



valid until: March 28, 2030

Fraunhofer

TESTED[®] DEVICE

igus GmbH
chainflex CF11.D
Report No. IG 2405-1526

Product series Particle Emission in Dry-Cleanroom

Qualification Certificate

This is to certify that the product mentioned above, provided by

igus GmbH
Cologne, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number IG 2405-1526.

The series chainflex measuring system cable CF11.D was assessed in compliance with ISO 14644-14. When operated under the specified test conditions (room temperature of 22 °C ± 1 °C; dew point: -40 °C ± 2 °C), it is suitable for use in Dry-Cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2$	4
$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	4
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	4
Overall result	4

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

IG 2405-1526
Report No. first document

Stuttgart, March 28, 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.

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