File E28476
Project 88ME13410

Issued: November 3, 1988
Revised: January 14, 2010

REPORT

On

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

Amp Inc.
Harrisburg, PA

DESCRIPTION

PRODUCT COVERED:

USR, CNR – Component Connectors, AMP Multifitting Mark II Series, AMP GERMANY MULTIFITTING SERIES CONNECTORS, Tab and Edge Connectors - Connectors in In-Line Mating Technology.

*USR, CNR – Component Connectors, AMP Multifitting Mark II Series, AMP GERMANY MULTIFITTING SERIES CONNECTORS, Tab and Edge Connectors - Connectors in In-Line Mating

USR, CNR – Component Connectors, Cat. Nos.2366308-3, 2295162-5, 2393854-X where X = 1,2 (corresponding to the number of poles).

*

GENERAL:

These devices are multi-pole connectors employing contacts of the crimp and insulation displacement termination type for use in electrical equipment where the acceptability of the combinations is determined by UL LLC. The devices are identified as follows:

USR – Products designated USR have been investigated using US requirements as noted in the Test Record.
CNR - Products designated CNR have been investigated using Canadian requirements as noted in the Test Record.

RATINGS:

No electrical **ratings.**

*

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in complete equipment where the acceptability of the combination is determined by UL LLC.

Conditions of Acceptability - In order to be judged acceptable as a component of electrical equipment, the following conditions should be met.

1. These devices should be used only where they will not interrupt the current.

2. These devices have not been tested for current-carrying capability.

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

4. The acceptability of the grounding connection shall be determined by the end product use engineer.

5. The electrical and mechanical suitability of the wiring terminals shall be determined in the end use.

6. 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.

7. The adjacent poles may be used at potentials not exceeding 600 V, and for the Edge connectors 250 V, based on the spacings requirements of Paragraph 11.1 of UL 1977. Dielectric testing has not been performed.

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

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

10. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials.

11. These connectors 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. Note the values specified in the table when multiple materials are indicated represent the minimum values for the group of materials.

Cat. No.	Insulating Material (#)	Measured Minimum Thickness (mm)	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, ^{0}C
828353-2, 828353-4, 828353-1	A	0.875	V-2	4	0	130	85
1241172, 1241170	B	0.875	V-2	4	0	130	85
1394355, 1394356	B	0.875	V-2	4	0	130	85
2309920, 2178661 except for 3-2178661-4, 2178271	B	0.875	V-2	4	0	130	85
1-828348-1	C	0.875	V-2	-	-	130	65
1534072, 1534073, 1534075, 1534077, 1534078, 1241171	D	0.875	V-2	4	0	130	130
1-1534072-0, 2-1534072-4, 2333613-4, 3-2178661-4	D	0.875	V-2	4	0	130	110

Cat. No.	Insulating Material (#)	Measured Minimum Thickness (mm)	Flame Class	HWI	HAI	RTI Elec	Max Operating Temp, 0C
964577	E	0.875	V-0	0	0	120	120
AMP Multifitting Mark II Series, Tab and Edge Connectors, (Max. 6 poles)	F	0.875	V-0	0	0	130	95
3-1534072-2, 3-1534072-3, 3-1534072-4, 3-1534072-5, 2366308-3, 2295162-2, 1-2295162-3, 2295162-5, 2393854-2, 2393854-1	G	0.875	V-0	4	0	120	120
X-2407711-Y, X-2407717-Y	H	0.32	V-0	4	0	130	130

(#) - Code for Insulating Body Material.

A. Tyco RM No. 704226.
1. Dielectric strength (kV/mm): 13
2. CTI: 0

B. Tyco RM No. 702641.
1. Dielectric strength (kV/mm): 13
2. CTI: 0

C. Tyco RM No. 704165.
1. Dielectric strength (kV/mm): --
2. CTI: --

D. Tyco RM No. 705304.
1. Dielectric strength (kV/mm): 7.8
2. CTI: 2

E. Tyco RM No. 703817.
1. Dielectric strength (kV/mm): 19
2. CTI: 0

F. Tyco RM No. 17066.
1. Dielectric strength (kV/mm): 26
2. CTI: 1

G. Tyco RM No. 2136403.
1. Dielectric strength (kV/mm): 28.08
2. CTI: 2

H. Tyco RM No. 2136597.
1. Dielectric strength (kV/mm): 13
2. CTI: 0