

INCH-POUND

MIL-C-81659B
 AMENDMENT 2
 1 October 1990
 SUPERSEDING
 AMENDMENT 1
 12 April 1983

MILITARY SPECIFICATION

CONNECTORS, ELECTRICAL RECTANGULAR, CRIMP CONTACT

This amendment forms a part of Military Specification MIL-C-81659B, dated 2 August 1976, and is mandatory for use by all Departments and Agencies of the Department of Defense.

PAGE 4

Paragraph 2.1 Issues of documents.

STANDARDS

MILITARY

Delete:

MS3156(NAVY)	Tool, Insertion and Removal, Contact, MIL-C-81659 Connector (Series 2)
MS3168(NAVY)	Contacts, Electric, Coaxial, Pin, Crimpable, Size 1
MS3169(NAVY)	Contacts, Electric, Coaxial, Socket, Crimp, Size 1
MS3170(NAVY)	Contacts, Electric, Coaxial, Pin, Crimp, Size 3
MS3171(NAVY)	Contacts, Electric, Coaxial, Socket, Crimp, Size 3
MS3172(NAVY)	Contacts, Electric, Coaxial, Pin, Crimp, Size 5
MS3173(NAVY)	Contacts, Electric, Coaxial, Socket, Crimp, Size 5
MS3174(NAVY)	Contacts, Electric, Coaxial, Pin, Crimp, Size 7
MS3175(NAVY)	Contacts, Electrical, Coaxial, Socket, Crimp, Size 7
MS3176(NAVY)	Contacts, Electrical, Coaxial, Pin, Crimp, Size 9
MS3177(NAVY)	Contacts, Electrical, Coaxial, Socket, Crimp, Size 9

AMSC N/A

FSC 5935

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

MIL-C-81659B
AMENDMENT 2

PAGE 4 (continued)

MS3447(NAVY)	Tool, Insert-Extract, Wired Contact, Electric Connector, Sizes 12, 16 and 20
MS27187(NAVY)	Plug, End, Seal, Electrical Connector
MS90455(NAVY)	Tool, Insertion, Contact, Connector
MS90456(NAVY)	Tool, Removal, Contact, Connector

SPECIFICATIONS

MILITARY

Add:

MIL-I-81969/1	Installing and Removal Tools, Connector Electrical Contact, Type III, Class 2, Comp. C
MIL-I-81969/14	Installing and Removal Tools, Connector Electrical Contact, Type III, Class 2, Comp B
MIL-I-81969/17	Installing and Removal Tools, Connector Electrical Contact, Type I, Class I, Comp. C
MIL-I-81969/19	Installing and Removal Tools, Connector Electrical Contact, Type II, Class I, Comp C

PAGE 6

Paragraph 3.4.1.1 Coaxial contacts.

Delete first sentence.

Paragraph 3.4.2 Grommet sealing plugs (type II).

Delete "or MS27187" in first sentence.

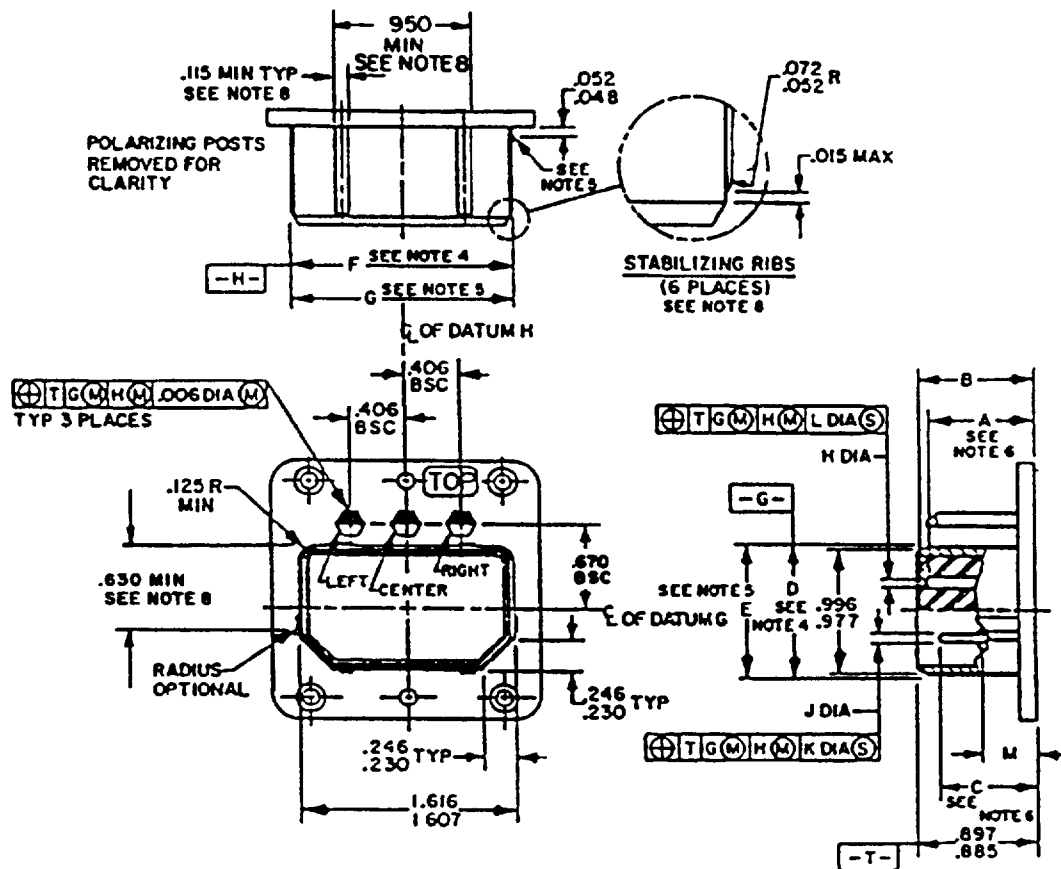
Paragraph 3.4.3 Installing and removal tools.

Paragraph should read: "Individual contacts shall be installed with the applicable installing tool as specified in MIL-I-81969/17 and capable of being removed with the applicable removal tool conforming to MIL-I-81969/19 for series 1 connectors. For series 2 connectors, the applicable installing and removal tool conforming to MIL-I-81969/1 or MIL-I-81969/14 shall be used."

MIL-C-81659B
AMENDMENT 2

PAGE 17

Figure 4, delete the current Figure 4 and substitute the following:



INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
.006	.15	.102	2.59	.615	15.62	.910	23.11
.015	.38	.115	2.92	.635	16.13	.977	24.82
.048	1.22	.125	3.18	.670	17.02	.996	25.30
.052	1.32	.230	5.84	.885	22.48	1.607	40.82
.072	1.83	.246	6.25	.890	22.61	1.616	41.05
.098	2.49	.406	10.31	.897	22.78		

FIGURE 4. Single plug connector intermateability control dimensions.
(Shell designator A)

MIL-C-81659B
AMENDMENT 2

PAGE 18

Table, Column D, insert "MIN" and delete dimension ".996 (25.30)."

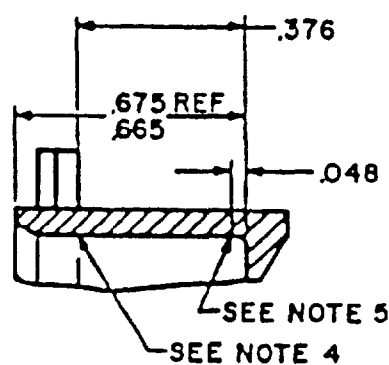
Table, Column F, insert "MIN" and delete dimension "1.616 (41.05)."

Note 4, delete ".102/.098 from front edge"; insert ".654 from flange."

Note 5, delete "/.048."

PAGE 19

FIGURE 5, dimensional changes in upper view as shown:

DETAIL A

PAGE 20

Table, column D, insert "MIN" and delete dimension "1.004 (25.50)."

Table, column E, insert "MAX" and delete dimension "1.003 (25.48)."

Table, column F, insert "MIN" and delete dimension "1.624 (41.25)."

Table, column G, insert "MAX" and delete dimension "1.623 (41.22)."

Note 4, delete ".302/.298 from top edge"; insert ".376 from bottom of cavity."

Note 5, delete ".052/."

MIL-C-81659B
AMENDMENT 2

PAGE 22

Table, column D, insert "MIN" and delete dimension "2.339 (59.41)."

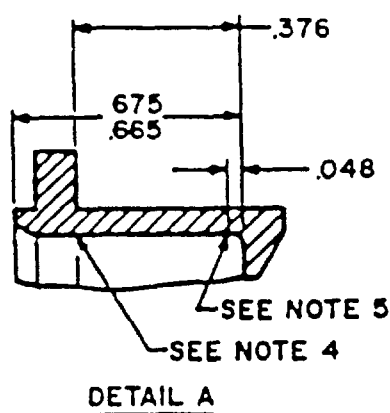
Table, column F, insert "MIN" and delete dimension "1.621 (41.17)."

Note 4, delete ".102/.098 from top edge"; insert ".654 from flange."

Note 5, delete "/.048."

PAGE 23

FIGURE 1, dimensional changes in upper view as shown:



PAGE 24

Table, column D, insert "MIN" and delete dimension "2.347 (59.61)."

Table, column E, insert "MAX" and delete dimension "2.346 (59.59)."

Table, column F, insert "MIN" and delete dimension "1.629 (41.38)."

Table, column G, insert "MAX" and delete dimension "1.628 (41.35)."

Note 4, delete ".302/.298 from top edge"; insert ".376 from bottom of cavity."

Note 5, delete ".052/."

MIL-C-81659B
AMENDMENT 2

PAGE 26

Table, column D, insert "MIN" and delete dimension "3.589 (91.16)."

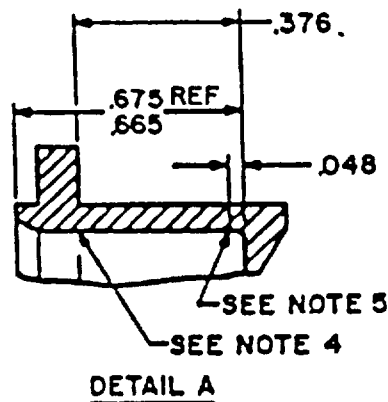
Table, column F, insert "MIN" and delete dimension "1.621 (41.17)."

Note 4, delete ".102/.098 from top edge"; insert ".654 from flange."

Note 5, delete "/.048."

PAGE 27

Figure 9, dimensional changes in upper view as shown:



PAGE 28

Table, column D, insert "MIN" and delete dimension "3.595 (91.31)."

Table, column E, insert "MAX" and delete dimension "3.590 (91.19)."

Table, column F, insert "MIN" and delete dimension "1.629 (41.38)."

Table, column G, insert "MAX" and delete dimension "1.628 (41.35)."

Note 4, delete ".302/.298 from top edge"; insert ".376 from bottom of cavity."

Note 5, delete ".052/."

MIL-C-81659B
AMENDMENT 2

PAGE 30

Table, column D, insert "MIN" and delete dimension "2.345 (59.56)."

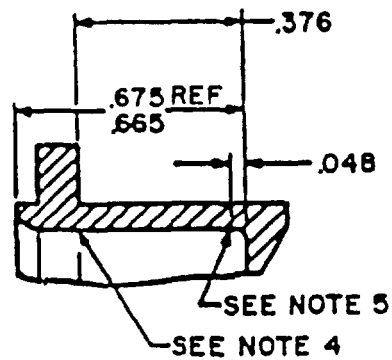
Table, column F, insert "MIN" and delete dimension "3.492 (88.70)."

Note 4, delete ".102/.098 from top of edge"; insert ".654 from flange."

Note 5, delete "/.048."

PAGE 31

Figure 11, dimensional changes in upper view as shown:

DETAIL A

PAGE 32

Table, column D, insert "MIN" and delete dimension "2.351 (59.72)."

Table, column E, insert "MAX" and delete dimension "2.350 (59.69)."

Table, column F, insert "MIN" and delete dimension "3.498 (88.85)."

Table, column G, insert "MAX" and delete dimension "3.497 (88.82)."

Note 4, delete ".302/.298 from top edge"; insert ".376 from bottom of cavity."

Note 5, delete ".052/."

MIL-C-81659B
AMENDMENT 2

Custodians:

Army - CR
Navy - AS
Air Force - 85

Preparing Activity:

Navy - AS -
Project No. 5935-8748

Review Activities:

Navy - EC, OS
Air Force - 11, 99
DSA - ES