



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE0002NH
Revision No:
1

This is to certify:

That the Cable Gland

with type designation(s)

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

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.

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

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**

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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

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

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 Temperature range	-30°C to +90 °C
Cable type:	Non-armoured
Ex classification:	EX II 2G Ex eb IIC Gb / EX II 1D Ex ta IIC Da
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 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

Data sheets:

- LAPP kabel DB52110023EN V09 and DB53112700EN V15
- LAPP drawing number DM53112700DE_EN
- LAPP drawing number DM53112705DE_EN
- LAPP drawing number DM53112800DE_EN
- LAPP Instruction sheet: BS14_4211-07

Test reports:

- IBExU EC-Type Examination Certificate No. IBExU01ATEX1041 X.
- 1st.Addition to IBExU01ATEX1041 X. Test documents
- 2nd Addition to IBExU01ATEX1041 X. Extended type series
- 3rd Addition to IBExU01ATEX1041 X. Supplement
- 4th Addition to IBExU01ATEX1041 X. IP 68 according to EN 60529.
- 5th Addition to IBExU01ATEX1041 X. Sealing plug MS-M ATEX.
- 7th Addition to IBExU01ATEX1041 X. Extended type series.
- 8th Addition to IBExU01ATEX1041 X. Extended type series with Brush.
- 9th Addition to IBExU01ATEX1041 X. Changed ATEX marking
- Underwriters Laboratories Inc. Test report File E79903
- IBExU Product Quality Assurance Notification No. IBExU15ATEX Q018

Tests carried out

IEC/EN 60079-0:2019, IEC/EN 60079-7:2015/2016, IEC/EN 60079-31:2022/2016

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



Job Id: **262.1-008275-14**
Certificate No: **TAE00002NH**
Revision No: **1**

- 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