



Fraunhofer

**TESTED[®]
DEVICE**

KABELSCHLEPP GmbH
CT 1555.080.125.100
Report No. KA 1008-531

DUPLICATE

Statement of
Qualification

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Customer: KABELSCHLEPP GmbH
Daimlerstraße 2
57482 Wenden-Gerlingen
Germany

Component tested: Cable carrier

Type: CoverTrax CT 1555.080.125.100

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

Test parameters:

- Chain length: 221 cm
- Stroke length: 140 cm
- Set of parameters 1: v_1 : 0.5 m/s; a_1 : 1.0 m/s²
- Set of parameters 2: v_2 : 1.0 m/s; a_2 : 2.0 m/s²
- Set of parameters 3: v_3 : 2.0 m/s; a_3 : 5.0 m/s²

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 6 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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