

SP-JBL LARGE JUNCTION BOX

Product User Manual / Datasheet

1 Product information

- Tough UV resistant polycarbonate enclosure
- IP66/67 rated
- DIN rail-mounted terminals



a. **SP-JBL large junction box**
a. Complete box with the lid screwed down.
b. Image showing internal terminal block.



2 Product description

The SP-JBL is a professional quality junction box designed to easily accommodate power and/or heating cable entry and connection. It is supplied complete with an internal assembly of DIN rail-mounted terminals with easy identification of correct wiring orientation. There are enough terminals for 1 x power and 3 x heater circuits.

The enclosure is made from tough weather proof polycarbonate which generally has better environmental (UV) resistance than ABS, and also uses 4mm² terminals for easy insertion of wiring.

There are enough terminals to easily accommodate 3 heater circuits without the need to 'gang-up' more than one circuit per terminal.

Typical application/use is to connect POWER to or TEE/SPLICE up to 3 heater circuits.

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3 Installation

1. Slide cable glands, except locknut, (supplied with power termination kits) back onto each power/heating cable.
2. Terminate heating cable using appropriate Solco Pyroelec power termination kit e.g. SP-HPEK
3. Drill out the appropriate knockout for each gland on the side of the junction box. Affix the junction box in a secure location OR to bracket supplied by Solco Pyroelec.
4. Feed the heating/power cables through each hole ensuring they pass through the gland lock nut also. Connect each heater to appropriate point in the terminal block and screw down tightly using appropriate torque level.
5. Slide each gland forward and tighten with lock nut using appropriate torque level.

4 Technical specification

Enclosure

Dimensions

Width: 125 mm, Height: 125 mm, Depth: 75 mm
Inner depth: 60.5 mm, Outer base depth: 50 mm
Outer cover height: 25 mm

Body material

Base: fibreglass reinforced polycarbonate
Cover: polycarbonate Gasket: polyurethane

Knockouts

4 x M16/M25 + 6 x M12/M20

IP rating

66/67

Impact strength

IK 08

Minimum temperature rating (°C)

-40

Maximum temperature rating (°C)

80

Short-term temperature range (°C)

-40 to 120

Flammability rating

UL 746C 5 inch flame test

ETIM class

EC000261

Suitable for outdoor set-up

Yes

Wall fastening possible

Yes

Terminals

Rated voltage: 1,000V

Rated current: 32A

Cross section: 4mm²

Creepage resistance: CTI 600

Operating temperature (°C): -40 to 120

Assembly

1 in 'L', 3 out 'L1, L2, L3'

1 in 'N', 3 out 'N1, N2, N3'

1 in 'E', 3 out 'E1, E2, E3'

DIN rail-mounted

Materials

Polyamide PA6.6 UL94, flammability class V-0, self-extinguishing without burning drops

Approvals



Made in United Kingdom

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