IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BAS 15.0130X**

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Certificate history:
Issue 1 (2019-02-13)
Issue 0 (2015-12-16)

Status: **Current**

Issue No: 2

Date of Issue: 2021-02-16

Applicant: **ABB Cable Management Products Ltd**
Station Road
Coleshill
Birmingham
B46 1HT
United Kingdom

Equipment: **Ex eb Liquid tight Metallic Conduit System**

Optional accessory:

Type of Protection: **Increased safety, protection by enclosure**

Marking: **Ex eb IIC Gb**
Ex tb III C Db

EX*HC -35°C to +105°C
EX*T -20°C to +70°C
EX*B -20°C to +70°C
EX*UB -20°C to +70°C

Approved for issue on behalf of the IECEx Certification Body: **R S Sinclair**

Position: **Technical Manager**

Signature: (for printed version)

M POWNEY
Certification Manager

Date: 16.2.2021

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

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Certificate No.: **IECEx BAS 15.0130X**

Date of issue: 2021-02-16 Issue No: 2

Manufacturer: **ABB Cable Management Products Ltd**
Station Road
Coleshill
Birmingham
B46 1HT
United Kingdom

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/BAS/ExTR15.0283/00 GB/BAS/ExTR20.0015/00

Quality Assessment Report:

GB/BAS/QAR06.0024/09

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The liquid tight Metallic Conduit System consists of the EX*HC, EX*LHC, EX*T, EX*B, EX*LB and EX*UB conduit types together with the EXQ*, EXR*, EXS*EXC, EXQ*B, EXR*B, EXS*B and EXC*B fittings.

The operating temperature range of the equipment is dependent on the conduit type used as follows:

EX*HC -35°C to +105°C
EX*LHC -35°C to +105°C
EX*B -20°C to +70°C
EX*LB -20°C to +70°C
EX*T -20°C to +70°C
EX*UB -20°C to +70°C

The suffix for each conduit type can be denoted by the following:

L = Galvanised steel core
L**B = Over braided with galvanised steel core
S = Stainless steel core
S**B = Over braided with stainless steel core

The fittings are denoted as follows:

EXQ* = Straight fitting
EXR* = 45o fitting
EXS* = 90o elbow
EXC* = Conduit joiner/coupler

A ‘B’ after the suffix denotes the fittings suitable for use with braiding.

The suffix for each fitting type can be denoted by the following:-

M = Metric nickel plated brass
MS = Metric stainless steel
A = NPT nickel plated brass
AS = NPT stainless steel

The conduit is available in three different polymer coatings that surround either a galvanised mild steel or stainless-steel inner core.

The conduit fitting may be manufactured in either brass or stainless steel which may be coated or plated to suit the application. The combined sealing and clamping ring is manufactured from brass. The fitting comprises a back nut that is placed over the conduit followed by the brass sealing ring, a ferrule insert is placed into the end of the conduit and the capnut is now threaded to the backnut and torqued to the correct specification.

The conduit is also supplied with an external layer of stainless-steel braid with modified fittings to provide an external clamping mechanism to clamp the stainless braid.

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. The apparatus has been subject to the impact tests corresponding to ‘low risk of mechanical damage’ and is therefore restricted to use in areas where the risk of mechanical damage is designated as low.

2. The IP rating of the conduit fittings can be maintained by the use of the supplied ‘O’ ring when the conduit fittings are fitted to a representative threaded enclosure having a smooth flat mounting surface.

3. Where the conduit fittings are used in to a ‘plain hole’ the plain entry diameter shall not be more than 0.7mm greater than the nominal diameter of the entry thread or gland fitting. It is the users responsibility to ensure the appropriate ingress protection level is maintained at these interfaces.

4. The IP rating of the conduit fittings can be maintained without the use of the ‘O’ ring provided the corresponding thread form has a tolerance class of 6H or better according to ISO 965-1 with no less than five threads. For the NPT variants the tapered threads shall be no less than 3 ½ threads.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 2.1

To allow for blue version of EX*LHC and EX*LB

Variation 2.2

To confirm that the equipment covered by this certification has been reviewed against the requirements of IEC 60079-0: 2017, IEC 60079-7: 2015+AMD1: 2017 and IEC 60079-31: 2013.

ExTR: **GB/BAS/ExTR20.0015/00**	File Reference: **20/0053**