

Junction Boxes for Connection of Mineral-Insulated Heating Cables

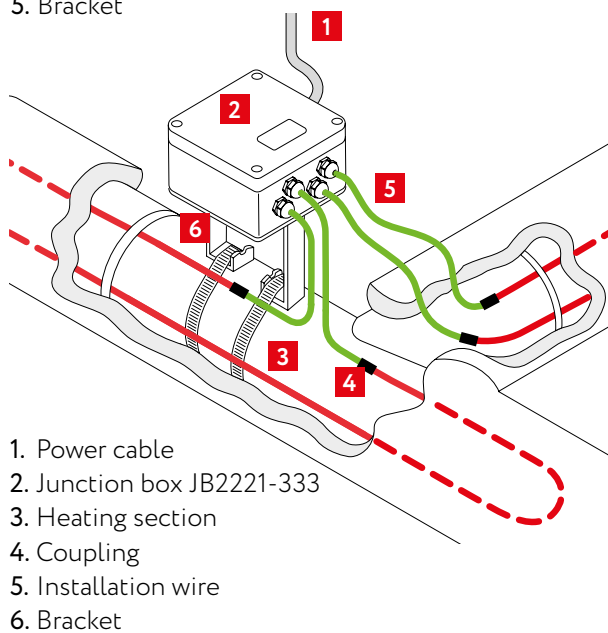
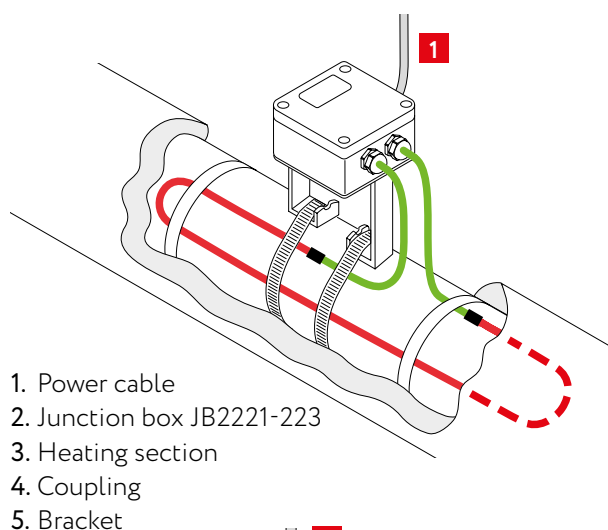
Junction boxes for connecting of heating cables with mineral insulation are designed in 3 enclosure dimensions and intended for loop, star and delta connection. Boxes' models are designed for installation onto a wall, onto a nearby metal structure or using a bracket directly onto the pipeline. The choice of the mounting option also depends on the temperature of the heated system (pipeline). At a pipeline temperature of over 200 °C, it is recommended to mount the box on a wall or on an adjacent metal structure. The box allows to connect one section of the heating cable.

The enclosure design ensures moisture and dust ingress protection IP66 and high corrosion stability. Cable glands of the box are intended for connecting unarmored power cables with a diameter of 7 to 18 mm or armored power cables with a diameter of 12 to 20 mm.

Installed terminal blocks allow the connection of multi-core or single-core wires with a cross-section of 1.5 to 10 mm² (JB2221-223 models) or up to 16 mm² (JB2221-333, JB2221-533 models). Design options with screw or push-in terminals are available to order.

Features and Application

- Efficient solution for power supply to cables with mineral insulation
- Approved for installation in explosion hazard areas
- Necessary component parts included in the scope of supply
- Designed for loop, star and delta connection
- Wide application range
- Quick and easy installation
- High thermal stability
- Non-corrosive



° This junction box is compatible with heating cables MOIC-F, MOIC-M.

° The junction boxes are compatible with mineral and metal insulated heating cables

Power Supply Heating Sections Based on Cables with Mineral Insulation

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	JB2221-223	max 550 V
	JB2221-333, JB2221-533	max 750 V
Operating current	JB2221-223	max 50 A
	JB2221-333, JB2221-533	max 66 A
Enclosure dimensions	JB2221-223	122×120×91.5 mm
	JB2221-333	160×160×94.5 mm
	JB2221-533	260×160×90 mm
Total weight (maximum)	JB2221-223	1.26 kg
	JB2221-333	1.95 kg
	JB2221-533	2.10 kg
Material Box / Color	Glass fiber reinforced polyester / Black	

Approvals



CETS 23 ATEX 029X

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

II 2D Ex tb IIIC T85°C ... T165°C Db

Accessories (to be ordered separately)

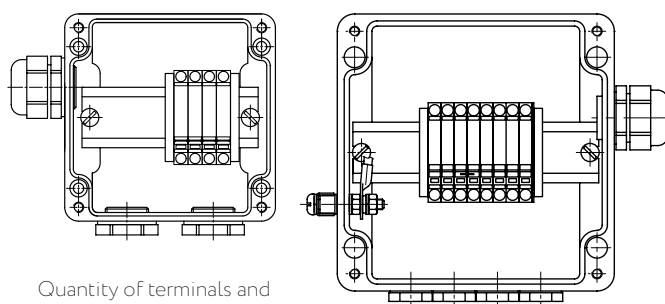
Brackets PB, KP, PL.JB0606 – for mounting the box onto the pipeline.

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

Metal pipe strap PFS/3 – for mounting the pipe support stand or bracket onto the pipeline.

Cable entry unit LEK/U – for penetrating of thermal insulation.

Construction



Quantity of terminals and placement of DIN-rail with terminal block could differ from drawings.

PREMIUM

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					
JB2221-223-2X25°				2xM20 P			1xM25 B		V	V	1L,1N,2PE	screw/ push-in	3210102450
JB2221-223-2X26				2xM20 P			2xM25 P		V	V			3210102451
JB2221-333-2X24				4xM20 P				1xM25 P	V	V	2L,1N,2PE/ 3L,2N,3PE		3210102452
JB2221-333-2X25				4xM20 P			1xM25 B		V	V			3210102453
JB2221-333-2X26				4xM20 P					V	V			3210102454
JB2221-223-2X390				2xM20 P		1xM25 P					1L,1N,2PE		3210101617
JB2221-333-2X390				3xM20 P		1xM25 P					3L,3N,2PE		3210101621
JB2221-533-2X140				6xM20 P		1xM25 P					7L,6PE	3210101625	

Order codes are valid for junction boxes with push-in terminal block.
Additional junction box configurations are available upon request.

* X = 1 for screw type terminal block; X=2 for push-in type terminal block