

File E28476
Project 12CA55853

November 7, 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, Series Mini-SAS HD Receptacle, Cat. Nos. 2149027-1, 2198484-1, 2149966-1, 2214869-1, 2198483-1, 2149375-1, 2214870-1, **2180736-1, 2227580-1, 2227580-2, 2227581-1, 2227582-1, 2227595-1, 2227640-1, 2227642-1.**

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:

Type 0 - No electrical ratings

 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 not been subjected to the Temperature test and as a result do not have an assigned current rating. The device's current carrying capability is to be reviewed in the end-use by measuring temperatures on the connector housing and/or terminals when current is flowing through the connector under conditions of normal use.

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
Mini-SAS HD Receptacle Housing	A	0.2 mm	(+)	--(++)	--(++)	240(++)		130
Mini-SAS HD Receptacle Contact Overmold	B	0.6 mm	(+)	--(++)	--(++)	130(++)		130

(#) - Code for Insulating Body Material.

(+) - No assigned Flammability rating since the min thickness is less than the min Recognized material thickness.

(++) - These PLCs are based on the min Recognized material thickness.

- A. TYCO RM No. 704105
 - 1. Dielectric strength (kV/mm): 21
 - 2. CTI: 3
- B. TYCO RM No. 704949
 - 1. Dielectric strength (kV/mm): --
 - 2. CTI: --