1 # SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: **Baseefa15ATEX0175X/2**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Ex eb Liquid tight Metallic Conduit System**
(For types covered see Prime Certificate Description)

5 Manufacturer: **ABB Cable Management Products Ltd.**

6 Address: **Station Road, Coleshill, Birmingham, B46 1HT**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa15ATEX0175X** to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

9 Item 9 of the original Certificate is replaced by "Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN IEC 60079-7:2015 + A1:2018** **EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule."

12 The marking of the equipment has changed from the original Certificate and shall include the following:

Ⓔx **II 2 GD** **Ex eb IIC Gb**
Ex tb IIIC Db (see prime description for operating temperatures)

SGS Fimko Oy Customer Reference No. **0628** Project File No. **20/0053**

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M POWNEY
Certification
Manager

R S SINCLAIR
Authorised Signatory for SGS Fimko Oy

13 # Schedule

14 ## Certificate Number Baseefa15ATEX0175X/2

15 Description of the variation to the Product

Variation 2.1

To include Blue versions of EX*HC and EX*B

The addition of blue versions of EX*HC and EX*B are purely aesthetic and have no effect on the previous assessments. The blue versions are EX*LHC and EX*LB have an operating temperature of:

EX*LHC (-35ºC to +105ºC)

EX*LB (-20ºC to +70ºC)

Variation 2.2

To confirm that the equipment covered by this certification has been reviewed against the requirements of EN IEC 60079-0: 2018, EN IEC 60079-7:2015 +AMD1: 2018 and EN 60079-31: 2014.

16 Report Number

SGS Baseefa Certification Report GB/BAS/ExTR20.0015/00.

17 Specific Conditions of Use

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is affected as follows.

Clause	Subject	Compliance
1.4.1	External affects	Pass
1.4.2	Aggressive substances	Pass

19 Drawings and Documents

Number	Issue	Date	Description
A0010-A	1	5/1/21	EXQ*, Straight Fittings
A0010-B	1	5/1/21	EXR* 45° LT Fittings
A0010-C	1	5/1/21	EXS* 90° LT Fittings
A0010-D	1	5/1/21	EXC* Straight Coupler
A0010-E	1	5/1/21	EXQ*B Straight Fittings
A0010-F	1	5/1/21	EXR*B 45° LT Fittings
A0010-G	1	5/1/21	EXS*B 90° LT Fittings
A0010-H	1	5/1/21	EXCB* Straight Coupler
A0010-J	1	5/1/21	HA-G1 – EXQM – Variation 1
A0010-K	1	5/1/21	Explanation of Sealing
A0010-L	1	5/1/21	Explanation of Sealing
A0010-M	1	5/1/21	Ex eb System Marking Detail
A0011-A	1	5/1/21	Ex*HC, EX*HCB Conduits
A0011-B	1	5/1/21	Ex*T, EX*TB Conduit
A0011-C	1	5/1/21	EX*B, EX*BB Conduit

Number	Issue	Date	Description
A0011-D	1	5/1/21	EX*UB Conduit

The drawings are common to, and held on, IECEx BAS 15.0130X

1 SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Supplementary EU - Type Examination Certificate Number: **Baseefa15ATEX0175X/1**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

4 Product: **Ex eb Liquid tight Metallic Conduit System**

5 Manufacturer: **ABB Cable Management Products Ltd**

6 Address: **Station Road, Coleshill, Birmingham, B46 1HT**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa15ATEX0175X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

SGS Baseefa Customer Reference No. **0628** Project File No. **19/0120**

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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

M POWNEY
Certification
Manager

13 **Schedule**

14 **Certificate Number Baseefa15ATEX0175X/1**

15 Description of the variation to the Product

Variation 1.1

This document permits existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders name. No other changes may be made to the certified design

16 Report Number

None

17 Specific Conditions of Use

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

None

1 # EC - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa15ATEX0175X**

4 Equipment or Protective System: **Ex eb Liquid tight Metallic Conduit System**

5 Manufacturer: **Cable Management Products Ltd**

6 Address: **Station Road, Coleshill, Birmingham, B46 1HT**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR15.0283/00.**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11 2013 **EN 60079-7:2015** **EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

Ⓔx II 2 GD Ex eb IIC Gb

Ex tb IIIC Db (see description for operating temperatures)

Baseefa Customer Reference No. **0628** Project File No. **14/0066**

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pp mPowney mPowney
R S SINCLAIR
GENERAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa15ATEX0175X**

15 **Description of Equipment or Protective System**

The Liquid tight Metallic Conduit System consists of the EX*HC, EX*T, EX*B 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*T -20°C to +70°C
EX*B -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* = 45° fitting
EXS* = 90° 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 Nickle 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 place in to 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.

Variation 0.1.

The conduit is also suitable to be used with the EX de certified HA Gland IECEx SIR09.0103X

16 Report Number

SGS Baseefa Certification Report GB/BAS/ExTR15.0283/00.

17 Specific Conditions of Use

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.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Drawing No.	Sheet	Issue	Date	Description
A0010-A	-	0	21/10/15	EXQ* Straight Fittings
A0010-B	-	0	21/10/15	EXR* 45° LT Fittings
A0010-C	-	0	21/10/15	EXS* 90° LT Fittings
A0010-D	-	0	21/10/15	EXC* Straight Coupler
A0010-E	-	0	21/10/15	EXQ*B Straight Fittings
A0010-F	-	0	21/10/15	EXR*B 45° LT Fittings
A0010-G	-	0	21/10/15	EXS*B 90° LT Fittings
A0010-H	-	0	21/10/15	EXC*B Straight Coupler
A0010-J	-	0	21/10/15	HA-G1-EXQM-Variation 1
A0010-K	-	0	21/10/15	Explanation of Sealing
A0010-L	-	0	21/10/15	Explanation of Sealing
A0010-M	-	0	21/10/15	Ex eb System Marking Detail
A0011-A	-	0	21/10/15	EX*HC, EX*HCB Conduits
A0011-B	-	0	21/10/15	EX*T, EX*TB Conduits
A0011-C	-	0	21/10/15	EX*B, EX*BB Conduits
A0011-D	-	0	21/10/15	EX*UB Conduit

The drawings above are common to both Baseefa15ATEX0175X and IECEx BAS 15.0283X, and are held with the latter.