

CERTIFICATE OF COMPLIANCE

Certificate Number 20120918-E28476
Report Reference E28476-20100303
Issue Date 2012-SEPTEMBER-18

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 B-B Jumper Connector, Screw Down Cat. No. 2106154-1

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.
CAN/CSA C22.2 No. 182.3-M1987, Special Use Attachment Plugs, Receptacles and Connectors.
UL746C Standard for Polymeric Materials – Use in Electrical Equipment Evaluations.

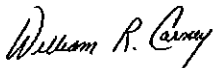
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. 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. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada:  and 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.

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, Director, North American Certification Programs

UL LLC

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component **B-B Jumper Connector, Screw Down** Cat. No. 2106154-1

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.

CNR indicates investigation to Canadian National Standards, C22.2 No. 182.3.

RATINGS: 250V, 5 Amps

Screw Torque - 3 in lbs

Flammability - V0

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S 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 - The following are among the considerations to be made when evaluating the device in the end-use product.

Interruption of Current

1. These devices are not suitable for interrupting the flow of current by connecting or disconnecting the mating connector.

2. Current-Carrying Capability and Current Ratings

These devices have been subjected to the Temperature test with the rated currents and maximum temperature rise values tabulated below.

| Cat Nos. | Current, A | Maximum Temperature Rise, °C |
|-----------|------------|------------------------------|
| 2106154-1 | 5.0 | 10.5 |

Insulating Materials

3. The insulating materials used in these devices comply with the direct support requirements of UL 746C, the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations.

4. Cat. No. 2106154-1 was evaluated for Temperature and Dielectric Withstand testing using a #6 mounting screw, torqued at 3 in-lbs. The mounting screw is not provided with the connector. The suitability of the mounting means shall be an end product consideration.

5. These devices employ insulating materials with properties as tabulated below at the minimum thickness employed in the connector housing, the suitability of the insulating materials based on the documented values shall be determined in the end-use application. Please note the values specified in the table when multiple materials are indicated represent the minimum values for the group of materials.

| Cat. No. | Insulating Material (#) | Measured Minimum Thickness | Flame Class | HWI | HAI | RTI Elec | RTI Str | Max Operating Temp, °C |
|------------|-------------------------|----------------------------|-------------|-----|-----|----------|---------|------------------------|
| *2106154-1 | A | 0.7 mm | V-0 | 3 | 4 | 120 | 140 | 120 |

(#) - Code for Insulating Body Material.

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- A. Tyco Raw Material 703197
1. Dielectric strength (kV/mm): 31
 2. CTI: 2