

# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-L28476-17-71602991-5  
**Report Reference** E28476-19920617  
**Date** 10-Jun-2022

**Issued to:** TYCO Electronics Corp  
2901 Fulling Mill Rd Middletown, PA 17057  
United States

**This is to certify that  
representative samples of**

ECBT2 - Connectors for Use in Data, Signal, Control and  
Power Applications - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the  
component requirements in the Standard(s) indicated on  
this Certificate. UL Recognized components are incomplete  
in certain constructional features or restricted in  
performance capabilities and are intended for installation in  
complete equipment submitted for investigation to UL LLC.

**Standard(s) for Safety:** UL 1977, 3rd Ed., Issue Date: 2016-01-07, Revision Date:  
2020-11-17

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Bruce Mahrenholz, Director North American Certification Program

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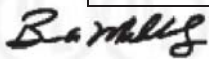


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<b>Model</b>	<b>Category Description</b>
1-770669-1	Connectors
1-770669-2	Connectors
1-770669-4	Connectors
1-770669-5	Connectors
1-776163-1	Connectors
1-776163-2	Connectors
1-776163-4	Connectors
1-776163-5	Connectors
1-776163-6	Connectors
1-776180-1	Connectors
1-776180-2	Connectors
1-776180-4	Connectors
1-776180-5	Connectors
770520	Connectors
770520-1	Connectors
770520-3	Connectors
770669	Connectors
770669-1	Connectors
770669-2	Connectors
770669-3	Connectors
770669-4	Connectors
770669-5	Connectors
770670	Connectors
770670-1	Connectors
770678	Connectors
770678-1	Connectors
770680	Connectors
770680-1	Connectors
770680-2	Connectors
770680-3	Connectors
770680-4	Connectors
770680-5	Connectors
770854	Connectors
770854-1	Connectors
770854-3	Connectors
776087	AMPSEAL Connector Series
776163	Connectors
776163-1	Connectors
776163-2	Connectors



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776200	AMPSEAL Connector Series
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776275	AMPSEAL Connector Series
776276	AMPSEAL Connector Series
776279	AMPSEAL Connector Series
776280	AMPSEAL Connector Series
776519	Connectors
1103599	Connectors
1534856	Connectors
1740313	Connectors
2371882	AMPSEAL Connector Series
2371883	AMPSEAL Connector Series
2371884	AMPSEAL Connector Series
2371885	AMPSEAL Connector Series
776519-1	Connectors
<b>19920617, AMP Seal Connector Series</b>	<b>AMP Seal Connectors</b>



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-L28476-1149-71602991-2  
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*B. Mahlen*

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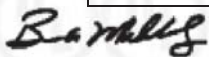


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1-776180-5	Connectors
770520	Connectors
770520-1	Connectors
770520-3	Connectors
770669	Connectors
770669-1	Connectors
770669-2	Connectors
770669-3	Connectors
770669-4	Connectors
770669-5	Connectors
770670	Connectors
770670-1	Connectors
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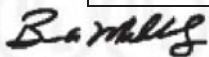


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770520-1	Connectors
770520-3	Connectors
770669	Connectors
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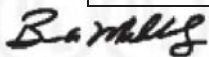


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1-776180-2	Connectors
1-776180-4	Connectors
1-776180-5	Connectors
770520	Connectors
770520-1	Connectors
770520-3	Connectors
770669	Connectors
770669-1	Connectors
770669-2	Connectors
770669-3	Connectors
770669-4	Connectors
770669-5	Connectors
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770670-1	Connectors
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770680	Connectors
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770854	Connectors
770854-1	Connectors
770854-3	Connectors
776163	Connectors



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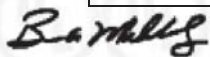


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File E28476  
Project 92ME14652

Issued: June 17, 1992

Revised: January 12, 2010

REPORT

on

\* COMPONENT - Connectors For Use In Data, Signal,  
Control and Power Applications

Amp Incorporated  
Harrisburg, PA

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File E28476            Vol. 7            Sec. 54            Page 1            Issued: 1992-06-17  
                         Vol. 111          Sec. 15            Revised: 2021-10-19  
                         Vol. 149          Sec. 1  
                         Vol. 167          Sec. 1  
                         Vol. 168          Sec. 1  
   and Report

D E S C R I P T I O N

PRODUCT COVERED:

Component Connector - "AMPSEAL" Connector Series.

Cat Nos. 770669, 1-770669-5, 1-770669-4, 1-770669-2, 1-770669-1, 770669-5, 770669-4, 770669-3, 770669-2, 770669-1, 770680, 770680-5, 770680-4, 770680-3, 770680-2, 770680-1, 770670, 770670-1, 770678, 770678-1, 770520, 770520-3, 770520-1, 770854, 770854-3, 770854-1, 776163, 1-776163-6, 1-776163-5, 1-776163-4, 1-776163-2, 1-776163-1, 776163-5, 776163-4, 776163-2, 776163-1, 776164, 776164-6, 776164-5, 776164-4, 776164-2, 776164-1, 776519, 776519-1, 776180, 1-776180-5, 1-776180-4, 1-776180-2, 1-776180-1, 776180-5, 776180-4, 776180-2, 776180-1, 1740313, 1534856, 1103599.

GENERAL:

These devices are multi-pole connectors employing contacts of the crimp termination type for use in electrical equipment where the acceptability of the combinations is determined by Underwriters Laboratories Inc.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only with 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 acceptability of the grounding connection shall be determined by the end product use engineer.
5. 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.
6. The electrical and mechanical suitability of the wiring terminals shall be determined in the end use.
7. The suitability of the insulating materials used in the molded bodies shall be judged in the end-use equipment.

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8. The adjacent poles may be used at potentials not exceeding 250 V based on the spacings requirements of Paragraph 11.1 of UL 1977. Dielectric testing has not been performed.

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

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

<u>Part No.</u>	<u>Wire Range (AWG)</u>	<u>(Tensile Force (lb))</u>
770520-1 or 770854	16	20
770520-1 or 770854	20	8
770520-5	20/22	8/8
770520-6	22/24	8/6

\*11. "AMPSEAL" Connector Series have been evaluated to UL 50, the Standard for Enclosures for Electrical Equipment, Non-Environmental Considerations Twelfth Edition, and UL 50E, the Standard for Enclosures for Electrical Equipment, Environmental Considerations First Edition, for the environmental rating of UL Type 6. All of the appropriate tests associated with the UL Type 6 rating were completed and found to be compliant with the UL Type 6 rating. Any additions or changes in "AMPSEAL" Connector Series construction will require a reinvestigation of the UL Type 6 rating. **AMPSEAL Plug Reduced Seal Cat Nos. 2371882 (8pin), 2371883 (14pin), 2371884 (23pin), 2371885 (35pin) have not been evaluated for Type 6 ratings.**

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12. 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.

Cat. No.	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	RTI Str	Max Operating Temp, °C
*1740312-1 <b>Pin Housing, 23p</b> 1534857-1 <b>Pin Housing, 23p and 1103599 Header Assy, 35pin</b>	A	0.9 mm	V0	0	0	120	130	120
<b>Plug Housing</b>	B	0.6 mm	V0	3	4	120	140	120
<b>Plug Cap</b>	B	-	-	-	-	-	-	-
<b>Plug Wedge</b>	C	0.72 mm	V0	3	4	120	140	120
<b>Header</b>	D	4.0 mm	V0	0	0	130	140	120

(#) - Code for Insulating Body Material.

- A. TE Proprietary Information
  - 1. Dielectric strength (kV/mm): 19
  - 2. CTI: 0
- B. TE Proprietary Information
  - 1. Dielectric strength (kV/mm): 31
  - 2. CTI: 2
- C. TE Proprietary Information
  - 1. Dielectric strength (kV/mm): 31
  - 2. CTI: 2
- D. TE Proprietary Information
  - 1. Dielectric strength (kV/mm): 27
  - 2. CTI: 3

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\*13. Accessories (such as: sealed lugs, hardware, etc) has not been investigated and should be evaluated the end-use equipment.

**Model Nomenclature:**

Catalog Base Part Number	Catalog Description
776286	Plug, 8pin, Standard Seal
776273	Plug, 14pin, Standard Seal
770680	Plug, 23pin, Standard Seal
776164	Plug, 35pin, Standard Seal
2371882	Plug, 8pin, Reduced Seal
2371883	Plug, 14pin, Reduced Seal
2371884	Plug, 23pin, Reduced Seal
2371885	Plug, 35pin, Reduced Seal
776279	Header, 8pin, RA, No Seal
776280	Header, 8pin, RA, Seal
776275	Header, 8pin, ST, No Seal
776276	Header, 8pin, ST, Seal
776266	Header, 14pin, RA, No Seal
776267	Header, 14pin, RA, Seal
776261	Header, 14pin, ST, No Seal
776262	Header, 14pin, ST, Seal
770669	Header, 23pin, RA, No Seal
776087	Header, 23pin, RA, Seal
776200	Header, 23pin, ST, No Seal
776228	Header, 23pin, ST, Seal
776180	Header, 35pin, RA, No Seal
776163	Header, 35pin, RA, Seal
776230	Header, 35pin, ST, No Seal
776231	Header, 35pin, ST, Seal
1103599	Pin Header, 35pin
770520	Socket Terminal
776282	Locking Wedge, 8pin, (part of plug)
776269	Locking Wedge, 14pin, (part of plug)
770676	Locking Wedge, 23pin, (part of plug)
776168	Locking Wedge, 35pin, (part of plug)

**Note:**

1. Standard Seal Plug has Red Wedge Lock
2. Reduced Seal Plug has Yellow Wedge Lock