



**Fraunhofer**

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DEVICE**

KABELSCHLEPP GmbH

1455.030.058.052

**Report No. KA 1008-531**

DUPLICATE

Statement of  
Qualification

# Statement of Qualification

**Customer:** KABELSCHLEPP GmbH  
Daimlerstraße 2  
57482 Wenden-Gerlingen  
Germany

**Component tested:** Cable carrier

**Type:** Uniflex Advanced 1455.030.058.052

**Tests performed:** Random check measurements of particle emission (airborne) at representative points

**Test parameters:**

- Chain length: ..... 209 cm
- Stroke length: ..... 140 cm
- Set of parameters 1: .....  $v_1$ : 0.5 m/s;  $a_1$ : 1.0 m/s<sup>2</sup>
- Set of parameters 2: .....  $v_2$ : 1.0 m/s;  $a_2$ : 2.0 m/s<sup>2</sup>
- Set of parameters 3: .....  $v_3$ : 2.0 m/s;  $a_3$ : 5.0 m/s<sup>2</sup>

**Test results / classification:** When the cable carrier is being operated at the above mentioned test parameters, it is suitable for use in cleanrooms fulfilling the Air Cleanliness Class 5 according to ISO 14644-1.

**Standards / guidelines used for the qualification:** VDI 2083 Part 1, 4 and 9.1; ISO 14644-1

**Test parameters of the cleanroom environment:**

Cleanroom of Air Cleanliness Class ISO Class 1 (according to ISO 14644-1)

Air flow velocity: 0.45 m/s

Air flow guidance: vertical unidirectional air flow from ceiling to floor (raised floor)

Temperature: 22 °C ± 0.5 °C (71.6 °F ± 0.9 °F)

Relative humidity: 45 % ± 5 %

The measuring equipment used for the qualification is regularly calibrated and is based on national and international standards. In the case where no national standards exist, the measuring procedure used corresponds with technical regulations and norms valid at the time of the measurement. The documents drawn up for this procedure are available for viewing.

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