

Project 04ME13097

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REPORT

on

COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL
AND POWER APPLICATIONS

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Tyco Electronics **Corp.**

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Middletown, PA

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D E S C R I P T I O NPRODUCT COVERED:

Component Connector, Series Gas Valve.

GENERAL:

These devices are multi-pole connectors intended for factory assembly where the acceptability of combinations is determined by Underwriters Laboratories Inc.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE 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 - In order to be judged acceptable as a component of electrical equipment, the following conditions should be met.

Interruption of Current

1. These devices have not been tested for interrupting the flow of current by connecting or disconnecting the mating connector. These devices should be used only where they will not interrupt the flow of current.

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.

Spacings and Voltage Ratings

3. These devices may be used at potentials not exceeding 250 V based on the minimum 3/64 in. (1.2 mm) spacings required by UL 1977.

4. Dielectric-Voltage-Withstand testing has not been performed.

Insulating Materials

5. The insulating materials used in these devices comply with the requirements of UL 1977.

6. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a maximum temperature of 85°C.

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7. 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.

Tyco Raw Material #	Cat. No.	Insulating Material (#)	Measured Minimum Thickness	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, °C
1573672-2	1-1743216-1	A	0.6 mm	V0	4	3	130	130
705028		B		V2	--	--	130	130
703883		C		--	4	0	110	85
2136700	2-1743216-1	D		V0	0	0	130	130
1573672-2	1-1743217-1	A		V0	4	3	130	130
705028		B		V2	--	--	130	130
703883		C		--	4	0	110	85
2136700	2-1743217-1	D		V0	0	0	130	130

(#) - Code for Insulating Body Material.

- A. Raw Material No. 1573672-2
 1. Dielectric strength (kV/mm): -
 2. CTI: 0
- B. Raw Material No. 705028
 1. Dielectric strength (kV/mm): 23
 2. CTI: 1
- C. Raw Material No. 703883
 1. Dielectric strength (kV/mm): 24
 2. CTI: 0
- D. **Raw Material No. 2136700**
 1. **Dielectric strength (kV/mm): 17**
 2. **CTI: 2**

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Terminations

- 8. These devices employ terminals that are not suitable for field wiring.

- 9. The factory-assembled contacts have been investigated for the following wire ranges and maximum tensile forces.

Part No.	Wire Range, AWG	Tensile Force, lb
1217039	18	20
	22	8

Mounting

- 10. The suitability of the mounting means shall be determined in the end use.