

DESCRIPTION

PRODUCT COVERED:

USR/CNR Component Connector, Series Poke in LED Lighting Connector.

GENERAL:

These devices are two pole connectors intended for factory assembly on printed wiring boards where the acceptability of combinations is determined by Underwriters Laboratories Inc.

* USR indicates investigation to United States Standards, UL 1977.

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

Rating: 250 V AC/DC, **2 A (18 AWG)**, 4 A (22 AWG) or 5 A (20 or 18 AWG)

Flammability - V-0

Disconnecting Use - see Sec Gen for required marking

TECHNICAL 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. These devices 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. When subjected to the Temperature test, these devices exhibited a maximum temperature of 43.6°C and a maximum rise of 28.6°C when wired with 22 AWG conductors and carrying a current of 4 A; a maximum temperature of 31.8 °C and a maximum rise of 6.8 °C when wired with pre-bonded stranded 20 AWG conductors and carrying rated current of 5 A; a maximum temperature of 32.9 °C and a maximum rise of 7.9 °C when wired with solid 20 AWG conductors and carrying rated current of 5 A; and a maximum temperature of 30.2°C and a maximum rise of 5.2°C when wired with stranded 18 AWG conductors and carrying rated current of 5 A. 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 maximum operating temperature ratings.

Spacings and Voltage Ratings

3. These devices may be used at potentials not exceeding 250 V AC or DC based on Dielectric Voltage-Withstand testing conducted at 1500 V AC.

Insulating Materials

4. The insulating materials used in these devices comply with the requirements of UL 1977 and CSA C22.2 No. 182.3.
5. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. Materials employed are based on material RTI electrical rating of 240°C and RTI Mech str rating of 240°C.

Terminations

6. These devices employ terminals that are not suitable for field wiring.
7. 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.

The spring action contact terminals have not been evaluated for mechanical secureness. Their suitability shall be determined in the end use. Particular care should be used when using these terminals with non Pre-bonded stranded conductors to ensure that stray strands beneath the connector do not create a reduction in spacings between adjacent terminals.

Mounting

8. The suitability of the mounting means shall be determined in the end use.
9. 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.
10. The electrical and mechanical contact between the connector and the printed wiring board is to be judged in the end-use equipment.
11. Cat. Nos. 1954785-1, 2008994-1, 2008995-1, 2008996-1 are provide with a silicone gel sealant to prevent oxidation. The suitability of the silicone gel sealant oxidation prevention properties shall be judged in the end-use equipment