



Fraunhofer

TESTED[®] DEVICE

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

Single product Particle Emission

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 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
Overall result	1

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 

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.

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