CERTIFICATE OF COMPLIANCE

Certificate Number	20131122-E28476
Report Reference	E28476-19740115
Issue Date	2013-NOVEMBER-22
Issued to:	TYCO ELECTRONICS CORP 2901 FULLING MILL RD MIDDLETOWN PA 17057-3170
This is to certify that representative samples of	COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS .062 & .093 Commercial Pin and Socket Connector Series. Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 1977, Component Connectors for Use in Data, Signal, Control and Power Applications
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada: and the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Recognized Component Mark on the product.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

DESCRIPTION

PRODUCT COVERED:

Component Connectors - .062 & **.093** Commercial Pin and Socket Connector Series.

GENERAL:

These devices are single and multipole connectors employing contacts of the solder and crimp termination type for use with discrete wire.

The following Cat. Nos. may be identified as follows:

Cat. No.	Type	Wire Range (AWG)
350343	Socket	20 - 24
350850	Socket	20 - 24
350415	Socket	20 - 14
350416	Pin	20 - 14
350417	Socket	22 - 18
350418	Pin	22 - 18
350628	Socket	24 - 20
350629	Pin	24 - 20
640392	Socket	30 - 24
640391	Pin	30 - 24
770259	Pin	20 - 14
770263	Socket	20 - 14
	Socket	18 - 14
	Pin	18 - 14
61012-1	Socket	18 - 14
42868-1	Socket	12

The contacts are factory assembled on wire leads and mounted within multipole housings.

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. The exception is Cat. Nos. 770450-1 and 770451-1 with contacts, Cat. Nos. 770385-1 and 770383-1 crimped to dual wires of size 18 AWG, which has been investigated for a current of 10 A carried by each pole with a maximum temperature rise of 13.9°C.

3. The suitability of the mounting means shall be determined in the end use.

4. 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.

5. The adjacent poles may be used at potentials not exceeding 250 V except for those part numbers tabulated below which may be used at potentials not exceeding 600 V based on the spacing requirements of Par. 11.1 of UL 1977. Dielectric testing has not been performed.

770065	770269	770337	770364	770425	770771
770066	770276	770338	770365	770450	770783
770068	770329	770339	770372	770451	770784
770069	770330	770360	770373	770452	770785
770266	770336	770361	770424	770453	770810

6. Nonadjacent poles may be used at potentials not exceeding 600 V provided that the spacings requirements of Paragraph 11.1 of UL 1977 are met. Dielectric testing has not been performed.

7. The factory assembled contacts have been investigated for the following wire ranges (and max tensile forces):

Part No.	Wire Range (AWG)	(Tensile Force (lb))
350850	20	8
350343	20	8
350628	24-20	8
350629	24-20	8
640392	30	3
	28	6
	26	10
640391	30-24	
61012-1	18-14	20
42868-1	12	20
770383-1	(2) 18	20
770385-1	(2) 18	20

Note: - (#) Number in prentices indicates number of conductors.

8. The electrical and mechanical suitability of the crimp terminals on all other part numbers and wire sizes should be evaluated in the end use.

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 max temperature of 110°C for all models except 1586833-1 and 1586834-1. Models 1586833-1 and 1586834-1 are constructed of materials that may be used **interchangeably** at a max temperature of **130**°C.