CERTIFICATE OF COMPLIANCE

 Certificate Number
 20181018-E328445

 Report Reference
 E328445-20131107

 Issue Date
 2018-OCTOBER-18

Issued to: ES&S SOLUTIONS GMBH

GEWERBERING 2

41751 VIERSEN, GERMANY

This is to certify that representative samples of

WIRING, PRINTED - COMPONENT

Multilayer printed wiring boards, STM-1, JJ-02, STM-2,

STM-3

Single layer printed wiring boards, STD-1, JJ-03, STD-2, JJ-

01

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 796, Printed-Wiring Boards

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: May be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

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Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/



CERTIFICATE OF COMPLIANCE

Certificate Number 20181018-E328445

Report Reference E328445-20090901

Issue Date 2018-OCTOBER-18

Issued to: ES&S SOLUTIONS GMBH

GEWERBERING 2

41751 VIERSEN, GERMANY

This is to certify that Wiring, Printed - Component

representative samples of Single layer printed wiring boards, FY-2

Multilayer printed wiring boards, FY-4

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 796, Printed-Wiring Boards

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

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Look for the UL Certification Mark on the product.

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Bruce Mahranholz Director North American Cortification

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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CERTIFICATE OF COMPLIANCE

 Certificate Number
 20181018-E328445

 Report Reference
 E328445-20090608

 Issue Date
 2018-OCTOBER-18

Issued to: ES&S SOLUTIONS GMBH

GEWERBERING 2

41751 VIERSEN, GERMANY

This is to certify that Wiring, Printed - Component representative samples of Single layer printed wiring bo

Single layer printed wiring boards, XML-2

Mass laminated (multilayered) printed wiring boards,

flammability only Recognition, XML-4

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 796, Printed Wiring Boards

Additional Information: See the UL Online Certifications Directory at

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Look for the UL Certification Mark on the product.

Bruce Mahrenholz Director North American Certification Pi

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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