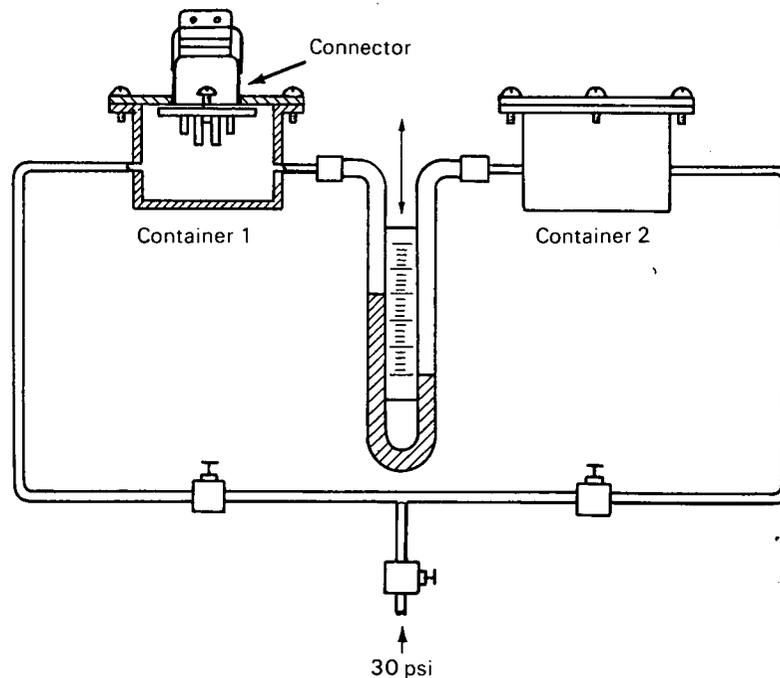


# NASA TECH BRIEF



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## Leakage Tester for Flat Conductor Cable Connector



A U-tube containing liquid has been used to indicate pressure differences for many years. However, the application of such a tube in a leakage tester for a flat conductor cable connector should be of interest to personnel engaged in flat conductor cable technology.

The drawing of the leakage tester exhibits a U-tube half-filled with water connecting container 1, on which the flat conductor cable connector to be tested is mounted, with container 2 of a symmetrical leak-proof system. This tube indicates the pressure difference. When the system is pressurized at 30 psi or about two atmospheres, one mm water level differ-

ence in the U-tube represents a pressure change of 1 in 20,000 or 0.005%. The amount of leakage over a set period of time can be calculated from the pressure and the gas volume difference indicated by the U-tube.

### Notes:

1. A schematic of a flat conductor cable connector consisting of a receptacle and plug(s) is found in NASA SP-5043, "Flat Conductor Cable Technology," (1968), for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402; price 40 cents.

(continued overleaf)

2. A compilation of tools, fixtures, and test equipment for flat conductor cables is reported in NASA SP-5924(01), "Tools, Fixtures, and Test Equipment for Flat Conductor Cables," (November, 1968), for sale by the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia; price \$1.00.
3. No further documentation is available. Inquiries may be directed to:

Technology Utilization Officer  
Marshall Space Flight Center  
Huntsville, Alabama 35812  
Reference: B69-10284

**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: Wilhelm Angele  
Marshall Space Flight Center  
(MFS-20427)

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