

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

FSC 5935

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MIL-C-81790A
AMENDMENT 1

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 Hardness of contacts 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 "

MIL-C-81790A
AMENDMENT 1

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>	<u>Test Paragraph Number</u>	<u>Requirement Paragraph Number</u>	<u>Receptacle Assemblies</u>
Hardness of contacts	4 6 16	3 4 1.7	X

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 Hardness of contacts 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."

PAGE 15

6.4. Delete "STAGNAG" and substitute "STANAG"

MIL-C-81790A
AMENDMENT 1

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 "

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

Review activities:
Army - AV
Air Force - 99

Preparing Activity.
Navy-AS
(Project 5935-3882)