## CERTIFICATE OF COMPLIANCE

Certificate Number 20161003-E28476

Report Reference E28476-20160726

Issue Date 2016-OCTOBER-03

Issued to: TYCO ELECTRONICS CORP

2901 FULLING MILL RD, MIDDLETOWN PA 17057-3170

This is to certify that COMPO representative samples of SIGNAL

COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS

See Addendum Page

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 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.

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Bruce Mahrenholz Director North Amer

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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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.

Models:

USR, Component Connector, Series AMP Superseal 1.0



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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File E28476 Project 4787497776

July 29, 2016

REPORT

On

> Tyco Electronics Corp Middletown, PA

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and Report

DESCRIPTION

PRODUCT COVERED:

USR, Component Connector, Series AMP Superseal 1.0

GENERAL:

These devices are multi-pole connectors intended for factory assembly on copper wire and printed wiring boards 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.

Disconnecting Use - see Sec Gen for required marking

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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 not been subjected to the Temperature test and as a result do not have an assigned current rating. The device's current carrying capability is to be reviewed in the end-use by measuring temperatures on the connector housing and/or terminals when current is flowing through the connector under conditions of normal use.

## Insulating Materials

3. 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, <sup>0</sup> C
*3-1437290-7, 3-1437290-8, 1473416-1.	А	0.5 mm	-	-	-	120	110
(See ILL. 6	С	0.8 mm	-	_	-	120	110
for more detail)	D	0.8 mm	1	-	1	120	110
6437288-6, 6473418-1, 6473418-2	В	0.5 mm	ı	_	1	110	110

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## Note:

- (#) Code for Insulating Body Material.
- (+): Thickness is less than the minimum Recognized material thickness, as such no assigned Flame class.
- (++): These PLCs are based on the minimum Recognized material thickness.
- A. Tyco RM # 1573568
  - 1. Dielectric strength (kV/mm): 33
  - 2. CTI: 2
- B. Tyco RM # 1573553-3
  - 1. Dielectric strength (kV/mm): 25
  - 2. CTI: 3
- C. Tyco RM # 1573825
  - 1. Dielectric strength (kV/mm): -
  - 2. CTI: 3
- D. Tyco RM # 1573069
  - 1. Dielectric strength (kV/mm): 29
  - 2. CTI: 3