

TYPE APPROVAL CERTIFICATE

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 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	Yes

Issued at **Hamburg** on **2018-02-13**

This Certificate is valid until **2023-02-12**.

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.



Job Id: **262.1-008275-9**
Certificate No: **TAE00002NW**

Product description

Polyamide cable gland according to ATEX for hazardous areas. Types K-M ATEX, KR-M ATEX with reduced insertion seal.

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 / EX II 1D Ex ta IIIC
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 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