

File E28476
Project 12CA27585

July 19, 2012

REPORT

on

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

Tyco Electronics Corp
Harrisburg, PA

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, High Power Inverted Thru Board Connectors, Cat. Nos. 2154829-1, -2, -3.

GENERAL:

These devices are multi-pole headers intended to mate with Applicants Economy Power II connectors, Cat. Nos. 2132813-2, 2132781-3 and -4 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, V	Ampere (A)	
2154829-1, -2, -3	600	7	

Flammability - V0

NOMENCLATURE: The Cat Nos. are designated as follows:

Example: $\frac{2154829}{I}$ $\frac{-1}{II}$

I: - Main Cat. No. - 2154829

II: - Number of Poles

-1 = 2 Pole

-2 = 3 Pole

-3 = 4 Pole

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.
2. These devices have been subjected to the Temperature test while mated with Cat. No. 2132781-4 crimped on 22 AWG conductors at the rated current and maximum temperature rise values tabulated below.

Cat Nos.	Current, A	Maximum Temperature Rise, °C
2154829-1, -2, -3	7	25.7

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.

Cat. No.	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, °C
2154829-1, -2, -3	A	0.75 mm	V-0	2	4	240	240

(#) - Code for Insulating Body Material.

- A. Tyco Raw Material 1573878-1
 1. Dielectric strength (kV/mm): 39
 2. CTI: 4

4. These devices have only been assessed for use with specific types of connectors as noted below. They have not been assessed to operate with any other similar devices from any other manufacturer.

Cat Nos.	Mating Connector Cat Nos.	Mating Connector Manufacturer
2154829-1	2132813-2	Tyco Electronics Corp.
2154829-2	2132781-3	
2154829-3	2132781-4	