



valid until: November 13, 2030

Fraunhofer

TESTED[®]

DEVICE

U.I. Lapp GmbH
ÖLFLEX CLASSIC FD 810
Report No. LA 2509-1671

Single product Particle Emission in 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.

Qualification Certificate

This is to certify that the product mentioned above, provided by
U.I. Lapp GmbH
Stuttgart, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number LA 2509-1671.

The cable system ÖLFLEX CLASSIC FD 810 5G1,5 (color: gray) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions (room temperature of $22^{\circ}\text{C} \pm 1^{\circ}\text{C}$; dew point: $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$), 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.

LA 2509-1671
Report No. first document

Stuttgart, November 13, 2025
Place, date of first document issued

--
Report No. current document

--
Place, current date

on behalf of
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification



Fraunhofer
IPA