

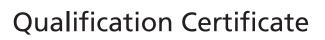
Fraunhofer TESTED[®] DEVICE

igus GmbH TRC.40.ESD + fiber rod **Report No. IG 2309-1461**

Single product Particle Emission Dry-Cleanroom

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.



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 2309-1461.

The cable guiding system TRC.40.058.0.ESD with fiber rod module (color: black) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in cleanrooms (with a dew point of -40 °C \pm 2 °C and room temperature of 22 °C \pm 1 °C) 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
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	5
Overall result	5

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

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Report No. current document

--Place, current date

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

