INCH-POUND

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DETAIL SPECIFICATION

CONDUCTOR, ELECTRICAL, STRANDED, UNINSULATED CARBON-BASED CONDUCTIVE FIBER, GENERAL SPECIFICATION FOR

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers stranded electrical conductors fabricated from four types of uninsulated carbon-based conductive fiber for use in aerospace and other applications. Carbon-based conductive fibers are suitable for use in uninsulated and insulated conductors. Non-conductive fibers that are metalized are also considered to be carbon-based conductors in this specification.

1.2 Classification. Conductors are classified by the following types of fiber material they contain (see 3.1 and 6.2).

1.2.1 Types. Conductors are of the following types and compositions:

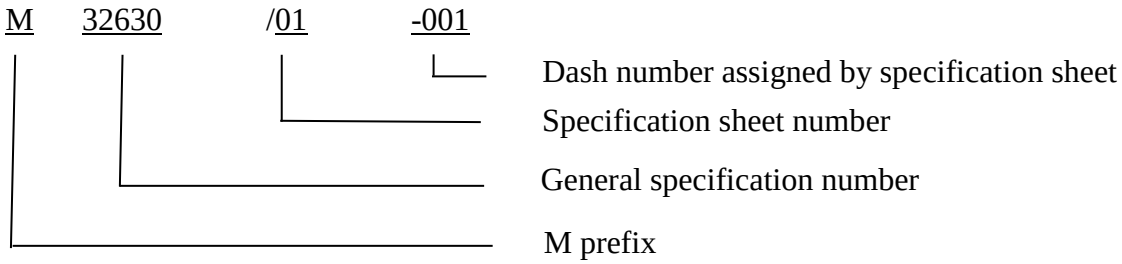
Type I - Conductors composed of metal coated aramid/para-aramid fiber (MCAF) (see 3.3.1).

Type II - Conductors composed of metal coated poly (p-phenylene-2, 6-benzobisoxazole (PBO) fiber (see 3.3.2).

Type III - Conductors composed of metal coated liquid crystal polymer (LCP) fiber (see 3.3.3).

Type IV - Conductors composed of carbon nanotube (CNT) fiber (see 3.3.4).

1.3 Part or Identifying Number (PIN). The PIN consists of the letter "M" followed by the specification number, the associated slash sheet number and a sequentially assigned dash number:



Comments, suggestions, or questions on this document should be addressed to: Naval Air Systems Command (Commander, Naval Air Warfare Center Aircraft Division, Code 4.1.2.2, Mail Stop 120-3, Route 547, Joint Base MDL, NJ 08733-5100) or emailed to michael.sikora@navy.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST online database at https://assist.dla.mil/.