



Fraunhofer

TESTED[®] DEVICE

LS Cable Ltd.
Power & Control/Signal Cable
Report No. LS 0605-349

DUPLIKAT

IPA Qualification Certificate

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

LS Cable Ltd.

555 Hogye-dong, Dongan-gu
Anyang-si, Gyeonggi-do
431-831, Korea

have been awarded an IPA Qualification Seal bearing the report number LS 0605-349.

The below mentioned cables operated at the velocities and descriptions listed below are suitable for use in cleanrooms fulfilling the corresponding air cleanliness specifications according to ISO 14644-1 respectively acc. to US Fed. Std. 209 E.

Type	Air Cleanliness Class acc. to ISO 14644-1/ US Fed. Std. 209 E		
	v ₁ =0.5 m/s	v ₂ =1.2m/s	v ₃ =2.0 m/s
Power & Control Cable (ROIREU (-SB) Type)	ISO Class 3 US Class 1	ISO Class 3 US Class 1	ISO Class 4 US Class 10
Signal Cable (ROIREU (-SB) Type)	ISO Class 3 US Class 1	ISO Class 3 US Class 1	ISO Class 4 US Class 10
Power & Control Cable (ROFHU (-SB) Type)	ISO Class 3 US Class 1	ISO Class 4 US Class 10	ISO Class 4 US Class 10
Signal Cable (ROFHU (-SB) Type)	ISO Class 3 US Class 1	ISO Class 3 US Class 1	ISO Class 3 US Class 1

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

Certified on 09th June 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, 09th June 2006


Signature

