

File E28476
Project 03ME12173

2003-09-16

REPORT

on

COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL
AND POWER APPLICATIONS

Tyco Electronics Corp.
Harrisburg, PA

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DESCRIPTION

PRODUCT COVERED:

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USR Component Connectors - Series Z-PACK 2.5 mm HM-Zd Connectors.

GENERAL:

These devices are multi-pole receptacle and header connectors employing contacts of the press-fit or solder termination type for use with printed circuit boards or cable to PCB where the acceptability of the combinations is determined by Underwriters Laboratories Inc.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - In order to be judged acceptable as a component of electrical equipment, the following conditions should be met.

1. These devices should be used only where they will not interrupt the current.
2. These devices have been investigated for a current of 0.7 Amperes carried by each pole with a maximum temperature of 42.2 degrees C.
3. The suitability of the mounting means shall be determined in the end use.
4. The acceptability of any grounding connection shall be determined by the end product use engineer.
5. The electrical and mechanical suitability of the wiring terminals shall be determined in the end use.
6. The placement of these devices within the equipment enclosure should be such that spacings between the live parts and the equipment are suitable for the particular application.

7. The suitability of the min spacings between live parts of opposite polarity including adjacent poles and between live parts and exposed dead metal parts shall be determined in the end use. Dielectric testing has not been performed.

8. The electrical and mechanical contact between the connector and the printed circuit board is to be judged in the end-use equipment.

9. The suitability of the insulating materials used in the molded bodies shall be judged in the end-use equipment.

10. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a maximum temperature of 130°C.