

File E28476

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and ReportIssued: 7-7-66
Revised: 1-27-82D E S C R I P T I O NPRODUCT COVERED:

Component-receptacles for attachment plugs and plugs, G series.

GENERAL CHARACTER AND USE:

These devices are multi-pole attachment plugs and receptacles, factory assembled on insulated conductors for use within electrical equipment submitted to Underwriters Laboratories Inc. where the use has been investigated and found to satisfy the following conditions of acceptability.

ENGINEERING CONSIDERATIONS (NOT FOR INSPECTOR USE):

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

- 1) These devices should be used only where they will not interrupt dc current.
- 2) The current carried by each pole shall be judged under the requirements applicable to the electrical equipment in which the devices are used with respect to operating temperatures.
- 3) The max temperature on the phenolic or diallyl-phthalate module (contact support should not exceed 150°C. The max temperature on the nylon cable shield (see Fig. 4) should not exceed 105°C.
- 4) Except under the conditions expressed in Item 5, the potential shall not exceed 250 V between any two poles and between any pole and ground.
- 5) Voltages in excess of 250 V but not exceeding 600 V may be considered where the spacings between the metal housing and live parts and between live parts of opposite polarity measure at least 1/8 in. Type XII pins and contacts are always arranged to provide this min spacing.
- 6) The pins and contacts are to be used with the wire sizes specified as shown in the illustrations.
- 7) The suitability of wire and cable clamps which may be provided is to be judged for their effectiveness where necessary.

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8) The flexing characteristics of the neoprene nozzle described in Fig. 1 have not been investigated.

9) Type IV (Miniature "Coaxicon" contact) and Type Subminiature "Coaxicon" contacts are for low voltage and low current signal circuits considered to be nonhazardous and energy limiting, using a coaxial cable. Pins and contacts are treated as dead metal parts when measuring spacings. Their suitability has not been otherwise investigated since the electrical rating is beyond the scope of this Recognition.

10) The max temperature on the Profax 6323 cable shield (See Fig. 4) should not exceed 110°C.

* Marking - See Sec. Gen.