CERTIFICATE OF COMPLIANCE

Certificate Number	20170517-E28476
Report Reference	E28476-20170516
Issue Date	2017-MAY-17
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 Cat. Nos. 969469-2 and 927669-2 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 CAN/CSA C22.2 No. 182.3-16, Special Use Attachment Plugs, Receptacles and Connectors
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

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, Cat. Nos. 969469-2 and 927669-2

GENERAL:

These devices are multi-pole hybrid connectors intended for factory assembly 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.

ELECTRICAL RATINGS:

Cat. Nos.	Voltage Vac/Vdc	Ampere (A)	Conductor Sizes, AWG / mm^2 Str
969469-2 (Circuit 1 w/ Tab 969032-4)	250	15.8	14 AWG
969469-2 (Circuit 2 w/ Tab 969031-2)	250	0.5	1.0 mm^2
969469-2 (Circuit 3 w/ Tab 969031-2)	250	3.6	1.0 mm^2
927669-2 (Circuit 1 w/ Contact 964203-5)	250	15.8	14 AWG
927669-2 (Circuit 2 w/ Contact 928820-1)	250	0.5	20 AWG
927669-2 (Circuit 3 w/ Contact 928820-1)	250	3.6	20 AWG
969469-2 (Circuit 1 w/ Tab 969032-4)	250	10	14 AWG
969469-2 (Circuit 2 w/ Tab 969031-2)	250	0.5	1.0 mm^2
969469-2 (Circuit 3 w/ Tab 969031-2)	250	3.6	1.0 mm^2
927669-2 (Circuit 1 w/ Contact 1862006-5)	250	10	16 AWG
927669-2 (Circuit 2 w/ Contact 928820-1)	250	0.5	20 AWG
927669-2 (Circuit 3 w/ Contact 928820-1)	250	3.6	20 AWG

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:

Cat Nos.	Current, A	Maximum Temperature °C	
		Rise	Recorded Temperature
969469-2 (Tab 969032-4) Mated with 927669-2 (Contact 964203-5)	15.8	29.4	54.4
969469-2 (Tab 969031-2) Mated with 927669-2 (Contact 928820-1)	0.5	19.2	44.2
969469-2 (Tab 969031-2) Mated with 927669-2 (Contact 928820-1)	3.6	26.5	51.5
969469-2 (Tab 969032-4) Mated with 927669-2 (Contact 1862006-5)	10	22.4	47.4
969469-2 (Tab 969031-2) Mated with 927669-2 (Contact 928820-1)	0.5	17.5	42.5
969469-2 (Tab 969031-2 Mated with 927669-2 (Contact 928820-1)	3.6	15.7	40.7

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, ^{0}C
927669-2	A	0.4 mm	V-2	4	0	130	130
969469-2	A	0.5 mm	V-2	4	0	130	130

Note:

(#) – Code for Insulating Body Material.

A. 1. Dielectric strength (kV/mm): -
2. CTI: 2

Mating Connectors

5. 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.