File E28476
Project 12ME02104

January 25, 2012

REPORT

on

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

TYCO ELECTRONICS CORP
HARRISBURG, PA

Recognized Company: TYCO ELECTRONICS CORP

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, Series zQSFP+, Cat. No. 1551920.

USR, CNR Component Connector, Series QSFP_DD, Cat. Nos. 2318579-1 and 2318579-2.

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: No electrical ratings assigned

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, ^{0}C
zQSFP+	A	0.2 mm	V-0	4	4	130	130
QSFP_DD	**B**	**0.2 mm**	**V-0**	**4**	**0**	**130**	**130**

(#) - Code for Insulating Body Material.

A. Tyco RM No. 1[redacted]
1. Dielectric[redacted] (kV/mm): 39
2. CTI: 4

B. Tyco RM No. [redacted]
1. Dielectri[redacted]h (kV/mm): 39
2. CTI: 4

Miscellaneous

4. The suitability of this device for use in EMI applications has not been evaluated and shall be an end product consideration.