

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20171031-E28476  
**Report Reference** E28476-20171030  
**Issue Date** 2017-OCTOBER-31

**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  
Component Connector, Series AMP SUPERSEAL 1.5

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** See addendum page

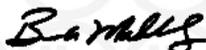
**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark 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.

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 Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/locations/>

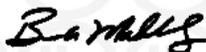


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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

UL 1977, Component Connectors for Use in Data, Signal, Control and Power Applications  
CAN/CSA C22.2 No. 182.3-16, Special Use Attachment Plugs, Receptacles, and Connectors  
UL 746A, Polymeric Materials - Short Term Property Evaluations  
UL 50E, Enclosures for Electrical Equipment, Environmental Considerations  
UL 746C, Polymeric Materials - Use in Electrical Equipment Evaluations  
IEC 60695-2-11, Fire Hazard Testing – Part 2-11: Glowing/Hot-wire Based Test Methods – Glow-wire Flammability Test Method for End-Products  
CSA-C22.2 No. 94, Enclosures for Electrical Equipment, Environmental Considerations



Bruce Mahrenholz, Director North American Certification Program

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## DESCRIPTION

## PRODUCT COVERED:

USR, CNR Component Connector, Series AMP SUPERSEAL 1.5

## GENERAL:

These devices are multi-pole connectors intended for factory assembly on copper wire sizes as indicated in Ratings table below where the acceptability of combinations is determined by UL LLC. The devices are identified as follows:

USR indicates investigation to United States Standards, UL 1977.

CNR indicates investigation to Canadian National Standards, C22.2 No. 182.3.

## RATINGS:

Cat. Nos.	Voltage Vac/Vdc	Ampere (A)	Conductor Sizes, AWG Str
1745082-1, 1745083-1	250	8	16
1745082-1, 1745083-1	250	8	18

Disconnecting Use - see Sec Gen for required marking

## TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC.

Conditions of Acceptability -The following are among the considerations to be made when evaluating the device in the end-use product.

## Interruption of Current

1. These devices are not suitable for interrupting the flow of current by connecting or disconnecting the mating connector.

## Current-Carrying Capability and Current Ratings

2. These devices have been subjected to the Temperature test with the rated currents and maximum temperature rise and recorded temperature (adjusted to 25°C ambient) values tabulated below:

## and Report

Cat Nos.	Wire Size, AWG	Current, A	Maximum Temperature °C	
			Rise	Recorded Temperature
1745082-1, 1745083-1	16	8	13.9	38.9
1745082-1, 1745083-1	18	8	15.8	40.8

3. These devices have been evaluated at potentials of 250 V based on the results of a Dielectric Voltage Withstand Test performed at 1500 Vac.

#### Insulating Materials

4. 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	Max Operating Temp, °C
1745082-1, 1745083-1	A	1.85 mm	V-2	0	0	120	120

Note:

(#) - Code for Insulating Body Material.

- A. RM# 1573322  
 1. Dielectric strength (kV/mm): 25  
 2. CTI: 2

5. These devices have been evaluated for a Glow Wire Test in accordance with the requirements in IEC 60695-2-11.

#### Terminations

6. These devices are not suitable for use other than on No. 16 and 18 AWG wire.

#### Mating Connectors

7. These devices have only been assessed for use with specific types of connectors within their product family. They have not been assessed to operate with any other similar devices from any other manufacturer.

8. These devices have been evaluated for a Type 6P environmental rating when in the mated condition in accordance with the requirements UL 50E.