

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, Series Multi-Beam XL, Cat. Nos. 292499-1 and 6450123-3; 292498-2 and 1-6450330-4, 1600636-1 and 5-6450130-0, 1600236-4 and 6450540-1.

GENERAL:

These devices are multi-pole connectors intended for factory assembly on stranded copper conductors and 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, CSA C22.2 No. 182.3.

RATINGS:

Cat. No.	Ratings
*292499-1 and 6450123-3	420 V AC/DC, 28 A
292498-2 and 1-6450330-4	300 V AC/DC, 29 A, 8-10 AWG Copper Stranded
1600636-1 and 5-6450130-0	300 V AC/DC, 23 A, 8 AWG Copper Stranded
1600236-4 and 6450540-1	300 V AC/DC, 33 A, 8-10 AWG Copper Stranded

Flammability - V0

Disconnecting Use - see Sec Gen for required marking

ENGINEERING CONSIDERATIONS (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.

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 a Temperature Test with the rated current and maximum temperature tabulated below, adjusted to a 25°C ambient for USR and maximum temperature rise for CNR.

Cat Nos.		Current, A	Maximum Temperature, °C	Maximum Temp. Rise, °C
292499-1, 6450123-3	USR	28	53.6	
	CNR	28		28.6
292498-2, 1-6450330-4	USR	29	45.7	
	CNR	29		20.7
1600636-1, 5-6450130-0	USR	23	39.7	
	CNR	23		14.7
1600236-4, 6450540-1	USR	33	47.1	
	CNR	33		22.1

Spacings and Voltage Ratings

3. These devices **except for 292499-1 and 6450123-3** may be used at potentials not exceeding 300 V based on Dielectric Voltage-Withstand testing conducted at 1600 V ac. **292499-1 and 6450123-3 may be used not exceeding 420 V based on Dielectric Voltage-Withstand testing conducted at 1840 V ac.**

Insulating Materials

4. These devices employ insulating materials with properties as tabulated below at the minimum thickness employed in the connector housing, the suitability of the insulating materials based on the documented values shall be determined in the end-use application. Please note the values specified in the table when multiple materials are indicated represent the minimum values for the group of materials.

Cat. No.	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	RTI Str	Max Operating Temp, °C
292499-1	A	0.85 mm	V0	0	0	140	120	120
6450123-3	A	0.80 mm	V0	0	0	140	120	120
292498-2	A	0.75 mm	V0	0	0	140	120	120
1-6450330-4	A	0.80 mm	V0	0	0	140	120	120
1600636-1	A	0.75 mm	V0	0	0	140	120	120
5-6450130-0	A	0.80 mm	V0	0	0	140	120	120
1600236-4	A	0.9 mm	V0	0	0	140	120	120
6450540-1	A	0.6 mm	-	-	-	140	120	120

(#) - Code for Insulating Body Material.

A. R/M No. 704968 (color: Black).

1. Dielectric strength (kV/mm): -

2. CTI: 1

Terminations

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

<u>Part No.</u>	<u>Wire Range (AWG)</u>	<u>Tensile Force (lb)</u>
1600961	12	35
1600960-x	8-10	45 lb/ 40 lb
1761385-x	8-10	45 lb/ 40 lb

6. 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.

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.