



Fraunhofer

TESTED[®] DEVICE

LS Cable & System Ltd.
20C Flat Robot Cable
Report No. **LS 1611-854**

Particle Emission

Qualification Certificate

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

LS Cable & System Ltd.
Gumi-si, Gyeongbuk, Korea

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number LS 1611-854.

When operated under the specified test conditions, the 20C Flat Robot Cable (color: black) is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class 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
$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	2
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	2
Overall result	2

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

Stuttgart, November 14, 2016

on behalf of 
Frank Bürger, Project manager Fraunhofer IPA

DUPLICATE

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years.
Further information:
www.tested-device.com