



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx PRE 18.0074X

Issue No: 0

Certificate history:

Issue No. 0 (2018-11-22)

Status: **Current**

Page 1 of 3

Date of Issue: **2018-11-22**

Applicant: **OSCG Co. Ltd.**  
# 1242, Nakdong-Daero,  
Sasang-Gu, Busan, Korea  
**Korea, Republic of**

Equipment: **Compound cable glands(EXBF/ EXBF-A/ EXBF-F)**

*Optional accessory:*

Type of Protection: **Ex db/Ex eb/Ex tb**

Marking:

Ex db IIC Gb

Ex eb IIC Gb

Ex tb IIIC Db

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

Bjørn Spongsveen

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**DNV GL Nemko Presafe AS**  
Veritasveien 3  
1363 Høvik  
Norway





# IECEX Certificate of Conformity

Certificate No: IECEX PRE 18.0074X Issue No: 0

Date of Issue: 2018-11-22 Page 2 of 3

Manufacturer: **OSCG Co. Ltd.**  
# 1242, Nakdong-Daero,  
Sasang-Gu, Busan, Korea  
**Korea, Republic of**

Additional Manufacturing location(s):

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 apparatus 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:

<b>IEC 60079-0 : 2017</b> Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2017</b> Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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 Report:

[NO/PRE/ExTR18.0086/00](#)      [NO/PRE/ExTR18.0086/01](#)

### Quality Assessment Report:

[NO/NEM/QAR15.0003/02](#)



# IECEX Certificate of Conformity

Certificate No: IECEx PRE 18.0074X

Issue No: 0

Date of Issue: 2018-11-22

Page 3 of 3

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The certificate covers the range of cable glands made of brass (nickel coated brass) or stainless steel intended to be used with circular armoured cables or non-armoured cable. The glands uses compound as sealing technique for the cables. The compound is filled inside the cylindrical container where the cable is potted and the cylindrical container is inserted into the HUB body of the gland. The joint the between the Hub body and cylindrical container is additionally protected by compressed sealing ring. The gland uses the combined protection technique of compression by sealing ring and compound sealing technique. Clamping inserts of EXBF type allows 360° contact to the armour.

For Ex d protection type on a specific request, PF threads, JIS B0202 may be used. The previous edition of standard from which the thread type requirements were applied from IEC 60079-1:2001.( Thread verification were considered from IECEx KOS 09.0005X, which covers external PF threads in the assessment). This allowance for the use of "other external thread types" is for the manufacture of replacement entry devices for equipment in existing installations only, that incorporate internal thread types that are no longer permitted by the current edition of IEC 60079-1. (IEC 60079-1, Ed.7, C.2.2.1 Threaded joints, Note 1). Sizes are described in the descriptive documents.

#### Type designation

EXBF – variant with armouring provisions

EXBF-A variant with non-armouring provisions

EXBF-F : variant with non-armouring provisions

**Degrees of Protection (IP Code):** IP 66 according to IEC 60079-0 & IEC 60529

**Service Temperature:** -60°C to +110°C

Refer ANNEX for sizes and limitations

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

- Additional clamping of cable shall be installed to ensure that pulling and twisting is not transmitted to the terminal.

#### Annex:

[Annex to IECEx certificate.pdf](#)

Annex to certificate: IECEx PRE 18.0074X

**Type designation**

EXBF – variant with armouring provisions

EXBF-A variant with non-armouring provisions

EXBF-F : variant with non-armouring provisions

Type EXBF	Entry		Maximum diameter of over core	Maximum No. of cores	Diameter of inner sheath mm		Diameter of outer sheath mm	
	Metric	NPT			Max	Min	Min	Max
16	M16x1.5 M20x1.5	½"	8.7	43	3	10	7	16.1
20	M20x1.5 M25x1.5	½" or ¾"	12.1	82	6	13.5	12	21
25	M25x1.5	¾" or 1"	16.1	144	9	18.1	17	26.2
32	M32x1.5	1" or 1 ¼"	20.8	40	13	24.5	22	34
40	M40X1.5	1 ¼" or 1 ½"	27	38	17	31.5	30	42
50	M50X1.5	1 ½" or 2"	35	113	21	40.1	38	53.7
63X	M63X1.5	2" or 2 ½"	48	116	39	54.1	52	66

Type EXBF-A	Entry		Maximum diameter of over core	Maximum No. of cores	Diameter of inner sheath mm	
	Metric	NPT			Max	Min
16	M16x1.5 M20x1.5	½"	8.7	43	5	10.3
20	M20x1.5 M25x1.5	½" or ¾"	12.1	82	9	15.3
25	M25x1.5	¾" or 1"	16.1	144	13	20.0
32	M32x1.5	1" or 1 ¼"	20.8	40	17	26.5
40	M40X1.5	1 ¼" or 1 ½"	27	38	22	32
50	M50X1.5	1 ½" or 2"	35	113	30	42
63X	M63X1.5	2" or 2 ½"	48	116	46	55

Type EXBF-F	Entry		Maximum diameter of over core	Maximum No. of cores	Diameter of outer sheath mm	
	Metric	NPT			Max	Min
16	M16x1.5 M20x1.5	½"	8.7	43	5	10.3
20	M20x1.5 M25x1.5	½" or ¾"	12.1	82	9	15.3
25	M25x1.5	¾" or 1"	16.1	144	13	20.0
32	M32x1.5	1" or 1 ¼"	20.8	40	17	26.5
40	M40X1.5	1 ¼" or 1 ½"	27	38	22	32
50	M50X1.5	1 ½" or 2"	35	113	30	42
63X	M63X1.5	2" or 2 ½"	48	116	46	55