



[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System intended for use in potentially explosive atmospheres - Directive 2014/34/EU – Annex III – MODULE B: EU-TYPE EXAMINATION

- [3] EU-type Examination Certificate number: **IMQ 13 ATEX 016X**
- [4] PRODUCT: **Polyamide cable glands for circular/non circular cables and plugs**
TYPE/SERIES: **EXCG..; EXCG..D; EXSP...EXHCG..; EXHCG..D; Exhcg..; Exhcg..D; Exhcg..(axb); EXHSP...; EXCGT.**
- [5] MANUFACTURER: **ABB Cable Management Products LTD**
- [6] ADDRESS: **Station Road - Coleshill
Birmingham - B46 1HT – United Kingdom**
- [7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.
- [8] IMQ, notified body N° 0051, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product 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 Report No.: **AT22-0075713-01_C1**
- [9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, has been assured by compliance with:
EN IEC 60079-0:2018; EN 60079-7:2015; EN IEC 60079-7:2015/A1:2018; EN 60079-31:2014
- [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 EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the equipment or protective system shall include the following:



II 2 GD

**Ex eb IIC Gb
Ex tb IIIC Db**

THIS CERTIFICATE CANCELS AND REPLACES THE PREVIOUS ONE. IT INCLUDES 1 ANNEX.

FIRST ISSUE	2013/08/05
CURRENT ISSUE	2023/01/13
PREVIOUS ISSUE	2015/12/14
EXPIRING DATE	2031/12/14

B.U. PRODUCT CONFORMITY ASSESSMENT
CERTIFICATION SECTOR - MANAGER

This Certificate may only be reproduced in its entirety and without any change. It is subject to the general rules for assessing conformity to community directives for which IMQ operates as notified body n°. 0051 and to the special requirements for Directive 2014/34/EU (ATEX) "Equipment and protective systems for potentially explosive atmospheres" annex III - MODULE B – EU Type-examination.



PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 13 ATEX 016X**

[15] **Description of product:**

The polyamide cable gland series EXCG.., EXCG..D, Exhcg.., Exhcg..D , EXHCG.., EXHCG..D, are used to introduce permanently circular cables into enclosure.

The polyamide cable glands series Exhcg..(axb) are used to introduce permanently non-circular (flat) cables into enclosure.

Plugs series EXSP... and EXHSP... are used to close unused cable entry of an enclosure.

Cable glands and plugs are suitable for electrical equipment either with type of protection Ex-eb or type of protection Ex-tb. Cable glands should be also used for intrinsically safe circuits Ex-i.

Cable glands EXCG..D and Exhcg..D are provided with single (S1) or double (S1+S2) sealing rings. Cable glands EXCG.. and Exhcg.., are provided with single (S1) sealing rings only. Cable glands series Exhcg..(axb) are provided with sealing ring specific for non-circular (flat cables), sealing ring hole dimensions are specified in brackets.

Cable glands EXCG.., EXCG..D, Exhcg.., Exhcg..D, EXHCG.., EXHCG..D can be supplied with tap, polyamide made, as accessory (EXCGT.), suitable to guarantee IP degree when installed according to manufacturer's instructions.

Additionally, dust plugs are used for Ex polyamide cable glands to protect the glands from dust during the shipment. It is taken out during installation.

Details on sealing rings material, flat washer (placed between the body and the cover of enclosures) materials and limitations are listed in Table 1.

The cable glands and plugs can be factory made with the following threads:

- Metric ISO pitch 1,5 (ISO 965/1, ISO 965/2, ISO 965/3)
- NPT ANSI ASME B1.20.1

Trade mark: KPX-EX.

[13] **Annex**

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Table 1: materials and service temperatures					
Series	Service temperature ¹	Sealing rings material	Flat washer materials	OR materials	Mechanical risk
EXCG	-40 ÷ +80 °C ²	chloroprene (neoprene) silicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	Low (4J)
EXCG..D	-40 ÷ +80 °C ²	chloroprene (neoprene) silicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	Low (4J)
EXSP	-40 ÷ +80 °C	-	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	-	Low (4J)
EXHCG	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
	-40 ÷ +70 °C	chloroprene (neoprene)			
	-60 ÷ +70 °C	silicone			
Exhcg	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
	-40 ÷ +70 °C	chloroprene (neoprene)			
	-60 ÷ +70 °C	silicone			
Exhcg..(axb)	-60 ÷ +70 °C	silicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
EXHCG..D	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
	-40 ÷ +70 °C	chloroprene (neoprene)			
	-60 ÷ +70 °C ²	silicone			
Exhcg..D	-30 ÷ +70 °C	NBR	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
	-40 ÷ +70 °C	chloroprene (neoprene)			
	-60 ÷ +70 °C	silicone			
EXHSP	-30 ÷ +70 °C	-	NBR	-	High (7J)
	-40 ÷ +70 °C		chloroprene (neoprene) EPDM rubber		
	-60 ÷ +70 °C		silicone		
	-60 ÷ +70 °C		KLINGERSIL® C-4400		

The cable glands, fitted with insert cap or not, and plugs are suitable for gas and dust atmosphere (II2GD). The temperature range is detailed in Table 1 above.

All cable glands must be supplied with flat washer/O-ring for IP protection.
All plugs must be supplied with flat washer for IP protection.
Materials are detailed in Table 1 above.

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[15.1] **Models/Series Identification:**

Sizes of models, recommended torque and (for cable glands) range of diameter for suitable cables are shown in following tables.

S1 means single sealing ring mounted inside cable gland.

S1+S2 means double sealing rings mounted inside cable gland.

Torque table for EXCG.. and EXCG..D

M THREADED ISO 965/1 and ISO 965/3			NPT THREADED ANSI ASME B1.20.1			Single Seal Clamping Range	Torque (Nm)	Mechanical Risk
Codes	Outer threads/ Inner threads	TL min.	Codes	Outer threads/ Inner threads	TL min.			
EXCGM20XS	M20/PG11	10.0	EXCG050XS	NPT1/2/PG11	15.0	5.0-10.0	2.5±0.5	Low (4 J)
EXCGM20S	M20/PG13	10.0	EXCG050S	NPT1/2/PG13	15.0	6.0-12.0	5.0±0.5	
EXCGM20SL	M20/PG13	15.0	-	-	-	6.0-12.0	5.0±0.5	
EXCGM20M	M20/PG16	10.0	EXCG050M	NPT1/2/PG16	15.0	10.0-14.0	5.5±0.5	
EXCGM20ML	M20/PG16	15.0	-	-	-	10.0-14.0	5.5±0.5	
EXCGM25XS	M25/PG16	10.0	-	-	-	10.0-14.0	5.5±0.5	
EXCGM25XSL	M25/PG16	15.0	-	-	-	10.0-14.0	5.5±0.5	
EXCGM25S	M25/PG21	10.0	EXCG075S	NPT3/4/PG21	15.0	13.0-18.0	8.0±1.0	
EXCGM25SL	M25/PG21	15.0	-	-	-	13.0-18.0	8.0±1.0	
EXCGM25M	M25 (EU)	10.0	-	-	-	11.0-17.0	5.0±1.0	
EXCGM32S	M32 (EU)	10.0	-	-	-	15.0-21.0	6.0±1.0	
EXCGM32XSL	M32/PG21	10.0	-	-	-	13.0-18.0	8.0±1.0	
EXCGM32SL	M32/PG29	15.0	EXCG100S	NPT1/PG29	18.0	18.0-25.0	9.0±1.0	
EXCGM40S	M40 (EU)	10.0	-	-	-	19.0-28.0	5.0±1.0	
EXCGM40L	M40 (EU)	15.0	-	-	-	19.0-28.0	5.0±1.0	
EXCGM40M	M40/PG36	18.0	EXCG125S	NPT1 1/4/PG36	18.0	22.0-32.0	17.5±1.5	
EXCGM50S	M50/PG42	18.0	EXCG150S	NPT1 1/2/PG42	18.0	30.0-38.0	22.0±2.0	
EXCGM63S	M63/PG48	18.0	EXCG200S	NPT2/PG48	18.0	34.0-44.0	23.0±2.5	

Torque table for EXSP...

M THREADED						Mechanical Risk
Codes	Size	P	TL min.	Torque (Nm)		
EXSPM12M	M12	1.5	10.0	1.5±0.2	Low 4J	
EXSPM16M	M16	1.5	11.0	1.5±0.5		
EXSPM16L	M16	1.5	12.0	1.5±0.5		
EXSPM16XL	M16	1.5	15.0	1.5±0.5		
EXSPM20M	M20	1.5	11.0	2.0±0.5		
EXSPM20L	M20	1.5	12.0	2.0±0.5		
EXSPM20XL	M20	1.5	15.0	2.0±0.5		
EXSPM25M	M25	1.5	10.0	2.5±0.5		
EXSPM25XL	M25	1.5	15.0	2.5±0.5		
EXSPM32M	M32	1.5	15.0	4.0±1.0		
EXSPM40M	M40	1.5	18.0	6.0±1.0		
EXSPM50M	M50	1.5	18.0	8.0±1.5		
EXSPM63M	M63	1.5	18.0	10.0±1.5		
NPT THREADED						Mechanical Risk
Codes	Size	P	TL min.	Torque (Nm)		
EXSPA02M	NPT 1/4"	1,411	10.0	1.5±0.2	Low 4J	
EXSPA03XL	NPT 3/8"	1,411	15.0	1.5±0.2		
EXSPA04XL	NPT 1/2"	1,814	15.0	2.0±0.5		
EXSPA05XL	NPT 3/4"	1,814	15.0	2.5±0.5		
EXSPA06M	NPT 1"	2,209	15.0	4.0±1.0		
EXSPA07M	NPT 1 1/4"	2,209	18.0	6.0±1.0		
EXSPA08M	NPT 1 1/2"	2,209	18.0	8.0±1.5		
EXSPA09M	NPT 2"	2,209	18.0	10.0±1.5		

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Torque table for Exhcg..

M THREADED ISO 965/1 and ISO 965/3			NPT THREADED ANSI ASME B1.20.1			Single Seal Clamping Range S1	Torque (Nm)	Mechanical Risk
Codes	Outer threads/ Inner threads	TL min.	Codes	Outer threads/ Inner threads	TL min.			
ExhcgM12S	M12/PG7	10.0	-	-	-	4.0-6.5	2.0±0.5	High (7J)
ExhcgM12L	M12/PG7	15.0	-	-	-	4.0-6.5	2.0±0.5	
ExhcgM16LS	M16/PG9	10.0	-	-	-	5.0-8.0	4.0±0.5	
ExhcgM16LL	M16/PG9	15.0	-	-	-	5.0-8.0	4.0±0.5	
ExhcgM16MS	M16/PG11	10.0	ExhcgA03M	NPT3/8/PG11	15.0	6.0-10.0	4.0±0.5	
ExhcgM16ML	M16/PG11	15.0	-	-	-	6.0-10.0	4.0±0.5	
ExhcgM20LS	M20/PG13	10.0	ExhcgA04S	NPT1/2/PG11	15.0	6.0-10.0	2.5±0.5	
ExhcgM20S	M20/PG13	10.0	ExhcgA04M	NPT1/2/PG13	15.0	7.0-12.0	5.0±0.5	
ExhcgM20ML	M20/PG13	15.0	-	-	-	7.0-12.0	5.0±0.5	
ExhcgM20MS	M20 (EU)	10.0	-	-	-	7.0-13.0	4.5±0.5	
ExhcgM20M	M20/PG16	10.0	ExhcgA04L	NPT1/2/PG16	15.0	11.0-14.0	5.5±0.5	
ExhcgM20LL	M20/PG16	15.0	-	-	-	11.0-14.0	5.5±0.5	
ExhcgM25SS	M25/PG16	10.0	-	-	-	11.0-14.0	5.5±0.5	
ExhcgM25SL	M25/PG16	15.0	-	-	-	11.0-14.0	5.5±0.5	
ExhcgM25LS	M25/PG21	10.0	ExhcgA05M	NPT3/4/PG21	15.0	14.0-18.0	8.0±1.0	
ExhcgM25LL	M25/PG21	15.0	-	-	-	14.0-18.0	8.0±1.0	
ExhcgM25MS	M25 (EU)	10.0	-	-	-	12.0-17.0	5.0±1.0	
ExhcgM25ML	M25 (EU)	15.0	-	-	-	12.0-17.0	5.0±1.0	
ExhcgM32S	M32 (EU)	10.0	-	-	-	16.0-21.0	6.0±1.0	
ExhcgM32L	M32 (EU)	15.0	-	-	-	16.0-21.0	6.0±1.0	
ExhcgM32MS	M32/PG21	10.0	-	-	-	14.0-18.0	8.0±1.0	
ExhcgM32ML	M32/PG29	15.0	ExhcgA06M	NPT1/PG29	18.0	19.0-25.0	9.0±1.0	
ExhcgM40MS	M40 (EU)	10.0	-	-	-	20.0-28.0	5.0±1.0	
ExhcgM40L	M40 (EU)	15.0	-	-	-	20.0-28.0	5.0±1.0	
ExhcgM40ML	M40/PG36	18.0	ExhcgA07M	NPT1 1/4/PG36	18.0	23.0-32.0	17.5±1.5	
ExhcgM50S	M50/PG42	18.0	ExhcgA08M	NPT1 1/2/PG42	18.0	31.0-38.0	22±2.0	
ExhcgM63S	M63/PG48	18.0	ExhcgA09M	NPT2/PG48	18.0	35.0-44.0	24.0±2.5	

Torque table for Exhcg..D

M THREADED ISO 965/1 and ISO 965/3			NPT THREADED ANSI ASME B1.20.1			Double Seal Clamping Range S1+S2	Single Seal Clamping Range S1	Torque (Nm)		Mechanical Risk
Codes	Outer threads/ Inner threads	TL min.	Codes	Outer threads/ Inner threads	TL min.			S1+S2 Nm	S1 Nm	
ExhcgM12SD	M12/PG7	10.0	-	-	-	3.0-4.0	4.0-6.5	1.0±0.5	2.0±0.5	High (7J)
ExhcgM12LD	M12/PG7	15.0	-	-	-	3.0-4.0	4.0-6.5	1.0±0.5	2.0±0.5	
ExhcgM16LSD	M16/PG9	10.0	-	-	-	4.0-5.0	5.0-8.0	3.5±0.5	4.0±0.5	
ExhcgM16LLD	M16/PG9	15.0	-	-	-	4.0-5.0	5.0-8.0	3.5±0.5	4.0±0.5	
ExhcgM16MSD	M16/PG11	10.0	ExhcgA03MD	NPT3/8/PG11	15.0	4.0-6.0	6.0-10.0	3.5±0.5	4.0±0.5	
ExhcgM16MLD	M16/PG11	15.0	-	-	-	4.0-6.0	6.0-10.0	3.5±0.5	4.0±0.5	
ExhcgM20LSD	M20/PG13	10.0	ExhcgA04SD	NPT1/2/PG11	15.0	4.0-6.0	6.0-10.0	3.2±0.5	2.5±0.5	
ExhcgM20SD	M20/PG13	10.0	ExhcgA04MD	NPT1/2/PG13	15.0	6.0-7.5	7.5-12.0	5.0±0.5	5.0±0.5	
ExhcgM20MLD	M20/PG13	15.0	-	-	-	6.0-7.5	7.5-12.0	5.0±0.5	5.0±0.5	
ExhcgM20MSD	M20 (EU)	10.0	-	-	-	4.0-7.0	7.0-13.0	3.5±0.5	4.5±0.5	
ExhcgM20MD	M20/PG16	10.0	ExhcgA04LD	NPT1/2/PG16	15.0	8.0-11.0	11.0-14.0	5.5±0.5	5.5±0.5	
ExhcgM20LLD	M20/PG16	15.0	-	-	-	8.0-11.0	11.0-14.0	5.5±0.5	5.5±0.5	
ExhcgM25SSD	M25/PG16	10.0	-	-	-	8.0-11.0	11.0-14.0	5.5±0.5	5.5±0.5	
ExhcgM25SLD	M25/PG16	15.0	-	-	-	8.0-11.0	11.0-14.0	5.5±0.5	5.5±0.5	
ExhcgM25LSD	M25/PG21	10.0	ExhcgA05MD	NPT3/4/PG21	15.0	10.0-13.0	13.0-18.0	5.0±1.0	8.0±1.0	
ExhcgM25LLD	M25/PG21	15.0	-	-	-	10.0-13.0	13.0-18.0	5.0±1.0	8.0±1.0	
ExhcgM25MSD	M25 (EU)	10.0	-	-	-	9.0-13.0	13.0-17.0	5.5±1.0	5.0±1.0	
ExhcgM25MLD	M25 (EU)	15.0	-	-	-	9.0-13.0	13.0-17.0	5.5±1.0	5.0±1.0	
ExhcgM32SD	M32 (EU)	10.0	-	-	-	12.0-16.0	16.0-21.0	5.5±1.0	6.0±1.0	
ExhcgM32LD	M32 (EU)	15.0	-	-	-	12.0-16.0	16.0-21.0	4.5±1.0	6.0±1.0	
ExhcgM32MSD	M32/PG21	10.0	-	-	-	10.0-13.0	13.0-18.0	4.5±1.0	8.0±1.0	
ExhcgM32MLD	M32/PG29	15.0	ExhcgA06MD	NPT1/PG29	18.0	14.0-20.0	20.0-25.0	8.0±1.0	9.0±1.0	
ExhcgM40MSD	M40 (EU)	10.0	-	-	-	17.0-21.0	21.0-28.0	5.0±1.0	5.0±1.0	
ExhcgM40LD	M40 (EU)	15.0	-	-	-	17.0-21.0	21.0-28.0	5.0±1.0	5.0±1.0	
ExhcgM40MLD	M40/PG36	18.0	ExhcgA07MD	NPT1 1/4/PG36	18.0	21.0-25.0	25.0-32.0	15.0±1.5	17.5±1.5	
ExhcgM50SD	M50/PG42	18.0	ExhcgA08MD	NPT1 1/2/PG42	18.0	22.0-31.0	31.0-38.0	18.0±2.0	22.0±2.0	
ExhcgM63SD	M63/PG48	18.0	ExhcgA09MD	NPT2/PG48	18.0	28.0-35.0	35.0-44.0	22.0±2.5	24.0±2.5	

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Torque table for Exhcg..(axb)

Torque Table for Exhcg..(axb)						
Cable gland code	Sealing ring dimensions [mm x mm]	Cable min [mm x mm]	Cable max [mm x mm]	Torque value (cap) [Nm]	Recommended torque value (body) [Nm]	Mechanical risk
ExhcgM25SS	6,0x10,8	4,21x11,69	5,23 x 13,21	8	8	High (7J)
	5,0x12,8	5,03 x 12,50	6,05 x 14,02			
ExhcgM25SL	6,0x10,8	4,21x11,69	5,23 x 13,21			
	5,0x12,8	5,03 x 12,50	6,05 x 14,02			
	5,0x15,0	6,09 x 13,72	7,11 x 15,24			
ExhcgM25MS	6,0x10,8	4,21x11,69	5,23 x 13,21			
	5,0x12,8	5,03 x 12,50	6,05 x 14,02			
	5,0x15,0	6,09 x 13,72	7,11 x 15,24			
ExhcgM25ML	6,0x10,8	4,21x11,69	5,23 x 13,21			
	5,0x12,8	5,03 x 12,50	6,05 x 14,02			
ExhcgM25LS	6,0x10,8	4,21x11,69	5,23 x 13,21			
	5,0x12,8	5,03 x 12,50	6,05 x 14,02			
	5,0x15,0	6,09 x 13,72	7,11 x 15,24			
ExhcgM25LL	6,0x10,8	4,21x11,69	5,23 x 13,21			
	5,0x12,8	5,03 x 12,50	6,05 x 14,02			
	5,0x15,0	6,09 x 13,72	7,11 x 15,24			

Torque table for EXHCG..

M THREADED ISO 965/1 and ISO 965/3			NPT THREADED ANSI ASME B1.20.1			Single Seal Clamping Range S1	Torque (Nm)	Mechanical Risk
Codes	OUTER THREAD SIZE / INNER THREAD SIZE	TL min.	Codes	OUTER THREAD SIZE / INNER THREAD SIZE	TL min.			
EXHCGM12S	M12/PG7	10.0	-	-	-	4.0-6.5	2.0±0.5	High (7J)
EXHCGM12L	M12/PG7	15.0	-	-	-	4.0-6.5	2.0±0.5	
EXHCGM16MS	M16/PG9	10.0	-	-	-	5.0-8.0	4.0±0.5	
EXHCGM16ML	M16/PG9	15.0	-	-	-	5.0-8.0	4.0±0.5	
EXHCGM16LS	M16/PG11	10.0	EXHCGA03M	NPT3/8/PG11	15.0	6.0-10.0	4.0±0.5	
EXHCGM16LL	M16/PG11	15.0	-	-	-	6.0-10.0	4.0±0.5	
EXHCGM20S	M20/PG11	10.0	EXHCGA04S	NPT1/2/PG11	15.0	6.0-10.0	2.5±0.5	
EXHCGM20MS	M20/PG13	10.0	EXHCGA04M	NPT1/2/PG13	15.0	7.0-12.0	5.0±0.5	
EXHCGM20ML	M20/PG13	15.0	-	-	-	7.0-12.0	5.0±0.5	
EXHCGM20ML	M20 (EU)	10.0	-	-	-	7.0-13.0	4.5±0.5	
EXHCGM20XSL	M20/PG16	10.0	EXHCGA04L	NPT1/2/PG16	15.0	11.0-14.0	5.5±0.5	
EXHCGM20LS	M20/PG16	15.0	-	-	-	11.0-14.0	5.5±0.5	
EXHCGM25SS	M25/PG16	10.0	-	-	-	11.0-14.0	5.5±0.5	
EXHCGM25SL	M25/PG16	15.0	-	-	-	11.0-14.0	5.5±0.5	
EXHCGM25MS	M25/PG21	10.0	EXHCGA05M	NPT3/4/PG21	15.0	14.0-18.0	8.0±1.0	
EXHCGM25ML	M25/PG21	15.0	-	-	-	14.0-18.0	8.0±1.0	
EXHCGM25LS	M25 (EU)	10.0	-	-	-	12.0-17.0	5.0±1.0	
EXHCGM25LL	M25 (EU)	15.0	-	-	-	12.0-17.0	5.0±1.0	
EXHCGM32MS	M32 (EU)	10.0	-	-	-	16.0-21.0	6.0±1.0	
EXHCGM32ML	M32 (EU)	15.0	-	-	-	16.0-21.0	6.0±1.0	
EXHCGM32S	M32/PG21	10.0	-	-	-	14.0-18.0	8.0±1.0	
EXHCGM32L	M32/PG29	15.0	EXHCGA06M	NPT1/PG29	18.0	19.0-25.0	9.0±1.0	
EXHCGM40MS	M40 (EU)	10.0	-	-	-	20.0-28.0	5.0±1.0	
EXHCGM40ML	M40 (EU)	15.0	-	-	-	20.0-28.0	5.0±1.0	
EXHCGM40L	M40/PG36	18.0	EXHCGA07M	NPT1 1/4/PG36	18.0	23.0-32.0	17.5±1.5	
EXHCGM50S	M50/PG42	18.0	EXHCGA08M	NPT1 1/2/PG42	18.0	31.0-38.0	22.0±2.0	
EXHCGM63S	M63/PG48	18.0	EXHCGA09M	NPT2/PG48	18.0	35.0-44.0	24.0±2.5	

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 13 ATEX 016X**

Torque table for EXHCG..D

Metric threaded double seal cable gland			NPT threaded double seal cable gland			Double Seal Clamping Range S1+S2	Single Seal Clamping Range S1	Torque (Nm)	
Codes	OUTER THREAD SIZE / INNER THREAD SIZE	TL min.	Codes	OUTER THREAD SIZE / INNER THREAD SIZE	TL min.			S1+S2 Nm	S1 Nm
EXHCGM12SD	M12/PG7	10.0	-	-	-	3.0-4.0	4.0-6.5	1.0±0.5	2.0±0.5
EXHCGM12LD	M12/PG7	15.0	-	-	-	3.0-4.0	4.0-6.5	1.0±0.5	2.0±0.5
EXHCGM16MSD	M16/PG9	10.0	-	-	-	4.0-5.0	5.0-8.0	3.5±0.5	4.0±0.5
EXHCGM16MLD	M16/PG9	15.0	-	-	-	4.0-5.0	5.0-8.0	3.5±0.5	4.0±0.5
EXHCGM16LSD	M16/PG11	10.0	EXHCGA03MD	NPT3/8/PG11	15.0	4.0-6.0	6.0-10.0	3.5±0.5	4.0±0.5
EXHCGM16LLD	M16/PG11	15.0	-	-	-	4.0-6.0	6.0-10.0	3.5±0.5	4.0±0.5
EXHCGM20SD	M20/PG11	10.0	EXHCGA04SD	NPT1/2/PG11	15.0	4.0-6.0	6.0-10.0	3.2±0.5	2.5±0.5
EXHCGM20MSD	M20/PG13	10.0	EXHCGA04MD	NPT1/2/PG13	15.0	6.0-7.5	7.5-12.0	5.0±0.5	5.0±0.5
EXHCGM20MLD	M20/PG13	15.0	-	-	-	6.0-7.5	7.5-12.0	5.0±0.5	5.0±0.5
EXHCGM20XSLD	M20 (EU)	10.0	-	-	-	4.0-7.0	7.0-13.0	3.5±0.5	4.5±0.5
EXHCGM20LSD	M20/PG16	10.0	EXHCGA04LD	NPT1/2/PG16	15.0	8.0-11.0	11.0-14.0	5.5±0.5	5.5±0.5
EXHCGM20LLD	M20/PG16	15.0	-	-	-	8.0-11.0	11.0-14.0	5.5±0.5	5.5±0.5
EXHCGM25SSD	M25/PG16	10.0	-	-	-	8.0-11.0	11.0-14.0	5.5±0.5	5.5±0.5
EXHCGM25SLD	M25/PG16	15.0	-	-	-	8.0-11.0	11.0-14.0	5.5±0.5	5.5±0.5
EXHCGM25LSD	M25/PG21	10.0	EXHCGA05MD	NPT3/4/PG21	15.0	10.0-13.0	13.0-18.0	5.0±1.0	8.0±1.0
EXHCGM25LLD	M25/PG21	15.0	-	-	-	10.0-13.0	13.0-18.0	5.0±1.0	8.0±1.0
EXHCGM25MSD	M25 (EU)	10.0	-	-	-	9.0-13.0	13.0-17.0	5.5±1.0	5.0±1.0
EXHCGM25MLD	M25 (EU)	15.0	-	-	-	9.0-13.0	13.0-17.0	5.5±1.0	5.0±1.0
EXHCGM32MSD	M32 (EU)	10.0	-	-	-	12.0-16.0	16.0-21.0	5.5±1.0	6.0±1.0
EXHCGM32MLD	M32 (EU)	15.0	-	-	-	12.0-16.0	16.0-21.0	4.5±1.0	6.0±1.0
EXHCGM32SD	M32/PG21	10.0	-	-	-	10.0-13.0	13.0-18.0	4.5±1.0	8.0±1.0
EXHCGM32LD	M32/PG29	15.0	EXHCGA06MD	NPT1/PG29	18.0	14.0-20.0	20.0-25.0	8.0±1.0	9.0±1.0
EXHCGM40MSD	M40 (EU)	10.0	-	-	-	17.0-21.0	21.0-28.0	5.0±1.0	5.0±1.0
EXHCGM40MLD	M40 (EU)	15.0	-	-	-	17.0-21.0	21.0-28.0	5.0±1.0	5.0±1.0
EXHCGM40LD	M40/PG36	18.0	EXHCGA07MD	NPT1 1/4/PG36	18.0	21.0-25.0	25.0-32.0	15.0±1.5	17.5±1.5
EXHCGM50SD	M50/PG42	18.0	EXHCGA08MD	NPT1 1/2/PG42	18.0	22.0-31.0	31.0-38.0	18.0±2.0	22.0±2.0
EXHCGM63SD	M63/PG48	18.0	EXHCGA09MD	NPT2/PG48	18.0	28.0-35.0	35.0-44.0	22.0±2.5	24.0±2.5

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 13 ATEX 016X**

Torque table for EXHSP...

M THREADED						
Codes	Size	P	TL min.	Torque (Nm)	Mechanical Risk	
EXHSPM12M	M12	1.5	10.0	1.5±0.2	High (7J)	
EXHSPM16M	M16	1.5	11.0	1.5±0.5		
EXHSPM16L	M16	1.5	12.0	1.5±0.5		
EXHSPM16XL	M16	1.5	15.0	1.5±0.5		
EXHSPM20M	M20	1.5	11.0	2.0±0.5		
EXHSPM20L	M20	1.5	12.0	2.0±0.5		
EXHSPM20XL	M20	1.5	15.0	2.0±0.5		
-						
EXHSPM25M	M25	1.5	10.0	2.5±0.5		
EXHSPM25XL	M25	1.5	15.0	2.5±0.5		
EXHSPM32M	M32	1.5	15.0	4.0±1.0		
EXHSPM40M	M40	1.5	18.0	6.0±1.0		
EXHSPM50M	M50	1.5	18.0	8.0±1.5		
EXHSPM63M	M63	1.5	18.0	10.0±1.5		
NPT THREADED						
Codes	Size	P	TL min.	Torque (Nm)	Mechanical Risk	
EXHSPA02M	NPT 1/4"	1,411	10.0	1.5±0.2	High (7J)	
EXHSPA03XL	NPT 3/8"	1,411	15.0	1.5±0.2		
EXHSPA04XL	NPT 1/2"	1,814	15.0	2.0±0.5		
EXHSPA05XL	NPT 3/4"	1,814	15.0	2.5±0.5		
EXHSPA06M	NPT 1"	2,209	15.0	4.0±1.0		
EXHSPA07M	NPT 1 1/4"	2,209	18.0	6.0±1.0		
EXHSPA08M	NPT 1 1/2"	2,209	18.0	8.0±1.5		
EXHSPA09M	NPT 2"	2,209	18.0	10.0±1.5		

EXCGT table				
From size to size	Material	Mechanical risk	Sealing ring
M12/NPT1/4"	M63/NPT 2"	polyamide	High (7J) at T≥-40°C Low (4J) at T<-40°C	Single
M12/ NPT1/4"	M32/ NPT 1"		High (7J) at T≥-40°C	Double
M32/ NPT 1"	M63/ NPT 2"		High (7J) at T≥-40°C Low (4J) at T<-40°C	

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 13 ATEX 016X**

Key code

Identification of polyamide cable glands and plugs																																														
EXCG	1	2																																												
EXCG	1	2	D																																											
Exhcg	1	2																																												
Exhcg	1	2	D																																											
Exhcg	1	2	3																																											
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[13] **Annex**

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EXCGT 1	02 for M12	06S or 06 for M32
	03S or 03 for M16	07S or 07 for M40
	04S or 04 for M20	08 for M50
	04 or 05S or 05 for M25	09 for M63

[15.2] **Ratings:**

For minimum and maximum diameters of permitted cables and torque values see tables in the safety instruction.

[15.3] **Safety Ratings:**

None

[15.4] **Ambient temperature and temperature classes:**

See Table of materials and service temperatures in [15].

[15.5] **Degree of protection (IP code):** IP66/68 (IPX8: 30 min, 0,5 bar)

[15.6] **Warnings:**

For gas installations (only for cable glands with M50/NPT 1 1/2" threads and following) and dust installations:

Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.

[16] **Report:** AT22-0075713-01_C1

[16.1] **Routine (factory) tests:**

The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0.

[16.2] **Conformity with the documentation:**

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.

Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

[16.3] **Installation conditions:**

Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.

Installation and use in atmospheric and environmental conditions that are out of above-mentioned intervals request special considerations and additional measures by the side of installer or user.

These should be specified to the manufacturer by the user;

It is not a required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.

Installation of equipment has to proceed according to EN 60079-14.

The installation shall be done according to safety manufacturer instructions to maintain degree of protection.

[13] Annex

[14] EU-type Examination Certificate number: **IMQ 13 ATEX 016X**

[17] **Special Condition of use (X):**

- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
- The cable glands/plugs and the relevant cables, shall be used where a protection against risk of mechanical damage is provided, when they are suitable for low mechanical risk (4J) only for EXCG., EXCG..D and EXSP... .
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- For gas installations (only for cable glands with M50/NPT 1 1/2" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.
- When cable glands are installed with polyamide insert EXCGT. mechanical risk have to be taken into account, depending on cable gland and insert cap. When insert cap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only).
- Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to this manufacturer's instruction.

[18] **Essential Health and safety Requirements:**

This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].

This Certificate **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VIII of the Directive

ESHR 1.4 Not verified.

ESHR 1.5 Not verified.

ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:

N/A

[19] **Descriptive documents:**

DL-AT22-0075713-01_C1, rev.0 dated 2022-11-18.

[20] **Certification Validity Conditions:**

The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.

The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.

One copy of the mentioned documentation is kept in IMQ file.

[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 13 ATEX 016X**

[21] **Variations**

Issue 0, 2013 August

Issue 1, 2015 May

- Standard updating
- Adding new model EXCG.. derived from already tested cable glands types: differences have no effects on protection mode.
- Adding KLINGERSIL® C-4400 or EPDM rubber as material used for additional gasket between cable gland and enclosure.
- Cable glands EXCG.. ; EXCG.D. can be supplied with tap protection EXCGT., polyamide made, suitable to guarantee IP degree when installed according to manufacturer's instructions.
- New cable glands series EXHCG.. ; EXHCG..D ; EXHMCG..; EXHMCG..D
- New plugs series EXH-..

Issue 2, 2015 November

- Standard update to EN 60079-31:2014
- New models EXHCG...; EXHCG..D. with alternative cap versions
- Introductions of alternative of blue cap for the following series: EXCG... ; EXCG.D... ; EXHCG... ; EXHCG..D. Change of related key code
- Addition of models EXCGA... up to NPT 2"

Issue 3, 2022 December

- Standard update to EN 60079-0:2018 and EN IEC 60079-7:2015/A1:2017.
- The series code for Plug types has been changed from EX to EXSP... .
- The series code for Plug types has been changed from EXH to EXHSP... .
- The Manufacturer name had been changed from Cable Management Products Ltd, ABB UK Ltd to ABB Cable Management Products Limited.
- New cable gland model Exhcg..(axb) added for non circular (flat) cables.
- EXHMCG.., EXHMCG..D type cable glands are deleted from the scope of the certificate.