

JBEL Series Polycarbonate Junction Boxes

Increased Safety

Furnished complete with Terminals.

Zones 1 & 2 – 21 & 22
Gas (G) and Dust (D)

Applications

- Small terminal junction boxes designed to facilitate electrical connections in hazardous areas.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for wet or corrosive atmospheres.
- Designed for use in Zone 21 or 22 areas where flammable dusts are present either continuously or intermittently such as:
 - Food processing
 - Dairy
 - Brewing
 - Other commercial facilities

Features

- Pillar type terminal block for easy connection.
- Available in two sizes:
 - 4 mm²
 - 10 mm²
- Unarmored or armored versions with earth continuity brass device.
- Operating temperature: -40 °C to +55 °C

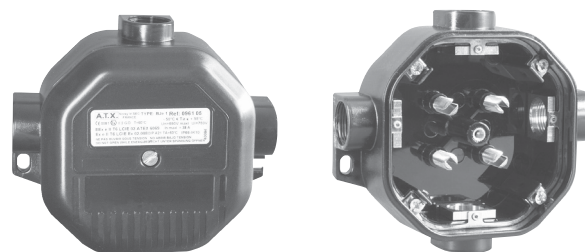
Standard Materials

- Enclosure: static and impact resistant polycarbonate
- Cover gasket: polyurethane
- Hardware: stainless steel

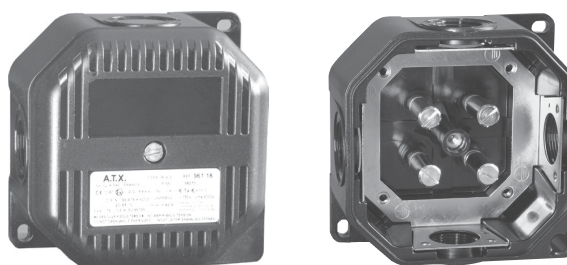
Certifications and Compliances

◆ATEX Certification

- **Certification Type BJe1**
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex e II
 - Temperature class: T6
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T75 °C
 - CE Declaration of Conformity: 50226
 - ATEX Certificate: LCIE 02 ATEX 6069
 - Ambient Temperature: -40 °C to +55 °C
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
- **Certification Type BJe2**
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex e II
 - Temperature class: T6
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C
 - CE Declaration of Conformity: 50209
 - ATEX Certificate: LCIE 99 ATEX 6003
 - Ambient Temperature: -40 °C to +55 °C
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10



For Unarmored Cable



For Armored Cable

◆EURASEC Certification

- **Certification Type: BJe1**
 - EURASEC N° TC RU C-FR.Г505.B.00911
- **Certification Type: BJe2**
 - EURASEC N° TC RU C-FR.Г505.B.00911

◆Others Certification

- **Certification Type: BJe1**
 - INMETRO Certificate: BVC 11.0479 ^①
- **Certification Type: BJe2**
 - INMETRO Certificate: BVC 11.0402-X ^①

Related Products

- Cable glands for use with armored and unarmored cable are available, see *Fittings: Cable Glands*.




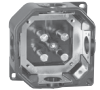
^① Inmetro certification available on special request only. Contact your local sales for more information

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Equipment	Rating (Amps)	Weight kg	Volume dm ³	Catalog Number
For Unarmored Cables 2.5/4 mm² 660 V — Certification Type BJe1 Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 2.5 mm ² or 2 x 4 mm ² + 2 x 2.5 mm ² and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 4 mm ²				
 4 x PG16 entries with knock-out caps ① 4 x Integrated cable glands for unarmored cable; 8 to 16 mm diameter <i>Important: Cables must be secured to structure close to box entries</i>	28 A/2.5 mm ² 38 A/4 mm ²	0.4	1.7	JBEL1N4P16G
For Armored Cables 2.5/4 mm² 660 V — Certification Type BJe1 Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 2.5 mm ² or 2 x 4 mm ² + 2 x 2.5 mm ² and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 4 mm ²				
 4 x M20 entries with earth brass continuity device 2 x blanking plugs	28 A/2.5 mm ² 38 A/4 mm ²	0.4	1.7	JBEL1A4M20
For Unarmored Cables 6/10 mm² 690 V — Certification Type BJe2 Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 6 mm ² or 3 x 10 mm ² + 4 mm ² and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 10 mm ²				
 3 x M20 entries 3 x cable glands for unarmored cable; 6.5 to 14.5 mm diameter		0.7	4.5	JBEL2N3M20G
4 x M20 entries 4 x cable glands for unarmored cable; 6.5 to 14.5 mm diameter	42 A/10 mm ²	0.7	4.5	JBEL2N4M20G
3 x M25 entries 3 x cable glands for unarmored cable; 8 to 18.5 mm diameter	30 A/6 mm ² 18 A/4 mm ²	0.7	4.5	JBEL2N3M25G
4 x M25 entries 4 x cable glands for unarmored cable; 8 to 18.5 mm diameter		0.7	4.5	JBEL2N4M25G
For Armored Cables 6/10 mm² 690 V — Certification Type BJe2 Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 6 mm ² or 3 x 10 mm ² + 4 mm ² and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 10 mm ²				
 4 x M20 entries with earth brass continuity device. 2 x M20 blanking plugs		0.7	4.5	JBEL2A4M20
4 x M25 entries with earth brass continuity device. 2 x M25 blanking plugs	42 A/10 mm ² 30 A/6 mm ²	0.7	4.5	JBEL2A4M25
2 x M25 + 2 x M20 entries with earth brass continuity device. 1 x M25 + 1 x M20 blanking plugs	18 A/4 mm ²	0.7	4.5	JBEL2A4M05
3 x M25 + 1 x M20 entries with earth brass continuity device. 1 x M25 + 1 x M20 blanking plugs		0.7	4.5	JBEL2A4M06

① Knock-out caps can be used as plugs.

Shaded catalog numbers are normally stocked items. All other items are made to order.

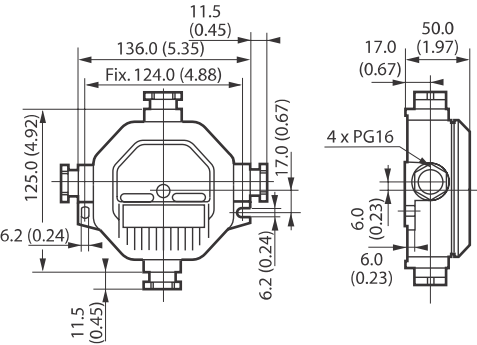
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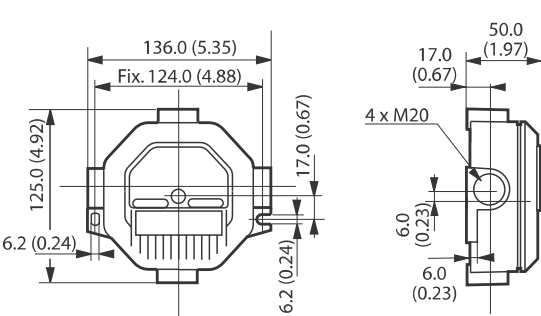
Furnished complete with Terminals.

Dimensions in Millimeters

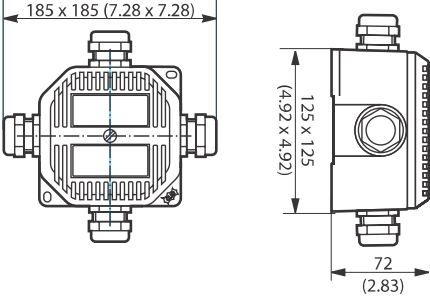
BJe1 with Cable Glands for Unarmored Cables



BJe1 without Cable Glands for Armored Cables



BJe2 with Cable Glands for Unarmored Cables



BJe2 without Cable Glands for Armored Cables

