INCH-POUND

MIL-C-81790A AMENDMENT 1 30 December 1992

MILITARY SPECIFICATION

CONNECTORS, RECEPTACLE, EXTERNAL ELECTRIC POWER, AIRCRAFT GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-81790, dated 5 April 1990, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 2

Add the following military specification to the referenced documents on page 2, 2 1.1

"MIL-P-85582

Primer Coatings, Water Borne"

PAGE 3

3 3: Delete the fourth sentence of paragraph 3.3 and substitute the following

"Materials used in the construction of connectors, bases, covers and shields shall be fungus inert in accordance with requirement 4 of MIL-STD-454"

3 3.1: Delete the first sentence of paragraph 3.3.1 and substitute the following:

"Bases shall be fabricated using a fiber filled, impact resistant, polyethylene terephthalate material conforming to MIL-M-14 type SDI-30, an impact resistant fiber filled polyester material, or an impact resistant fiber filled epoxy material."

1 of 4

AMSC N/A

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PAGE 4

3 3 2 Delete the last sentence of paragraph 3 3 2 and substitute the following

"Coat with one coat of zinc chromate primer according to TT-P-1757 or with water borne epoxy primer according to MIL-P-85582."

3.4.1. Delete and substitute

"3.4 1. Contacts Unless approved by the qualifying activity, the contact shall be designed from a one piece alloy material. Contacts must conform to the physical dimensions of this specification and related military standards (see 4.6.2)."

Add as new paragraph 3 4 1 7

"3.4 1.7 <u>Hardness of contacts</u> The hardness at all points on the sides of each pin shall be at least 86 to 100 Brinell or Rockwell B 40-56 (see 4 6 16) "

PAGE 5

3 6.1, line 3 Delete "4 8 1" and substitute "4 6.12 "

PAGE 6

3.7.2 Delete entire paragraph.

PAGE 8

4 4.2 Add the following between the first and second sentences:

"An additional two specimens may be used for fungus resistance testing if required."

4 5 1, line 3. Delete "4.9" and substitute "4 6.15 "

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PAGE 9

Table I, 2nd column: Delete "4.7" and substitute "4.6.12."

Table I, 2nd column. Delete "4 10 15" and substitute "4 6 14"

Add to the end of Table I:

<u>Title</u>	Test Paragraph <u>Number</u>	Requirement Paragraph Number	Receptacle Assemblies

PAGE 13

4.6 9, last sentence Delete and substitute "Certification to requirement 4 of MIL-STD-454 is required."

PAGE 14

4 6.13, line 6 and line 9 Delete "4 6.16" and substitute "4.6.15."

Add as new paragraph 4 6.16:

"4 6 16 <u>Hardness of contacts</u> Contacts shall be tested for compliance with the requirements of 3 4.1.7 at a minimum of three (3) points on one pin of each size with a 500 kilogram load and a 10 millimeter ball (for Brinell testing). For Rockwell testing use a standard Rockwell B hardness tester."

5.1, second sentence: Delete and substitute

"Terminal hardware may be separately bagged and packaged with the item or may be supplied attached to the terminals."

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6.4. Delete "STAGNAG" and substitute "STANAG"

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PAGE 16

In the third sentence delete "Naval Avionics Center" and substitute "Naval Air Warfare Center Aircraft Division Indianapolis"

PAGE 17

Figure 1 Delete "4 5 1" and substitute "4.3 1 "

PAGE 23

Review Activities: Delete "Navy-AS"

Preparing Activity.
Navy-AS

(Project 5935-3882)

Custodian.
Navy - AS
Army - CR
Air Force - 85

Review activities: Army - AV Air Force - 99