



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

Certificate No.: IECEx PRE 18.0074X

Issue No: 1

Certificate history:

[Issue No. 1 \(2019-07-25\)](#)

[Issue No. 0 \(2018-11-22\)](#)

Status: **Current**

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Date of Issue: **2019-07-25**

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

Equipment: **Compound cable glands(OS-EXBF/ OS- EXBF-A/ OS-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:*

Arne Hortman

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](#).

Certificate issued by:

DNV GL Presafe AS
Veritasveien 3
1363 Høvik
Norway





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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:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2017 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](#)

[NO/PRE/ExTR18.0086/02](#)

Quality Assessment Report:

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



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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 OS-EXBF type allows 360° contact to the armour.

Type designation

OS-EXBF - variant with armouring provisions
OS-EXBF-A - variant with non-armouring provisions
OS-EXBF-F - variant with non-armouring provisions

Degrees of Protection (IP Code):

IP 66 according to IEC 60079-0 & IEC 60529
IPX8 according to IEC 60259, 5 bar 48 hours

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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 00-Initial Issue

Issue 01-Inclusion of new sizes

Annex:

[Annex to certificate.pdf](#)

Annex to certificate: IECEx PRE 18.0074X Issue 01

Type designation

OS-EXBF - variant with armouring provisions

OS-EXBF-A - variant with non-armouring provisions

OS-EXBF-F- variant with non-armouring with provision to connect conduit fittings

Sizes:

Type OS-EXBF	Entry		Maximum diameter of over core	Maximum No. of cores	Diameter of inner sheath mm		Diameter of outer sheath mm	
	Metric	NPT/(PF**)			Min	Max	Min	Max
16	M16x1.5 M20x1.5	½"	8.7	43	5	10	9	16.1
20	M20x1.5 M25x1.5	½" or ¾"	12.1	82	7.5	13.5	14	21
25	M25x1.5	¾" or 1"	16.1	144	13	18.1	17	26.2
32	M32x1.5	1" or 1 ¼"	20.8	40	16.5	24.5	22	34
40	M40x1.5	1 ¼" or 1 ½"	27	38	23	31.5	30	42
50	M50x1.5	1 ½" or 2"	35	113	29	40.1	38	50
63X	M63x1.5	2" or 2 ½"	48	116	46	54.1	55	66
75*	M75x1.5	2 ½" or 3"	48	62	52	60.9	58	72
75X*	M75x1.5	3"	53	42	59	65.9	66.1	79
90*	M90x1.5/M90x2	3" or 3 ½"	66	62	66	77.8	72	90
100**	M100x1.5/M100x2	3 ½" or 4 "	80	38	76	88.8	84	102
115	M115x1.5/M115x2	3 ½" or 4 "	80	44	88	99.8	100	118

Type OS-EXBF-A	Entry		Maximum diameter of over core	Maximum No. of cores	Diameter of inner sheath mm	
	Metric	NPT/(PF**)			Min	Max
16	M16x1.5 M20x1.5	½"	8.7	43	5	10
20	M20x1.5 M25x1.5	½" or ¾"	12.1	82	7.5	13.5
25	M25x1.5	¾" or 1"	16.1	144	13	18.1
32	M32x1.5	1" or 1 ¼"	20.8	40	16.5	24.5
40	M40x1.5	1 ¼" or 1 ½"	27	38	23	31.5
50	M50x1.5	1 ½" or 2"	35	113	29	40.1
63X	M63x1.5	2" or 2 ½"	48	116	46	54.1
75*	M75x1.5	2 ½" or 3"	48	62	52	60.9
75X*	M75x1.5	3"	53	42	59	65.9
90*	M90x1.5/M90x2	3" or 3 ½"	66	62	66	77.8
100*	M100x1.5/M100x2	3 ½" or 4 "	80	38	76	88.8
115*	M115x1.5/M115x2	3 ½" or 4 "	80	44	88	99.8

Type OS-EXBF-F	Entry		Maximum diameter of over core	Maximum No. of cores	Diameter of inner sheath mm	
	Metric	NPT/(PF**)	Max	Min	Min	Max
16	M16x1.5 M20x1.5	1/2"	8.7	43	5	10
20	M20x1.5 M25x1.5	1/2" or 3/4"	12.1	82	7.5	13.5
25	M25x1.5	3/4" or 1"	16.1	144	13	18.1
32	M32x1.5	1" or 1 1/4"	20.8	40	16.5	24.5
40	M40x1.5	1 1/4" or 1 1/2"	27	38	23	31.5
50	M50x1.5	1 1/2" or 2"	35	113	29	40.1
63X	M63x1.5	2" or 2 1/2"	48	116	46	54.1
75*	M75x1.5	2 1/2" or 3"	48	62	52	60.9
75X*	M75x1.5	3"	53	42	59	65.9
90*	M90x1.5/M90x2	3" or 3 1/2"	66	62	66	77.8
100*	M100x1.5/M100x2	3 1/2" or 4"	80	38	76	88.8

(**) 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, IECEx KOS 09.0002X which covers external PF threads & PG threads in the assessment respectively). 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.

(*)- New sizes included under issue.