

November 1967

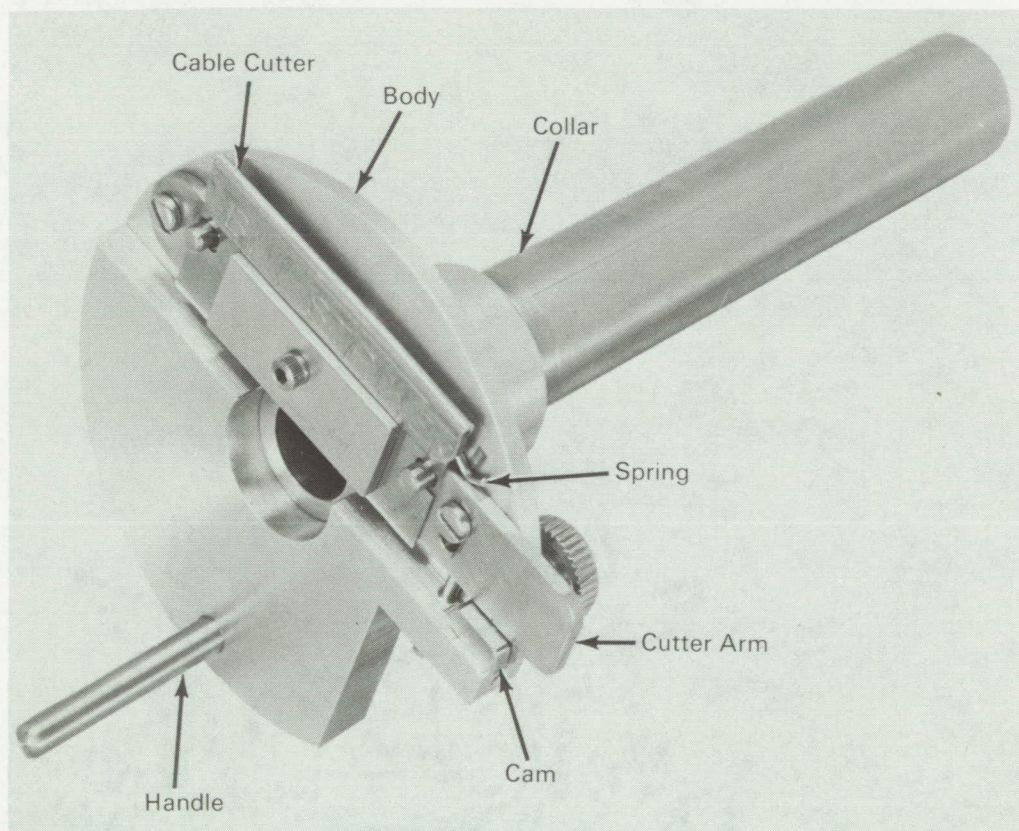
Brief 67-10419

NASA TECH BRIEF



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Coaxial Cable Stripping Device Facilitates RF Cabling Fabrication



The problem:

To develop a tool for cutting outer cable coverings to assure a clean, right angled shoulder for rf cable connector fabrication. Optimum performance of electronic equipment requires that the interconnecting rf cables have a low voltage standing wave ratio (VSWR). In addition, the interface between the cable and connector must be mechanically stable. The initial step in producing such an rf cable requires that the

outer cable covering be accurately cut perpendicular to the axis of the cable without scoring the strands of the coaxial cable shield. Prior methods were purely manual utilizing a knife edge on the outer jacket while the cable was rotated. This usually resulted in an uneven, non-square shoulder and often caused scoring or cutting of the strands of the coaxial shield. Under vibration or normal usage this scoring or uneven cut may cause breakage of the strands, a change in the

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mechanical interface, increased VSWR, or failure of the cable.

The solution:

A coaxial cable stripping device that enables the outer jacket of the cable to be accurately cut, trimmed, and removed with the application of minimal skill.

How it's done:

The coaxial cable to be trimmed is inserted through the collar so that the end protrudes beyond the cutter. The cutter arm is lowered against the outer jacket of the coaxial cable and is held there by the spring. The handle is used to rotate the cutter about the coaxial cable. The cable is then stripped and assembled to the connector.

Notes:

1. The cutter is adjustable in depth.
2. The body of the tool will accept various sized collars to accommodate different cable diameters.
3. Inquiries concerning this invention may be directed to:

Technology Utilization Officer
NASA Pasadena Office
4800 Oak Grove Drive
Pasadena, California 91103
Reference: B67-10419

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: Robert S. Hughes and Robert A. Tobias
Jet Propulsion Laboratory
(NPO-10315)