

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)

SKINTOP MS-M ATEX & MS-M-XL ATEX, MSR-M ATEX & MSR-M-XL ATEX, MS-M ATEX BRUSH

Issued to

**U.I. Lapp GmbH
Stuttgart, Germany**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Material	Metallic
Suitable for open deck	Yes
Suitable for Hazardous areas	Yes

Issued at **Hamburg** on **2018-02-13**

This Certificate is valid until **2023-02-12**.

DNV GL local station: **Augsburg**

for **DNV GL**

Approval Engineer: **Carsten Hunsalz**

**Arne Schaarmann
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Nickel plated brass (PA6, CR/NBR) cable gland according to ATEX for hazardous areas. Types MS-M ATEX & MS-M-XL ATEX. MSR-M ATEX & MSR-M-XL with reduced insertion seal. Optional with BRUSH.

Classification according to EN 62444:

6.1 Gland Material: Seal material:	Metallic, nickel plated brass Polyamide CR / NBR
6.2.2 Mechanical properties	With cable anchorage, type A.
6.2.3 Impact category	7 J*
6.3 Electrical properties	Not declared
6.4.1 IP class	IP68
6.4.2 Temperatur range	-30°C to +90 °C
Cable type:	Non-armoured
Ex classification:	EX II 2G Ex eb IIC / EX II 1D Ex ta IIIC
Ex certificate number:	IBExU01ATEX1041 X, IECEx IBE 13-0026X

* in according to IEC60079-0

Overview MS-M ATEX

Size of thread	Cable diameter min/max [mm]:	Article number:	Article number with BRUSH:
M12x1,5	3-7	5311 2700	-
M16x1,5	4,5-10	5311 2710	-
M20x1,5	7,0-13	5311 2720	-
M25x1,5	9,0-17	5311 2730	5211 0023
M32x1,5	11,0-21	5311 2740	5211 0024
M40x1,5	19-28	5311 2750	5211 0025
M50x1,5	26-35	5311 2760	5211 0026
M63x1,5	34-45	5311 2770	5211 0027
M63x1,5 PLUS	44-55	5311 2779	5211 0028

Overview MS-M-XL ATEX

Size of thread	Cable diameter min/max [mm]:	Article number:
M12x1,5	3-7	5311 2800
M16x1,5	4,5-10	5311 2810
M20x1,5	7-13	5311 2820
M25x1,5	9-17	5311 2830
M32x1,5	11-21	5311 2840
M40x1,5	19-28	5311 2850
M50x1,5	26-35	5311 2860

Overview MSR-M ATEX

Size of thread	Cable diameter min/max [mm]:	Article number:
M12x1,5	2-5	5311 2705
M16x1,5	4,0-7	5311 2715
M20x1,5	5,0-10	5311 2725
M25x1,5	6,0-13	5311 2735
M32x1,5	7,0-15	5311 2745
M40x1,5	16-23	5311 2755
M50x1,5	19-29	5311 2765
M63x1,5	32-39	5311 2775

Overview MSR-M-XL ATEX

Size of thread	Cable diameter min/max [mm]:	Article number:
M12x1,5	2-5	5311 2805
M16x1,5	4-7	5311 2815
M20x1,5	5-10	5311 2825
M25x1,5	6-13	5311 2835
M32x1,5	7-15	5311 2845
M40x1,5	16-23	5311 2855
M50x1,5	32-39	5311 2865

Application/Limitation

Manufacturer's installation description, instructions and DNV GL rules to be followed.

Not to be used in bulkheads/decks or for penetrating boundaries of tanks.

The information related to Ex certification from recognised test institution is given as information only. Applications where Ex certified equipment is required will in general be subject to approval case by case based on documentation as required in DNV Rules

Type Approval documentation

Tests carried out

IEC/EN 60079-0:2011/2012(13), IEC/EN 60079-7:2015, IEC/EN 60079-31:2013/2014

Marking of product

U.I. Lapp - Type designation - Ex rating.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE