



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  
**Particle Emission  
in Cleanroom  
(atmospheric)**

## 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 cable system CLEANROOM FD 8711 C MC 7 x 0.34 mm<sup>2</sup>  
(color: black) was assessed in compliance with ISO 14644-  
14. When operated under the specified test conditions (room  
temperature: 22 °C ± 0.5 °C; relative humidity: 45 % ± 5 %), it is  
suitable for use in cleanrooms fulfilling the specifications of the  
following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2$	1
$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	1
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	1
<b>Overall result</b>	<b>1</b>

Please note: Transport damages, incorrect installation, aging  
behavior etc. can influence the test result.

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

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.