

ASSEMBLY FOR MOUNTING COMPONENTS TO FLEXIBLE CABLES

ABSTRACT

A support structure is attached to the front or back side of a flexible circuit by direct mounting to the flexible circuit flat ribbon cable (22) thereby providing a stress-free region of the cable (22) in which the flexible circuit electrical components (30, 32) can be mounted. The support structure comprises a flat ring that is attached to the cable by adhesive, soldering, or mechanical fastening. The flat ring mounts on one side of the flat ribbon cable (22) and encloses an area of the cable that is sufficiently large for the mounting of the flexible circuit electrical components. The flat ribbon cable (22) within the enclosed area is held flat and free from stress, even as the cable is handled. Thus, any components mounted within the enclosed area are not subjected to bending moments. The invention also can be incorporated into cable connectors, such as multi-pin connectors at the ends of cables.

Fig. 1.

This Sheet Has Been Replaced

