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TESTED® DEVICE

Hitachi Cable (HCM) cable sleeve EcoFlex **Report No. HI 1006-526**

Statement of Qualification





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Customer: Hitachi Cable Manchester Inc.

> 900 Holt Avenue Manchester, NH 03109

USA

Component tested: Cable sleeve

Test parameters:

Cable sleeve EcoFlex Type:

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

• Stroke length: 820 mm • 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

igus E6.29.01.150

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

• Energy chain:

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: $22 ^{\circ}\text{C} \pm 0.5 ^{\circ}\text{C} (71.6 ^{\circ}\text{F} \pm 0.9 ^{\circ}\text{F})$

Relative humidity: 45 % ± 5 %

Stuttgart, July 1, 2010
Place, date

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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