

ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Fiberglass Reinforced Polyester. Increased Safety. For Field Drilling and Customization.

NEC/CEC:
Class I, Zone 1, AEx e IIC, T5 or T6
Ex e IIC, T5 or T6
IP66

ATEX/IECEX:
Zone 1 and 2 – 21 and 22
Ⓢ II 2 GD
IP66 – IK10

Applications

- Designed for Zones 1 or 2 areas, where flammable gases or vapors are present either continuously, often or accidentally such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for indoor/outdoor use with wet or corrosive atmospheres.
- Designed for use in Zones 21 or 22 areas where flammable dusts (conductive and non conductive) are present either continuously, often or accidentally such as:
 - Food processing
 - Dairy
 - Brewing
 - Other industrial process facilities
- Designed for Zone 0 and Zone 20 Intrinsically Safe applications when used with rated terminals.

Features

- Available in a wide range of sizes:
 - For armored, unarmored or armored lead sheathed cable
 - For use with Mantle Clamping (Pillar Terminals) for use as instrumentation, electrical or power terminals
 - For use with a variety of connection and earth terminals
- Optional external hinged enclosures:
 - Reversible door opening 120°.
 - Door with double bar lock.
 - Key locking facility.
- Refer to the technical guide to determine permitted and sizes of terminals and cables entries for self arrangement.

Standard materials

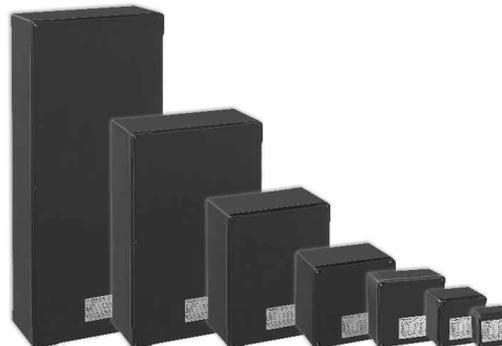
- Enclosures: Static resistant carbon filled fiberglass reinforced polyester (FRP)
- Hardware: stainless steel
- Gasket for sizes 85 x 85, 120 x 120: silicone
- Gasket for other sizes: EPDM (ethylene propylene diene monomer rubber)

Options

- External hinges are available on the following sizes:
 - 500 x 320 x 150
 - 500 x 320 x 230
 - 750 x 320 x 150
 - 750 x 320 x 230
- Silicone gasket available for sizes 170 x 170 and 200 x 215
- Removable glands plates
- Nameplates
- Mounting pan
- Terminal rail
- Inside pocket for document
- Consult factory for custom drilling and assembly requirements.

NEC/CEC Certifications and Compliances

- UL Standard: UL 60079-0; 60079-7
- CSA Standard: C22.2 No. 60079-0; 11; 60079-7: 12
- cCSAus Certified: 2625458
- CSA Listed: 013017



ATEX/IECEX Certifications and Compliances

- Certification Type JBEP
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 94/9/EC: Ⓢ IIG
 - Conforming to IECEx: EPL Gb
 - Type of Protection: Ex eb IIC, Ex eb ia IIC, Ex eb ib IIC, Ex ib IIC
 - Temperature Class: T6 for $T_a \leq +40\text{ °C}$ (+104 °F), T5 for $T_a \leq +60\text{ °C}$ (+140 °F) and T3 for $T_a \leq +90\text{ °C}$ (+194 °F) for sizes 85 x 85, 120 x 120
 - Dusts, Zones 21 and 22:
 - Conforming to ATEX: Ⓢ IID
 - Conforming to IECEx: EPL Db
 - Type of Protection: Ex tb IIIC
 - Surface Temperature : T60 °C (T140 °F) for $T_a \leq +40\text{ °C}$ (+104 °F), T90 °C (T194 °F) for $T_a \leq +60\text{ °C}$ (+140 °F) and T110 °C (T230 °F) for $T_a \leq +90\text{ °C}$ (+194 °F) for sizes 85 x 85, 120 x 120
 - Gas, Zone 0:
 - Conforming to ATEX 94/9/EC: Ⓢ II 1G
 - Conforming to IECEx : EPL Ga
 - Type of Protection: Ex ia IIC
 - T Rating: T6 for $T_a \leq +40\text{ °C}$ (+104 °F) and T5 for $T_a \leq +60\text{ °C}$ (+140 °F) and T3 for $T_a \leq +90\text{ °C}$ (+194 °F) for sizes 85 x 85, 120 x 120
 - Dusts, Zones 20:
 - Conforming to ATEX: Ⓢ II 1D
 - Conforming to IECEx: EPL Da
 - Type of Protection: Ex ia IIIC
 - Surface Temperature : T60 °C (T140 °F) for $T_a \leq +40\text{ °C}$ (+104 °F), T90 °C (T194 °F) for $T_a \leq +60\text{ °C}$ (+140 °F) and T110 °C (T230 °F) for $T_a \leq +90\text{ °C}$ (+194 °F) for sizes 85 x 85, 120 x 120
- ATEX Certificate: LCIE 12 ATEX 3037X
- EC Declaration of Conformity : 50291
- IECEX Certificate: IECEx LCIE 13.0003X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance: IK10

EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00911

Other Certification

- INMETRO Certificate: BVC 13.3238 - X Ⓢ

Ⓢ INMETRO certification available on special request only. Contact your local sales representative for more information.

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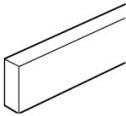
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Solid Copper Bar — Available in 1 Meter Length Pieces

Enclosure Catalog Number	Horizontal Bar Length – mm	Vertical Bar Length – mm	Catalog Number
For 10 x 3 mm length is 1 meter			CB1M
JBEP1717090	128	90	
JBEP2021100	195	97	
JBEP2021150	195	97	
JBEP2532150	300	230	
JBEP3225150	230	300	
JBEP3250150	480	305	
JBEP3250230	480	305	
JBEP3275150	730	300	
JBEP3275230	730	300	
JBEP5032150	305	480	
JBEP5032230	305	480	
JBEP7532150	300	730	
JBEP7532230	300	730	



Cable Clamp for Copper Bar — Pack of 10 — 10 x 3 mm (0.394" x 0.118")

Flexible	Solid	Catalog Number
0.5 to 4 mm ² (20AWG-10AWG)	6 mm ² (10AWG)	CC6MM
2.5 to 16 mm ² (14AWG-4AWG)	16 mm ² (4AWG)	CC16MM
16 to 35 mm ² (6AWG-1AWG)	50 mm ² (1/0)	CC50MM



Spacer for Copper Bar — Supplied with Mounting Inserts

Description	Height – mm (in)	Catalog Number
Insulated	50 (1.97)	JBEP CBI
Non-Insulated	50 (1.97)	JBEP CBNI



Mounting Pan — Solid Galvanized Steel — Supplied with Screws

Enclosure Catalog Number	Dimensions – mm (in) Height x Width x Thickness	Catalog Number
JBEP0808060	46 x 75 x 1 (1.8 x 2.95 x 0.04)	JBEP0407
JBEP121209S0	100 x 80 x 1 (3.9 x 3.2 x 0.04)	JBEP1008
JBEP1717090	152 x 150 x 1 (5.98 x 5.9 x 0.04)	JBEP1515
JBEP2021100, JBEP2021150	185 x 170 x 1.5 (7.28 x 6.69 x 0.06)	JBEP1518
JBEP3225150, JBEP2532150	260 x 230 x 2 (10.2 x 9.1 x 0.08)	JBEP2623
JBEP3250150, JBEP3250230, JBEP5032150, JBEP5032230	480 x 260 x 2 (18.9 x 10.2 x 0.08)	JBEP4826
JBEP3275150, JBEP3275230, JBEP7532150, JBEP7532230	730 x 260 x 2 (28.7 x 10.2 x 0.08)	JBEP7326

