

DESCRIPTION

PRODUCT COVERED:

USR/CNR Component Connector, Unitized **MATE-N-LOK Series**.

GENERAL:

These devices are multi-pole, multi-circuit connectors intended for factory assembly 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, Second Edition.

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

Electrical Ratings:

Circuit	Current (A)	Voltage (V)
2 pos.	7	600
3 pos.	36 (outer poles) 7 (middle pole)	600
4 pos. (inline)	7	600
4 pos. (2 x 2)	6	600

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. 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. 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.

Circuit	Current, A	Maximum Temperature Rise, °C
2 pos.	7	28.9
3 pos.	36 (outer poles) 7 (middle pole)	20.5
4 pos. (inline)	7	25.8
4 pos. (2 x 2)	6	17.3

Spacings and Voltage Ratings

3. These devices may be used at potentials not exceeding 600 V based on Dielectric Voltage-Withstand testing conducted at 2200 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. These materials may be used interchangeably at a maximum temperature of 85°C.

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

Terminations

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

8. The crimp contacts have been previously evaluated for mechanical secureness in reports dated 1974-05-09, 1976-07-15 and 1980-12-02.

Mounting

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

10. 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.