



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

Tsubakimoto Chain Co.

FV-2018-0068

**Report No. TS 1904-1108**

Single product  
Particle Emission

## Qualification Certificate

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

**Tsubakimoto Chain Co.**

Kyoto, Japan

has been awarded a Fraunhofer certificate TESTED DEVICE  
bearing the report number TS 1904-1108.

The cable FLATVEYOR FV-2018-0068 FV070.1020 (color: black)  
was assessed in compliance with ISO 14644-14. When operated  
under the specified test conditions, it is suitable for use in clean-  
rooms fulfilling the specifications of the following Air Cleanliness  
Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2$	1
$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	1
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	2
<b>Overall result</b>	<b>2</b>

Please note: Transport damage, incorrect installation, oil leakage,  
aging behavior and corrosion etc. can influence the test result.

TS 1904-1108  
Report No. first document

Stuttgart, June 3, 2019  
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

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.