

November 1971

Brief 71-10416

# NASA TECH BRIEF

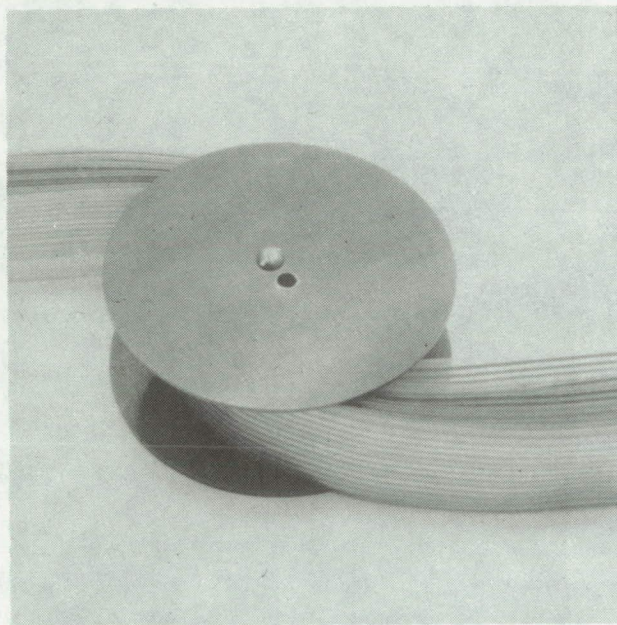
## *Marshall Space Flight Center*



NASA Tech Briefs announce new technology derived from the U.S. space program. They are issued to encourage commercial application. Tech Briefs are available on a subscription basis from the National Technical Information Service, Springfield, Virginia 22151. Requests for individual copies or questions relating to the Tech Brief program may be directed to the Technology Utilization Office, NASA, Code KT, Washington, D.C. 20546.

### Spool for Releasing and Retracting Flat Conductor Cable

A new spool assures proper unwinding and re-winding of FCC cables in pullout panels or drawers. Recoil action is obtained by heat-treating the cables while wound in a coil.



As many as 8 cables may be installed by removing one side of the spool and placing the cables edge-wise between the spindle and the spool assembly

screw. The side of the spool is replaced and the spool is positioned midway on the cable length. The cable ends are prepared and are attached to the sections to be interconnected.

It is advisable to use at least two spools laterally separated as far as the drawer permits and to provide a rod as a rotating axis for the coils to prevent flipping and entanglement of the cables during fast retraction.

Forming the cables for recoiling should be done by winding each FCC separately in bifilar fashion onto a small-diameter heat-treatment spool.

#### **Note:**

Requests for further information may be directed to:

Technology Utilization Officer  
Code A&TS-TU  
Marshall Space Flight Center  
Huntsville, Alabama 35812  
Reference: B71-10416

#### **Patent status:**

No patent action is contemplated by NASA.

Source: W. Angele and E.C. Campbell  
Marshall Space Flight Center  
(MFS-20234)

Category 08