



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAE0002NC**  
Revision No:  
**1**

## This is to certify:

**That the Cable Gland**

with type designation(s)  
**SKINTOP BS-M**

Issued to

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

is found to comply with

**DNV 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.**

|                                     |                |
|-------------------------------------|----------------|
| <b>Material</b>                     | <b>Plastic</b> |
| <b>Suitable for open deck</b>       | <b>No</b>      |
| <b>Suitable for Hazardous areas</b> | <b>No</b>      |

Issued at **Høvik** on **2023-05-22**

This Certificate is valid until **2028-05-21**.

DNV local unit: **Augsburg**

Approval Engineer: **Carsten Hunsalz**

for **DNV**

.....  
**Frederik Tore Elter**  
**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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

Cable gland of polyamide with spiral bending protection. Type BS-M.

Classification according to DIN EN 62444

|                             |                                 |
|-----------------------------|---------------------------------|
| 6.1 Material                | Non metallic                    |
| 6.2.2 Mechanical properties | With cable anchorage, type A.   |
| 6.2.3 Impact category       | 3 (M12 & M16)<br>5 (M20 to M32) |
| 6.3 Electrical properties   | Not declared                    |
| 6.4.1 IP class              | IP68                            |
| 6.4.2 Temperatur range      | -20 °C to +100 °C               |

Overview BS-M

| Size of thread | Cable diameter min/max [mm]: | Article no silver grey | Article no light grey | Article no black |
|----------------|------------------------------|------------------------|-----------------------|------------------|
| M12x1,5        | 3,5-7                        | 5311 1600              | 5311 1800             | 5311 1700        |
| M16x1,5        | 4,5-10                       | 5311 1610              | 5311 1810             | 5311 1710        |
| M20x1,5        | 7-13                         | 5311 1620              | 5311 1820             | 5311 1720        |
| M25x1,5        | 9-17                         | 5311 1630              | 5311 1830             | 5311 1730        |
| M32x1,5        | 11-21                        | 5311 1640              | 5311 1840             | 5311 1740        |

## Application/Limitation

Manufacturer's installation description, instructions and DNV rules to be followed  
 Not to be used in bulkheads/decks or for penetrating boundaries of tanks

## Type Approval documentation

Data sheets:  
 LAPP kabel DB53111600EN V11  
 LAPP drawing number DM53111600DE\_EN

Test reports:  
 VDE Marks Licence No. ZV53111600DE, Certificate No. 40010604 dated 16.08.2016

## Tests carried out

Type test report in accordance with DIN EN 62444:2014-05

## Marking of product

U.I. Lapp – Type designation

## 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