

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)
SKINTOP ST-M & STR-M

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	Plastic
Suitable for open deck	No
Suitable for Hazardous areas	No

Issued at **Hamburg** on **2018-02-09**

This Certificate is valid until **2023-02-08**.

DNV GL local station: **Augsburg**

for **DNV GL**

Approval Engineer: **Carsten Hunsalz**

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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

Cable gland of polyamide. Types ST-M, STR-M with reduced insertion seal.

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 & M15) 5 (M20 to M63)
6.3 Electrical properties	Not declared
6.4.1 IP class	IP68
6.4.2 Temperatur range	-20 °C to +100 °C

Overview ST-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 1000	5311 1400	5311 1200
M16x1,5	4,5-10	5311 1010	5311 1410	5311 1210
M20x1,5	7-13	5311 1020	5311 1420	5311 1220
M25x1,5	9-17	5311 1030	5311 1430	5311 1230
M32x1,5	11-21	5311 1040	5311 1440	5311 1240
M40x1,5	19-28	5311 1050	5311 1450	5311 1250
M50x1,5	27-35	5311 1060	5311 1460	5311 1260
M63x1,5	34-45	5311 1070	5311 1470	5311 1270

Overview STR-M (with reduced insertion seal)

Size of thread	Cable diameter min/max [mm]:	Article No. silver grey	Article No. light grey	Article No. black
M12x1,5	1-5	5311 1100	5311 1500	5311 1300
M16x1,5	2-7	5311 1110	5311 1510	5311 1310
M20x1,5	5-10	5311 1120	5311 1520	5311 1320
M25x1,5	6-13	5311 1130	5311 1530	5311 1330
M32x1,5	7-15	5311 1140	5311 1540	5311 1340
M40x1,5	15-23	5311 1150	5311 1550	5311 1350
M50x1,5	22-29	5311 1160	5311 1560	5311 1360
M63x1,5	28-39	5311 1170	5311 1570	5311 1370

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

Type Approval documentation

Job Id: **262.1-008275-7**
Certificate No: **TAE00002NB**

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