

A.T.X.[®] JBEP Series Pre-Drilled Fiberglass Reinforced Polyester Junction Boxes

Increased Safety

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

Applications

- 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

- Operating temperature -67 °F/-55 °C to 140 °F/60 °C (CSPe type) and -40 °F/-40 °C to 131 °F/55 °C (CAe type).
- For use only with Ex certified terminal blocks.
- Factory drilled and equipped.

Standard Materials

- Enclosure: static resistant carbon filled fiberglass reinforced polyester (FRP)
- Hardware: stainless steel
- Label: yellow laminated plastic with black lettering

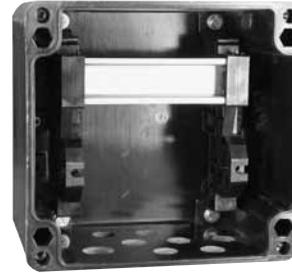
Options

- For use with other equipment than Ex terminal blocks, see ECEP Series.

Certifications and Compliances

- Certification Type CSPe
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 G
 - ATEX/IEC Protection: Ex e II, Ex eia IIC, Ex eib IIC
 - T Rating: T6
 - Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 D
 - ATEX/IEC Protection: Ex tD A21
 - Surface Temperature: T167 °F/T75 °C
 - Ambient Temperature: -67 °F/-55 °C to 140 °F/60 °C
 - CE Declaration of Conformity: 50284
 - ATEX Certificate: LCIE 09 ATEX 3032X
 - IECEx Certificate: IECEx LCI 09.0016X
- Certification Type CAe
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 G
 - ATEX/IEC Protection: Ex e II, Ex eia IIC, Ex eib IIC
 - T Rating: T6 for Ta ≤ 104 °F / 40 °C, T5 for 104 °F / 40 °C ≤ Ta 131 °F / 55 °C
 - Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 D
 - ATEX/IEC Protection: Ex tD A21
 - Surface Temperature: T176 °F to T203 °F / T80 °C to T95 °C
 - Ambient Temperature: -40 °F/-40 °C to 131 °F/55 °C
 - CE Declaration of Conformity: 50235
 - ATEX Certificate: LCIE 02 ATEX 6248X
 - IECEx Certificate: IECEx LCI 04.0016

Pre-Drilled Junction Box without Terminals



Pre-Drilled Junction Box Equipped with Terminals



- Other Certifications: GOST
- Ingress Protection (solid and liquid): IP66
- Impact Resistance (shock): IK10
- Ex Standards: EN/IEC 60079-0; 60079-7; 60079-11; 61241-0; 61241-1; 61241-11
- Other Standards: EN/IEC 60529 (IP), 62262 (IK)

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Catalog Numbering Guide

JBEP
 |
 Series
 ATEX/IEC Certified:
 JB - Junction Box
 E - Increased Safety
 I - Intrinsic Safety
 P - Polyester

12
 |
 Length Dimensions in/mm:
 12 - 4.72/120.0
 17 - 6.69/170.0
 21 - 8.27/210.0
 23 - 9.06/230.0
 32 - 12.60/320.0
 42 - 16.73/425.0
 57 - 22.64/575.0

12
 |
 Width Dimensions in/mm:
 12 - 4.72/120.0
 20 - 7.87/200.0

09
 |
 Depth Dimensions in/mm:
 09 - 3.58/91.0
 15 - 5.91/150.0

D1
 |
 Options:
 D1 - 5 x M20
 D2 - 4 x M20 + 1 x M25
 D3 - 7 x M20 + 1 x M25
 D5 - 7 x M20 + 1 x M25
 D6 - 12 x M20 + 1 x M32
 D7 - 19 x M20 + 1 x M32
 D8 - 27 x M20 + 1 x M40
 P__ - Unarmored Cable
 A__ - Armored Cable
 L__ - Lead Sheath Armored Cable
 E - Earth Continuity Brass Plate
 # - Customized Enclosure (6 Digit number will be assigned at time of order placement.)

Enclosures and Junction Boxes

ENCLOSURES AND JUNCTION BOXES: HAZARDOUS LOCATION OUTLET BOXES – CABLE

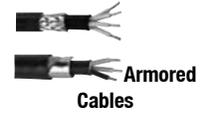
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Factory Drilled and Equipped with Terminals Ex e II Polyester Junction Boxes for Instrumentation Applications with Armored Cables

Fitted with: horizontal beige terminal block. Copper bar with cable clamps or continuity shields. Yellow laminated plastic label with black lettering. Earth continuity brass plate. M8 external earth crossing terminal. M20 to M32 threaded entries. M40 to M50 clearance holes. Cable glands and plugs ordered separately.



Type	For Cable U1000 RVFV	Terminal Block 0.0008/0.004 in ² 0.5/2.5 mm ² Qty.	Earth Terminal 0.0008/0.004 in ² 0.5/2.5 mm ² Qty.	Copper Bar 0.39 x 0.12" 10 x 3 mm Qty.	Cable Clamp 0.0008/0.004 in ² 0.5/2.5 mm ² Qty.	Multi-cable Cable Entry Qty. 1	Single Cable Entries M20 Qty.	Catalog Number
CAe1	07G1.5	7	1	1	5	M20	3	JBEP212015A01E
CAe1	12G1.5	12	1	1	8	M20	6	JBEP212015A02E
CAe2	19G1.5	19	1	1	11	M25	9	JBEP322015A03E
CAe2	24G1.5	24	1	1	14	M25	12	JBEP322015A04E
CAe2	27G1.5	27	1	1	15	M25	13	JBEP322015A05E
CAe3	37G1.5	37	1	1	20	M32	18	JBEP422015A06E
CAe1	07G2.5	7	1	1	5	M20	3	JBEP212015A07E
CAe1	12G2.5	12	1	1	8	M25	6	JBEP212015A08E
CAe2	19G2.5	19	1	1	11	M25	9	JBEP322015A09E
CAe2	24G2.5	24	1	1	14	M32	12	JBEP322015A10E
CAe2	27G2.5	27	1	1	15	M32	13	JBEP322015A11E
CAe3	37G2.5	37	1	1	20	M32	18	JBEP422015A12E

Type	For Cable EGFA	Terminal Block 0.0008/0.004 in ² 0.5/2.5 mm ² Qty.	Continuity Shield Qty.	Multi-cable Cable Entry Qty. 1	Single Cable Entries M20 Qty.	Catalog Number
CAe1	07IP05	14	7	M20	7	JBEP212015A21E
CAe1	07IT05	21	7	M20	7	JBEP212015A22E
CAe2	12IP05	24	12	M25	12	JBEP322015A23E
CAe2	12IT05	36	12	M25	12	JBEP322015A24E
CAe3	19IP05	38	19	M25	19	JBEP422015A25E
CAe4	27IP05	54	27	M32	27	JBEP572015A26E
CAe1	07IP09	14	7	M25	7	JBEP212015A27E
CAe1	07IT09	21	7	M25	7	JBEP212015A28E
CAe2	12IP09	24	12	M25	12	JBEP322015A29E
CAe2	12IT09	36	12	M32	12	JBEP322015A30E
CAe3	19IP09	38	19	M32	19	JBEP422015A31E
CAe4	27IP09	54	27	M40	27	JBEP572015A32E

Type	For Cable EIFA	Terminal Block 0.0008/0.004 in ² 0.5/2.5 mm ² Qty.	Continuity Shield Qty.	Multi-cable Cable Entry Qty. 1	Single Cable Entries M20 Qty.	Catalog Number
CAe1	07IP05	15	8	M25	7	JBEP212015A41E
CAe1	07IT05	22	8	M25	7	JBEP212015A42E
CAe2	12IP05	25	13	M32	12	JBEP322015A43E
CAe2	12IT05	37	13	M32	12	JBEP322015A44E
CAe3	19IP05	39	20	M32	19	JBEP422015A45E
CAe4	27IP05	55	28	M40	27	JBEP572015A46E
CAe1	07IP09	15	8	M32	7	JBEP212015A47E
CAe1	07IT09	22	8	M32	7	JBEP212015A48E
CAe2	12IP09	25	13	M40	12	JBEP322015A49E
CAe2	12IT09	37	13	M40	12	JBEP322015A50E
CAe3	19IP09	39	20	M40	19	JBEP422015A51E
CAe4	27IP09	55	28	M50	27	JBEP572015A52E

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