

DESCRIPTION

PRODUCT COVERED:

USR, CNR Advanced TCA Zone 1 Power Connector, Cat. Nos. 1766500, 1888803, 1766502, 1766501, 1888804, 1766503, all models followed by -1 or -2.

GENERAL:

These devices are multi-pole connectors intended for factory assembly to 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: **60 Vdc**, 20 A Power Contacts
1 A Signal Contacts

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

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.
2. These devices have been subjected to the Temperature test with the rated currents and maximum 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 maximum operating temperature ratings.

Cat Nos.	Current, A	Maximum Temperature Rise, °C
All (with all power and signal contacts loaded)	20 (power contacts) 1 (signal Contacts)	27.63
All (with all signal contacts loaded and only power contacts 28 and 33 loaded)	30 (power contacts) 1 (signal contacts)	14.36

- *3. Dielectric-Voltage-Withstand testing has been conducted between adjacent poles at a potential of **1584 V dc**.
4. 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.
5. 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.)
6. Mold Stress Relief testing was conducted at a temperature of 140°C.
7. The suitability of the mounting means shall be determined in the end use.
8. 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.
9. The electrical and mechanical contact between the connector and the printed wiring board is to be judged in the end-use equipment.
10. 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.