

File E28476  
Project 73ME2135

Issued: April 23, 1973  
Revised: May 20, 2008

REPORT

on

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

\*                                **Tyco Electronics**  
                                  Harrisburg Pennsylvania

## DESCRIPTION

## PRODUCT COVERED:

**USR** - Component Connector - Timer Connector Series.

**USR/CNR** - Component Connector - Timer Connector Cat. Nos. 521152 and 521163.

**USR** - indicates investigation to UL 1977.

**CNR** - indicates investigation to CSA C22.2 No. 182.3

## GENERAL:

These devices are multipole connectors employing factory assembled crimp contacts for use within electrical appliance enclosures.

## 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 not been tested for current-carrying capability.
3. The suitability of the mounting means shall be determined in the end use.
4. The electrical and mechanical suitability of the wiring terminals shall be determined in the end use.
5. The placement of these devices within the appliance enclosure should be such that spacings between the live parts and the appliance are suitable for the particular application.
6. The adjacent poles may be used at potentials not exceeding 250 V based on the spacings requirements of Paragraph 11.1 of UL 1977, Second Edition. Dielectric testing has not been performed.
7. The factory assembled crimp contacts are intended for use on the following stranded copper wire ranges:

Cat. No.	Wire Range (AWG)
61603	No. 14-20
61604	2 No. 18 or 2 No. 16
61668	No. 18-20 or 2 No. 16
61992	No. 18-22

62058  
62063  
770150  
770642  
770192

No. 16-20  
No. 14-20  
No. 14-20  
No. 14-20  
No. 14-20

Cat. No.	Wire Range (AWG)
63365	No. 10-14
63627	No. 14-20
63870	No. 14-18
63871	No. 22-26
63889	No. 18-24
1217029	No. 18-24
63943	No. 18-22
1217039	No. 18-22
1217071	No. 16, 18
1217072	No. 22-26
1217073	No. 14-18
1217076	No. 16, 18
1217077	No. 18-22
1217110	No. 14-18
1217715-1	No. 16-20
1217716	No. 16, 18
1544133-1	No. 10-14

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

9. 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 65°C.

10. The factory assembled contacts have been investigated for the following wire ranges and max tensile forces.

Part No.	Wire Range (AWG)	Tensile Force (lbs)
770642	20	10
770642	18-14	20
63943	18	20
63943	22	8
63365	10-14	20

11. Housing 521152 and 521163 are intended to be constructed out of