

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

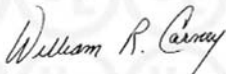
Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

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, Director, North American Certification Programs
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 www.ul.com/contactus

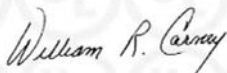


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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

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, Director, North American Certification Programs
UL LLC

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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

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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, °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