

Junction Box for Power Cables Connection

Junction boxes JB2221-544-2X(11-59) are designed for power distribution during installation, repair and upgrade of power cables and utility networks in explosion hazard areas.

The boxes' models are designed for installation onto a nearby metal structure. The box allows connection of up to six power cables.

The enclosure design ensures moisture and dust ingress protection IP66 and high corrosion stability.

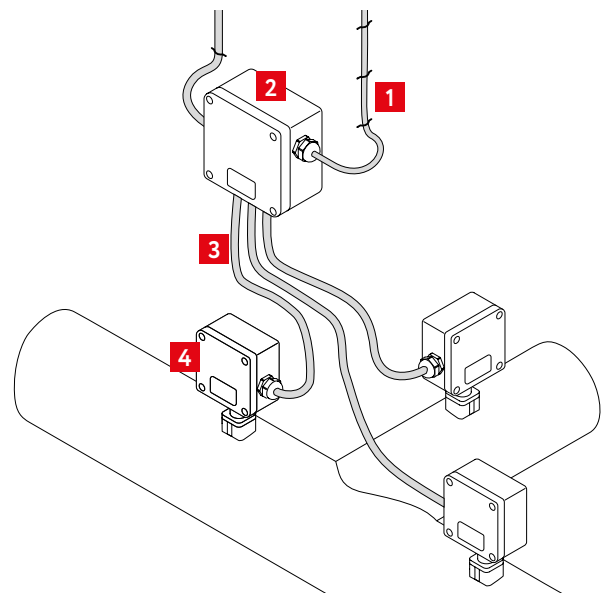
The box has following cable glands:

- up to two glands for unarmored cable with a diameter of 14 to 25 mm or armored cable with a diameter of 17 to 26.3 mm (for models JB2221-544-21(11-38)) or armoured cable with a diameter of 23.5 to 33.6 mm (for models JB2221-544-21(39-59)).
- up to four glands for unarmored cable with a diameter of 7 to 18 mm or armored cable with a diameter of 12 to 20 mm.

The installed terminal blocks allow the connection of multi-core or single-core wires with a cross-section of 2.5 to 35 mm².

Features and Application Areas

- Efficient solution for power supply cables connection in electric heating systems
- Approved for installation in explosion hazard areas
- Critical component parts are included in the scope of supply. Flexible sealed gland FSG to be ordered separately
- Wide application range
- Quick and easy installation
- High thermal stability
- Non-corrosive

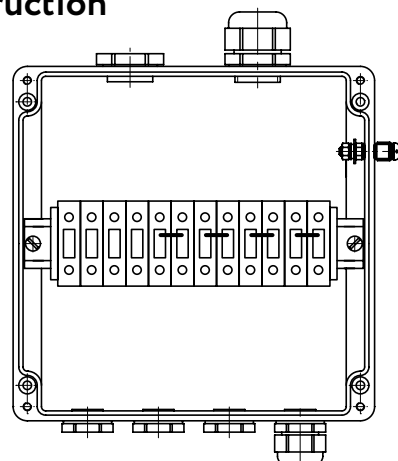


1. Power cable
2. Junction box JB2221-544-2X(11-59)
3. Power cable
4. Junction box

Technical Data

Dust and moisture protection rating	IP66
Explosion protection marking	Ex eb IIC T6...T3 Gb Ex tb IIIC T85°C... T165°C Db
Temperature group of the explosion hazard area	T6
Operating ambient temperature range	-60...+55 °C
Operating voltage	max 750 V
Operating current	max 109 A
Enclosure dimensions	250×255×120 mm
Total weight (maximum)	5.80 kg
Material box	Glass fiber reinforced polyester
Color	Black

Construction



Connection of Power Supply Cables

Accessories (to be ordered separately)

Z-profile – for mounting the box onto a metal structure or onto a wall.

Approvals



CETS 23 ATEX 029X

II 2 G Ex eb IIC T6 ... T3 Gb

II 2D Ex tb IIIC T85°C ... T165°C Db

Delivery Set

Model	Cable glands and plugs (P=plastic; B=brass)								Earthing tag	Terminated earthing wire	Terminal block	Type of terminals	Order code
	Side A		Side B		Side C		Side D						
	Cable gland	Screw plug	Cable gland	Screw plug	Cable gland	Screw plug	Cable gland	Screw plug					
JB2221-544-2111		2xM25 P	4xM25 B						V	V	6L, 2N,4PE	screw	3210102500
JB2221-544-2112	1xM25 B	1xM25 P	4xM25 B						V	V			3210102501
JB2221-544-2113	2xM25 P		4xM25 B						V	V			3210102502
JB2221-544-2114		2xM25 P	3xM25 P	1xM25 P					V	V			3210102503
JB2221-544-2115		2xM25 P	4xM25 P						V	V			3210102504
JB2221-544-2116	1xM25 P	1xM25 P	4xM25 P						V	V			3210102505
JB2221-544-2117	2xM25 P		4xM25 P						V	V			3210102506
JB2221-544-2118	1xM32 B	1xM32 P	1xM25 B	3xM25 P					V	V			3210102507
JB2221-544-2119	1xM32 B	1xM32 P	2xM25 B	2xM25 P					V	V			3210102508
JB2221-544-2120	1xM32 B	1xM32 P	3xM25 B	1xM25 P					V	V			3210102509
JB2221-544-2121	1xM32 B	1xM32 P	4xM25 B						V	V			3210102510
JB2221-544-2122	1xM32 B	1xM32 P	2xM25 P	2xM25 P					V	V			3210102511
JB2221-544-2123	1xM32 B	1xM32 P	3xM25 P	1xM25 P					V	V			3210102512
JB2221-544-2124	1xM32 B	1xM32 P	4xM25 P						V	V			3210102513
JB2221-544-2125	2xM32 B			4xM25 P					V	V			3210102514
JB2221-544-2126	2xM32 B		1xM25 B	3xM25 P					V	V			3210102515
JB2221-544-2127	2xM32 B		2xM25 B	2xM25 P					V	V			3210102516
JB2221-544-2128	2xM32 B		3xM25 B	1xM25 P					V	V			3210102517
JB2221-544-2129	2xM32 B		4xM25 B						V	V			3210102518
JB2221-544-2130	1xM32 P	1xM32 P	1xM25 P	3xM25 P					V	V			3210102519
JB2221-544-2131	1xM32 P	1xM32 P	2xM25 P	2xM25 P					V	V			3210102520
JB2221-544-2132	1xM32 P	1xM32 P	3xM25 P	1xM25 P					V	V			3210102521
JB2221-544-2133	1xM32 P	1xM32 P	4xM25 P	0xM25 P					V	V			3210102522
JB2221-544-2134	2xM32 P			4xM25 P					V	V			3210102523
JB2221-544-2135	2xM32 P		1xM25 P	3xM25 P					V	V			3210102524
JB2221-544-2136	2xM32 P		2xM25 P	2xM25 P					V	V			3210102525
JB2221-544-2137	2xM32 P		3xM25 P	1xM25 P					V	V			3210102526
JB2221-544-2138	2xM32 P		4xM25 P						V	V			3210102527
JB2221-544-2139	1xM40 B	1xM40 P	1xM25 B	3xM25 P					V	V			3210102528
JB2221-544-2140	1xM40 B	1xM40 P	2xM25 B	2xM25 P					V	V			3210102529
JB2221-544-2141	1xM40 B	1xM40 P	3xM25 B	2xM25 P					V	V			3210102530
JB2221-544-2142	1xM40 B	1xM40 P	4xM25 B						V	V			3210102531
JB2221-544-2143	1xM40 B	1xM40 P	1xM25 P	3xM25 P					V	V	3210102532		
JB2221-544-2144	1xM40 B	1xM40 P	2xM25 P	2xM25 P					V	V	3210102533		
JB2221-544-2145	1xM40 B	1xM40 P	3xM25 P	1xM25 P					V	V	3210102534		
JB2221-544-2146	2xM40 B			4xM25 P					V	V	3210102535		
JB2221-544-2147	2xM40 B		1xM25 B	3xM25 P					V	V	3210102536		
JB2221-544-2148	2xM40 B		2xM25 B	2xM25 P					V	V	3210102537		
JB2221-544-2149	2xM40 B		3xM25 B	1xM25 P					V	V	3210102538		
JB2221-544-2150	2xM40 B		4xM25 B						V	V	3210102539		
JB2221-544-2151	1xM40 P	1xM40 P	1xM25 P	3xM25 P					V	V	3210102540		
JB2221-544-2152	1xM40 P	1xM40 P	2xM25 P	2xM25 P					V	V	3210102541		
JB2221-544-2153	1xM40 P	1xM40 P	3xM25 P	1xM25 P					V	V	3210102542		
JB2221-544-2154	1xM40 P	1xM40 P	4xM25 P						V	V	3210102543		
JB2221-544-2155	2xM40 P			4xM25 P					V	V	3210102544		
JB2221-544-2156	2xM40 P		1xM25 P	3xM25 P					V	V	3210102545		
JB2221-544-2157	2xM40 P		2xM25 P	2xM25 P					V	V	3210102546		
JB2221-544-2158	2xM40 P		3xM25 P	1xM25 P					V	V	3210102547		
JB2221-544-2159	2xM40 P		4xM25 P						V	V	3210102548		

Additional junction box configurations are available upon request.