

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, Series Blower Motor Connector, Cat. Nos. 1743490-1, 1743492-1 and 2005542-1.

GENERAL:

These devices are multi-pole connectors intended for factory assembly on Nos. 22, 24, 26 AWG stranded copper conductors and 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.

ELECTRICAL RATINGS:

Cat. Nos.	Wire Size (AWG)	Current (A)	Voltage (Vac)
1743490-1, 1743492-1, 2005542-1	22	2.5	250
1743490-1, 1743492-1, 2005542-1	24	2.2	250
1743490-1, 1743492-1, 2005542-1	26	2.0	250

Flammability - Refer to Insulating Materials portion of report

Disconnecting Use - see Sec Gen for required marking

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 - The following are among the considerations to be made when evaluating the device in the end-use product.

Interruption of Current

1. These devices are not suitable for interrupting the flow of current by connecting or disconnecting the mating connector.

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.

Cat Nos.		Wire Size (AWG)	Current, A	Maximum Temperature, °C	Maximum Temperature Rise, °C
1743490-1, 1743492-1	USR, CNR	22	2.5	31.5	6.5
1743490-1, 2005542-1	USR, CNR	22	2.5	31.9	6.9
1743490-1, 1743492-1	USR, CNR	24	2.2	31.9	8.8
1743490-1, 2005542-1	USR, CNR	24	2.2	36.5	11.5
1743490-1, 1743492-1	USR, CNR	26	2.0	35.7	10.7
1743490-1, 2005542-1	USR, CNR	26	2.0	34.0	9.0

3. These devices have been evaluated at potentials of 250 V based on the results of a Dielectric Withstand Test performed at 1500 Vac.

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
1743490-1	A	0.6 mm	V-0	0	0	130	120	75
1743492-1	B	0.48 mm	(+)	4(++)	0(++)	75(++)	75(++)	75
2005542-1	C	0.35 mm	(+)	-(++)	-(++)	75(++)	75(++)	75

(#) - Code for Insulating Body Material.

(+): Thickness is less than the minimum Recognized material thickness, as such no assigned Flame class. UL746C 12mm Flammability test conducted.

(++): These PLCs are based on the minimum Recognized material thickness.