

Test certificate

No. 20160715/04

1st Official copy

Customer: U. I. Lapp GmbH
Schulze-Delitzsch-Str. 25
D-70565 Stuttgart

Order content: Test of the fire behaviour / integrity of occupied cable gland fittings from the series "SKINTOP MS-HF-M" by the company U. I. Lapp GmbH in the horizontal and vertical installed position of the carrier plate with firing from inside and outside as per the time-temperature curve (TTC) in accordance with DIN EN 1363-1:2012-10

Test principle: DIN EN 45545-3:2013-08
DIN EN 1363-1:2012-10

Product: Occupied cable gland fitting from the series "SKINTOP MS-HF-M"
SKINTOP MS-HF-M12 / SC
SKINTOP MS-HF-M16 / SC / GRIP
SKINTOP MS-HF-M20 / SC / GRIP
SKINTOP MS-HF-M25 / SC / GRIP / BRUSH
SKINTOP MS-HF-M32 / SC / GRIP / BRUSH
SKINTOP MS-HF-M40 / SC / BRUSH
SKINTOP MS-HF-M50 / SC / BRUSH
SKINTOP MS-HF-M63 / BRUSH

Manufacturer: U. I. Lapp GmbH
Schulze-Delitzsch-Str. 25
D-70565 Stuttgart

Order date: 2016-07-12

Test date: 2016-07-12/13

Official copy dated: 2016-09-08

Scope of test certificate: 3 pages of text and 2 pages of appendices

In the case of doubt, the German version of the test certificate no. 20160715/04 shall be legally valid.



The publishing of test reports / certificates, even extracts therefrom, and references to tests for the purposes of advertising requires the written consent of MPA Dresden GmbH in each individual case. The individual pages of this test certificate have been endorsed with the official stamp of the company MPA Dresden GmbH.

1 Product description

The cable gland fittings from the series "SKINTOP MS-HF-M" by the company "U. I. Lapp GmbH" consist of a nozzle body with gland nut (material: nickel plated brass), a lamella basket insert (material: polyamide-based moulding, non-halogen), a sleeve sealing ring (material: special elastomer, non-halogen, flame retardant) and an O ring (material: special elastomer, non-halogen, flame-retardant).

Table 1: Tested cable gland fittings as well as specification of the cable used

Fitting designation	Clamping range (from / to) [mm]	Cable manufacturer	Type designation with conductor cross section
SKINTOP MS-HF-M12	3-7	Lapp Kabel	ÖLFLEX TRAIN 331 600V 1x16 BK
SKINTOP MS-HF-M16	4.5-10	Lapp Kabel	ÖLFLEX TRAIN 340 600V 4x2,5
SKINTOP MS-HF-M20	7-13	Lapp Kabel	ÖLFLEX HEAT 180 H05SS-F-EWK 5G2,5
SKINTOP MS-HF-M25	7-17	Lapp Kabel	ÖLFLEX TRAIN 381 3,6kV 1x35
SKINTOP MS-HF-M32	11-21	Lapp Kabel	ÖLFLEX TRAIN 371 1,8kV 1x95
SKINTOP MS-HF-M40	19-28	Lapp Kabel	ÖLFLEX TRAIN 361 1,8kV 1x240 BK
SKINTOP MS-HF-M50	27-35	Lapp Kabel	ÖLFLEX CLASSIC 100 H 5G35
SKINTOP MS-HF-M63	34-45	Lapp Kabel	ÖLFLEX 191 4G70

The "SKINTOP MS-HF-M" cable gland fittings are also obtainable with EMC contacting (material: copper-beryllium contact spring) as "SKINTOP MS-HF-M SC" in sizes M12, M16, M20, M25, M32, M40 and M50 as well as "SKINTOP MS-HF-M BRUSH" with additional internal ring brush (material: holder: zinc plated sheet steel; brass bristles) in sizes M25, M32, M40, M50 and M63.

The "SKINTOP MS-HF-M" cable gland fittings are obtainable with additional cable anchorage (nickel plated clamping jaws) as "SKINTOP MS-HF-M GRIP" in sizes M16, M20, M25 and M32.

The cable gland fittings occupied with different cables from the company U. I. Lapp GmbH were mounted in a 2.0 mm thick steel carrier plate. The firing took place in different fire tests as "fire from inside" and "fire from outside", in each case in the horizontal and vertical installed carrier plate position.

2 Basis for the issuing of the test certificate

- Test report nos. 20160715/01 to 20160715/03 dated 2016-09-08 by MPA Dresden GmbH
- U. I. Lapp GmbH product data sheet "SKINTOP MS-HF-M" (see appendices 1 and 2)



3 Fire protection characteristics of the cable gland fittings

Based on the principles of the installed and fired orientations as specified in section 1 and also the documentation specified in section 2, the fulfilment of the requirements for the classification E30 is confirmed for the occupied cable gland fittings based on DIN EN 13501-2:2010-02¹ in accordance with the following tables.

4 Possible classification for the cable gland fittings series "SKINTOP MS-HF-M"¹⁾ based on DIN EN 13501-2:2010-02¹

Fitting designation	Installed position ²⁾	
	Horizontal	Vertical
SKINTOP MS-HF-M12	E30	E30
SKINTOP MS-HF-M16	E30	E30
SKINTOP MS-HF-M20	E30	E30
SKINTOP MS-HF-M25	E30	E30
SKINTOP MS-HF-M32	E30	E30
SKINTOP MS-HF-M40	E30	E30
SKINTOP MS-HF-M50	E30	E30
SKINTOP MS-HF-M63	E30	E30

¹⁾ With cable occupation as itemised in section 1

²⁾ The installed position refers to the wall / ceiling in which the cable gland fitting is installed.

5 Notes

The test certificate 20160715/04 does not supplant a general building authority verification of usability or a type or prototype test where applicable.


The validity of the test certificate 20160715/04 is indefinite provided that there is no change in the construction and the constituent parts of the cable gland fittings "SKINTOP MS-HF-M".

The classification is valid solely for the cable gland fittings with the cable occupation as tested.

Freiberg, 2016-09-08


Dr.-Ing. A. Meißner
Test Centre Manager, Fire Protection




J. Ulbricht
Tester, Fire Protection

Appendix

¹ DIN EN 13501-2:2010-02

Fire classification of construction products and building elements - Part 2:
Classification using data from fire resistance tests, excluding ventilation services