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Project 4788681850

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REPORT

on

COMPONENT - Connectors for Use in Data, Signal, Control and Power Applications

Tyco Electronics Corp
MIDDLETOWN, PA, US

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector -

Series *-2834313-*, Cat. Nos. 2834313-1, 1-2834313-1, 2-2834313-1, 3-2834313-1, 4-2834313-1, 2834313-2, 1-2834313-2, 2-2834313-2, 3-2834313-2, 4-2834313-2, 5-2834313-2, 6-2834313-2, 7-2834313-2, 8-2834313-2, 2834313-3, 1-2834313-3, 2-2834313-3, 3-2834313-3.

Series *-2834334-*, Cat. Nos. 2834334-1, 1-2834334-1, 2-2834334, 3-2834334-1, 4-2834334-1, 2834334-2, 1-2834334-2, 2-2834334-2, 3-2834334-2, 4-2834334-2, 5-2834334-2, 6-2834334-2, 7-2834334-2, 8-2834334-2, 2834334-3, 1-2834334-3, 2-2834334-3, 3-2834334-3.

Series *-2834331-*, Cat. Nos. 2834331-1, 1-2834331-1, 2834331-2, 1-2834331-2.

GENERAL:

These devices are multiple connectors intended for factory assembly on copper wire sizes as indicated in Ratings table below 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:

Series	Voltage Vac/dc	Ampere (A)	Conductor Sizes, AWG
-2834313-	320	6	18
-2834334-		5	20-22
-2834331-			

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 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 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 and recorded temperature (adjusted to 25°C ambient) values tabulated below:

Cat Nos.	Wire Size, AWG	Current, A	Maximum Temperature °C		Represent Cat. Nos.
			Rise	Recorded Temperature	
2834334-3	18	6	17.5	42.5	*-2834313-*
	22	5	21.9	46.9	*-2834334-*
					-2834331-

Insulating Materials

3. 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.

series	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, °C
-2834313-	A or B	0.45 mm	V-0	4	0	130	120
-2834334-	A or B	0.45 mm	V-0	4	0	130	120
-2834331-	A or B	0.45 mm	V-0	4	0	130	120

Note:

(#) - Code for Insulating Body Material.

- A. Tyco RM 1573543-2.
 1. Dielectric strength (kV/mm): -
 2. CTI: 0

- B. Tyco RM 1573878-1.
1. Dielectric strength (kV/mm): 39
 2. CTI: 4

Miscellaneous

4. 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.