CERTIFICATE OF COMPLIANCE

Certificate Number	20121023-E28476
Report Reference	E28476-20061109
Issue Date	2012-OCTOBER-23
Issued to:	TYCO ELECTRONICS CORP 2100 PAXTON ST HARRISBURG PA 17111
This is to certify that representative samples of	COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS SATA Backplane Receptacles; Slimline SATA Plugs and Receptacles; Micro SATA Plugs., Connector Series Serial ATA (SATA), Cat. No. 1827335, A-FREE SATA Connectors. Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 1977, Component Connectors for Use in Data, Signal, Control and Power Applications.
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Recognized Component Mark should be considered as being covered by UL's Recognition 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 Recognized Component Mark on the product.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

DESCRIPTION

PRODUCT COVERED:

USR Component SATA Backplane Receptacles; Slimline SATA Plugs and Receptacles; Micro SATA Plugs., Connector Series Serial ATA (SATA), Cat. No. **1827335, A-FREE SATA Connectors.**

RATINGS:

Model No.	Voltage, V	Current, A
1827335	250	1.5

GENERAL:

These devices are multi-pole connectors intended for factory assembly on printed wiring boards where the acceptability of combinations is determined by Underwriters Laboratories Inc. The devices are identified as follows:

USR indicates investigation to United States Standards, UL 1977.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - In order to be judged acceptable as a component of electrical equipment, the following conditions should be met.

Interruption of Current

* 1. Series Serial ATA (SATA), SATA Backplane Receptacles, Slimline SATA Plugs and Receptacles, Micro SATA Plugs **and A-FREE SATA Connectors** have not been tested for interrupting the flow of current by connecting or disconnecting the mating connector. These devices should be used only where they will not interrupt the flow of current.

Current-Carrying Capability and Current Ratings

* 2. Series Serial ATA (SATA), SATA Backplane Receptacles, Slimline SATA Plugs and Receptacles, Micro SATA Plugs **and A-FREE SATA Connectors** have not been subjected to the Temperature test and as a result do not have an assigned current rating. The device's current-carrying capability is to be reviewed in the end-use by measuring temperatures on the connector housing and/or terminals when current is flowing through the connector under conditions of normal use.

* 3. **Cat.** No. 1827335 has been subjected to the Temperature test and has been assigned a current rating

Spacings and Voltage Ratings

* 4. Dielectric-Voltage-Withstand testing was performed on **Cat. No.** 1827335 only.

5. These devices have live parts that may be exposed to user contact when the connector is energized. They are intended for use only within a complete enclosure.

Insulating Materials

6. The insulating materials used in these devices comply with the requirements of UL 1977.

* 7. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a maximum temperature of 130°C.

8. Mold Stress Relief testing was conducted at a temperature of 140°C.

Terminations

9. The printed-wiring-board terminals have not been evaluated for mechanical secureness. The construction of the connector is to be reviewed when it is assembled to the particular printed wiring board used in the end-use application.

Mounting

10. The suitability of the mounting means shall be determined in the end use.

11. The placement of these devices within the equipment enclosure should be such that spacings between the live parts and the equipment are suitable for the particular application.

12. The electrical and mechanical contact between the connector and the printed wiring board is to be judged in the end-use equipment.

13. The need to provide additional mounting hardware to mechanically secure the connector to the printed wiring board is to be determined in the end-use.