



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE0002NW
Revision No:
1

This is to certify:

That the Cable Gland

with type designation(s)
SKINTOP K-M ATEX plus, SKINTOP KR-M ATEX plus

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 | Plastic |
| Suitable for open deck | No |
| Suitable for Hazardous areas | Yes |

Issued at **Høvik** on **2023-05-22**

for **DNV**

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

DNV local unit: **Augsburg**

Approval Engineer: **Carsten Hunsalz**

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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

Polyamide cable gland according to ATEX for hazardous areas.
 Types K-M ATEX plus, KR-M ATEX plus.

Classification according to EN 62444:

| | |
|---------------------------------------|---|
| 6.1 Gland Material: Seal material: | Non metallic, Polyamide Special elastomer / CR |
| 6.2.2 Mechanical properties | Not declared |
| 6.2.3 Impact category | 4 J* (M12 to M20) 7 J* (M25 to M63) |
| 6.3 Electrical properties | Not declared |
| 6.4.1 IP class | IP68 |
| 6.4.2 Temperatur range | -20°C to +80 °C |
| Cable type: | Non-armoured |
| Ex classification: | EX II 2G Ex eb IIC Gb / EX II 1D Ex ta IIIC Da |
| Ex certificate number: | IBExU08ATEX1063 X, IECEx IBE 13.0027X |

* in according to IEC60079-0

Overview K-M ATEX plus

| Size of thread | Cable diameter min/max [mm]: | Article No. black | Article No. blue |
|----------------|------------------------------|-------------------|------------------|
| M12x1,5 | 3-5,5 | 5411 5200 | 5411 5400 |
| M16x1,5 | 7-9 | 5411 5210 | 5411 5410 |
| M20x1,5 | 7-13 | 5411 5220 | 5411 5420 |
| M25x1,5 | 11-17 | 5411 5230 | 5411 5430 |
| M32x1,5 | 12-21 | 5411 5240 | 5411 5440 |
| M40x1,5 | 19-28 | 5411 5250 | 5411 5450 |
| M50x1,5 | 27-35 | 5411 5260 | 5411 5460 |
| M63x1,5 | 36-45 | 5411 5270 | 5411 5470 |

Overview KR-M ATEX plus

| Size of thread | Cable diameter min/max [mm]: | Article No. black | Article No. blue |
|----------------|------------------------------|-------------------|------------------|
| M12x1,5 | 2-4 | 5411 5205 | 5411 5405 |
| M16x1,5 | 4-6 | 5411 5215 | 5411 5415 |
| M20x1,5 | 5-10 | 5411 5225 | 5411 5425 |
| M25x1,5 | 6-13 | 5411 5235 | 5411 5435 |
| M32x1,5 | 9-15 | 5411 5245 | 5411 5445 |
| M40x1,5 | 16-23 | 5411 5255 | 5411 5455 |
| M50x1,5 | 22-29 | 5411 5265 | 5411 5465 |
| M63x1,5 | 29-39 | 5411 5275 | 5411 5475 |

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 BS14_4210 V12
LAPP drawing number DM54115205DE_EN
LAPP drawing number DM54115200DE_EN
LAPP Instruction sheet No. BS14_4210_06, 7.11.2017

Test reports:

Deutsche Montan Technologie GmbH EC-Type Examination Certificate No. DMT 03 ATEX E 044 X, dated 19.05.2003.
IBExU Product Quality Assurance Notification No. IBExU15ATEX Q018
IBExU EG-Baumusterprüfbescheinigung IBExU08ATEX1063 X dated 26.06.08 with 1. supplement dated 08.01.10
IBExU EG-Baumusterprüfbescheinigung IBExU08ATEX1063 X 26.06.08
2nd Addition to IBExU08ATEX1063 X, Changed ATEX marking

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
- 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