



**UNDERWRITERS LABORATORIES INC.**<sup>®</sup>  
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APP'S REPORT

*an independent, not-for-profit organization testing for public safety*

File E28476  
Project 89ME6949

December 1, 1989

REPORT

on

COMPONENT - RECEPTACLES FOR ATTACHMENT PLUGS AND PLUGS

AMP Inc.  
Harrisburg, PA

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Look For The  Listing or Classification Mark On The Product

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

Series AMP-CHAMP Series.

GENERAL:

These devices are multi-pole attachment plugs, receptacles, and related contacts intended to be factory assembled on insulated copper conductors or printed circuit board to connect a wire harness to a printed circuit board.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in 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.

1.        These devices should be used only where they will not interrupt current.
2.        These devices have not been tested for current-carrying capability.
3.        The suitability of the min 0.38 mm (0.015 in) spacings between live parts of opposite polarity (including adjacent poles) and between live parts and exposed dead metal parts shall be determined in the end use. Dielectric testing has not been performed.
4.        The placement of these devices within the equipment enclosure should be such that spacings between live parts and the equipment are suitable for the particular application.
5.        The electrical and mechanical contact between the connector and the printed wiring board is to be judged in the end-use equipment.
6.        The suitability of the mounting means shall be determined in the end use.

7. The electrical and mechanical suitability of the insulation-displacement terminals shall be determined in the end-use.

8. The devices described in this report have been investigated for use in telecommunication equipment meant for installation in environmental air spaces in accordance with Articles 300-22(c) and 800-3(d) of the National Electrical Code when the insulating material used in the connectors is Noryl 990.

9. The acceptability of the accessories such as latches, covers and strain reliefs that may be provided with these devices shall be determined in the end-use.

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

11. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a max temperature of 70°C.