CERTIFICATE OF COMPLIANCE

Certificate Number	20171221-E28476
Report Reference	E28476-20171220
Issue Date	2017-DECEMBER-21
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 Series DRB Connectors 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.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

File E28476
Project 4788059478

December 20, 2017

REPORT

on

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

Tyco Electronics Corp
Middletown, PA 17057

Recognized Company: Tyco Electronics Corp

DESCRIPTION

PRODUCT COVERED:

USR Component Connector, Series DRB Connectors.

GENERAL:

These devices are multi-pole connectors intended for factory assembly on copper wire sizes as indicated in the 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.

The Series DRB connectors consist of Cat. Nos. DRB, followed by 12- or 16-, followed by 48, 60, 102 or 128, followed by P or S, followed by A, B, C or D, followed by E or NE with Secondary Wedgelock Cat. Nos. WB-, followed by 48, 60 or 64, followed by P or S, followed by A, B, C or D. Secondary Wedgelock part numbers WB-, followed by 51, followed by P or S, followed by A, B, C or D, followed by L or R.

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 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.

Part	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, °C
Housing, Flange	A	1.22 mm	(+)	(++) 0	(++) 0	120	120
Wedge Lock	B	1.14 mm	HB	-	-	140	120
	C	**1.14 mm**	**V-0**	**3**	**0**	**140**	**120**

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. TE Proprietary Information
   1. Dielectric strength (kV/mm): -
   2. CTI: 4

B. TE Proprietary Information
   1. Dielectric strength (kV/mm): -
   2. CTI: -

C. TE Proprietary Information
   1. Dielectric strength (kV/mm): 23
   2. CTI: 2