DNV·GL

Certificate No:
**TAE00002NH**

# 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**

Approval Engineer: **Carsten Hunsalz**

for **DNV GL**

**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.

Job Id: **262.1-008275-6**
Certificate No: **TAE00002NH**

## 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:<br>Seal material: | Metallic, nickel plated brass<br>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 no 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