



valid until: November 18, 2027

# Fraunhofer

## TESTED<sup>®</sup>

## DEVICE

LAPPKOREA LLC  
CR 8211 C MC 3X0.14SQ  
**Report No. LA 2208-1345**

### Single product Particle Emission

DUPPLICATED

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

**LAPPKOREA LLC**  
HWASEONG-SI, Korea

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number LA 2208-1345.

The cable UNITRONIC CLEANROOM FD 8211 C MC 3 X 0.14SQ (color: black) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, 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 2208-1345  
Report No. first document

Stuttgart, November 18, 2022  
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of



**Fraunhofer**  
IPA