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# **MILITARY STANDARDIZATION HANDBOOK**

## **GUIDANCE FOR FLEXIBLE FLAT MULTICONDUCTOR CABLE (FLAT CONDUCTORS)**



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Guidance for Flexible Flat Multiconductor Cable

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1. This standardization handbook was developed by the Department of Defense with the assistance of the National Aeronautics and Space Administration in accordance with established procedure.

2. This publication was approved on 17 May 1972 for printing and inclusion in the military standardization handbook series.

3. This document provides basic and fundamental information on FCC electrical interconnecting harnesses and manufacturing practices. It will provide valuable information and guidance to personnel concerned with the preparation of specifications and the procurement of FCC electrical interconnecting harnesses. The handbook is not intended to be referenced in purchase specifications except for informational purposes, nor shall it supersede any specification requirements.

4. Every effort has been made to reflect the latest information on FCC electrical interconnecting harnesses and manufacturing practices. It is the intent to review this handbook periodically to insure its completeness and currency. Users of this document are encouraged to report any errors discovered and any recommendations for changes or inclusions to U.S. Army Electronics Command, Attn: AMSEL-~~RD~~-ZS, Ft. Monmouth, N.J. 07703.

## FOREWORD

The use of flat-conductor cable (FCC) offers technological and economical advantages. When the program managers and personnel responsible for the system design have properly evaluated the major FCC advantages of cost, space, and weight reductions, with increased system performance and reliability, the general use of FCC for both military and commercial programs will be assured. A number of independent surveys made by separate agencies have indicated that the use of FCC for interconnecting harnesses in all new design of aircraft, missiles, and ground equipment will be 40-55 percent by 1975.

FCC has seen limited use on many successful programs for a number of years. However, it is expected that, with its acceptance and general use, many new application techniques and hardware configurations will be developed.

New FCC technology has been reached. Even though the technology is still young, and much more is required for future development hardware and system application, the ultimate success of the system is assured.

This handbook is prepared for use by engineers, designers and technicians and is intended to serve as a text. The text presents pertinent information for hardware selecting, design, manufacture and quality control necessary for FCC interconnecting harness application.

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