

## Fraunhofer

## TESTED® DEVICE

igus GmbH Cable system CF130.15.07.UL **Report No. IG 1303-640** 

Statement of Qualification





## **Statement of Qualification**

**Customer:** igus GmbH

Spicher Strasse 1a 51147 Cologne Germany

**Component tested:** 

Category: Energy Supply

Subcategory: Cable Systems

Type: Cable system CF130.15.07.UL

## Random check measurements of particle emission (airborne) at representative points

Test procedure:

Measuring instruments:

Test parameters of the test environment:

Test parameters of the test execution:

According to VDI 2083-9.1; ISO 14644-1

Each standard states refers to the version valid at the time of testing.

Optical Particle Counter:

LasAir II 110 (PMS) with measuring channels of  $\geq 0.1 \, \mu m$ ,  $\geq 0.2 \, \mu m$ ,  $\geq 0.3 \, \mu m$ ,  $\geq 0.5 \, \mu m$ ,  $\geq 1.0 \, \mu m$ , and  $\geq 5.0 \, \mu m$ 

•	Cleanroom Air Cleanliness Class (according to ISO 14644-1): ISO 1
•	Air flow velocity:
•	Air flow guidance:vertical unidirectional air flow

<ul> <li>Energy chain:</li> </ul>	igus F61 29 50 075 0 CR

•	Bending radius of the chain:	r=80 mm
•	Cable length:	l=880 mm
•	Stroke length:	s=820 mm

Parameter set 1: v<sub>1</sub>=0.5 m/s; a<sub>1</sub>=1.0 m/s<sup>2</sup>
 Parameter set 2: v<sub>2</sub>=1.0 m/s; a<sub>2</sub>=2.0 m/s<sup>2</sup>

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**Test results / Classification:** (according to ISO 14644-1)

The cable system CF130.15.07.UL is suitable for use in cleanrooms fulfilling Air Cleanliness Class 1.

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.

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years.

Further information: www.tested-device.com.

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Place, Date

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