



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

HITACHI CABLE VIETNAM CO., LTD  
Multi pair UL2464-SB (FLEX)  
**Report No. HI 1803-1021**

### Particle Emission

### Qualification Certificate

This is to certify that the product mentioned above, provided by

**HITACHI CABLE VIETNAM CO., LTD**  
Hai Duong Province, Vietnam

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number HI 1803-1021.

The cable series Multi pair UL2464-SB (FLEX) with shield (color: black) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in 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
$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	2
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	2
<b>Overall result</b>	<b>4</b>

DUPLICATE

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](http://www.tested-device.com).

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

HI 1803-1021  
Report No. first document

Stuttgart, May 18, 2018  
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of   
Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA