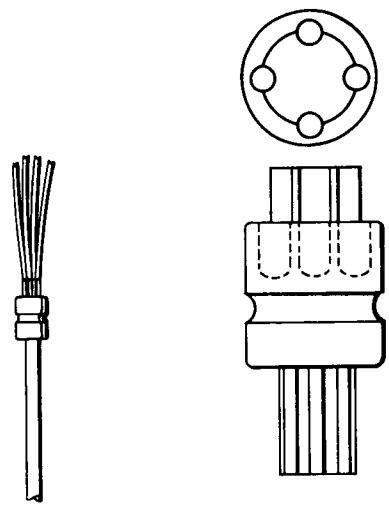
NASA TECH BRIEF

Feed-Through Has Polyterminal Feature



STANDARD TERMINAL POLYTERMINAL

The problem: Standard bifurcate terminals require a relatively large amount of solder for multiple connections, afford no visible inspection for connection integrity, and frequently suffer bond deterioration during changes to terminal connections.

The solution: A feed-through connector featuring individual solder pots in the polyterminal side.

How it's done: A polyterminal is designed as a feed-through to accommodate a single lead on one side and multiple leads on the other. The body of the polyterminal is splined for press fitting into a supporting member. The multiple terminal side is designed with from two to six individual solder pots that permit individual connection or disconnection of the separate conductors. Changes in circuitry are accomplished without disturbing other connections because they are not remelted. The individual solder pots provide good connections with relatively small amounts of solder and permit precise visual inspection of each bond.

Notes:

1. This design provides a friction mechanical bond to position the conductors prior to soldering—a valuable aid in assembly line work.
2. This polyterminal would improve any circuitry currently employing bifurcate terminals.
3. Inquiries concerning this innovation may be directed to:

   Technology Utilization Officer
   Marshall Space Flight Center
   Huntsville, Alabama, 35812
   Reference: B65-10057

Patent status: NASA encourages commercial use of this innovation. No patent action is contemplated.

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