



valid until: July 4, 2030

Fraunhofer

TESTED[®] DEVICE

IL SAN ELECTRIC WIRE Co., Ltd.
IMOTPEV-S 4C x 24 AWG (0.25SQ)
Report No. IL 2506-1639

Single product
Particle Emission
in Cleanroom
(atmospheric)

Qualification Certificate

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

IL SAN ELECTRIC WIRE Co., Ltd.
Eumseong-gun, Republic of Korea

has been awarded a Fraunhofer certificate TESTED DEVICE
bearing the report number IL 2506-1639.

The cable IMOTPEV-S 4C x 24 AWG (0.25SQ) (color: black) 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 |
|--|-----------------------|
| $v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2$ | 1 |
| $v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$ | 1 |
| $v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$ | 1 |
| Overall result | 1 |

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

IL 2006-1160
Report No. first document

Stuttgart, July 3, 2020
Place, date of first document issued

IL 2506-1639
Report No. current document

Stuttgart, July 4, 2025
Place, current date

on behalf of 
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification

This document only
applies to the named
product in its original state
and is valid for a period of
5 years from the current
date the 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.



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