January 1967

Brief 67-10014

NASA TECH BRIEF

Abraded Cadmium-Plated Cable Connectors Repaired by Conversion Coating

The problem:

To develop a repair procedure for scratched and abraded cadmium-plated aluminum cable connectors while they are in assembly. Certain Saturn-IC aluminum cable connectors are cadmium plated and then passivated with a chromate conversion coating. The conversion coating is easily damaged during assembly operations and these parts must be replated or rejected. Replacing the connector is time consuming and costly. Also, while assembled, the connectors cannot be totally immersed as in the original preassembly process.

The solution:

A detailed procedure for the conversion coating repair of cadmium-plated cable connectors. Details for the preparation and maintenance of the passivating solutions, materials needed, application, and precautions are obtainable from:

Technology Utilization Officer
Marshall Space Flight Center
Huntsville, Alabama 35812
Reference: B67-10014

Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C. 20546.

Source: James R. Simmons
of the Boeing Co.
under contract to
Marshall Space Flight Center
(M-FS-1424)

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