



Fraunhofer

TESTED[®] DEVICE

LAPP OLFLEX &
UNITRONIC Clean Room
Report No. LA 0604-347

DUPLIKAT

IPA Qualification Certificate

This is to certify that the products mentioned below manufactured by the company

LAPP KOREA CO., LTD.

7F, SongWon Bldg.,
92-2 Yuljun JangAn
SuWonCity, KyungGi
440-824 Korea

has been awarded an IPA Qualification Seal bearing the report number LA 0604-347.

The following cable systems operated at the velocities listed below are suitable for use in cleanrooms fulfilling the corresponding air cleanliness specifications in accordance with ISO 14644-1.

Model Description	Air Cleanliness Class according to ISO 14644-1		
	at $v_1 = 0.6$ m/s	at $v_2 = 1.2$ m/s	at $v_3 = 2.0$ m/s
OLFLEX & UNITRONIC Clean Room 12 x 0,25	ISO Class 3	ISO Class 3	ISO Class 5
OLFLEX & UNITRONIC Clean Room 3 x 0,14	ISO Class 3	ISO Class 3	ISO Class 4

Detailed information and parameters of the test environment can be found in the IPA Test Report compiled by the Fraunhofer Society.

Certified on 21st April 2006.

The duration of the validity of this certificate is unlimited. For further information visit our website at <http://www.ipa-qualification.com>

Stuttgart, Germany, 21st April 2006

Signature



Fraunhofer Institut
Produktionstechnik und
Automatisierung