CERTIFICATE OF COMPLIANCE

Certificate Number	20140514-E28476
Report Reference	E28476-20110215
Issue Date	2014-MAY-14
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 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 Recognized Component Mark should be considered as being covered by UL's Recognition 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 Recognized Component Mark on the product.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number	20140514-E28476
Report Reference	E28476-20110215
Issue Date	2014-MAY-14

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

Component Connector, Series Model(s) DTF13 – followed by 2, 3, 4, 6, 08 or 12, followed by P. DTF15 – followed by 12, indicating number of terminals, followed by P, may be followed by alpha/numeric suffixes denoting minor variations.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

File E28476
Service Request: 1181364

February 15, 2011

REPORT

on

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

TYCO ELECTRONICS CORP
MIDDLETOWN, PA

DESCRIPTION

PRODUCT COVERED:

*USR **Component Connector, Series Model(s) DTF13 – followed by 2, 3, 4, 6, 08 or 12, followed by P.**
DTF15 – followed by 12, indicating number of terminals, followed by P, may be followed by alpha/numeric suffixes denoting minor variations.

GENERAL:

These devices are multi-pole connectors intended for factory assembly printed wiring boards where the acceptability of combinations is determined by Underwriters Laboratories Inc. The devices are identified as follows:

USR indicates investigation to United States Standards, UL 1977.

RATINGS: 250V ac/dc, 13A

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 Underwriters Laboratories Inc.

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 values tabulated below. The male connectors were mated with R/C (ECBT2) Cat. No. DT06-12S with 20 AWG conductors by Deutsch for the test.

Series	Current	Maximum Temperature °C
DTF	13Adc	112.2

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.

Series	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, ^{0}C
DTF	A	1.45 mm	V-0	0	0	140	125

(#) – Code for Insulating Body Material.

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

NOMENCLATURE:

EXAMPLE:

DTF	13	-	6	P	-	
I	II		III	IV	V	VI

I. Designates Series Prefix - DTF

II . Type Enclosure
13 = 90° Right Angle
15 = Straight

III. Number of Contacts
(2, 3, 4, 6, **08**, or 12)

IV. Indicates Contact Style
P = Pin

V. Polarizing Position (If Applicable)

VI. Special Modifications