

## Fraunhofer

## TESTED<sup>®</sup> DEVICE

Whale-Tech/SHA THETA CW Cable Chain (CW28.068-700)

Report No. WH 2503-1599

Single product
Particle Emission
in Cleanroom
(atmospheric)

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

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

## **Qualification Certificate**

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

Whale Technology (Shanghai) Co., Ltd Shanghai, China

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number WH 2503-1599.

The Wave-Shape Cleanroom Cable Chain (CW28.068-700, color: white) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions (room temperature:  $22\,^{\circ}\text{C} \pm 0.5\,^{\circ}\text{C}$ ; relative humidity:  $45\,\% \pm 5\,\%$ ), 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
$v_1 = 0.5 \text{m/s};  a_1 = 1.0 \text{m/s}^2$	2
$v_2 = 1.0 \text{m/s};  a_2 = 2.0 \text{m/s}^2$	1
$v_3 = 2.0 \text{m/s};  a_3 = 4.0 \text{m/s}^2$	1
Overall result	2

Please note: Transport damages, incorrect installation, aging behavior etc. can influence the test result.

WH 2503-1599

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Place, current dat

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

