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DETAIL SPECIFICATION

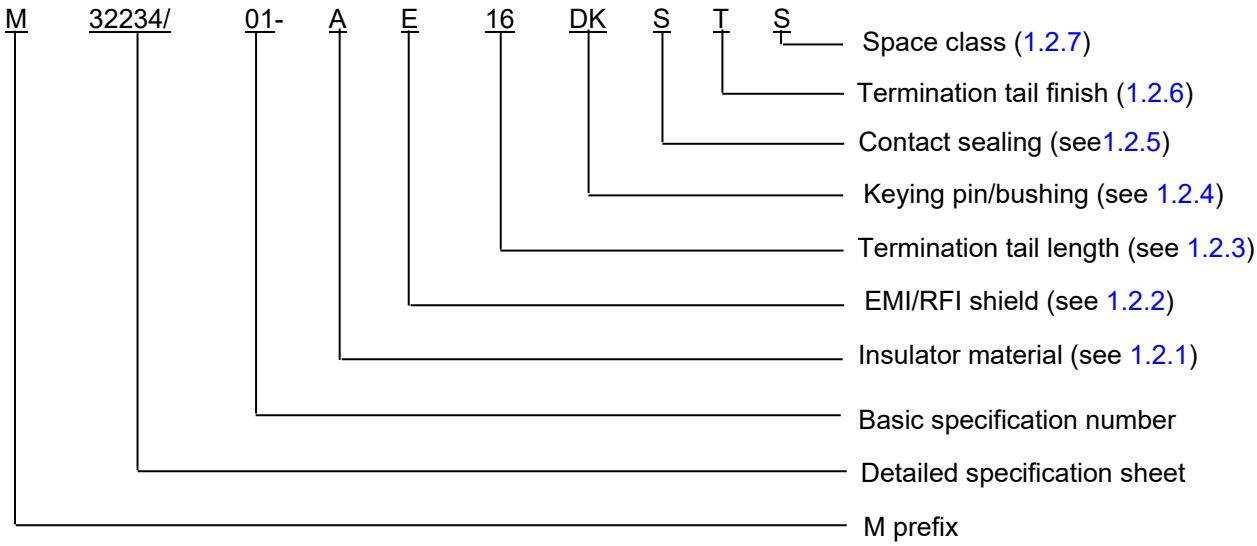
CONNECTORS, ELECTRICAL, ULTRA HIGH DENSITY, MODULAR, BLADE AND FORK, EIGHT ROW, GENERAL SPECIFICATION FOR

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

1. SCOPE

1.1 Scope. This specification covers the detail requirements for ultra high density connectors, surface mounted on daughter board modules or fixed backplanes. The connector contacts are densely packed with .050 inch (1.27 mm) spacing between contact centers in the same row. These connectors are intended for use in assemblies requiring very densely packaged electronic components, and are commonly used in digital applications.

1.2 Part or Identifying Number (PIN). The PIN consists of the letter M (see 3.7) the basic specification number, a forward slash, a specification sheet number, a dash, a letter for the insulator material, a letter for the EMI/RFI shield, two numbers for the termination tail length or termination tail separation, a letter for the keying pin, a letter for contact sealing (when applicable), a letter for termination tail finish (when applicable), and a letter for space class (when applicable) (see 3.1) shown in the following example:



Comments, suggestions, or questions on this document should be addressed to: DLA Land and Maritime, Columbus, Attn: VAI, P.O. Box 3990, Columbus, Ohio, 43218-3990 or emailed to WireCable@dla.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/.

AMSC N/A FSC 5935

1.2.1 Insulator material. The PIN will utilize a single character (A, B, or C) to indicate the insulator plastic materials:

A - Thermoplastic, type GST-40F.
B - Thermoplastic, type GDI-30F.
C - Glass filled diallyl phthalate, type SDG-F or GLCP-30F.

1.2.2 EMI/RFI shield.

E - EMI/RFI shield
N - None included

1.2.3 Termination tail length or termination tail separation (gap). The PIN will utilize a number to identify the termination type. Each specification sheet will provide a chart which will identify available termination types and an associated code letter to include in the PIN.

1.2.4 Keying pin/bushing. The PIN will utilize two characters to identify the shape of the keying pin or bushing. Each specification sheet will provide a chart, which will identify available keying types and an associated code letter. When keying pins/bushings are supplied with the connector they will be shipped loose.

1.2.5 Contact sealing. Contact sealing will be identified as follows:

S - Connectors are sealed to prevent entry of cleaning fluids or conformal coatings into the contact area from the termination side of the connector.
N - No sealing is provided.

1.2.6 Termination tail finish. Termination plating will be identified as follows:

T - Tin/lead
G - Gold

1.2.7 Space class. The PIN will utilize a single character to identify space class connectors that have passed thermal vacuum outgassing testing.

Blank - Blank for non-space applications.
S - For space class.

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.