

MILITARY SPECIFICATION
CONNECTORS, COAXIAL, RADIO FREQUENCY,
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-39012, dated 11 August 1982, and is approved for use by all Departments and Agencies of the Department of Defense.

SEE PARAGRAPH 3.3.1.2.1 ON PAGE 2 OF THIS
AMENDMENT FOR FINISH EFFECTIVITY DATE CHANGE.

PAGE 1

- * 1.2.2b, delete and substitute:

"b. Category B - Connectors which require special tools to assemble shall be designated as category B connectors. These connectors may be used for original installations only. Field replacement is intended to be made by categories A, C, D, E, or F connectors which shall provide the same form, fit and function. Category B connectors will not be stocked or procured by the government."

- * 1.2.2e, Category E, add the following sentence to the end of the definition:
"The method of assembly of the connector to the cable outer conductor shall be by solder."

- * Add the following new paragraph to 1.2.2;

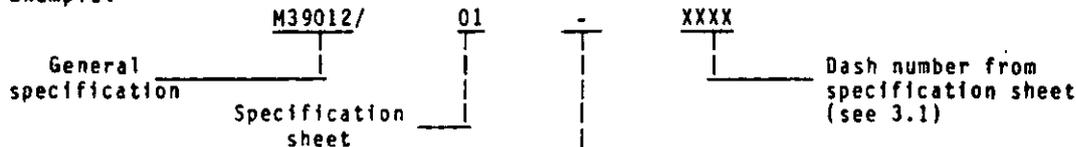
"f. Category F. - Connectors using semirigid cables with standard stripping dimensions and using standard military assembly tools. The method of assembly of the connector to the cable shall be solderless."

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- * 1.2.3, delete and substitute:

"1.2.3 Part number. The part number shall consist of the letter 'M' followed by the basic specification sheet number, and a sequentially assigned four digit dash number. The first digit in the dash number designates the material of the connector body (shell); i.e., '0' for brass, '3' for corrosion-resistant steel; and '4' for copper beryllium.

Example:



The '-' designates a standard military part. This position, when filled with the letter 'B' (i.e. M39012/O1B0501), signifies a military part which is for OEM use only. The part is assembled to the cable with special tooling. Acquisition of this type part by any agency other than OEM's is prohibited and will result in the substitution of the equivalent military replacement part (i.e., if 'M39012/O1BXXXX' is submitted for acquisition, 'M39012/O1-XXXX' will be recommended)."

PAGE 2

- * 2.1: Delete "QQ-A-225/6" and associated information. For MIL-C-55330, title should read "Connectors, Electrical and Fiber Optic, Packaging of." Add "MIL-STD-1344 - Test Methods for Electrical Connectors".

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- * 3.2, line 3, add: "Permission to grant qualification testing on category 'B' connectors shall only be granted when a non-category 'B' connector is available on the latest issue of the Qualified Products List."

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TABLE I: Delete "Aluminum" and "QQ-A-225/6".

- * 3.3.1, delete and substitute:

"3.3.1 Finish. Unless otherwise specified (see 3.1), connector center contacts and bodies shall be plated in the following manner.

"3.3.1.1 Center contacts. Center contacts shall be gold plated to a minimum thickness of 0.00005 inch in accordance with MIL-G-45204, type II, class I. A copper flash shall be used as an undercoat with the exception of hermetically sealed connectors which may use a nickel undercoat.

"3.3.1.2 Connector bodies. All brass bodied connectors shall be silver plated per QQ-S-365 to a minimum thickness of 0.0002 inch over a copper flash. No nickel underplate shall be permitted. All copper beryllium bodied connectors shall be gold plated per MIL-G-45204, type II, class I over a copper flash. All corrosion resistant steel bodied connectors shall be passivated per MIL-F-14072.

Note: Ferrous or nickel alloys shall not be used on brass or beryllium copper bodied connectors (i.e., coupling nuts, etc.).

"3.3.1.2.1 Delivery from stock. Qualified manufacturers may ship from stock, parts from lots which passed groups A and B inspection and had been plated in accordance with MIL-C-39012C (dated 11 August 1982) until 25 JULY 1986. (This extends the effectivity date of the finish requirements initiated in Amendment 1)."

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- * Following 3.30, add:

"3.31 Manufacturers' control drawing. Connector manufacturers shall insure that special tooling and dies are documented. The replacement category A, C, D, E, or F part numbers shall be listed on the manufacturers' control drawing."

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- * 4.4.2, add the following sentence between the two existing sentences. "Group qualification will be limited to those connectors for which evidence of manufacturing capability is demonstrated by providing engineering drawings to the qualifying agency."

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TABLE IV, following "Voltage standing wave ratio (uncabled)", add "1/".
Following table IV, add "1/ Destructive test."

PAGE 12

- * 4.6.6, item b: Delete "III" and substitute "I".

PAGE 19

- * 4.6.21, delete last six lines and substitute: "When specified (see 3.1), a torque shall be applied to the cable about its axis in each direction relative to the connector at the location and to the torque value given on the detail specification sheet."

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- * 6.2, items d and e: Delete.

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- * Add 6.6.2 as follows:

"6.6.2 Installation of category 'B' connectors. Field replaceable connectors for category 'B' shall be those specified on the latest issue of the Qualified Products List and shall be adequate as a replacement without rework of the connector. The equipment parts list shall indicate the appropriate connector that will be used for the service replacement of a category 'B' connector."

NOTE: The margins of this amendment are marked with asterisks to indicate where changes from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodians:

Army - CR
Navy - EC
Air Force - 85

Review activities:

Army - AR, MI
Navy - OS
Air Force - 11, 99
DLA - ES

User activities:

Army - AT
Navy - MC, SH, AS
Air Force - 19

Preparing activity:

Army - CR

Agent:

DLA - ES

(Project 5935-3500)