

CERTIFICATE OF COMPLIANCE

Certificate Number 20180914-E28476
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Issued to: TYCO Electronics Corp
2901 Fulling Mill Rd
Middletown PA 17057


This is to certify that representative samples of COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS
Series PC 104 and PC 104 Plus

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. 182.3-16, Special Use Attachment Plugs, Receptacles and Connectors

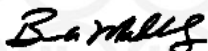
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

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.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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DESCRIPTION

PRODUCT COVERED:

USR/CNR, Component - Connectors, Series PC 104 and PC 104 Plus.

GENERAL:

These devices are multi-pole connectors employing contacts of the pin type or solder termination type for use in electrical equipment where the acceptability of the combinations is determined by Underwriters Laboratories Inc.

* USR - Indicates investigation to United States Standards UL **1977, Second Edition.**

CNR - Indicates investigation to Canadian National Standards C22.2 No. 182.3-M1987.

ENGINEERING CONSIDERATION (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in 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.

1. These devices should be used only where they will not interrupt the current.

2. These devices have been subjected to the Temperature Test described in UL 1977, The Standard for Component Connectors for Use in Data, Signal, Control and Power Applications, with the rated currents and max temperature rise values tabulated below. The conductors terminated by the device and other associated components are to be reviewed in the end-use to determine whether the temperature rise from the connector exceeds their max operating temperature ratings.

<u>Cat. Nos.</u>	<u>Current (A)</u>	<u>Max Temperature Rise</u>
PC/104	4 mA	0.02°C
PC/104 Plus	4 mA	0.02°C

3. These devices may be used at potentials not exceeding 250 V dc based on Dielectric-Voltage-Withstand testing conducted at 1500 V dc in accordance with UL 1977, the Standard for Component Connectors for Use in Data, Signal, Control and Power Applications.

4. The operating temperature of these devices shall not exceed **the electrical RTI of the material**. The Mold Stress Relief **test** was conducted at a **10°C above the electrical RTI of the material**.

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

6. 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.