



Ceramic Connectors

Porcelain is the oldest and most natural material in the world for electrical insulation. Its main features are:

- Chemical resistance
- Non-flammability
- Heat resistance
- Non-corrosive

These connector blocks are designed for use in high temperature applications and direct connection to very high temperature components (eg heating elements) is possible. However, in line with the oxidation point of the brass insert, the ambient temperature should be limited to 350 °C.

A number of articles can also be offered in steatite now. Have a look at our [Comparison of material!](#)

Technical description

Housing

Porcelain KER 111
DIN 40685, unglazed
colour: white
creep resistance: > 600 CTI

Continuous use temperature:

housing: 600 °C
insert: 350 °C

Insert

brass, nickel / tin galvanised

Wire protector

spring stainless steel

Screw

steel zinc galvanised,
chromed,

screwed down as far as possible

Technical note:

Due to the positioning of the screws on the cylindrical design connectors (type 1-302-2; 1-303-3), these connectors must be assembled into an external housing in order to prevent accidental contact with a live connection.

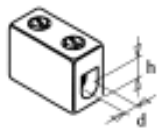
It should also be noted that an earth connection mark is indicated on connector 1-303-3.

Special design:

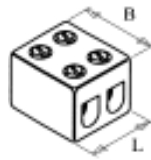
- brass screw
- non-standard modification and number of poles
- steatite KER 200, DIN 40685

Ceramic Connectors *without* fixing hole

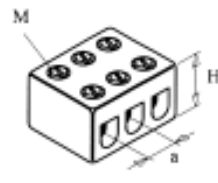
Design A



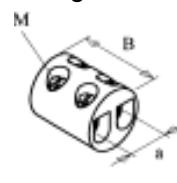
Design B



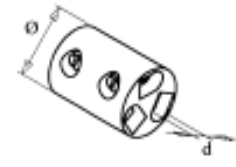
Design C



Design D



Design E



Differences between porcelain and steatite are marked red.

Article

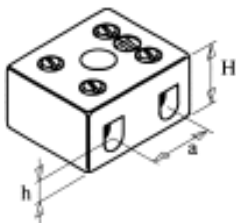
Electrical value

Dimensions

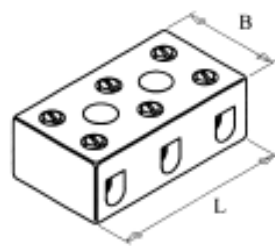
Type	Pole	Material	Design	Nominal voltage	Clamping area	Nominal current	Nominal cross-section	L mm	B mm	H mm	M mm	A mm	K max	G max	a/b mm	d mm	h mm
1-302-2	2	Porcelain	D	250 V	6 mm ²	24 A (10 A)	2,5 mm ²	ø15	18	ø15	M3	-	-	-	7	3,4	-
1-303-3	3	Porcelain	E					ø16	23	ø17	M3	-	-	-	6,8	3,4	-
1-111-1	1	Porcelain	A	250 V	6 mm ²	24 A (10 A)	2,5 mm ²	8,5	18	14	M3	-	-	-	-	3,4	5,3
1-111-1/ST	1	Steatite	A					9	18	15,5	M3	-	-	-	6,5	3,4	5,3
1-112-2	2	Porcelain	B					16	17	13,5	M3	-	-	-	3,4	5,2	
1-113-3	3	Porcelain	C					24	16	14	M3	-	-	-	3,4	5,5	
1-1DIN85-1*	1	Porcelain	A	250 V	6 mm ²	24 A (10 A)	2,5 mm ²	26	21	17	M3	-	-	-	8	3,6	5,5
1-2DIN85-2*	2		B					18		17	M3	-	-	-	8	3,6	5
1-3DIN85-3*	3		C					26		17	M3	-	-	-	8	3,6	5,5
1-211-1	1	Porcelain	A	450 V	16 mm ²	41 A (32 A)	10 mm ²	15	30	23	M4	-	-	-	-	5,5	8
1-212-2	2		B					25,4	30	23	M4	-	-	-	11	5,5	8,5
1-213-3	3		C					37	30	23	M4	-	-	-	11	5,5	8,5

Ceramic Connectors with fixing hole

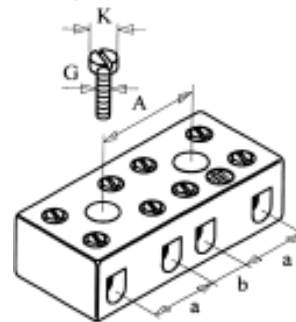
Design F



Design G



Design H



Differences between porcelain and steatite are marked red.

Article

Electrical value

Dimensions

Type	Pole	Material	Design	Nominal voltage	Clamping area	Nominal current	Nominal cross-section	L mm	B mm	H mm	M mm	A mm	K max	G max	a/b mm	d mm	h mm
2-402Z-2* 2-402Z-2/ST* 2-403Z-3* 2-403Z-3/ST*	2 2 3 3	Porcelain Steatite Porcelain Steatite	F F G G	250 V	6 mm ² (2,5 mm ²)**	24 A (10 A)	2,5 mm ²	21 21 33 33	18 18 18 18	15 15,5 15 15,5	M3 M3 M3 M3	- - 11 11	7,2 7,2 7,2 7,2	4,5 4,5 4,5 4,5	11 11 11 11	3,4 3,4 3,4 3,4	4,8 5 5,8 5
2-402-2* 2-403-3* 2-424-4	1 2 3	Porcelain	F G H	450 V	6 mm ² (2,5 mm ²)**	24 A (10 A)	2,5 mm ²	23 36 45	20 20 23	16 16 17	M3 M3 M3	- 12 -	7,2 8 9	4,2 4,5 5	12,5 12,5 8/17	3,4 3,4 3,4	5,8 5,8 4,5
2-2DIN84-2* 2-3DIN84-3*	2 3	Porcelain	F G	450 V	6 mm ² (2,5 mm ²)**	24 A (10 A)	2,5 mm ²	20 34	21 21	18 18	M3 M3	- 12	6,5 6	3,8 3,6	11,5 12,5	3,6 3,6	6,5 6,5
2-30188-2*	2	Porcelain	F	450 V	6 mm ² (2,5 mm ²)**	24 A (10 A)	2,5 mm ²	26	24	22	M3	-	8	4,5	12	3,4	8,2
2-1602-2* 2-1602-2/ST* 2-1603-3* 2-1603-3/ST*	2 2 3 3	Porcelain Steatite Porcelain Steatite	F F G G	450 V	10 mm ² (4 mm ²)**	32 A (16 A)	4 mm ²	24 24 39 38	22 22 23 22	21 21 20 21	M3,5 M3,5 M3,5 M3,5	- - 14 14	7,5 7,5 7 7,5	5,3 5,3 4,5 5,3	14 14 14 14	4,2 4 4,2 4	8,5 8,7 7 8,7
2-2021-2 2-2021-2/ST 2-2031-3 2-2031-3/ST	2 3 2 3	Porcelain Steatite Porcelain Steatite	F G F G	450 V	16 mm ² (6 mm ²)**	41 A (32 A)	10 mm ²	34 34 52 53	30 30 30 30	23 23 23 23	M4 M4 M4 M4	- 18 - 19	9,5 9,5 7,4 9,5	5,1 5,2 5,5 5,2	18,3 19 18,5 19	5,5 5,5 5,5 5,5	7,6 8,25 8 8,25

The steatite versions are not available with wire protection.

Nominal current according VDE0613 / EN60998 (VDE 0700 / EN 60335).

* These products are certificated according EN60998 and accepted by CCA-protocols in more than 20 countries (CENENEC approved)

** Types with wire protector are marked with "DS" behind type number.

*** Distance between center of fixing holes (=A). Dimension for head (=K) and shank (=G) of fixing screw.