

## DESCRIPTION

## PRODUCT COVERED:

\* USR/CNR Component Connector, **AMP-DUAC Universal Power Series**. Cat Nos. 1934142-1 and 1934144-1.

## GENERAL:

These devices are multi-pole connectors employing contacts of the crimp type intended for factory assembly where the acceptability of this combination is to be determined by Underwriters Laboratories Inc. The devices are identified as follows:

USR indicates investigation to United States Standards, UL 1977, First Edition.

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

## Ratings:

Cat No.		No. of Poles	Wire AWG	USR Current (A)	CNR Current (A)	Voltage (V)
1934142-1	Power	36	18	5	5	600 V
1934144-1	Signal	12	18	100 mA	100 mA	600 V
1934142-1	Power	48	18	7	4.25	600 V
1934142-1	Power	24	18	8	6	600 V
1934144-1	Signal	24	18	100 mA	100 mA	600 V
1934142-1	Power	1	18	13	13	600 V
1934144-1	Signal	47	18	100 mA	100 mA	600 V

## 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. 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.	Circuit	Wire Size (AWG)	Current A	Max. Temperature, °C	Max. Temperature Rise, °C
USR, CNR	1934142-1	Power	18	5	50.2	25.2
	1934144-1	Signal		100 mA	48.4	23.4
USR	1934142-1	Power	18	7	84.4	
	1934144-1					
CNR	1934142-1	Power	18	4.25		30
	1934144-1					
USR	1934142-1	Power	18	8	65.9	
	1934144-1	Signal		100 mA	63.3	
CNR	1934142-1	Power	18	6		25.6
	1934144-1	Signal		100 mA		24.5
USR, CNR	1934142-1	Power	18	13	48.3	24.8
	1934144-1	Signal		100 mA	32.6	19.6

## 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 DC.

## 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 120°C and RTI Mech str rating of 140°C.

## Terminations

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

## Mounting

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 factory assembled contacts have been investigated for the following wire ranges and maximum tensile forces.

Cat. No.	Contact Cat. No.	Wire Size (AWG)	Tensile Force, lbf
1934142-1	1934192-1	18	20
1934144-1	1934190-1	18	20