

INCH-POUND

MIL-C-49142
AMENDMENT 2
13 September 1989
SUPERSEDING
AMENDMENT 1
10 January 1983

MILITARY SPECIFICATION

CONNECTORS, PLUGS AND RECEPTACLES, ELECTRICAL, TRIAXIAL,
RADIO FREQUENCY,
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-49142, dated 17 April 1978, and is approved for use by all Departments and Agencies of the Department of Defense.

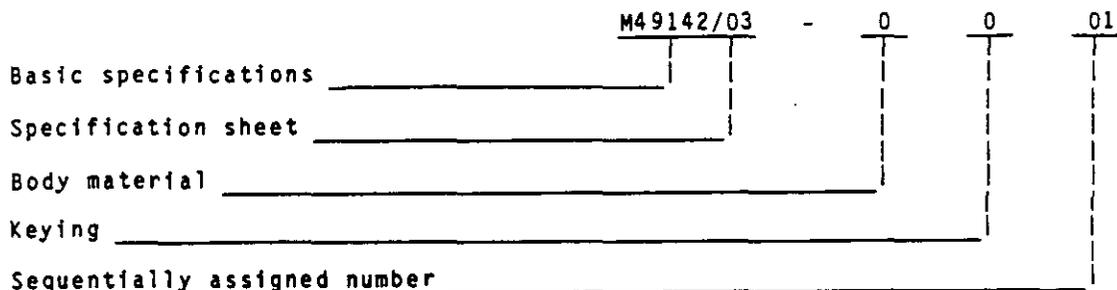
PAGE 1

Title, delete and substitute: "CONNECTORS, PLUGS AND RECEPTACLES, ELECTRICAL, TRIAXIAL, RADIO FREQUENCY, GENERAL SPECIFICATION FOR."

* 1.2.2, delete and substitute:

"1.2.2 Part or Identifying Number (PIN). The PIN shall consist of the letter "M" followed by the basic specification sheet number and a four digit dash number. The first digit of the dash number designates the material of the connector body (shell); "0" for brass and "3" for corrosion resistant steel. The second digit of the dash number designates modified bayonet coupling mechanism keying when applicable (see figure 1). The third and fourth digits of the dash number are sequentially assigned.

Example:



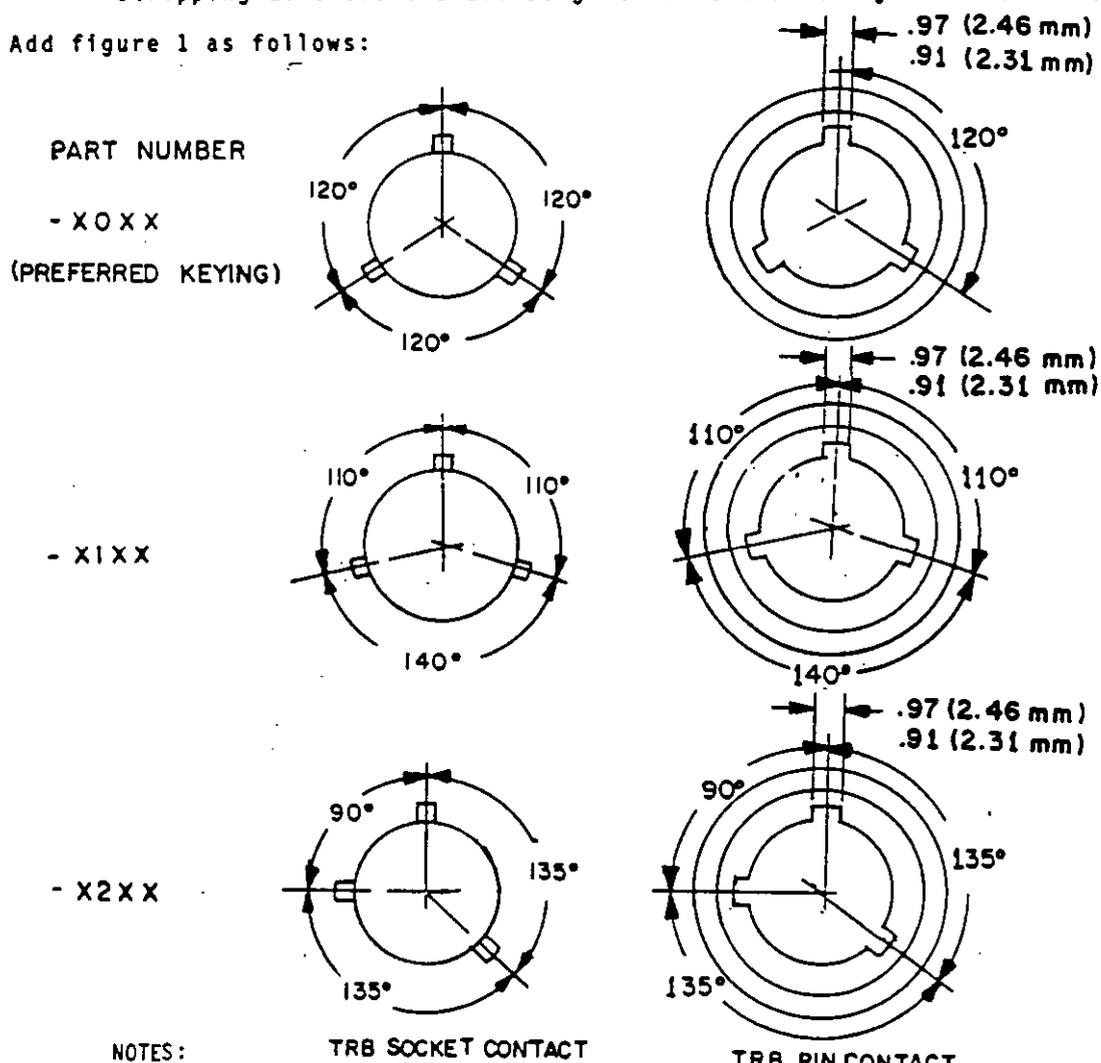
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* Add 1.2.3 as follows:

"1.2.3 Categories. The categories of connectors shall be designated by an "A" (field serviceable) and "G" (field replaceable crimp center and outer contact) (see 3.1).

- a. Category A: Connectors which do not require special tools to assemble shall be designated as category A connectors. Standard wrenches, soldering equipment, pliers, etc., are not defined as special tools.
- b. Category G: Connectors which require only standard military crimp tools for the center contact and outer ferrule. The intermediate contact shall be assembled by a means other than solder. Piece parts are not defined. Stripping dimensions shall be given in the assembly instructions."

* Add figure 1 as follows:



NOTES:

1. Bayonets shall be dimensioned in accordance with MIL-STD-348, unless otherwise specified.
2. Tolerance on all angles shall be $\pm 1^\circ$.

FIGURE 1. Keying configurations (TRB only).

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* Delete the following Federal Specification reference:

"QQ-A-225/6 - Aluminum Alloy Bar, Rod, and Wire; Rolled, Drawn or Cold Finished, 2024."

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* Table I, delete and substitute the following:

"TABLE I. Materials.

Component material	Applicable specification
Brass - - - - -	QQ-B-613 or QQ-B-626
Copper beryllium - - - - -	QQ-C-530 or QQ-C-533
Phosphor bronze - - - - -	QQ-B-750
Soft copper - - - - -	QQ-C-576
Steel-corrosion resisting - - - - -	QQ-S-763 or ASTM 582
Flux - - - - -	O-F-499
TFE fluorocarbon - - - - -	ASTM-D-1457
FEP fluorocarbon - - - - -	L-P-389
Silicon rubber - - - - -	ZZ-R-765
Soft solder - - - - -	QQ-S-571

* 3.3.1, delete and substitute the following:

"3.3.1 Finish. Unless otherwise specified, center contacts and bodies shall be plated in the following manner, and in accordance with MIL-F-14072.

"3.3.1.1 Center contacts. Center contacts shall be gold plated to a minimum thickness of 0.000100 inch, in accordance with MIL-G-45204, type II, class 2 over a 0.000100 inch minimum copper plate in accordance with MIL-C-14550, class 4 or gold plated to a minimum thickness of 0.000050 inch over a 0.000050 inch minimum nickel underplate in accordance with QQ-N-290, class 1. A silver underplate shall not be permitted. Only corrosion resistant steel bodied connectors and hermetically sealed connectors may use nickel underplate on the center contacts.

"3.3.1.2 Connector bodies. All brass bodied connectors shall be silver plated in accordance with QQ-S-365 to a minimum thickness of 0.000200 inch over a copper underplate. All corrosion resistant steel bodied connectors shall be passivated in accordance with QQ-P-35. The requirements of MIL-F-14072 must be met under 3.3.1 finish."

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* 4.6.22.2, add the following at the beginning of the paragraph:

"The rise time degradation shall be measured in accordance with the following procedure or a method acceptable to the Government."

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NOTE: The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) 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.

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85
NASA - NA

Preparing activity:

Army - CR

Agent:

DLA - ES

(Project 5935-3675)

Review activities:

Army - AR, MI
Navy - OS, SH
Air Force - 17, 99
DLA - ES

User activities:

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