

File E28476
Project 99ME37131

August 19, 1999

REPORT

on

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

AMP Incorporated
Harrisburg, PA

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5. Cat. No. 1123823, mated with 1123824 has been investigated for a current of 5.0 A carried by each pole, when using 22 AWG wire, with a maximum temperature rise of 12.2°C.

6. Cat. No. 1123823, mated with 1123824 has been investigated for a current of 6.0 A carried by each pole, when using 20 AWG wire, with a maximum temperature rise of 12.2°C.

7. Cat. No. 1123823, mated with 1123824 has been investigated for a current of 8.0 A carried by each pole, when using 18 AWG wire, with a maximum temperature rise of 15.0°C.

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

9. The placement of these devices within the equipment enclosure should be such that spacings between the live parts and the equipment are suitable for the particular application.

10. The suitability of the minimum 2.6 mm (0.10 in) spacings between live parts of opposite polarity (including adjacent poles) and between live parts and exposed dead-metal parts shall be the end use.

11. The electrical and mechanical contact between the connector and the printed circuit board is to be judged in the end-use equipment.

12. The electrical and mechanical contact between the connector and the wire is to be judged in the end-use equipment.

13. The factory assembled contacts have been inspected for the following wire ranges and maximum tensile forces.

Part No.	Wire Range (AWG)	Tensile force (lb)
1123721	22, 20	8
1123721	18	20

14. The suitability of the insulating materials used in the molded bodies shall be judged in the end-use equipment.

15. The operating temperature of these devices should not exceed the temperature rating of the insulating materials. These materials may be used interchangeably at a maximum temperature of 95°C.

16. The Economy Power Connector Plugs (max 11 position) molded from RM No. 1573697, have not been evaluated for electrical ratings.

17. 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 No.	Insulating Material (#)	Flame Class	HWI	HAI	RTI, °C	Max Operating Temp, °C
Economy Power	A	V-0	4	0	130	130
Economy Power	B	V-0	3	0	140	140
Economy Power	C	V-0	4	0	130	130
Economy Power	D	V-0	5	1	95	95
Economy Power	E	V-2	4	0	130	130
Economy Power	F	V-0	4	0	140	140
Economy Power	G	V-2	3	0	130	130
Economy Power	H	V-0	4	1	130	130
Economy Power Header	I	V-0	0	0	140	140
Economy Power Plug housing	J	V-0	-	-	130	130
Economy Power Header	K	V-0	4	3	130	130

(#) - Code for Insulating Body Material.

- A. Tyco Raw Material P/N 1573206
 1. Dielectric strength (kV/mm): 28
 2. CTI: 0
- B. Tyco Raw Material P/N 704788
 1. Dielectric strength (kV/mm): 43
 2. CTI: 3
- C. Tyco Raw Material P/N 1573755
 1. Dielectric strength (kV/mm): 27
 2. CTI: 3
- D. Tyco Raw Material P/N 703550
 1. Dielectric strength (kV/mm): 31
 2. CTI: 0
- E. Tyco Raw Material P/N 705304
 1. Dielectric strength (kV/mm):
 2. CTI: 2

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- F. Tyco Raw Material P/N 1573697
 - 1. Dielectric strength (kV/mm):
 - 2. CTI: 2

- G. Tyco Raw Material P/N 1573161
 - 1. Dielectric strength (kV/mm):
 - 2. CTI: 2

- H. Tyco Raw Material P/N 2136278
 - 1. Dielectric strength (kV/mm): 25
 - 2. CTI: 0

- I. Tyco Raw Material P/N 2136263
 - 1. Dielectric strength (kV/mm): 6.3
 - 2. CTI: 1

- J. Tyco Raw Material P/N 703416
 - 1. Dielectric strength (kV/mm): 28
 - 2. CTI: 0

- K. Tyco Raw Material P/N 1573551**
 - 1. Dielectric strength (kV/mm): -**
 - 2. CTI: 2**