DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, Cat. Nos. 2173861-1, 2173861-2.

GENERAL:

These devices are multi-pole connectors intended for factory assembly on printed wiring boards where the acceptability of combinations is determined by UL LLC. 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:

Cat. Nos.		Voltage Vdc			Ampere (A)			Conductor Sizes, AWG [Sol/Str]
		POWER	SIGNAL		POWER	SIGNAL		
2173861-1		250	5		25	-		-
2173861-2		250	-		25	-		-

[X] Flammability - [V0]

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 UL LLC.

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 suitable for interrupting the flow of current by connecting or disconnecting the mating connector.

2. These devices have been tested for 250 make-and-break cycles of interrupting a current of 25 A at 48Vdc by connecting and disconnecting the mating connector.

Current-Carrying Capability and Current Ratings

3. These devices have been subjected to the Temperature test with the rated currents and maximum temperature rise values tabulated below.

Cat Nos.	Current, A		Maximum Temperature, °C		Maximum Temperature Rise, °C	
	POWER	SIGNAL	POWER	SIGNAL	POWER	SIGNAL
2173861-1 (represents 2173861-2) %	25	-	31.7	-	6.7	-
2173861-1 (represents 2173861-2) %%	**25**	**-**	**40**	**-**	**15**	**-**

% - Tested with mating connector (bus bar), Cat. No. 2173869-1.
%% - Tested with mating connector (bus bar), Cat. No. 2212191-1.

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	Max Operating Temp, ^{0}C
2173861-1, 2173861-2	A	0.8 mm	V-0	0	0	140	140

(#) - Code for Insulating Body Material.

A. Tyco Raw Material No. 704968.
1. Dielectric strength (kV/mm): -
2. CTI: 1

Miscellaneous

5. The enclosure of the device has live parts that may be exposed to user contact when the connector is energized. The device is suitable for use only within an acceptable enclosure.

6. These devices have been assessed with bus bar **Part Nos**. 2173869-1 **and 2212191-1** as the mating half connectors. The bus **bars are** only being used as a mating connector **for testing purposes** and not considered a Recognized mating connector in this report. Used for testing purposes only.

7. The Overload Test sequence have been conducted at a voltage of 48Ddc for current interrupting portion of the sequence.