



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 PRE 17.0063X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2021-01-13)
Date of Issue:	2022-02-16		Issue 2 (2019-10-30)
Applicant:	OSCG Co. Ltd. 1242, Nakdong-Daero, Sasang-Gu, Busan Korea, Republic of		Issue 1 (2018-12-19)
Equipment:	Cable glands for non-armoured, armoured cable & braided cable (OS-E1UF / OS-E1UFWC / OS-E1UF-EP / OS-E1UF-MH/OS-E1UF-MC)		Issue 0 (2017-12-22)
Optional accessory:			
Type of Protection:	Ex db, Ex eb, Ex tb		
Marking:	Ex db IIC Gb, Ex db I Mb, Ex eb IIC Gb, Ex eb I Mb Ex tb IIIC Db		

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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:

DNV Product Assurance AS
Veritasveien 3
Hovik 1363
Norway





IECEX Certificate of Conformity

Certificate No.: **IECEX PRE 17.0063X**

Page 2 of 4

Date of issue: 2022-02-16

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

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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
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:

[NO/PRE/ExTR17.0067/00](#)
[NO/PRE/ExTR17.0067/03](#)

[NO/PRE/ExTR17.0067/01](#)
[NO/PRE/ExTR17.0067/04](#)

[NO/PRE/ExTR17.0067/02](#)

Quality Assessment Report:

[NO/NEM/QAR15.0003/04](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX PRE 17.0063X**

Page 3 of 4

Date of issue: 2022-02-16

Issue No: 4

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Certificate covers the range of Cable glands for the type OS-E1UF / OS-E1UFWC/ OS-E1UF-EP/ OS-E1UF-MH/OS-E1UF-MC and suitable for certified Ex d /e/tb enclosures. Glands can be made from aluminium, brass & stainless steel. Refer sizes for more details.

Aluminium material not intended for Group I.

OS-E1UF cable glands are designed to be used with both armoured & braided cable glands.

OS-E1UFWC is a variant with clamping that guide the cable.

OS-E1UF-EP/ OS-E1UF-MH is a variant that has provision for flexible hose / flexible braid conduit that are welded to the compression unit and has no outer sealing ring. Flexible hose / flexible braid doesn't provide any Ex protection. This is additional protection for the cable. This variant doesn't have provision to include clamping for armour / braid.

OS-E1UF-MH is a variant that has provision for metal hose attached to the compression unit and has no outer sealing ring. Metal hose doesn't provide any Ex protection. This is additional protection for the cable. This variant doesn't have provision to include clamping for armour / braid.

OS-E1UF-MC is a variant used for metal clad cable.

Clamping inserts allows 360° contact to the armour. Optionally lead sheath washer is provided for the electrical connection to a layer of lead or other metallic sheath.

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. 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).

See ANNEX for size and details.

Degrees of protection (IP Code):

SS & Brass: IP66/67/68 according to EN 60079-0 & EN 60529

Aluminium Glands IP 66/67 according to EN 60079-0 & EN 60529

Service Temperature: -60°C to +110°C

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.



IECEX Certificate of Conformity

Certificate No.: **IECEX PRE 17.0063X**

Page 4 of 4

Date of issue: 2022-02-16

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

00-Initial issue

01-To include new variant OS-E1UFWC

02-Assessment to aluminium cable glands and adjustments to dimensions of the minimum cable size for SS type and brass type glands not affecting the tests performed previously.

03- Assessment to aluminium cable glands for big sizes, corrected type errors from previous assessment & Assessment for Group I for the entire range of sizes. Inclusion of OS-E1UF-MH & OS-E1UF-EP variant.

04- Inclusion of OS-E1UF-MC variant

Annex:

[Annex to IECEx certificate_1.pdf](#)

Annex to certificate: NO/PRE/ExTR17.0067/04/ IECEx PRE 17.0063X Issue 4

Type designation

Sizes: (Aluminium, SS & Brass glands)**

Type OS-E1UF / OS-E1UFWC / OS-E1UF-EP / OS-E1UF-MH / OS-E1UF-MC	Entry		Diameter of Inner sheath mm		Diameter of outer sheath mm	
	Metric	NPT	Min	Max	Min	Max
* OS-E1UF 16	M16x1.5 M20x1.5	½"	5	11.5	9	15.5
OS-E1UF 20	M20x1.5 M25x1.5	½" or ¾"	7.5	15.2	13.2	20.5
OS-E1UF 25	M25x1.5	¾" or 1"	13	19.6	17	26
OS-E1UF 32	M32x1.5	1" or 1 ¼"	16.5	26.2	24	33.5
OS-E1UF 40	M40X1.5	1 ¼" or 1 ½"	23	32.3	30	41.5
OS-E1UF 50	M50X1.5	1 ½" or 2"	29	41.5	38	50
OS-E1UF 63	M63X1.5	2" or 2 ½"	39	50	45	60
OS-E1UF 63X	M63X1.5	2 ½"	46	55	55	66
OS-E1UF 75	M75X1.5/2	2 ½" or 3"	52	61	58	72
OS-E1UF 75X	M75X1.5/2	3"	59	67	66.1	79
OS-E1UF 90	M90x1.5/2	3" or 3 ½"	66	80	72	90
OS-E1UF 100	M100x1.5/2	3 ½" or 4 "	76	90.5	84	101.5
OS-E1UF 115	M115x1.5/2	4"	88	102	100	116
*-E1UFWC doesn't include the size						

** - Aluminium material not intended for Group I.

Ingress protection :

IP 66 /67 Aluminium Glands

IP 66/68 SS & Brass Glands