Shrinkable Sleeve Eliminates Shielding Gap in RF Cable

The problem: To eliminate the RF shielding gap between an RF cable (with braided-metal RF shielding) and a multipin connector. In order to wire a shielded cable to the connector, it is necessary to remove one or more inches of the shielding. A grounding jumper across the gap between the terminated portion of the braided metal and connector, which is commonly used, does not provide adequate RF shielding across the gap.

The solution: An easily installed sleeve assembly between the connector and the terminated portion of the metal shielding.

How it’s done: The sleeve assembly consists of a short length of braided metal enclosed in a heat-shrinkable plastic sleeve. The assembly is slipped over the terminated end of the cable and the base of the connector. Heat is then applied to shrink the plastic sleeve and force the inner metal braiding tightly around the mating components, thus forming a continuous RF shield. The sleeve assembly can be easily removed when necessary.

Notes:
1. This device may be used at any section of an RF harness where a shielding gap exists.
2. Inquiries concerning this innovation may be directed to:
   Technology Utilization Officer
   Western Operations Office
   150 Pico Boulevard
   Santa Monica, California, 90406
   Reference: B65-10387

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

Source: General Dynamics/Convair Corporation under contract to Western Operations Office (WOO-207)

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