

File E28476
Service Request: 1181364

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REPORT

on

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

TYCO ELECTRONICS CORP
MIDDLETOWN, PA

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DESCRIPTION

PRODUCT COVERED:

* USR Component Connector, Series DTCE04-1- or 06-1-, followed by 4, 8 or 12, followed by P or S. May be followed by alpha/numeric suffixes denoting minor variations..

GENERAL:

These devices are multi-pole connectors intended for factory assembly on Nos. 14, 16 AWG stranded copper conductors 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, Second Edition.

RATINGS:

No current or voltage

Flammability - V-0

Disconnecting Use - see Sec Gen for required marking

NOMENCLATURE:

DTCE 06 - 1 4 S - ***
I II III IV V VI

I - Designates Deutsch DTCE Series.

II - Indicates Style.

04 - Receptacle

06 - Plug

III - Indicates Single Terminal.

IV - Indicates Contact Size.

4 - Size 4

8 - Size 8

12 - Size 12

V - Indicates Contact Type.

S - Socket (receptacle)

P - Pin (inlet)

VI - Special Modifications.

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 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. The insulating materials used in these devices comply with the direct support and enclosure requirements of UL 746C, the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations.

4. The flame class rating of the insulating materials used in the connector housing is V-0.

6. 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	Manufacturer	Flame Class	HWI	HAI	RTI Elec	RTI Str	Max Operating Temp, °C
Housing	TE Proprietary Information		V-0	0	0	120	65	65
Weld Cap			V-0	0	0	120	65	65
Housing			V-0	2	4	170	170	65
Housing			V-0	3	0	140	140	65
Wedge			-	4	2	130	140	65

7. These devices have been evaluated for a 20 mm Flame Test per applicant request. The suitability of the insulating materials shall be determined in the end-use application.

Terminations

The following crimp contacts have been evaluated for the wire sizes as tabulated below:

Stamped and Formed Type -

Pin/Contact	Wire Size, AWG	Force, lbf
1062-14-0122	16	20
1060-14-0122	16	20
1062-14-0122	14	20
1060-14-0122	14	20

Solid Type -

Pin/Contact	Wire Size, AWG	Force, lbf
4060-006-04141 / 4062-005-04141	6	20
4060-005-04141 / 4062-006-04141	4	20
4060-004-08141 / 4062-003-08141	10	20
4060-003-08141 / 4062-004-08141	8	20
4060-002-12141 / 4062-002-12141	12, 14	20