

NOTICE OF CHANGE

INCH-POUND

MIL-STD-1353B
NOTICE 4
12 May 1989

MILITARY STANDARD

ELECTRICAL CONNECTORS, PLUG-IN SOCKETS AND ASSOCIATED HARDWARE, SELECTION AND USE OF

TO ALL HOLDERS OF MIL-STD-1353B

1. THE FOLLOWING PAGES OF MIL-STD-1353B HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

<u>NEW PAGE</u>	<u>DATE</u>	<u>SUPERSEDED PAGE</u>	<u>DATE</u>
1	12 May 1989	1	7 August 1984
2	12 May 1989	2	7 August 1984
2a	12 May 1989	---	NEW PAGE
103.1	2 July 1980	103.1	REPRINTED WITHOUT CHANGE
103.2	12 May 1989	103.2	2 July 1980
103.3/103.4	12 May 1989	103.3 and 103.4	2 July 1980
103.11	2 July 1980	103.11	REPRINTED WITHOUT CHANGE
103.12	12 May 1989	103.12	2 July 1980
103.13	12 May 1989	103.13	2 July 1980
103.14	12 May 1989	103.14	2 July 1980
103.15	12 May 1989	103.15	2 July 1980
103.16	12 May 1989	103.16	2 July 1980
103.17	12 May 1989	103.17	2 July 1980
103.18	12 May 1989	103.18	2 July 1980
103.19	12 May 1989	103.19	2 July 1980
103.20	12 May 1989	103.20	2 July 1980
103.21	12 May 1989	103.21	2 July 1980
103.22	12 May 1989	103.22	2 July 1980
103.23/103.24	12 May 1989	103.23 and 103.24	2 July 1980
103.25/103.26	12 May 1989	103.25 and 103.26	2 July 1980

2. RETAIN THIS NOTICE AND INSERT BEFORE THE TABLE OF CONTENTS.

3. Holders of MIL-STD-1353B will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the military standard is completely revised or canceled.

AMSC N/A

DISTRIBUTION STATEMENT A.

1 of 2

FSC 5935

Approved for public release; distribution is unlimited.

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CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85

Review activities:

Army - MI
Navy - AS, OS, SH
Air Force - 11, 17, 99
DLA - ES

User activities:

Army - AV, ME
Navy - MC
Air Force - 19

Preparing activity:

Navy - EC

Agent:

DLA - ES

(Project 5935-3688)

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1. SCOPE

1.1 Scope. This standard establishes requirements for selection of electrical connectors, plug-in sockets, and their associated hardware, shown in detail in sections 100, 200, 300, and 400, for use in military equipment. Included are the following:

- a. Selected electrical connector types and associated hardware chosen jointly by the Departments of the Army, the Navy, and the Air Force for use in the design of military equipment.
- b. Guides for the choice and application of electrical connectors and associated hardware for use in military equipment.

Complete detailed requirements for electrical connectors, plug-in sockets, and associated hardware listed in this standard are covered in the applicable specification sheets or MS sheets (see 4.2). When it has been determined that equipment requirements cannot be met by using the connector styles or characteristics listed in this standard, the design engineer with the approval of the cognizant military activity, should select from the applicable connector specification, styles or characteristics not listed herein.

1.2 Purpose of standard. The purpose of this standard is to promote the use of standard parts for new equipment design. The standard parts cover the majority of uses and are arranged in a form for quick references and selection. The applicable connector specification shall be used for specific design details.

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2. REFERENCED DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. Unless otherwise specified, the following specifications and standards of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation form a part of this standard to the extent specified herein.

SPECIFICATIONS

FEDERAL

- W-C-596 - Connector, Plug, Receptacle and Cable Outlet, Electrical Power, General Specification for.

MILITARY

- MIL-C-17 - Cable, Radio Frequency, Flexible and Semirigid, General Specification for.
- MIL-C-3432 - Cable and Wire, Electrical (Power and Control; Semiflexible, Flexible and Extra-Flexible, 300 and 600 Volts).
- MIL-C-5015 - Connectors, Electrical, Circular Threaded, General Specification for.
- MIL-S-12883 - Socket and Accessories For Plug-In Electronic Components, General Specification for.
- MIL-C-21097 - Connector, Electrical, Printed Wiring Board, General Purpose, General Specification for.
- MIL-C-22992 - Connectors, Plugs, and Receptacles, Electrical, Waterproof, Quick Disconnect, Heavy Duty Type, General Specification for.
- MIL-C-24308 - Connectors, Electrical, Rectangular, Miniature Polarized Shell, Rack and Panel, General Specification for.
- MIL-C-28731 - Connectors, Electrical, Rectangular, Removable Contact, Formed Blade, Fork Type (For Rack and Panel and other Applications), General Specification for.
- MIL-C-28748 - Connectors, Electrical, Rectangular, Rack and Panel, Solder Type and Crimp Type Contacts.
- MIL-C-28840 - Connector Electrical, Circular Threaded, High Density, High Shock Shipboard, Class D, General Specification for.
- MIL-C-38999 - Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect (Bayonet, Threaded, and Breech Coupling), Environment Resistant, Removable Crimp and Hermetic Solder Contacts, General Specification for.
- DOD-C-38999/20 - Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect (Bayonet, Threaded, and Breech Coupling), Environment Resistant, Removable Crimp and Hermetic Solder Contacts, Receptacle, Wall Mounting Flange, Triple Start Threaded Coupling, Removable Crimp Contacts, Series III, Metric.
- DOD-C-38999/21 - Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect (Bayonet, Threaded, and Breech Coupling), Environment Resistant, Removable Crimp and Hermetic Solder Contacts, Receptacle, Box Mounting Flange, Hermetic, Triple Start Threaded Coupling, Hermetic Solder Contacts, Series III, Metric.

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- DOD-C-38999/23 - Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect (Bayonet, Threaded, and Breech Coupling), Environment Resistant, Removable Crimp and Hermetic Solder Contacts, Receptacle, Jam-Nut Mounting, Hermetic, Triple Start Threaded Coupling, Hermetic Solder Contacts, Series III, Metric.
- DOD-C-38999/24 - Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect (Bayonet, Threaded, and Breech Coupling), Environment Resistant, Removable Crimp and Hermetic Solder Contacts, Receptacle, Jam-Nut Mounting, Triple Start Threaded Coupling, Removable Crimp Contacts, Series III, Metric.

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SECTION 103

CONNECTORS, RACK AND PANEL

<u>Applicable documents</u>	<u>Applicable characteristics</u>	<u>Applicable restrictions</u>	<u>Page</u>
<u>MIL-C-24308</u>	-This specification covers the general requirements for miniature rectangular connectors and accessories.		103.4
Class G	-Contacts: Crimp or solder Contact sizes: 20, 22D Temperature range: -55°C to +125°C -Intended use: Class G connectors are intended for use in non-environment resisting applications where the operating temperature range of -55°C to +125°C is experienced.		
Class N	-Contacts: Solder or crimp. Contact sizes: 20, 22D Temperature range: -55°C to +125°C -Intended use: Class N connectors are intended for use in applications wherein presence of residual magnetism must be held to very low levels to avoid interference with nearby sensitive instrumentation.		
Class H	-Contacts: Solder Contact size: 20 Temperature range: -55°C to +125°C -Intended use: Class H receptacles are intended for use in applications wherein atmospheric pressures must be contained by the connectors across the wall or panels they are mounted on.		
<u>MIL-C-28731</u>	-This specification covers rectangular, electrical connectors intended for use in electronic and electrical equipment. -Contacts: Removable, formed blade, crimp fork type, solder hole fork type, wrappost fork type. Contact wire sizes: 18-26 AWG. -Coupling: Jackscrews, jack sockets, fixed screws, and fixed sockets.		103.9

Supersedes page 103.1 of MIL-STD-1353B.
103.1

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<u>Applicable documents</u>	<u>Applicable characteristics</u>	<u>Applicable restrictions</u>	<u>Page</u>
<u>MIL-C-28748</u>	This specification covers the general requirements for standard rectangular connectors. Contacts: Front release crimp Contact sizes: 16, 20, and 22 Coupling: Long jackscrews Guide pins Boss for jackscrews Boss for guide pins Fixed jackscrews	For nonenvironmental applications only.	103.12
<u>MIL-C-81659</u>	-This specification covers environment resisting rectangular connectors with one to four inserts per connector.		103.26
Series 2	-Contacts: Rear release removable Crimp contact sizes: 9 coax, 12, 16, 20, 22 insert: Keystone shape Temperature: -65°C to +125°C, Class I Environmental rack and panel.	AF: Not for use.	
<u>MIL-C-83733</u>	This specification covers the general requirements for miniature environmental resisting, 200°C rectangular connectors. All the types and classes are intermateable under the same shell size. Contacts: Rear release crimp removable. Contact sizes: 12, 16, 20, 22D, 12 shielded Temperature range: -65°C to +200°C Coupling mounting: Standard hole Guide pins and spring Guide pins Guide sockets Guide sockets and spring Captive springs Clinch nut Bushing		103.28

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MIL-C-24308 PART NUMBER SYSTEM

Part number example: M24308/2-341

Key: M24308/XX -XXX

Military specification sheet _____

Dash number _____

Criteria:

Class: G - General purpose
 N - Nonmagnetic
 H - Hermetic

Shell sizes: 1, 2, 3, 4, 5, and 6

Socket contact connectors: M24308/1, 2, 5, and 6

Shells and mounting: MS18270, MS18269, MS14058

Insert arrangements: MS14004, MS18273 thru MS18277

Contacts: MIL-C-39029/63, MIL-C-39029/57, MS18281

Pin contact connectors: M24308/3, 4, 7, 8, and 9

Shells and mounting: MS18271; MS18268, MS18272, MS14059

Insert arrangements: MS14004, MS18273 thru MS18277

Contacts: MIL-C-39029/64, MIL-C-39029/58, MS18281

Standard connectors: See table 103-1

Supersedes page 103.3 and 103.4
of MIL-STD-1353B.

103.3/103.4

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TABLE 103-11. Standard connectors, MIL-C-28731 type - Continued.

Number of contacts	Type of hardware	Contact type	Part number M28731/
38	Type F fixed socket	Wrappost	12-0077
56	Type C jackscrew	Crimp	13-0073
56	Type F fixed socket	Crimp	13-0074
56	Type C jackscrew	Solder hole	13-0075
56	Type F fixed socket	Solder hole	13-0076
56	Type F fixed socket	Wrappost	13-0077
56	Type C jackscrew	Crimp	14-0073
56	Type F fixed socket	Crimp	14-0074
56	Type C jackscrew	Solder hole	14-0075
56	Type F fixed socket	Solder hole	14-0076
56	Type F fixed socket	Wrappost	14-0077
90	Type G jackscrew	Crimp	15-0073
90	Type F fixed socket	Crimp	15-0074
90	Type G jackscrew	Solder hole	15-0075
90	Type F fixed socket	Solder hole	15-0076
90	Type F fixed socket	Wrappost	15-0077
90	Type G jackscrew	Crimp	16-0073
90	Type F fixed socket	Crimp	16-0074
90	Type G jackscrew	Solder hole	16-0075
90	Type F fixed socket	Solder hole	16-0076
90	Type F fixed socket	Wrappost	16-0077
120	Type G jackscrew	Crimp	17-0109
120	Type F fixed socket	Crimp	17-0110
120	Type E fixed screw	Crimp	17-0111
120	Type G jackscrew	Solder hole	17-0112
120	Type F fixed socket	Solder hole	17-0113
120	Type E fixed screw	Solder hole	17-0114
120	Type F fixed socket	Wrappost	17-0115
120	Type E fixed screw	Wrappost	17-0116
120	Type G jackscrew	Crimp	18-0109
120	Type F fixed socket	Crimp	18-0110
120	Type D fixed socket	Crimp	18-0111
120	Type G jackscrew	Solder hole	18-0112
120	Type F fixed socket	Solder hole	18-0113
120	Type D jack socket	Solder hole	18-0114
120	Type F fixed socket	Wrappost	18-0115

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MIL-C-28748 PART NUMBERING SYSTEM

Part number example: M28748/3-A0ALIA

Key: M28748/X - X X X X XX

Basic specification number _____

Insert _____

Shield and shield clamp location _____

Shell type _____

Jackscrew or guide pins _____

Contacts _____

Criteria:

Basic: M28748/3 connectors using size 16 and 20 crimp removable pin contacts
 M28748/4 connectors using size 16 and 20 crimp removable socket contacts
 M28748/13 connectors using size 22 crimp removable pin contacts
 M28748/14 connectors using size 22 crimp removable socket contacts

Insert:

<u>M28748/3-</u>	<u>M28748/4-</u>	<u>Number of contacts</u>
A - MS14010	MS14011	7
B - MS14007	MS14006	9
C - MS18174	MS18175	14
D - MS18176	MS18177	20
E - MS14008	MS14005	26
F - MS18178	MS18179	34
G - MS18180	MS18181	42
H - MS18182	MS18183	50
J - MS18184	MS18185	66
K - MS18187	MS18188	75
L - MS18189	MS18190	104
<u>M28746/13</u>	<u>M28746/14</u>	<u>Number of contacts</u>
A -	A -	4
B -	B -	7
C -	C -	14
D -	D -	20
E -	E -	26
F -	F -	34
G -	G -	44
H -	H -	50

Shield and shield clamp location or retaining plate:

<u>MIL-C-28748/3</u>	<u>MIL-C-28748/4</u>	<u>MIL-C-28748/13 and MIL-C-28748/14</u>
<u>Shield</u>	<u>Shield</u>	<u>Shield</u>
1 - Top MS18192	4 - Top MS18192	1 - Top opening per configuration E on figure 1
2 - Side MS18192	5 - Side MS18192	2 - Side opening per configuration E on figure 1
3 - Top MS18193	6 - Top MS18193	0 - None included
4 - Side MS18193	7 - Side MS18193	
0 - None included		

Supersedes page 103.12 of MIL-STD-1353B.
 103.12

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5 - MS18198
6 - MS18199
7 - MS18200
0 - No shield or
retaining plate
included.

Retaining plate

1 - MS18198
2 - MS18199
3 - MS18200
0 - No shield or
retaining plate
included.

Shell type:MIL-C-28748/3

A - A of MS18203
B - B of MS18203
C - C of MS18203
D - D of MS18203
E - E of MS18203
F - F of MS18203
G - G of MS18203
H - Unpolarized MS18203
J - A of MS18204
K - B of MS18204
L - C of MS18204
M - D of MS18204
N - E of MS18204
P - F of MS18204
Q - G of MS18204
R - Unpolarized MS18204
0 - No shell included.

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A - A of MS18204
B - B of MS18204
C - C of MS18204
D - D of MS18204
E - E of MS18204
F - F of MS18204
G - G of MS18204
H - Unpolarized MS18204
J - A of MS18203
K - B of MS18203
L - C of MS18203
M - D of MS18203
N - E of MS18203
P - F of MS18203
Q - G of MS18203
R - Unpolarized MS18203
0 - No shell included.

0 - None included

Polarization

Polarization

Jackscrews or guide pins: MIL-C-28748/3, MIL-C-28748/4.

L - Long jackscrews MS18194
S - Short jackscrews MS18194 (Not used with shield)
F - Fixed jackscrews MS18196 (Not used with shield)
G - Guide pins MS18197 (Not used with shield)
0 - No jackscrews or guide pins included.

Jack and guide location: The female jackscrew (turning or fixed) or female guide pin shall be located by the "A" or "1" pin contact.

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L - Long jackscrews: Conf E, figure 1
F - Fixed jackscrews: Conf C, figure 1
S - Short jackscrews: Conf D, figure 1
G - Guide pins: Conf B, figure 1

Jack and guide location: The jackscrew (turning or fixed) or guide pin shall be located by the "A" socket contact.

Contacts:MIL-C-28748/3, MIL-C-28748/4

1A - 16 for 16 AWG wire
2A - 16 for 20 AWG wire
3A - 20 for 20 AWG wire

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1A = 100 percent size 22

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103.13.

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TABLE 103.III. Standard connectors, MIL-C-28748 type.

Contacts		
Number of contacts	Mounting	Part number 1/ M28748/3-
7	Long jackscrews	AXXL1A
7	Long jackscrews	AXXL2A
7	Long jackscrews	AXXL3A
7	Short jackscrews	AXXS1A
7	Short jackscrews	AXXS2A
7	Short jackscrews	AXXS3A
7	Fixed jackscrews	AXXF1A
7	Fixed jackscrews	AXXF2A
7	Fixed jackscrews	AXXF3A
7	Guide pins	AXXG1A
7	Guide pins	AXXG2A
7	Guide pins	AXXG3A
7	None	AXX01A
7	None	AXX02A
7	None	AXX03A
9	Long jackscrews	BXXL1A
9	Long jackscrews	BXXL2A
9	Long jackscrews	BXXL3A
9	Short jackscrews	BXXS1A
9	Short jackscrews	BXXS2A
9	Short jackscrews	BXXS3A
9	Fixed jackscrews	BXXF1A
9	Fixed jackscrews	BXXF2A
9	Fixed jackscrews	BXXF3A
9	Guide pins	BXXG1A
9	Guide pins	BXXG2A
9	Guide pins	BXXG3A
9	None	BXX01A
9	None	BXX02A
9	None	BXX03A
14	Long jackscrews	CXXL1A
14	Long jackscrews	CXXL2A
14	Long jackscrews	CXXL3A
14	Short jackscrews	CXXS1A
14	Short jackscrews	CXXS2A
14	Short jackscrews	CXXS3A
14	Fixed jackscrews	CXXF1A
14	Fixed jackscrews	CXXF2A
14	Fixed jackscrews	CXXF3A
14	Guide pins	CXXG1A
14	Guide pins	CXXG2A
14	Guide pins	CXXG3A
14	None	CXX01A
14	None	CXX02A
14	None	CXX03A
20	Long jackscrews	DXXL1A
20	Long jackscrews	DXXL2A
20	Long jackscrews	DXXL3A
20	Short jackscrews	DXXS1A
20	Short jackscrews	DXXS2A
20	Short jackscrews	DXXS3A

See footnote at end of table.

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TABLE 103.III. Standard connectors, MIL-C-28748 type - Continued.

Contacts		
Number of contacts	Mounting	Part number 1/ M28748/3-
20	Fixed jackscrews	DXXF1A
20	Fixed jackscrews	DXXF2A
20	Fixed jackscrews	DXXF3A
20	Guide pins	DXXG1A
20	Guide pins	DXXG2A
20	Guide pins	DXXG3A
20	None	DXX01A
20	None	DXX02A
20	None	DXX03A
26	Long jackscrews	EXXL1A
26	Long jackscrews	EXXL2A
26	Long jackscrews	EXXL3A
26	Short jackscrews	EXXS1A
26	Short jackscrews	EXXS2A
26	Short jackscrews	EXXS3A
26	Fixed jackscrews	EXXF1A
26	Fixed jackscrews	EXXF2A
26	Fixed jackscrews	EXXF3A
26	Guide pins	EXXG1A
26	Guide pins	EXXG2A
26	Guide pins	EXXG3A
26	None	EXX01A
26	None	EXX02A
26	None	EXX03A
34	Long jackscrews	FXXL1A
34	Long jackscrews	FXXL2A
34	Long jackscrews	FXXL3A
34	Short jackscrews	FXXS1A
34	Short jackscrews	FXXS2A
34	Short jackscrews	FXXS3A
34	Fixed jackscrews	FXXF1A
34	Fixed jackscrews	FXXF2A
34	Fixed jackscrews	FXXF3A
34	Guide pins	FXXG1A
34	Guide pins	FXXG2A
34	Guide pins	FXXG3A
34	None	FXX01A
34	None	FXX02A
34	None	FXX03A
42	Long jackscrews	GXXL1A
42	Long jackscrews	GXXL2A
42	Long jackscrews	GXXL3A
42	Short jackscrews	GXXS1A
42	Short jackscrews	GXXS2A
42	Short jackscrews	GXXS3A
42	Fixed jackscrews	GXXF1A
42	Fixed jackscrews	GXXF2A
42	Fixed jackscrews	GXXF3A
42	Guide pins	GXXG1A
42	Guide pins	GXXG2A
42	Guide pins	GXXG3A
42	None	GXX01A
42	None	GXX02A
42	None	GXX03A

See footnote at end of table.

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Contacts		
Number of contacts	Mounting	Part number 1/ M28748/3-
50	Long jackscrews	HXXL1A
50	Long jackscrews	HXXL2A
50	Long jackscrews	HXXL3A
50	Short jackscrews	HXXS1A
50	Short jackscrews	HXXS2A
50	Short jackscrews	HXXS3A
50	Fixed jackscrews	HXXF1A
50	Fixed jackscrews	HXXF2A
50	Fixed jackscrews	HXXF3A
50	Guide pins	HXXG1A
50	Guide pins	HXXG2A
50	Guide pins	HXXG3A
50	None	HXXO1A
50	None	HXXO2A
50	None	HXXO3A
66	Long jackscrews	JXXL1A
66	Long jackscrews	JXXL2A
66	Long jackscrews	JXXL3A
66	Short jackscrews	JXXS1A
66	Short jackscrews	JXXS2A
66	Short jackscrews	JXXS3A
66	Fixed jackscrews	JXXF1A
66	Fixed jackscrews	JXXF2A
66	Fixed jackscrews	JXXF3A
66	Guide pins	JXXG1A
66	Guide pins	JXXG2A
66	Guide pins	JXXG3A
66	None	JXXO1A
66	None	JXXO2A
66	None	JXXO3A
75	Long jackscrews	KXXL1A
75	Long jackscrews	KXXL2A
75	Long jackscrews	KXXL3A
75	Short jackscrews	KXXS1A
75	Short jackscrews	KXXS2A
75	Short jackscrews	KXXS3A
75	Fixed jackscrews	KXXF1A
75	Fixed jackscrews	KXXF2A
75	Fixed jackscrews	KXXF3A
75	Guide pins	KXXG1A
75	Guide pins	KXXG2A
75	Guide pins	KXXG3A
75	None	KXXO1A
75	None	KXXO2A
75	None	KXXO3A

See footnote at end of table.

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TABLE 103.111. Standard connectors; MIL-C-28748 type - Continued.

Contacts		
Number of contacts	Mounting	Part number <u>1/</u> M28748/3-
104	Long jackscrews	LXXL1A
104	Long jackscrews	LXXL2A
104	Long jackscrews	LXXL3A
104	Short jackscrews	LXXS1A
104	Short jackscrews	LXXS2A
104	Short jackscrews	LXXS3A
104	Fixed jackscrews	LXXF1A
104	Fixed jackscrews	LXXF2A
104	Fixed jackscrews	LXXF3A
104	Guide pins	LXXG1A
104	Guide pins	LXXG2A
104	Guide pins	LXXG3A
104	None	LXXO1A
104	None	LXXO2A
104	None	LXXO3A

1/ "X" indicates shield and shield clamp location or retaining plate and shell type.

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TABLE 103.III. Standard connectors, MIL-C-28748 type.

Contacts		
Number of contacts	Mounting	Part number 1/ M28748/4-
7	Long jackscrews	AXXL1A
7	Long jackscrews	AXXL2A
7	Long jackscrews	AXXL3A
7	Short jackscrews	AXXS1A
7	Short jackscrews	AXXS2A
7	Short jackscrews	AXXS3A
7	Fixed jackscrews	AXXF1A
7	Fixed jackscrews	AXXF2A
7	Fixed jackscrews	AXXF3A
7	Guide pins	AXXG1A
7	Guide pins	AXXG2A
7	Guide pins	AXXG3A
7	None	AXX01A
7	None	AXX02A
7	None	AXX03A
9	Long jackscrews	BXXL1A
9	Long jackscrews	BXXL2A
9	Long jackscrews	BXXL3A
9	Short jackscrews	BXXS1A
9	Short jackscrews	BXXS2A
9	Short jackscrews	BXXS3A
9	Fixed jackscrews	BXXF1A
9	Fixed jackscrews	BXXF2A
9	Fixed jackscrews	BXXF3A
9	Guide pins	BXXG1A
9	Guide pins	BXXG2A
9	Guide pins	BXXG3A
9	None	BXX01A
9	None	BXX02A
9	None	BXX03A
14	Long jackscrews	CXXL1A
14	Long jackscrews	CXXL2A
14	Long jackscrews	CXXL3A
14	Short jackscrews	CXXS1A
14	Short jackscrews	CXXS2A
14	Short jackscrews	CXXS3A
14	Fixed jackscrews	CXXF1A
14	Fixed jackscrews	CXXF2A
14	Fixed jackscrews	CXXF3A
14	Guide pins	CXXG1A
14	Guide pins	CXXG2A
14	Guide pins	CXXG3A
14	None	CXX01A
14	None	CXX02A
14	None	CXX03A
20	Long jackscrews	DXXL1A

See footnote at end of table.

Supersedes page 103.18 of MIL-STD-1353B.

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TABLE 103.III. Standard connectors, MIL-C-28748 type - Continued.

Contacts		
Number of contacts	Mounting	Part number 1/ M28748/4-
20	Long jackscrews	DXXL2A
20	Long jackscrews	DXXL3A
20	Short jackscrews	DXXS1A
20	Short jackscrews	DXXS2A
20	Short jackscrews	DXXS3A
20	Fixed jackscrews	DXXF1A
20	Fixed jackscrews	DXXF2A
20	Fixed jackscrews	DXXF3A
20	Guide pins	DXXG1A
20	Guide pins	DXXG2A
20	Guide pins	DXXG3A
20	None	DXXO1A
20	None	DXXO2A
20	None	DXXO3A
26	Long jackscrews	EXXL1A
26	Long jackscrews	EXXL2A
26	Long jackscrews	EXXL3A
26	Short jackscrews	EXXS1A
26	Short jackscrews	EXXS2A
26	Short jackscrews	EXXS3A
26	Fixed jackscrews	EXXF1A
26	Fixed jackscrews	EXXF2A
26	Fixed jackscrews	EXXF3A
26	Guide pins	EXXG1A
26	Guide pins	EXXG2A
26	Guide pins	EXXG3A
26	None	EXXO1A
26	None	EXXO2A
26	None	EXXO3A
34	Long jackscrews	FXXL1A
34	Long jackscrews	FXXL2A
34	Long jackscrews	FXXL3A
34	Short jackscrews	FXXS1A
34	Short jackscrews	FXXS2A
34	Short jackscrews	FXXS3A
34	Fixed jackscrews	FXXF1A
34	Fixed jackscrews	FXXF2A
34	Fixed jackscrews	FXXF3A
34	Guide pins	FXXG1A
34	Guide pins	FXXG2A
34	Guide pins	FXXG3A
34	None	FXXO1A
34	None	FXXO2A
34	None	FXXO3A
42	Long jackscrews	GXXL1A
42	Long jackscrews	GXXL2A
42	Long jackscrews	GXXL3A

See footnote at end of table.

Supersedes page 103.19 of MIL-STD-1353B.
103.19.

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NOTICE 4

TABLE 103.III. Standard connectors, MIL-C-28748 type - Continued.

Contacts		
Number of contacts	Mounting	Part number 1/ M28748/4-
42	Short jackscrews	GXXS1A
42	Short jackscrews	GXXS2A
42	Short jackscrews	GXXS3A
42	Fixed jackscrews	GXXF1A
42	Fixed jackscrews	GXXF2A
42	Fixed jackscrews	GXXF3A
42	Guide pins	GXXG1A
42	Guide pins	GXXG2A
42	Guide pins	GXXG3A
42	None	GXX01A
42	None	GXX02A
42	None	GXX03A
50	Long jackscrews	HXXL1A
50	Long jackscrews	HXXL2A
50	Long jackscrews	HXXL3A
50	Short jackscrews	HXXS1A
50	Short jackscrews	HXXS2A
50	Short jackscrews	HXXS3A
50	Fixed jackscrews	HXXF1A
50	Fixed jackscrews	HXXF2A
50	Fixed jackscrews	HXXF3A
50	Guide pins	HXXG1A
50	Guide pins	HXXG2A
50	Guide pins	HXXG3A
50	None	HXX01A
50	None	HXX02A
50	None	HXX03A
66	Long jackscrews	JXXL1A
66	Long jackscrews	JXXL2A
66	Long jackscrews	JXXL3A
66	Short jackscrews	JXXS1A
66	Short jackscrews	JXXS2A
66	Short jackscrews	JXXS3A
66	Fixed jackscrews	JXXF1A
66	Fixed jackscrews	JXXF2A
66	Fixed jackscrews	JXXF3A
66	Guide pins	JXXG1A
66	Guide pins	JXXG2A
66	Guide pins	JXXG3A
66	None	JXX01A
66	None	JXX02A
66	None	JXX03A
75	Long jackscrews	KXXL1A
75	Long jackscrews	KXXL2A
75	Long jackscrews	KXXL3A
75	Short jackscrews	KXXS1A

See footnote at end of table.

Supersedes page 103.20 of MIL-STD-1353B.

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MIL-STD-1353B
NOTICE 4TABLE 103.III. Standard connectors, MIL-C-28748 type - Continued.

Contacts		
Number of contacts	Mounting	Part number ^{1/} M28748/4-
75	Short jackscrews	KXXS2A
75	Short jackscrews	KXXS3A
75	Fixed jackscrews	KXXF1A
75	Fixed jackscrews	KXXF2A
75	Fixed jackscrews	KXXF3A
75	Guide pins	KXXG1A
75	Guide pins	KXXG2A
75	Guide pins	KXXG3A
75	None	KXXO1A
75	None	KXXO2A
75	None	KXXO3A
104	Long jackscrews	LXXL1A
104	Long jackscrews	LXXL2A
104	Long jackscrews	LXXL3A
104	Short jackscrews	LXXS1A
104	Short jackscrews	LXXS2A
104	Short jackscrews	LXXS3A
104	Fixed jackscrews	LXXF1A
104	Fixed jackscrews	LXXF2A
104	Fixed jackscrews	LXXF3A
104	Guide pins	LXXG1A
104	Guide pins	LXXG2A
104	Guide pins	LXXG3A
104	None	LXXO1A
104	None	LXXO2A
104	None	LXXO3A

^{1/} "X" indicates shield and shield clamp location, or retaining plate and shell type.

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TABLE 103.III. Standard connectors, MIL-C-28748 type.

Contacts		
Number of contacts	Mounting	Part number ^{1/} M28748/13-
4	Long jackscrews	AXOL1A
4	Fixed jackscrews	AXOF1A
4	Short jackscrews	AXOS1A
4	Guide pins	AXOG1A
7	Long jackscrews	BXOL1A
7	Fixed jackscrews	BXOF1A
7	Short jackscrews	BXOS1A
7	Guide pins	BXOG1A
14	Long jackscrews	CXOL1A
14	Fixed jackscrews	CXOF1A
14	Short jackscrews	CXOS1A
14	Guide pins	CXOG1A
20	Long jackscrews	DXOL1A
20	Fixed jackscrews	DXOF1A
20	Short jackscrews	DXOS1A
20	Guide pins	DXOG1A
26	Long jackscrews	EXOL1A
26	Fixed jackscrews	EXOF1A
26	Short jackscrews	EXOS1A
26	Guide pins	EXOG1A
34	Long jackscrews	FXOL1A
34	Fixed jackscrews	FXOF1A
34	Short jackscrews	FXOS1A
34	Guide pins	FXOG1A
44	Long jackscrews	GXOL1A
44	Fixed jackscrews	GXOF1A
44	Short jackscrews	GXOS1A
44	Guide pins	GXOG1A
50	Long jackscrews	HXOL1A
50	Fixed jackscrews	HXOF1A
50	Short jackscrews	HXOS1A
50	Guide pins	HXOG1A

^{1/} "X" indicate shield types.

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NOTICE 4

TABLE 103.III. Standard connectors, MIL-C-28748 type.

Contacts		
Number of contacts	Mounting	Part number ^{1/} M28748/14-
4	Long jackscrews	AXOL1A
4	Fixed jackscrews	AXOF1A
4	Short jackscrews	AXOS1A
4	Guide pins	AXOG1A
7	Long jackscrews	BXOL1A
7	Fixed jackscrews	BXOF1A
7	Short jackscrews	BXOS1A
7	Guide pins	BXOG1A
14	Long jackscrews	CXOL1A
14	Fixed jackscrews	CXOF1A
14	Short jackscrews	CXOS1A
14	Guide pins	CXOG1A
20	Long jackscrews	DXOL1A
20	Fixed jackscrews	DXOF1A
20	Short jackscrews	DXOS1A
20	Guide pins	DXOG1A
26	Long jackscrews	EXOL1A
26	Fixed jackscrews	EXOF1A
26	Short jackscrews	EXOS1A
26	Guide pins	EXOG1A
34	Long jackscrews	FXOL1A
34	Fixed jackscrews	FXOF1A
34	Short jackscrews	FXOS1A
34	Guide pins	FXOG1A
44	Long jackscrews	GXOL1A
44	Fixed jackscrews	GXOF1A
44	Short jackscrews	GXOS1A
44	Guide pins	GXOG1A
50	Long jackscrews	HXOL1A
50	Fixed jackscrews	HXOF1A
50	Short jackscrews	HXOS1A
50	Guide pins	HXOG1A

^{1/} "X" indicate shield types.

Supersedes page 103.23 and 103.24
of MIL-STD-1353B.

103.23/103.24

MIL-STD-1353B
NOTICE 4

MIL-C-81659 PART NUMBER SYSTEM

Part number example: M81659/29A2-0002

Key:	M81659/XX	X	X	XXXX
Military specification sheet	_____	_____	_____	_____
Dash number	_____	_____	_____	_____
Series	_____	_____	_____	_____
Insert	_____	_____	_____	_____

Criteria:

Plug, single insert, crimp, type II, class 1, series 2.	M81659
Receptacle, single insert, crimp, type II, class 1, series 2.	/29
Plug, dual insert, crimp, type II, class 1, series 2.	/31
Receptacle, dual insert, crimp, type II, class 1, series 2.	/33
	/35

Shell sizes: A - Accommodate keystone insert.

Series: 2 - Rear release contacts.

Insert arrangements: MS3157.

Contacts: MIL-C-39029/11 or MIL-C-39029/12.
MS3172 or MS3173.

Standard connectors: See table 103-V.

Supersedes page 103.25 and 103.26
of MIL-STD-1353B.

103.25/103.26