



valid until: February 20, 2030

# Fraunhofer

## TESTED<sup>®</sup>

## DEVICE

LAPP KOREA LLC  
FD 8711 C MC 7x0.34  
**Report No. LA 2410-1570**

### Single product Outgassing Behavior Ammonia

DUPPLICAT

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under [www.tested-device.com](http://www.tested-device.com).

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

### Qualification Certificate

This is to certify that the product mentioned above, provided by  
**LAPP KOREA LLC**  
Hwaseong-si, Republic of Korea

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number LA 2410-1570.

The outgassing behavior of the cable system CLEANROOM FD 8711 C MC 7 x 0.34 mm<sup>2</sup> (color: black) at the stated temperatures was investigated according to ISO 14644-15. Based on the outgassing rates determined for the specific units, the following material classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	SER <sub>u</sub> <sup>1)</sup> 23 °C [g/unit*s]	ISO-ACC <sub>e</sub> Class (x) based on 23 °C
Ammonia (NH <sub>3</sub> )	< 2.9 x 10 <sup>-9</sup>	< -8.5

<sup>1)</sup> SER<sub>u</sub>: Unit-specific emission rate

LA 2410-1570  
Report No. first document

Stuttgart, February 20, 2025  
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of  
Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA