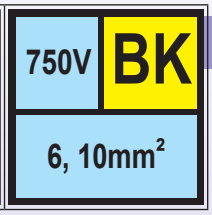
Update 2025/10/30

Very high temperature steatite connection blocks, 750V range

Halogens FREE | RoHS REACH | C221 unglazed ceramic

Not protected against accidental electric contact, nickel terminals, stainless steel screws, nickel pressure plate

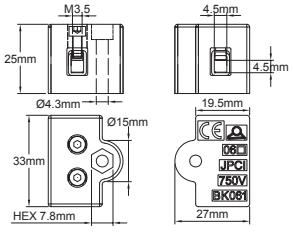



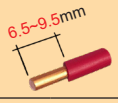
6mm²

BK061

46 gr.

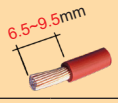


SOLID CONDUCTOR



6mm² / 4mm² / 2.5mm²
AWG10 / AWG12 / AWG14

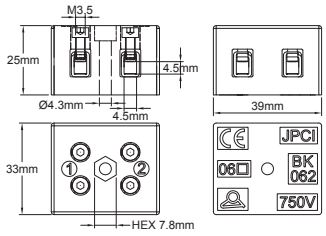
STRANDED CONDUCTOR



4mm² / 2.5mm²
AWG12 / AWG14

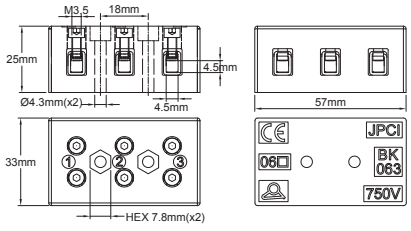
BK062

82 gr.



BK063

120 gr.



0.5 N.m

M3

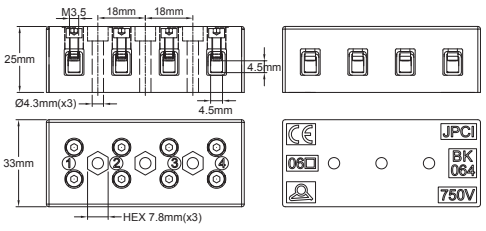
750V

41A

Permanent	500°C/930°F
Peak	700°C/1290°F 950°C/1740°F*

BK064

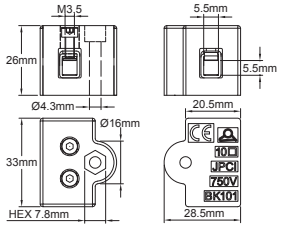
158 gr.



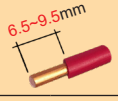
10mm²

BK101

50 gr.

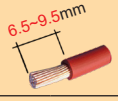


SOLID CONDUCTOR



10mm² / 6mm² / 4mm²
AWG8 / AWG10 / AWG12

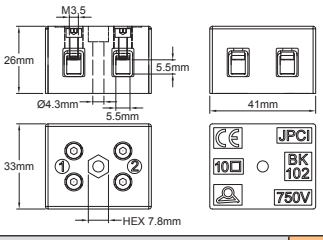
STRANDED CONDUCTOR



6mm² / 4mm²
AWG10 / AWG12

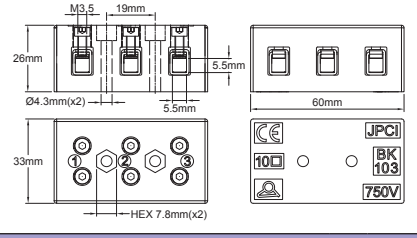
BK102

90 gr.



BK103

130 gr.



0.8 N.m

M3.5

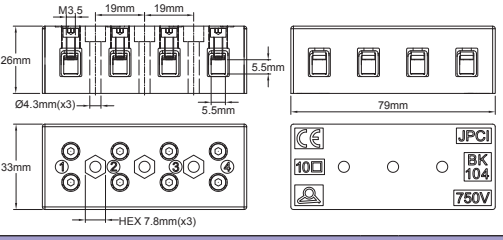
750V

57A

Permanent	500°C/930°F
Peak	700°C/1290°F 950°C/1740°F*

BK104

170 gr.



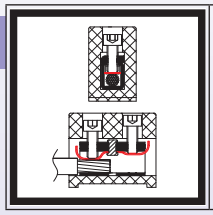
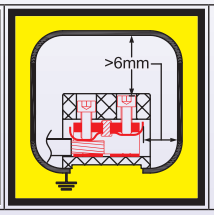
* : Fire conditions, product must be replaced after it.

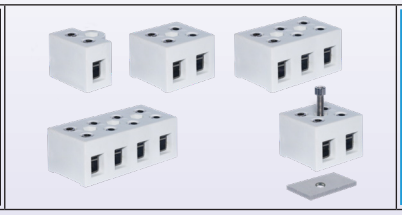
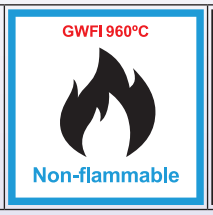
Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice

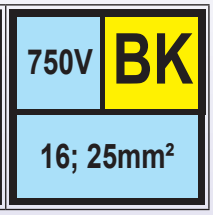
Very high temperature steatite connection blocks, 750V range

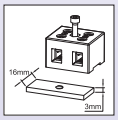
Halogens FREE | RoHS REACH | C221 unglazed ceramic

Not protected against accidental electric contact, nickel terminals, stainless steel screws, nickel pressure plate

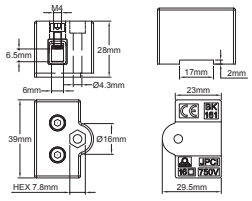




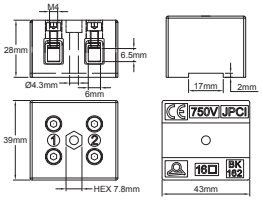
16mm²

Mounting on 16x3mm rail is possible

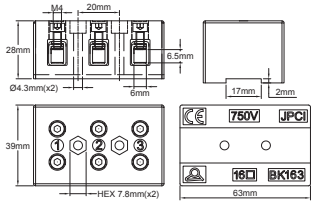
BK161 — 67 gr.



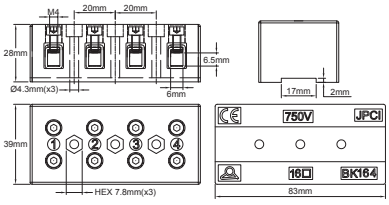
BK162 — 121 gr.



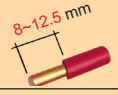
BK163 — 177 gr.



BK164 — 233 gr.

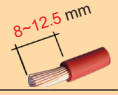


SOLID CONDUCTOR



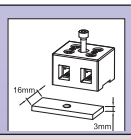
16mm²/10mm²/6mm²
AWG6, AWG8, AWG10

STRANDED CONDUCTOR



10mm²/6mm²
AWG8, AWG10

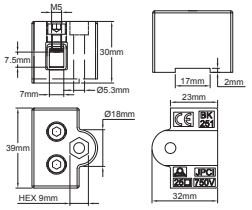
1.2 N.m	M4
750V	79A
Permanent	500°C/930°F
Peak	700°C/1290°F 950°C/1740°F*



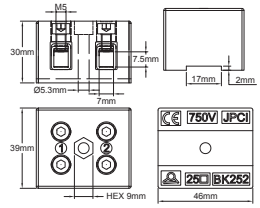
25mm²

Mounting on 16x3mm rail is possible

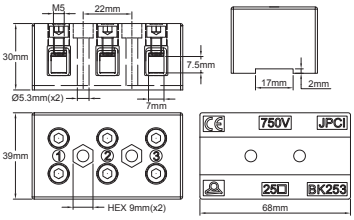
BK251 — 76 gr.



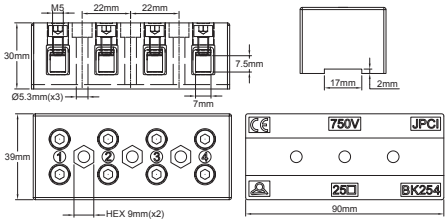
BK252 — 134 gr.



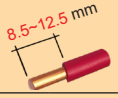
BK253 — 197 gr.



BK254 — 260 gr.

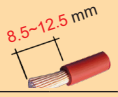


SOLID CONDUCTOR



25mm² / 16mm² / 10mm²
AWG4 / AWG6 / AWG8

STRANDED CONDUCTOR



16mm² / 10mm²
AWG6 / AWG8

2 N.m	M5
750V	101A
Permanent	500°C/930°F
Peak	700°C/1290°F 950°C/1740°F*

* : Fire conditions, product must be replaced after it.

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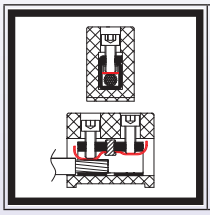
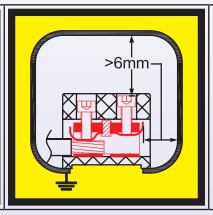
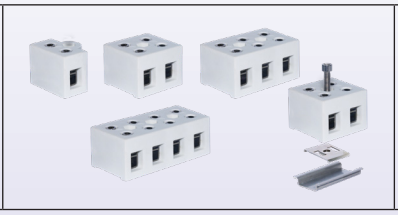
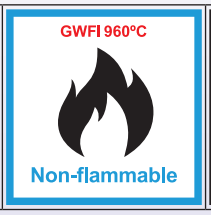
Very high temperature steatite connection blocks, 750V range

Halogens FREE | RoHS REACH | C221 unglazed ceramic

Not protected against accidental electric contact, nickel terminals, stainless steel screws, nickel pressure plate

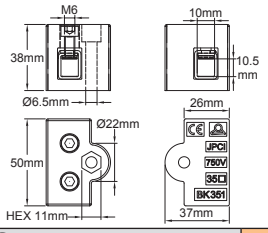



35mm²

Mounting on 35mm Din rail is possible

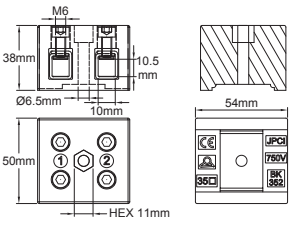
BK351

136 gr.



BK352

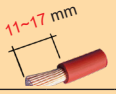
242 gr.



SOLID CONDUCTOR

35mm² / 25mm² / 16mm²
AWG2 / AWG4 / AWG6

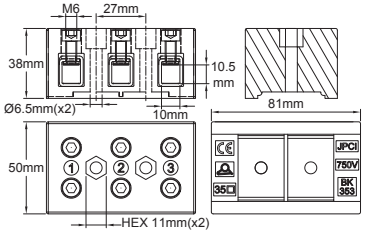
STRANDED CONDUCTOR



25mm² / 16mm²
AWG4 / AWG6

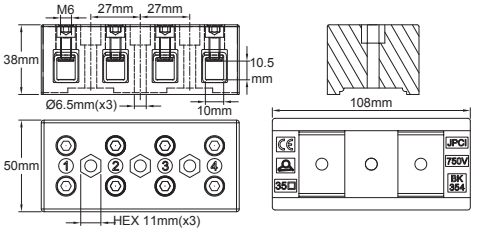
BK353

353 gr.



BK354

470 gr.



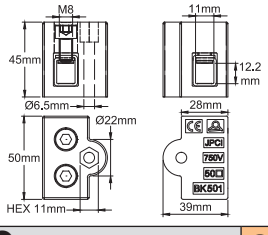
2.5 N.m	M6
750V	125A
Permanent	500°C/930°F
Peak	700°C/1290°F 950°C/1740°F*

50mm²**

Mounting on 35mm Din rail is possible

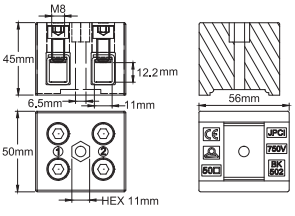
BK501

165 gr.



BK502

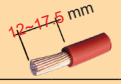
317 gr.



SOLID CONDUCTOR

50mm² / 35mm² / 25mm²
AWG0 / AWG2 / AWG4

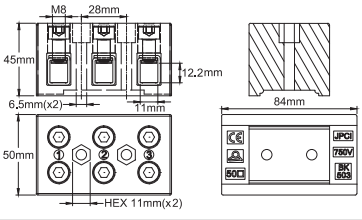
STRANDED CONDUCTOR



35mm² / 25mm²
AWG2 / AWG4

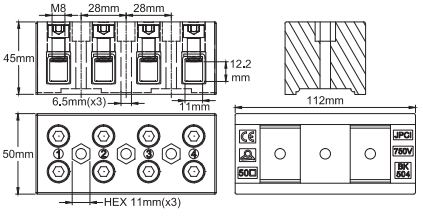
BK503

470 gr.



BK504

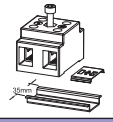
630gr.



3.5 N.m	M8
750V	150A**
Permanent	500°C/930°F
Peak	700°C/1290°F 950°C/1740°F*

* : Fire conditions, product must be replaced after it

** : These cross-section and rating do not exist in EN60998 which is limited to 35mm², so these values are taken from EN60947.

	35mm Din rail mounting clip	Reference
		66AT410650