

DESCRIPTION

PRODUCT COVERED:

AMP ULTREX Interconnection System. Refer to Page 2 for specific part numbers.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

General Character and Use - These devices are multi-pole, printed wiring board-to-wire connectors, consisting of a spring header, mounting either vertically or horizontally to the board and a receptacle housing engaging crimp-type, snap-in contacts. They are for use in 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 in applications where they will not interrupt current.

2. The current, carried by each pole, shall be determined in the end-use equipment.

3. Mold Stress Tests were not conducted on the connectors employing the following molding compounds. Their acceptability with regard to body temperatures should be judged in the end product. In no case should the body temperatures exceed the following temperature index.

Note: The following materials may be used interchangeably at 75°C.

|                  |                   |             |
|------------------|-------------------|-------------|
| Molding Material | Temperature Index | <u>RM #</u> |
|                  | 70°C              | 703048      |

4. Mold Stress Tests were conducted on the connectors employing the following molding compounds. The maximum temperature for the housing molding material should not exceed the temperatures indicated below:

| * | Molding Material | Manufacturer | Max Temp. °C | <u>RM #</u> |
|---|------------------|--------------|--------------|-------------|
| * |                  |              | 130          | 702897      |
| * |                  |              | 130          |             |
|   |                  |              | 105          | 702747      |
|   |                  |              | 120          | 703672      |

5. The insulating materials used for these devices and the related max temperature indices are tabulated on Page 1 of this report. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a max temperature of 75°C.

6. The placement of these devices within the appliance enclosure should be such that spacings between live parts and the end-use equipment are suitable for the application.

7. The replacement contacts are for factory wiring only on the wire sizes specified on Page 2.

8. Min spacings of 3/64 in through air or over surface, between uninsulated live parts of opposite polarity and between uninsulated live part and dead-metal.

9. The devices, employing contacts assembled on No. 30 AWG or smaller, should be used only in applications where the conductors are not subjected to any external pull force.

10. The following contacts and wire sizes, should be used where they will not exceed the following pull force.

| <u>Cat. No.</u> | <u>Wire Size</u> | <u>Tensile Force (lb)</u> |
|-----------------|------------------|---------------------------|
| 173654-1        | 22               | 8                         |
| 173654-1        | 26               | 7                         |
| 173653-1        | 26               | 10                        |
| 173653-1        | 30               | 4.5                       |

J.T.

C.K.