

NOTE: MIL-STD-1683 has been redesignated as a Design Criteria Standard. The cover page has been changed for Administrative reasons. There are no other changes to this Document.

INCH-POUND

MIL-STD-1683B (SH)
31 MARCH 1989
SUPERSEDING
MIL-STD-1683A (SH_
8 NOVEMBER 1982
(SEE 6.3)

DEPARTMENT OF DEFENSE
DESIGN CRITERIA
CONNECTORS AND JACKETED CABLE,
ELECTRIC, ESLECTION STANDARD
FOR SHIPBOARD USE



AMSC N/A

FSC 5998

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MIL-STD-1683B(SH)

**DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON, DC 20362-5101**

Connectors and Jacketed Cable, Electric, Selection Standard for Shipboard use

1. This Military Standard is approved for use by the Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.
2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Sea Systems Command, SEA 55Z3, Department of the Navy, Washington, DC 20362-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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FOREWORD

The purpose of this standard is to standardize connector and insert and wiring assignments for lightweight, low smoke and general outboard cable for new design. This standard covers the majority of uses and is arranged in a form for quick reference and selection. The applicable connector specification should be used for specific design details.

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1. SCOPE

1.1 Scope. This standard is intended for use in selecting the proper connector shell size and insert combination to fit particular MIL-C-915, MIL-C-24640, and MIL-C-24643 cables. In addition, it includes wiring information (cable conductor to connector contact assignments), data for selecting connector hardware accessories, and information regarding certain rectangular connectors.

1.1.1 Application. This standard is to be used as guidance for general shipboard interfacing of cables and connectors. There may be specific applications which require a connector and cable combination other than the combination recommended by this standard.

1.2 Classification:1.2.1 Connectors.

1.2.1.1 General. General connectors shall be as specified in MIL-C-5015.

1.2.1.2 High density, high shock. High density, high shock connectors shall be as specified in MIL-C-28840.

1.2.1.3 Rectangular connectors. Rectangular connectors used for rack and panel and similar applications shall be as specified in MIL-C-28731.

1.2.2 Cables.

1.2.2.1 Specific. Specific cables shall be as specified in MIL-C-915.

1.2.2.2 Lightweight. Lightweight low smoke cables shall be as specified in MIL-C-24640.

1.2.2.3 Low smoke. Standard low smoke cables shall be as specified in MIL-C-24643.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

MILITARY

MIL-C-915

- Cable and Cord, Electrical, for Shipboard Use,
General Specification For.

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MILITARY - Continued.

- MIL-C-915/5 - Cable, Electrical, 300 Volts, Type DLT.
- MIL-C-915/7 - Cable, Electrical, Type DSWS.
- MIL-C-915/8 - Cable, Electrical, 600 Volts, Types DSS, TSS, FSS and 7SS
- MIL-C-915/20 - Cable, Electrical, 600 Volts, Type TRF.
- MIL-C-915/21 - Cable, Electrical, 125 Volts, Type TRXF.
- MIL-C-915/22 - Cable, Electrical, 300 Volts, Type TSP, (Including Variation Type TSPA).
- MIL-C-915/47 - Cable, Electrical, Type 1 SWF.
- MIL-C-915/48 - Cable, Electrical, Type 2 SWF.
- MIL-C-915/58 - Cable, Electrical, 600 Volts, Type MWF.
- MIL-C-915/61 - Cable, Electrical, Type S2S.
- MIL-C-915/66 - Cable, Electrical, 59-Conductor, Type MSPW.
- MIL-C-915/67 - Cable, Electrical, 59-Conductor, Type MSP.
- MIL-C-915/74 - Cable, Electrical, 600 Volts, Type 5SS.
- MIL-C-915/79 - Cable, Electrical, Type TPUM-6.
- MIL-C-5015 - Connectors, Electrical, Circular Threaded, AN Type, General Specification for.
- MIL-C-24640 - Cable, Electrical, Lightweight for Shipboard use, General Specification for.
- MIL-C-24640/1 - Cable, Electrical, 600 Volts, Lightweight, Two Conductor, Power, Type DX (Including Variation Type DXA).
- MIL-C-24640/2 - Cable, Electrical, 600 Volts, Lightweight, Three Conductor, Power, Type TX (Including Variation Type TXA).
- MIL-C-24640/3 - Cable, Electrical, 600 Volts, Lightweight, Four Conductor, Power, Type FX (Including Variation Type FXA).
- MIL-C-24640/4 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 20, Type TTX (Including Variation Type TTXA).
- MIL-C-24640/5 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 20, Type TTXS (Including Variation Types TTXSA and TTXSO).
- MIL-C-24640/6 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 22, Type 2XA0.
- MIL-C-24640/7 - Cable, Electrical, 600 Volts, Lightweight, Multi-Conductor, AWG 22, Type 1XMS0.
- MIL-C-24640/8 - Cable, Electrical, 600 Volts, Lightweight, Multi-Conductor, AWG 20, Type MX0.
- MIL-C-24640/9 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 22, Type 2XS (Including Variation Types 2XSA and 2XSO).
- MIL-C-24640/10 - Cable, Electrical, 600 Volts, Lightweight, Multi-Conductor, AWG 16, Type MXS0.
- MIL-C-24640/11 - Cable, Electrical, 600 Volts, Lightweight, Multi-Triad, AWG 18, Type 3XS (Including Variation Type 3XSA).

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MILITARY - Continued.

- MIL-C-24640/12 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 26, Type 2X0.
- MIL-C-24640/13 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 26, Type 2XS0.
- MIL-C-24640/14 - Cable, Electrical, 600 Volts, Lightweight, Multi-Conductor, AWG 22, Type 1XSOW.
- MIL-C-24640/15 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 22, Type 2XSAW (Including Variation Types 2XSAOW and 2XSAWA).
- MIL-C-24640/16 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 18, Type 2XSW (Including Variation Types 2XSOW and 2XSWA).
- MIL-C-24640/17 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 26, Type 2XOW.
- MIL-C-24640/18 - Cable, Electrical, 600 Volts, Lightweight, Multi-Triad, AWG 18, Type 3XSW (Including Variation Types 3XSOW and 3XSWA).
- MIL-C-24640/19 - Cable, Electrical, 600 Volts, Lightweight, Two Conductor, Power, Type DXW (Including Variation Types DXOW and DXWA).
- MIL-C-24640/20 - Cable, Electrical, 600 Volts, Lightweight, Three Conductor, Power, Type TXW (Including Variation Types TXWA and TXOW).
- MIL-C-24640/21 - Cable, Electrical, 600 Volts, Lightweight, Four Conductor, Power, Type FXW (Including Variation Types FXWA and FXOW).
- MIL-C-24640/22 - Cable, Electrical, 600 Volts, Lightweight, Seven Conductor, Power, Type 7XW (Including Variation Type 7XWA).
- MIL-C-24640/23 - Cable, Electrical, 600 Volts, Lightweight, Multi-Conductor, AWG 18, Type MXCW (Including Variation Types MXCOW and MXCWA).
- MIL-C-24640/24 - Cable, Electrical, 600 Volts, Lightweight, Multi-Pair, AWG 22, Type TTXW (Including Variation Types TTXOW and TTXWA).
- MIL-C-24643 - Cable and Cord, Electrical, Low Smoke, for Shipboard use, General Specification for.
- MIL-C-24643/2 - Cord, Electrical, 300 Volts, Types LSDCOP and LSTCOP.
- MIL-C-24643/3 - Cable, Electrical, 600 Volts, Types LSSHOF, LSDHOF, LSTHOF, and LSFHOF.
- MIL-C-24643/4 - Cord, Electrical, 600 Volts, Type LSMCOS.
- MIL-C-24643/7 - Cable, Electrical, 600 Volts, Type LSMHOF.
- MIL-C-24643/8 - Cord, Electrical, 300 Volts, Type LSMMOP.
- MIL-C-24643/10 - Cable, Electrical, Type LSPBTMU (Including Variation LSPBTM).
- MIL-C-24643/12 - Cable, Electrical, 300 Volts, Type LSTTOP.

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MILITARY - Continued.

- MIL-C-24643/13 - Cable, Electrical, 300 Volts, Type LSTTRS
(Including Variation LSTTRSA).
- MIL-C-24643/14 - Cable, Electrical, 1000 Volts, Type LSSSGU
(Including Variation LSSSGA).
- MIL-C-24643/15 - Cable, Electrical, 1000 Volts, Type LSDSGU
(Including Variation LSDSGA).
- MIL-C-24643/16 - Cable, Electrical, 1000 Volts, Type LSTSGU
(Including Variation LSTSGA).
- MIL-C-24643/17 - Cable, Electrical, 1000 Volts, Type LSFSGU
(Including Variation LSFSGA).
- MIL-C-24643/18 - Cable, Electrical, 1000 Volts, Type LSMSCU
(Including Variations LSMSCA and LSMSCS).
- MIL-C-24643/20 - Cable, Electrical, 1000 Volts, Type LS7SGU
(Including Variation LS7SGA).
- MIL-C-24643/21 - Cable, Electrical, Types LSTCJU and LSTCTU
(Including Variations LSTCJA and LSTCTA).
- MIL-C-24643/23 - Cable, Electrical, 300 Volts, Type LSTTSU
(Including Variation LSTTSA).
- MIL-C-24643/24 - Cable, Electrical, Types LSTCJX, LSTCKX and
LSTCTX.
- MIL-C-24643/25 - Cable, Electrical, Type LSPI.
- MIL-C-24643/26 - Cable, Electrical, 600 Volts, Types LSDPS,
LSFPS, LSTPS and LS7PS.
- MIL-C-24643/27 - Cable, Electrical, 600 Volts, Type LS2AU
(Including Variations LS2A and LS2AUS).
- MIL-C-24643/28 - Cable, Electrical, Type LS1S50MU (Including
Variations LS1S50MA and LS1S5PMUS).
- MIL-C-24643/29 - Cable, Electrical, 300 Volts, Type LSMU
(Including Variations LSMA and LSMUS).
- MIL-C-24643/30 - Cable, Electrical, Type LS1SWU (Including
Variation LS1SWA).
- MIL-C-24643/31 - Cable, Electrical, Type LS2SU (Including
Variations LS2SA and LS2SUS).
- MIL-C-24643/32 - Cable, Electrical, Type LS2SWAU (Including
Variation LS2SWA).
- MIL-C-24643/33 - Cable, Electrical, Type LS2SWU (Including
Variation LS2SWUA).
- MIL-C-24643/34 - Cable, Electrical, 300 Volts, Type LSMS
(Including Variation LSMSA).
- MIL-C-24643/35 - Cable, Electrical, Type LS3SU (Including
Variations LS3SA and LS3SUS).
- MIL-C-24643/36 - Cable, Electrical, Type LS3SWU (Including
Variations LS3SWA and LS3SWUS).
- MIL-C-24643/37 - Cable, Electrical, Type LS3U (Including
Variation LS3UA).
- MIL-C-24643/38 - Cable, Electrical, 600 Volts, Type LSECM
(Including Variation LSECMA).
- MIL-C-24643/39 - Cable, Electrical, Type LS1S75MU (Including
Variation LS1S75MA).

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MILITARY - Continued.

- MIL-C-24643/40 - Cable, Electrical, Type LS1SMU (Including Variation LS1SMA).
- MIL-C-24643/41 - Cable, Electrical, Type LS1SAU (Including Variation LS1SA).
- MIL-C-24643/42 - Cable, Electrical, Type LS1SU (Including Variation LS1SUA).
- MIL-C-24643/43 - Cable, Electrical, 600 Volts, Types LS2SJ, LS3SJ, and LS4SJ (Including Variations LS2SJA, LS3SJA, and LS4SJA).
- MIL-C-24643/44 - Cable, Electrical, 600 Volts, Type LS3SF.
- MIL-C-24643/45 - Cable, Electrical, 300 Volts, Type LS2U (Including Variation LS2UA).
- MIL-C-24643/46 - Cable, Electrical, 600 Volts, Type LS2WAU (Including Variation LS2WA).
- MIL-C-24643/47 - Cable, Electrical, Type LS1SMWU (Including Variation LS1SMWA).
- MIL-C-24643/48 - Cable, Electrical, 1000 Volts, Two Conductor, Type LSDNW (Including Variation LSDNWA).
- MIL-C-24643/49 - Cable, Electrical, 1000 Volts, Three Conductor, Type LSTNW (Including Variation LSTNWA).
- MIL-C-24643/50 - Cable, Electrical, 1000 Volts, Four Conductor, Type LSFNW (Including Variation LSFNWA).
- MIL-C-24643/51 - Cable, Electrical, 1000 Volts, Multiconductor, Type LSMNW (Including Variation LSMNWA).
- MIL-C-24643/52 - Cable, Electrical, 300 Volts, Type LSTPNW (Including Variation LSTPNWA).
- MIL-C-24643/53 - Cable, Electrical, 3000 Volts, Types LSSRW, LSDRW, and LSTRW (Including Variations LSSRWA, LSDRWA, and LSTRWA).
- MIL-C-24643/54 - Cable, Electrical, Type LS8NW6 (Including Variation LS8NWA6).
- MIL-C-24643/55 - Cable, Electrical, Type LS4NW8 (Including Variation LS4NWA8).
- MIL-C-24643/56 - Cable, Electrical, Type LS2SWL-7 (Including Variation LS2SWLA-7).
- MIL-C-24643/57 - Cable, Electrical, Type and Size LS2UW-42 (Including Variations LS2UWA-42 and LS2UWS-42).
- MIL-C-28731 - Connectors, Electrical, Rectangular, Removable Contact, Formed Blade, Fork Type (for Rack and Panel and Other Applications), General Specification for.
- MIL-C-28731/17 - Connector, Electrical, Insert (Insulator), Male Rectangular, Polarized, Center Screw Lock, for 120 Removable Contacts.
- MIL-C-28731/20 - Connector, Electrical, Contact, Fork Type, Crimp Removable (8.5 Amperes).
- MIL-C-28840 - Connectors, Electrical, Circular Threaded, High Density, High Shock Shipboard, Class D, General Specification for.

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MILITARY - Continued.

- MIL-C-28840/6 - Connectors, Electrical, Circular Threaded, High Shock, High Density, Shipboard, Backshell, Straight, Cable Sealing and Shield Termination, Connector Electric.
- MIL-C-28840/8 - Connectors, Electrical, Circular, Threaded, High Shock, High Density, Shipboard, Backshell, 90°, Cable Sealing and Shield Termination, Connector, Electric.
- MIL-C-28840/9 - Connectors, Electrical, Circular Threaded, High Shock, High Density, Shipboard, Backshell, 45°, Cable Sealing and Shield Termination, Connector, Electric.
- MIL-C-39029 - Contacts, Electrical Connector, General Specification for.
- MIL-C-39029/44 - Contacts, Electrical Connector, Pin, Crimp Removable, (for MIL-C-5015 Series MS3400 Connectors).
- MIL-C-39029/45 - Contacts, Electrical Connector, Socket, Crimp Removable, (for MIL-C-5015 Series MS3400 Connectors).
- MIL-C-85049 - Connector Accessories, Electrical General Specification for.
- MIL-C-85049/6 - Connector Accessories, Electrical, Backshell, Cable Sealing, 45°, Shield Termination, Category 1A (for MIL-C-5015 Crimp, MIL-C-26482 Series 2, MIL-C-81703 Series 3, and MIL-C-83723 Series III Connectors).
- MIL-C-85049/7 - Connector Accessories, Electrical, Backshell, Cable Sealing, 45°, Category 1A (for MIL-C-5015 Crimp, MIL-C-26482 Series 2, MIL-C-81703 Series 3, and MIL-C-83723 Series III Connectors).
- MIL-C-85049/8 - Connector Accessories, Electrical, Backshell, Cable Sealing, 90°, Shield Termination, Category 1A (for MIL-C-5015 Crimp, MIL-C-26482 Series 2, MIL-C-81703 Series 3, and MIL-C-83723 Series III Connectors).
- MIL-C-85049/9 - Connector Accessories, Electrical, Backshell, Cable Sealing, 90°, Category 1A (for MIL-C-5015 Crimp, MIL-C-26482 Series 2, MIL-C-81703 Series 3, and MIL-C-83723 Series III Connectors).
- MIL-C-85049/10 - Connector Accessories, Electrical, Backshell, Cable Sealing, Straight, Shield Termination, Category 1A (for MIL-C-5015 Crimp, MIL-C-26482 Series 2, MIL-C-81703 Series 3, and MIL-C-83723 Series III Connectors).
- MIL-C-85049/11 - Connector Accessories, Electrical, Backshell, Cable Sealing, Straight, Category 1A (for MIL-C-5015 Crimp, MIL-C-26482 Series 2, MIL-C-81703 Series 3, and MIL-C-83723 Series III Connectors).

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MILITARY - Continued.

- MIL-C-85049/23 - Connector Accessories, Electrical, Backshell, Nonenvironmental, 45°, Shield Termination, Category 3A (for MIL-C-5015 Crimp, MIL-C-26482 Series 2, MIL-C-81703 Series 3, and MIL-C-83723 Series III connectors).
- MIL-C-85049/24 - Connector Accessories, Electrical, Backshell, Nonenvironmental, 90°, Shield Termination, Category 3A (for MIL-C-5015 Crimp, MIL-C-26482 Series 2, MIL-C-81703 Series 3, and MIL-C-83723 Series III Connectors).
- MIL-C-85049/25 - Connector Accessories, Electrical, Backshell, Nonenvironmental, Straight, Shield Termination, Category 3A (for MIL-C-5015 Crimp, MIL-C-26482 Series 2, MIL-C-81703 Series 3, and MIL-C-83723 Series III Connectors).

STANDARDS

MILITARY

- MIL-STD-1310 - Shipboard Bonding, Grounding, and Other Techniques for Electromagnetic Compatibility and Safety.
- MIL-STD-1698 - Insert Arrangements for MIL-C-28840(EC) High Density, High Shock Circular Electrical Connectors.
- MS3187 - Plug, End Seal, for MIL-C-26482, MIL-C-5015, MIL-C-81703 and MIL-C-83723 Electrical Connectors.
- MS3348 - Contact Bushing, Electric, Wire Barrel.
- MS3401 - Connectors, Receptacle, Electric, Cable Connecting, Front Release, Crimp Contact, AN Type.

(Unless otherwise indicated, copies of federal and military specifications and standards are available from the Naval Publications and Forms Center, (ATTN: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099.)

2.2 Non-Government publications. The following document forms a part of this document to the extent specified herein. Unless otherwise specified, the issue of the document which is DoD adopted is listed in the issue of the DoDISS cited in the solicitation (see 6.2).

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- B 286 - Standard Specification for Copper Conductors for use in Hookup Wire for Electronic Equipment. (DoD adopted)

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(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103-1187.)

(Nongovernment standards are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document shall take precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. DEFINITIONS

This section is not applicable to this standard.

4. GENERAL REQUIREMENTS

4.1 Connector and cable selection. The connectors and cables shall be selected from the lists specified in this standard. The lists are formulated based on the best match of contact quantity and size to quantity, size, and maximum finished wire diameter of conductors.

4.2 Shell size and insert arrangement combinations. The shell size and insert arrangement combinations listed in this standard are formulated based on the best match of backshell size and cable sealing range to insert size and cable maximum outside diameter.

4.3 Overall shield or group shield. The overall shield or group shield (for example shielded singles and shielded pairs) is treated as a conductor and is listed in the wiring information as a conductor to be connected through a connector contact. This approach indicates a maximum usage or worse case condition. Shielding techniques shall be in accordance with MIL-STD-1310.

4.4 Cables not listed. Discontinued and obsolete cables are not contained in this document.

4.5 Armored cable and electromagnetic interference (EMI) adapters. Armored cables shall use the same connector/inserts and contact assignments as their unarmored counterparts (for example, TSGA-3 uses the same connector as TSGU-3). Additionally, the EMI adapter is required on backshells.

4.6 Information on MIL-C-5015 connectors.

4.6.1 Backshell hardware for MIL-C-5015 connectors. For detailed information on the backshell hardware, see the applicable specification sheet of MIL-C-85049, /6, /7, /8, /9, /10, /11, /23, /24, or /25.

4.6.2 Contact information for MIL-C-5015 connectors. Contacts for MIL-C-5015 connectors shall be as specified in table I.

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TABLE I. MIL-C-5015 contact information.

Wire size (AWG)	Strip length (inch)	Front release contact		Installing tool	Removal tool	Crimp tool		Sealing plug MS3187
		Pin M39029/44	Socket M39029/45			M22520/1-01 with positioner	M22520/23-01 with die	
22, 24, 26	0.250	-287	-294	-09	-01	/1-02 Blue	----	-16-2
16, 18, 20	.250	-288	-295	-01	-01	/1-02 Blue	----	-16-2
16, 18, 20	.250	-289	-296	-02	-02	/1-02 Yellow	----	-12-2
12, 14, 16	.250	-290	-297	-02	-02	/1-02 Yellow	----	-12-2
8 and 10 $\frac{1}{2}$	.500	-291	-298	-06	-03	----	/23-02	-8-2
4 and 6 $\frac{2}{3}$	.500	-292	-299	-07	-04	----	/23-04	-4-2
0 and 2 $\frac{3}{4}$	.625	-293	-300	-08	-05	----	/23-05	-0-2

1/ For size 10 wire use MIL-C-39029, MIL-C-39029/44-291, or MIL-C-39029/45-298 contact with MS3348, MS3348-8-10 bushing adapter.

2/ For size 6 wire, use MIL-C-39029/44-292 or MIL-C-39029/45-299 contact with MS3348-4-8 bushing adapter.

3/ For size 2 wire, use MIL-C-39029/44-293 or MIL-C-39029/45-300 contact with MS3348-0-2 bushing adapter.

4.6.3 Contact identification. Contacts shown in sections 100, 200, and 300 are identified and marked as they appear on the actual insert.

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4.7.2 Contact information for MIL-C-28840 connectors. Contacts for MIL-C-28840 connectors shall be as specified in table II.

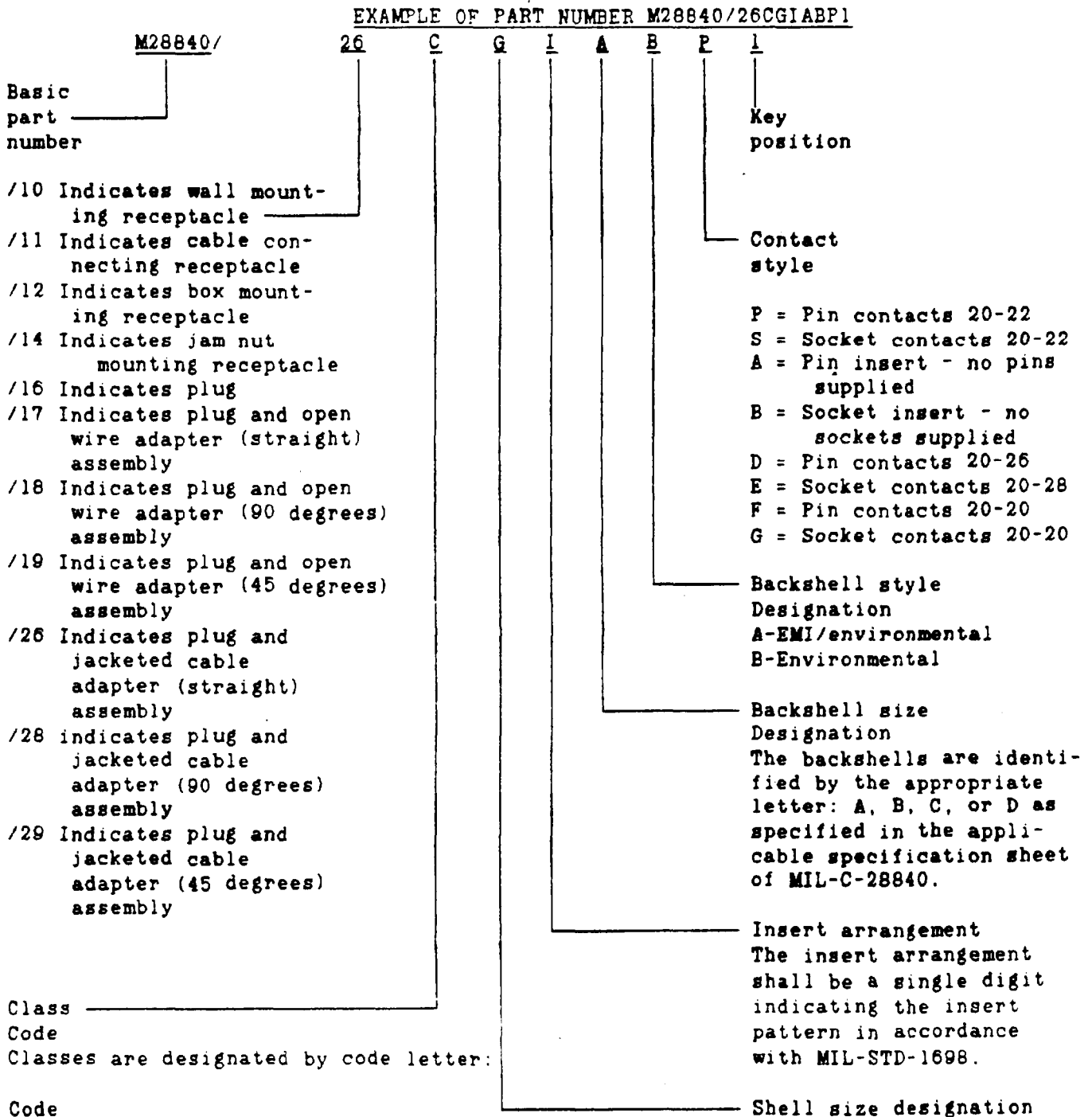
TABLE II. MIL-C-28840 contact information.

Wire size (AWG)	Strip length (inch)	Front release contact		Installing tool M81969/33	Removal tool M81969/34	Crimp tool M22520/34-01 with positioner	Sealing plug MS27186
		Pin M39029/83	Socket M39029/84				
20,22,24	0.1875	-508	-509	-01	-01	-02	-1
22,24,26	.1875	-450	-452	-01	-01	-02	-1
28,30,32	.1875	-451	-453	-01	-01	-02	-1

4.7.3 Contact identification. Contacts on the actual inserts shall be identified and marked. However, in order to provide a less cluttered diagram, only the outer contacts shall be marked on the inserts shown in sections 400, 500, and 600. To aid in a proper count, every tenth contact is shown in parentheses ().

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4.7.4 Part numbering system for MIL-C-28840 connectors. An example of the complete part number of connectors is shown below. For individual data and ordering information, see MIL-C-28840.



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EXAMPLE OF PART NUMBER M28840/26CGIABP1 - Continued.

Letter class

- A D - Aluminum alloy connector with fused cadmium (OD) over electroless nickel finish-fluorosilicone elastomer seals
- B DS - Stainless steel connector with fused cadmium (black) over nickel finish-fluorosilicone elastomer seals.
- C DJ - Aluminum alloy backshell-connector assembly with fused cadmium (OD) over electroless nickel finish-fluorosilicone elastomer seals.
- E DJS - Stainless steel backshell-connector assembly with fused cadmium (black) over nickel finish-fluorosilicone elastomer seals.

Shell sizes are designated by code letter:

Code letter	Shell size
A	11
B	13
C	15
D	17
E	19
F	23
G	25
H	29
J	33

5. DETAILED REQUIREMENTS

5.1 Connector to cable information sheets. The connector to cable information sheets contain the following information.

5.1.1 Insert diagrams (figures 1 through 65). Each information sheet gives a wiring-side view of a socket (receptacle) and information regarding the quantity and size of the contacts.

5.1.2 Cable information. The following information is given for all cable types to which the insert is assigned:

- (a) Cable type.
- (b) Minimum and maximum cable outside diameter.
- (c) Minimum and maximum finished wire diameter.
- (d) Quantity and size of conductors and shields.
- (e) Applicable cable specification sheet.
- (f) Military part number of the complete connector for the cable.

5.1.3 Wiring information. Following the cable information, each information sheet gives the wiring information (contact assignments) for each cable type. Where more than one color is shown for a conductor, the first color is the background or base color and the remaining colors are those of the tracers. Unless otherwise noted, an asterisk (*) in the wiring information denotes an unused contact.

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5.2 Connector to cable information sheet organization. The connector to cable information sheets are divided into six sections as follows:

Section 100 - MIL-C-5015 connectors to MIL-C-915 cables.
Section 200 - MIL-C-5015 connectors to MIL-C-24640 cables.
Section 300 - MIL-C-5015 connectors to MIL-C-24643 cables.
Section 400 - MIL-C-28840 connectors to MIL-C-915 cables.
Section 500 - MIL-C-28840 connectors to MIL-C-24640 cables.
Section 600 - MIL-C-28840 connectors to MIL-C-24643 cables.

Note: Section 300 also contains the special case of 104 pin, size 16 contact, MIL-C-5015 connector on one end, and a 90- or 120-pin rectangular MIL-C-28731 connector on the other end of type LS2U-45, MIL-C-24643/45 cable.

Tables III through XIV, located in the applicable sections, are cross-reference tables that allow the user to select the cables that fit a particular insert, or the best insert for a particular cable covered in that section.

6. NOTES

(This section contains information of a general or explanatory nature that may be used, but is not mandatory.)

6.1 Intended use. This document is intended to be used in the matching of electric cables to the connector best suited to that cable for general applications. There may be special applications that require a different connector for a particular cable. These situations are not within the scope of this document.

6.2 Subject term (key word) listing.

Aluminum alloy
Backshells
Insert arrangement
Parts numbering systems
Stainless steel
Wiring

6.3 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Preparing activity:
Navy - SH
(Project 5935-N327)

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SECTION 100

TABLE III. MIL-C-5015 connector insert to MIL-C-915 cable cross reference.

Insert	Cables
10SL-3 (11-3)	DSS-2
14S-2 (15-2)	DLT, DSS-3, S2S, TSS-2, -3, 1SWF-2
16S-1 (17-1)	FSS-2, -3, MWF-7, 5SS,
18-1	MWF-10, 2SWF-3, 7SS-2
20-2	TRF-105, TRXF-84
20-4	DSS-4, DSWS-4, TSS-4
20-27	MWF-14, TPU-6, 2SWF-4,
22-23	FSS-4
24-28	MWF-19, -24, TSP-11, 2SWF-7,
28-21	MWF-30, -37
40-56	TSP-31
44-52	MSP, MSPW

TABLE IV. MIL-C-915 cable to MIL-C-5015 connector insert cross-reference.

Cable	Insert	Cable	Insert	Cable	Insert
DLT	14S-2	TPU-6	20-27	2SWF-3	18-1
DSS-2	10SL-3	TRF-105	20-2	2SWF-4	20-27
DSS-3	14S-2	TRXF-84	20-2	2SWF-7	24-28
DSS-4	20-4	TSP-11	24-28	5SS	16S-1
DSWS-4	20-4	TSP-31	40-56	7SS-2	18-1
FSS-2,3	16S-1	TSS-2	14S-2	14S-2	
FSS-4	22-23	TSS-3	20-4		
MSP	44-52	1SWF-2	14S-2		
MSPW	44-52				
MWF-7	16S-1				
MWF-10	18-1				
MWF-14	20-27				
MWF-19	24-28				
MWF-24	24-28				
MWF-30	28-21				
MWF-37	28-21				
S2S	14S-2				

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SH 132317515



Insert 10SL-3
 Contacts
 Qty: 3
 Size 16, 16S

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C -915/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
DSS-2	0.370	0.390			3	18	0.0456	8	MS340 * DJ11 B 3 P/S

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>
10SL-3	DSS-2
A	1 BLK
B	1 WHT
C	SHLD

FIGURE 1. Information on insert and wiring for 10SL-3.

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SECTION 100

SH 132317516



Insert 14S-2
Contacts
Qty: 4
Size 16, 16S

CABLE			CONDUCTORS/SHIELDS					MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
OUTSIDE DIAMETER (INCH)			FINISHED WIRE DIAMETER (INCH)			DIAMETER (INCH)			
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL		
DLT	0.657	0.710			4	18	0.0456	5	MS340 * DJ15 B 2 P/S
DSS-3	.480	.500			3	16	.0576	8	MS430 * DJ15 D 2 P/S
S2S	.480	.500			3	18	.0456	61	MS340 * DJ15 D 2 P/S
TSS-2	.385	.400			4	18	.0456	8	MS340 * DJ15 A 2 P/S
TSS-3	.480	.500			4	16	.0576	8	MS340 * DJ15 D 2 P/S
1SWF-2	.600	.625			4	22	.0320	47	MS340 * DJ15 B 2 D/E

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>				
14S-2	DSS-3	S2S	DLT	TSS-2,3	1SWF-2
A	1 BLK	BLK	1 BLK	1 BLK	1 BLK
B	1 WHT	SHLD (Inner)	2 WHT	2 WHT	SHLD
C	SHLD	SHLD (Outer)	3 RED	3 RED	2 WHT
D	*	*	4 GRN	SHLD	SHLD

FIGURE 2. Information on insert and wiring for 14S-2.

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SECTION 100

SH 132317517



Insert 16S-1
Contacts
Qty: 7
Size 16, 16S

CABLE			CONDUCTORS/SHIELDS				MIL-C 915/	CONNECTOR MILITARY PART NUMBER
OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)	DIAMETER (INCH)						
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
FSS-2	0.480	0.500			5	18	0.0456	8 MS340 * DJ17 E 1 P/S
FSS-3	.480	.500			5	18	.0576	8 MS340 * DJ17 E 1 P/S
MWF	.480	.500			7	18	.0456	58 MS340 * DJ17 E 1 P/S
5SS	.500	.560			7	18	.0456	74 MS340 * DJ17 A 1 P/S

WIRING INFORMATION

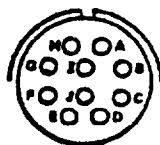
<u>INSERT</u>	<u>CABLE TYPE</u>		
16S-1	FSS-2,3	5SS	MWF-7
G	1 BLK	BLK	1 BLK
A	2 WHT	2 WHT	2 WHT
B	3 RED	3 WHT	3 RED
C	4 GRN	SHLD	4 GRN
D	SHLD	4 GRN	5 ORN
E	*	5 RED	6 BLU
F	*	*	7 WHT/BLK

FIGURE 3. Information on insert and wiring for 16S-1.

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SECTION 100

SH 132317518



Insert 18-1
 Contacts
 Qty: 10
 Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C -915/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
MWF-10	0.605	0.635			10	18	0.0456	58	MS340 * DJ18 B 1 P/S
2SWF-3	.600	.625			9	22	.0320	48	MS340 * DJ18 B 1 D/E
7SS-2	.600	.625			8	18	.0456	8	MS340 * DJ18 B 1 P/S

WIRING INFORMATION

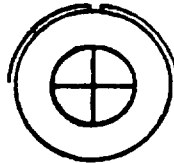
<u>INSERT</u>	<u>CABLE TYPE</u>		
18-1	2SWF-3	MWF-10	7SS-2
J	1 BLK	1 BLK	1 BLK
I	1 WHT	2 WHT	2 WHT
A	SHLD	3 RED	3 RED
B	2 BLK	4 GRN	4 GRN
C	2 WHT	5 ORN	5 ORN
D	SHLD	6 BLU	6 BLU
E	3 BLK	7 WHT/BLK	7 BRN
F	3 WHT	8 RED/BLK	SHLD
G	SHLD	9 GRN/BLK	*
H	*	10 ORN/BLK	*

FIGURE 4. Information on insert and wiring for 18-1.

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SECTION 100

SH 132317519



Insert 20-2
 Contacts
 Qty: 1
 Size 0

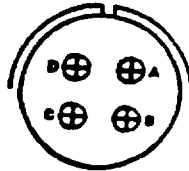
TYPE	CABLE OUTSIDE DIAMETER (INCH)		CONDUCTORS/SHIELDS FINISHED WIRE DIAMETER (INCH)				DIAMETER (INCH)		MIL-C- -915/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL			
TRF-105	0.703	0.760			1	0	0.373	20		MS340 * DJ20 G 2 P/S
TRXF-84	.550	.600			1	1	.332	21		MS340 * DJ20 B 2 P/S

FIGURE 5. Information on insert and wiring for 20-2.

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SECTION 100

SH 1323175110



Insert 20-4
 Contacts
 Qty: 4
 Size 12

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C -915/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
DSS-4	0.480	0.500			3	14	.0726	8 MS340 * DJ20 A 4 P/S
DSWS-4	.770	.800			3	14	.0726	7 MS340 * DJ20 G 4 P/S
TSS-4	.480	.500			4	14	.0726	8 MS340 * DJ20 A 4 P/S

WIRING INFORMATION

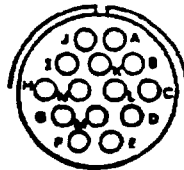
<u>INSERT</u>	<u>CABLE TYPE</u>	
20-4	DSS-4 DSWS-4	TSS-4
A	1 BLK	1 BLK
B	2 WHT	2 WHT
C	SHLD	3 RED
D	*	SHLD

FIGURE 6. Information on insert and wiring for 20-4.

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SECTION 100

SH 1323175111



Insert 20-27
Contacts
Qty: 14
Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C -915/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
MWF-14	0.605	0.635			14	18	0.0456	58	MS340 * DJ20 B 27 P/S
TPU-6	.925	1.000			12		.0126	79	MS340 * DJ20 E 27 P/S
2SWF-4	.600	0.625			12	22	.0320	48	MS340 * DJ20 B 27 D/E

WIRING INFORMATION

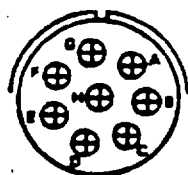
<u>INSERT</u>	<u>CABLE TYPE</u>		
20-27	TPU-6	2SWF-4	MWF-14
L	1 BLK	1 BLK	1 BLK
M	1 WHT	1 WHT	2 WHT
N	2 BLK	SHLD	3 RED
K	2 RED	2 BLK	4 GRN
B	3 BLK	2 WHT	5 ORN
C	3 GRN	SHLD	6 BLU
D	4 BLK	3 BLK	7 WHT/BLK
E	4 ORN	3 WHT	8 RED/BLK
F	5 BLK	SHLD	9 GRN/BLK
G	5 BLU	4 BLK	10 ORN/BLK
H	6 BLK	4 WHT	11 BLU/BLK
I	6 BRN	SHLD	12 BLK/WHT
J	*	*	13 RED/BLK
A	*	*	14 GRN/BLK

FIGURE 7. Information on insert and wiring for 20-27.

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SECTION 100

SH1323175112



Insert 22-23

Contacts

Qty: 8

Size 12

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C -915/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
FSS-4	0.600	0.625			5	14	0.0726	8	MS340 * DJ22 B 23 P/S

WIRING INFORMATION

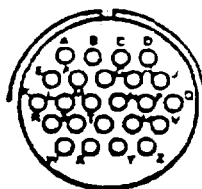
<u>INSERT</u>	<u>CABLE TYPE</u>
22-23	FSS-4
H	1 BLK
A	2 WHT
B	3 RED
C	4 GRN
D	SHLD
E	*
F	*
G	*

FIGURE 8. Information on insert and wiring for 22-23.

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SECTION 100

SH 1323175113



Insert 24-28
Contacts
Qty: 24
Size 16

CABLE			CONDUCTORS/SHIELDS				MIL-C -915/	CONNECTOR MILITARY PART NUMBER
OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)					DIAMETER (INCH)		
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
MWF-19	0.710	0.745			19	18	0.0456	58 MS340 * DJ24 A 28 P/S
MWF-24	.800	.836			24	18	.0456	58 MS340 * DJ24 D 28 P/S
TSP-11	.680	.730			22	22	.0320	22 MS340 * DJ24 A 28 D/E
2SWF-7	.780	.815			21	22	.0320	48 MS340 * DJ24 D 28 D/E

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>	
24-28	2SWF-7	TSP-11
M	1 BLK	1 BLK
N	1 WHT	1 WHT
T	SHLD	2 BLK
S	2 BLK	2 RED
L	2 WHT	3 BLK
F	SHLD	3 GRN
G	3 BLK	4 BLK
H	3 WHT	4 ORN
P	SHLD	5 BLK
U	4 BLK	5 BLU
Y	4 WHT	6 BLK
X	SHLD	6 BRN
W	5 BLK	7 BLK
R	5 WHT	7 GRA
K	SHLD	8 BLK
E	6 BLK	8 YEL
A	6 WHT	9 BLK
		MWF-19,24
		1 BLK
		2 WHT
		3 RED
		4 GRN
		5 ORN
		6 BLU
		7 WHT/BLK
		8 RED/BLK
		9 GRN/BLK
		10 ORN/BLK
		11 BLU/BLK
		12 BLK/WHT
		13 RED/WHT
		14 GRN/WHT
		15 BLU/WHT
		16 BLK/RED
		17 WHT/RED

FIGURE 9. Information on insert and wiring for 24-28.

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SECTION 100

WIRING INFORMATION - Continued.

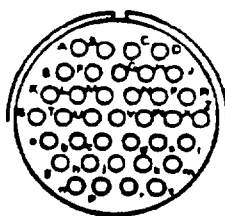
<u>INSERT</u>	<u>CABLE TYPE</u>		
24-28	2SWF-7	TSP-11	MWF-19,24
B	SHLD	9 PUR	18 ORN/RED
C	7 BLK	10 BLK	19 BLU/RED
D	7 WHT	10 TAN	20 RED/GRN
J	SHLD	11 BLK	21 ORN/GRN
Q	*	11 PNK	22 BLK/WHT/RED
V	*	*	23 WHT/BLK/RED
Z	*	*	24 RED/BLK/WHT

FIGURE 9. Information on insert and wiring for 24-28 - Continued.

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SECTION 100

SH1323175114



Insert 28-21
Contacts
Qty: 37
Size 16

CABLE			CONDUCTORS/SHIELDS					CONNECTOR MILITARY PART NUMBER
OUTSIDE DIAMETER (INCH)			FINISHED WIRE DIAMETER (INCH)			DIAMETER (INCH)		
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	MIL-C -915/
MWF-30	0.905	0.945			30	18	0.0456	58
MWF-37	1.005	1.045			37	18	.0456	58

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>	
28-21	MWF-30	MWF-37
V	1 BLK	1 BLK
W	2 WHT	2 WHT
d	3 RED	3 RED
c	4 GRN	4 GRN
U	5 ORN	5 ORN
M	6 BLU	6 BLU
N	7 WHT/BLK	7 WHT/BLK
P	8 RED/BLK	8 RED/BLK
X	9 GRN/BLK	9 GRN/BLK
e	10 ORN/BLK	10 ORN/BLK
k	11 BLU/BLK	11 BLU/BLK
j	12 BLK/WHT	12 BLK/WHT
h	13 RED/WHT	13 RED/WHT
b	14 GRN/WHT	14 GRN/WHT
T	15 BLU/WHT	15 BLU/WHT
L	16 BLK/RED	16 BLK/RED
F	17 WHT/RED	17 WHT/RED
G	18 ORN/RED	18 ORN/RED
H	19 BLU/RED	19 BLU/RED

FIGURE 10. Information on insert and wiring for 28-21.

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SECTION 100

WIRING INFORMATION - Continued.

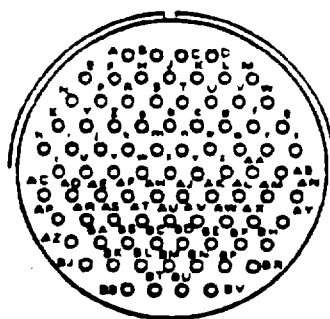
<u>INSERT</u>	<u>CABLE TYPE</u>	
28-21	MWF-30	MWF-37
J	20 RED/GRN	20 RED/GRN
R	21 ORN/GRN	21 ORN/GRN
Z	22 BLK/WHT/RED	22 BLK/WHT/RED
f	23 WHT/BLK/RED	23 WHT/BLK/RED
m	24 RED/BLK/WHT	24 RED/BLK/WHT
s	25 GRN/BLK/WHT	25 GRN/BLK/WHT
r	26 ORN/BLK/WHT	26 ORN/BLK/WHT
p	27 BLU/BLK/WHT	27 BLU/BLK/WHT
n	28 BLK/RED/GRN	28 BLK/RED/GRN
g	29 WHT/RED/GRN	29 WHT/RED/GRN
a	30 RED/BLK/GRN	30 RED/BLK/GRN
S	*	31 GRN/BLK/ORN
K	*	32 ORN/BLK/GRN
E	*	33 BLU/WHT/ORN
A	*	34 BLK/WHT/ORN
B	*	35 WHT/RED/ORN
C	*	36 ORN/WHT/BLU
D	*	37 WHT/RED/BLU

FIGURE 10. Information on insert and wiring for 28-21 - Continued.

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SECTION 100

SH 1323175115



Insert 40-56
Contacts
Qty: 85
Size 16

CABLE			CONDUCTORS/SHIELDS					CONNECTOR MILITARY PART NUMBER
OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)			DIAMETER (INCH)			
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
							MIL-C -915/	
TSP-31	0.982	1.062			62	22	0.0320	22 MS340 * DJ40 A 56 D/E

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>
40-56	TSP-31
x	1 BLK
y	1 WHT
AJ	2 BLK
AH	2 RED
w	3 BLK
m	3 GRN
n	4 BLK
p	4 ORN
z	5 BLK
AK	5 BLU
AV	6 BLK
AU	6 BRN
AT	7 BLK
AF	7 GRA
v	8 BLK
k	8 YEL
a	9 BLK
b	9 PUR
c	10 BLK

FIGURE 11. Information on insert and wiring for 40-56.

MIL-STD-1683B(SH)

SECTION 100

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>
40-56	TSP-31
d	10 TAN
q	11 BLK
AA	11 PNK
AL	12 WHT
AW	12 RED
BE	13 WHT
BD	13 GRN
BC	14 WHT
BB	14 ORN
AS	15 WHT
AE	15 BLU
U	16 WHT
J	16 BRN
Z	17 WHT
R	17 GRA
S	18 WHT
T	18 YEL
U	19 WHT
V	19 PUR
f	20 WHT
r	20 TAN
AB	21 WHT
AM	21 PNK
AX	22 RED
BF	22 GRN
BP	23 RED
BN	23 ORN
BM	24 RED
BL	24 BLU
BK	25 RED
BA	25 BRN
AR	26 RED
AD	26 GRA

FIGURE 11. Information on insert and wiring for 40-56 - Continued.

MIL-STD-1683B(SH)

SECTION 100

WIRING INFORMATION - Continued.

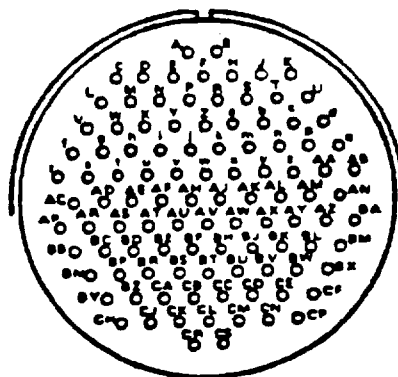
<u>INSERT</u>	<u>CABLE TYPE</u>
40-56	TSP-31
t	27 RED
i	27 YEL
Y	28 RED
P	28 PUR
F	29 RED
H	29 TAN
J	30 RED
K	30 PNK
L	31 GRN
M	31 ORN
W	*
g	*
s	*
AN	*
AY	*
BH	*
BR	*
BV	*
BU	*
BT	*
BS	*
BJ	*
AZ	*
AP	*
AC	*
h	*
X	*
N	*
E	*
A	*
B	*
C	*
D	*

FIGURE 11. Information on insert and wiring for 40-56 - Continued.

MIL-STD-1683B(SH)

SECTION 100

SH 1323175116



Insert 44-52
Contacts
Qty: 104
Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C -915/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
MSP	1.565	1.635			16	22	0.0320	67	MS340 * DJ44 E 52 D/E
					18	20	.0363		MS340 * DJ44 E 52 P/S
					25	16	.0576		MS340 * DJ44 E 52 P/S
MSPW	1.565	1.635			16	22	.0320	66	MS340 * DJ44 E 52 D/E
					18	20	.0363		MS340 * DJ44 E 52 P/S
					25	16	.0576		MS340 * DJ44 E 52 P/S

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>
44-52	MSP MSPW
w	BLK
AJ	WHT (1 BLK)
AV	RED
AH	SHLD
v	BLK
j	WHT (2 WHT)
k	RED
x	SHLD

FIGURE 12. Information on insert and wiring for 44-52.

MIL-STD-1683B(SH)

SECTION 100

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>
44-52	MSP
	MSPW
AK	BLK
AW	WHT (3 RED)
BH	RED
BF	SHLD
AU	WHT (12 BLK/WHT)
AF	SHLD
u	WHT (13 RED/WHT)
i	SHLD
Y	WHT (14 GRN/WHT)
Z	SHLD
a	WHT (15 BLU/WHT)
m	SHLD
y	WHT (16 BLK/RED)
AL	SHLD
AX	WHT (17 WHT/RED)
BJ	SHLD
BU	WHT (18 ORN/RED)
BT	SHLD
BS	BLK
BE	WHT (4 GRN)
AT	SHLD
AE	BLK
t	WHT (5 ORN)
h	SHLD
X	BLK
N	WHT (6 BLU)
P	SHLD
R	BLK
S	WHT (7 WHT/BLK)
b	SHLD
n	BLK (8 RED/BLK)
z	WHT
AM	SHLD
AY	BLK
BK	WHT (9 GRN/BLK)
BV	SHLD
CD	BLK
CC	WHT (10 ORN/BLK)
CB	SHLD
CA	BLK

FIGURE 12. Information on insert and wiring for 44-52 - Continued.

MIL-STD-1683B(SH)

SECTION 100

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>
44-52	MSP MSPW
BR	WHT (11 BLU/BLK)
BD	SHLD
AS	WHT (19 BLU/RED)
AD	SHLD
S	WHT (20 RED/GRN)
g	SHLD
W	WHT (21 ORN/GRN)
M	SHLD
D	WHT (22 BLU/WHT/RED)
E	SHLD
F	WHT (23 WHT/BLK/RED)
H	SHLD
J	WHT (24 RED/BLK/WHT)
T	SHLD
C	WHT (25 GRN/BLK/WHT)
P	SHLD
AA	WHT (26 ORN/BLK/WHT)
AN	SHLD
AZ	WHT (27 BLU/BLK/WHT)
BL	SHLD
BW	WHT (28 BLK/RED/GRN)
CE	SHLD
CN	WHT (29 WHT/RED/GRN)
CM	SHLD
CL	COND (30 RED/BLK/GRN)
CK	SHLD
CJ	COND (31 GRN/BLK/ORN)
BZ	SHLD
BP	COND (32 ORN/BLK/GRN)
BC	SHLD
AR	COND (33 BLU/WHT/ORN)
AC	SHLD
r	COND (34 BLK/WHT/ORN)
f	SHLD
V	COND (35 WHT/RED/ORN)
L	SHLD
C	COND (36 ORN/WHT/BLU)
A	SHLD
B	COND (37 WHT/RED/BLU)

FIGURE 12. Information on insert and wiring for 44-52 - Continued.

MIL-STD-1683B(SH)

SECTION 100

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>
44-52	MSP MSPW
K	SHLD
U	COND (38 BRN)
d	SHLD
q	COND (39 BRN/BLK)
AB	SHLD
BA	COND (40 BRN/WHT)
BA	COND (40 BRN/WHT)
BM	SHLD
BX	COND (41 BRN/RED)
CF	COND (42 BRN/GRN)
CF	SHLD
CS	SHLD
CR	COND (43 BRN/ORN)
CH	SHLD
BY	COND (44 BRN/BLU)
BN	SHLD
BB	COND (45 WHT/BLK/BLU)
AP	SHLD

FIGURE 12. Information on insert and wiring for 44-52 - Continued.

MIL-STD-1683B(SH)

SECTION 200

TABLE V. MIL-C-5015 connector insert to MIL-C-24640 cross reference.

Insert	Cables
10SL-3	DXOW-3, DXW-3, DXWA-3, TTXW-1-1/2, TTXWA-1-1/2, TX-3, TXA-3, TXW-3, TXWA-3, 2XSW-1, 2XSWA-1.
12S-3	DX-3, DXA-3, DXW-3, DXWA-3.
14S-2	DXOW-3, FX-3, FXA-3, FXW-3, FXWA-3, TTXOW-1 1/2, TXOW-3.
16S-1	MXCW-7, MXCWA-7, TTX-3, TTXA-3, TTXOW-3, TTXS-2, TTXSA-2, TTXSO-2, TTXWA-3, TTXW-3, 2XS-2, 2XSA-2, 7XW-3, 7XWA-3.
18-1	MXCOW-7, MXCW-10, MXCWA-10, MXSO-9, TTXW-5, TTXWA-5, 2XS-3, 2XSA-3, 2XSAOW-3, 2XSAW-3, 2XSAWA-3, 2XSO-3, 2XSOW-3, 2XSW-3, 2XSWA-3.
20-4	DX-4, DXA-4, DXOW-4, DXW-4, DXWA-4, FX-4, FXA-4, FXOW-3, FXW-4, FXWA-4, MXSO-2, TX-4, TXA-4, TXOW-4, TXW-4, TXWA-4, 2XAO-2.
20-27	MXCOW-10, MXCW-14, MXCWA-14, MXO-10, TTXS-4, TTXSA-4, TTXOW-5, 2XO-6, 2XSXO-4, 3XSOW-3, 3XSW-3, 3XSWA-3.
22-23	FXOW-4, 7XW-4, 7XWA-4.
24-28	MXCOW-14, MXCOW-19, MXCW-19, -24, MXCWA-24, MXO-14, MXSO-21, TTXSO-6, TTXW-10, TTXWA-10, 1XMSO-7, 2XAO-7, -10, 2XS-7, 2XSA-7, 2XSAOW-7, 2XSAW-7, 2XSAWA-7, 2XSO-7, 2XSOW-7, 2XSW-7, 2XSWA-7.
28-21	MXCOW-24, -30, MXCW-30, -37, MXCWA-30, -37, TTX-15, TTXA-15, TTXOW-1, TTXW-15, TTXWA-15, TTXSO-8, -10, 1XMSO-16, 1XSOW-14, 2XAO-18, 2XS-1, 2XSA-10, 2XSAOW-10, 2XSO-10, 2XSOW-12, 3XS-7, 3XSA-7, 3XSOW-7, 3XSW7, 3XSWA-7.
36-10	MXCOW-37, MXCOW-44, MXCW-44, MXCWA-44, MXSO-37, TTXOW-20, TTXW-20, TTXWA-20, 1XSOW-20, 2XS-14, 2XSA-14, 2XSAOW-14, 2XSAW-14, 2XSAWA-14, 2XSO-14, 3XSOW-10, 3XSW-10, 3XSWA-10.
40-56	MXCOW-61, MXCW-61, MXCWA-61, TTXOW-40, TTXWA-40, TTXW-40, 1XSOW-30, 2XAO-40, 2XS-24, 2XSA-24, 2XSAOW-24, 3XSOW-19.
40-62	TTXW-30, TTXWA-30, 2XS-19, 2XSA-19, 2XSAOW-19, 2XSOW-19, 2XSO-19, 3XSOW-14, 3XSW-14, 3XSWA-14.
44-52	2XS-30, 2XSA-30, 2XSAOW-30, 2XSO-30, 2XSOW-30, 3XSOW-24.

MIL-STD-1683B(SH)

SECTION 200

TABLE VI. MIL-C-24640 cable to MIL-C-5015 connector insert cross reference.

Cable	Insert	Cable	Insert
DX-3	12S-3	MXCWA-7	16S-1
DX-4	20-4	MXCWA-10	18-1
DXA-3	12S-3	MXCWA-14	20-27
DXA-4	20-4	MXCWA-24	24-28
		MXCWA-30	28-21
DXOW-4	10SL-3, 12S-3	MSCWA-37	28-21
DXOW-4	20-4	MSCWA-44	36-10
DXW-3	12S-3	MXCWA-61	40-56
DXW-4	20-4		
DXWA-3	12S-3	MXO-10	20-27
DXWA-4	20-4	MXO-14	24-28
FX-3	14S-2	MXSO-2	20-4
FX-4	20-4	MXSO-9	18-1
FXA-3	14S-2	MXSO-21	24-28
FXA-4	20-4	MXSO-37	36-10
FXOW-3	20-4	TTX-3	16S-1
FXOW-4	22-23	TTX-15	28-21
FXW-3	14S-2	TTXA-3	16S-1
FXW-4	20-4	TTXA-15	28-21
FXWA-3	14S-2		
FXWA-4	20-4	TTXOW-1-1/2	14S-2
		TTXOW-3	16S-1
MXCOW-7	18-1	TTXOW-5	20-27
MXCOW-10	20-27	TTXOW-15	28-21
MXCOW-14	24-28	TTXOW-20	36-10
MXCOW-19	24-28	TTXOW-40	40-56
MXCOW-24	24-28		
MXCOW-30	28-21	TTXS-2	16S-1
MXCOW-37	36-10	TTXS-4	20-27
MXCOW-44	36-10	TTXSA-2	16S-1
MXCOW-61	40-56	TTXSA-4	20-27
		TTXS0-2	16S-1
MXCW-7	16S-1	TTXS0-6	24-28
MXCW-10	18-1	TTXS0-8	28-21
MXCW-14	20-27	TTXS0-10	28-21
MXCW-19	24-283		
MXCW-24	24-28	TTXW-1-1/2	10SL-3
MXCW-30	28-21	TTXW-3	16S-1
MXCW-37	28-21	TTXW-5	18-1
MXCW-44	36-10	TTXW-10	24-28

MIL-STD-1683B(SH)

SECTION 200

TABLE VI. MIL-C-24640 cable to MIL-C-5015 connector insert cross reference
- Continued.

Cable	Insert	Cable	Insert
MXCW-61	40-56	TTXW-15	28-21
		TTXW-20	36-10
		TTXW-30	40-62
		TTXW-40	40-56
TTXWA-1-1/2	10SL-3	2XSA-2	16S-1
TTXWA-3	16S-1	2XSA-3	18-1
TTXWA-5	18-1	2XSA-7	24-28
TTXWA-10	24-28	2XSA-10	28-21
TTXWA-15	28-21	2XSA-14	36-10
TTXWA-20	36-10	2XSA-19	40-62
TTXWA-30	40-62	2XSA-24	40-56
TTXWA-40	40-56	2XSA-30	44-52
TX-3	10SL-3	2XSO-3	18-1
TX-4	20-4	2XSO-7	24-28
TXA-3	10SL-3	2XSO-10	28-21
TXA-4	20-4	2XSO-14	36-10
		2XSO-19	40-62
		2XSO-30	44-52
TXOW-3	14S-2	2XSAOW-3	18-1
TXOW-4	20-4	2XSAOW-7	24-28
TXW-3	10SL-3	2XSAOW-10	28-21
TXW-4	20-4	2XSAOW-14	36-10
TXWA-3	10SL-3	2XSAOW-19	40-62
TXWA-4	20-4	2XSAOW-24	40-56
		2XSAOW-30	44-52
1XMSO-7	24-28	2XSAW-3	18-1
1XMSO-16	28-21	2XSAW-7	24-28
1XSOW-2	14S-2	2XSAW-14	36-10
1XSOW-14	28-21	2XSAWA-3	18-1
1XSOW-20	36-10	2XSAWA-7	24-28
1XSOW-30	40-56	2XSAWA-14	36-10
2XAO-2	20-4		
2XAO-7	24-28		
2XAO-10	24-28	2XSW-1	10SL-3
2XAO-18	28-21	2XSW-3	18-1
2XAO-40	40-56	2XSW-7	24-28
		2XSWA-1	10SL-3
2XO-6	20-27	2XSWA-3	18-1
2XO-60	36-10	2XSWA-7	24-28
2XO-77	40-56	2XSOW-3	18-1
		2XSOW-7	24-28

MIL-STD-1683B(SH)

SECTION 200

TABLE VI. MIL-C-24640 cable to MIL-C-5015 connector insert cross reference
 - Continued.

Cable	Insert	Cable	Insert
2XOW-24	36-10	2XSOW-12	28-21
2XOW-60	-	2XSOW-19	40-62
2XOW-77	-	2XSOW-30	44-62
2XS-2	16S-1	3XS-7	28-21
2XS-3	18-1	3XSA-7	28-21
2XS-7	24-28		
2XS-14	36-10		
2XS-24	40-56		
2XS-19	40-56		
2XS-30	44-52		
3XSOW-3	20-27		
3XSOW-7	28-21		
3XSOW-10	36-10		
3XSOW-14	40-62		
3XSOW-19	40-56		
3XSOW-24	44-52		
3XSW-3	20-27		
3XSW-7	28-21		
3XSW-10	36-10		
3XSW-14	40-62		
3XSWA-3	20-27		
3XSWA-7	28-21		
3XSWA-10	36-10		
3XSWA-14	40-62		
7XW-3	16S-1		
7XW-4	22-23		
7XWA-3	16S-1		
7XWA-4	22-23		

MIL-STD-1683B(SH)

SECTION 200

SH 13232058



Insert 10SL-3
Contacts
Qty: 3
Size 16

TYPE	CABLE		CONDUCTORS/SHIELDS					MIL-C- 24640	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)	MIN	MAX	QTY	AWG	NOMINAL		
DXOW-3	0.294	0.316	0.075	0.081	3	16	0.0576	19	MS340 * DJ11B 3 P/S
TXW-3	.246	.266	.069	.075	3	16	.0576	20	MS340 * DJ11A 3 P/S
TXWA-3	.296	.316	.069	.075	3	16	.0576	20	MS340 * DJ11D 3 P/S
TX-3	.243	.261	.069	.075	3	16	.0576	2	MS340 * DJ11A 3 P/S
DXWA-3	.289	.307	.075	.081	2	16	.0576	19	MS340 * DJ11A 3 P/S
DXW-3	.239	.257	.075	.081	2	16	.0576	19	MS340 * DJ11A 3 P/S
TXA-3	.293	.311	.069	.075	3	16	.0576	2	MS340 * DJ11A 3 P/S
TTXWA-1 1/2	.231	.245	.051	.055	3	22	.0320	24	MS340 * DJ11A 3 D/E
TTXW-1 1/2	.181	.195	.051	.055	3	22	.0320	24	MS340 * DJ11A 3 D/E
2XSW-1	.240	.258	.062	.068	3	18	.0456	16	MS340 * DJ11A 3 P/S
2XSWA-1	.290	.308	.062	.068	3	18	.0456	16	MS340 * DJ11A 3 P/S

WIRING INFORMATION

INSERT	CABLE TYPE				
10SL-3	DXOW-3	TTX-3	DXWA-3	TTXWA-1 1/2	2XSW-1
	TXWA-3	DXW-3		TTXW-1 1/2	2XSWA-1
	TX-3	TXA-3			
A	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
B	2 WHT	2 WHT	2 WHT	2 WHT	1 WHT
C	SHLD	3 RED	*	3 RED	SHLD

FIGURE 13. Information on insert and wiring for 10SL-3.

MIL-STD-1683B(SH)

SECTION 200

SH 1323175117



Insert 12S-3
Contacts
Qty: 2
Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		CONDUCTORS/SHIELDS FINISHED WIRE DIAMETER (INCH)				DIAMETER (INCH)		MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL			
DX-3	0.223	0.241	0.069	0.075	2	16	0.0576		1	MS340 * DJ13A 3 P/S
DXW-3	.239	.257	.075	.081	2	16	.0576		19	MS340 * DJ13A 3 P/S
DXWA-3	.289	.307	.075	.081	2	16	.0576		19	MS340 * DJ13A 3 P/S
DXA-3	.273	.291	.069	.075	2	16	.0576		1	MS340 * DJ13A 3 P/S

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>
12S-3	DX-3 DXW-3 DXWA-3 DXA-3
A	1 BLK
B	2 WHT

FIGURE 13. Information on insert and wiring for 12S-3 - Continued.

MIL-STD-1683B(SH)

SECTION 200

SH 13232059



Insert 14S-2
Contacts
Qty: 4
Size 16

TYPE	CABLE		CONDUCTORS/SHIELDS				MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)	MIN	MAX	QTY	AWG NOMINAL		
DXOW-3	0.294	0.316	0.075	0.081	3	16	0.0576	19 MS340 * DJ15A 2 P/S
FX-3	.262	.282	.069	.075	4	16	.0576	3 MS340 * DJ15E 2 P/S
FXW-3	.266	.286	.069	.075	4	16	.0576	21 MS340 * DJ15A 2 P/S
FXWA-3	.316	.336	.069	.075	4	16	.0576	21 MS340 * DJ15A 2 P/S
FXA-3	.312	.332	.069	.075	4	16	.0576	3 MS340 * DJ15A 2 P/S
TXOW-3	.305	.329	.069	.075	4	16	.0576	20 MS340 * DJ15A 2 P/S
TTXOW-1-1/2	.253	.273	.051	.055	4	22	.0576	24 MS340 * DJ15E 2 D/E

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>		
14S-2	FX-3	TXOW-1-1/2	DXOW-3
	FXW-3	TTXOW-3	
	FXWA-3		
	FXA-3		
A	1 BLK	1 BLK	1 BLK
B	2 WHT	2 WHT	2 WHT
C	3 RED	3 RED	SHLD
D	4 GRN	SHLD	*

FIGURE 14. Information on insert and wiring for 14S-2.

MIL-STD-1683B(SH)

SECTION 200

SH 1323175119



Insert 16S-1
Contacts
Qty: 7
Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		CONDUCTORS/SHIELDS FINISHED WIRE DIAMETER (INCH)				MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
TTX-3	0.296	0.320			6	20	0.0363	4 MS340 * DJ17D 1 P/S
TTXS-2	.335	.361			6	20	.0363	5 MS340 * DJ17D 1 P/S
2XS-2	.308	.332			6	22	.0320	9 MS340 * DJ17D 1 D/E
7XW-3	.315	.339	0.069	0.075	7	16	.0576	22 MS340 * DJ17D 1 P/S
7XWA-3	.365	.389	.069	.075	7	16	.0576	22 MS340 * DJ17D 1 P/S
TTXOW-3	.333	.359	.051	.055	7	22	.0320	24 MS340 * DJ17D 1 D/E
TTXA-3	.346	.370			6	20	.0363	4 MS340 * DJ17D 1 P/S
TTXSA-2	.385	.411			6	20	.0363	5 MS340 * DJ17D 1 P/S
TTXSO-2	.386	.416			7	20	.0363	5 MS340 * DJ17D 1 P/S
2XSA-2	.358	.382			6	22	.0320	9 MS340 * DJ17D 1 D/E
MXCW-7	.295	.319	.066	.070	7	18	.0456	23 MS340 * DJ17D 1 P/S
MXCWA-7	.345	.369	.066	.070	7	18	.0456	23 MS340 * DJ17D 1 P/S
TTXWA-3	.335	.357	.051	.055	6	22	.0320	24 MS340 * DJ17D 1 D/E
TTXW-3	.285	.307	.051	.055	6	22	.0320	24 MS340 * DJ17D 1 D/E

WIRING INFORMATION

INSERT	CABLE TYPE					
16S-1	TTX-3	TTXS-2	7XW-3	TTXOW-3	TTXSO-2	TTXWA-3
	TTXA-3	2XS-2	7XWA-3		TTXW-3	
		TTXSA-2	MXCW-7			
		2XSA-2	MXCWA-7			
G	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
A	1 WHT	1 WHT	1 WHT	1 WHT	1 WHT	1 WHT
B	2 BLK	SHLD	3 RED	2 BLK	SHLD	2 BLK

FIGURE 15. Information on insert and wiring for 16S-1.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION - Continued.

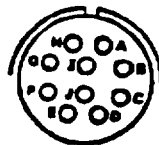
<u>INSERT</u>	<u>CABLE TYPE</u>					
16S-1	TTX-3 TTXA-3	TTXS-2 2XS-2 TTXSA-2 2XSA-2	7XW-3 7XWA-3 MXCW-7 MXCWA-7	TTXOW-3	TTXSO-2 TTXW-3	TTXWA-3
C	2 WHT	2 BLK	4 GRN	2 RED	2 BLK	2 RED
D	3 BLK	2 WHT	5 ORN	3 BLK	2 WHT	3 BLK
E	3 WHT	SHLD	6 BLU	3 GRN	SHLD	3 GRN
F	*	*	7 WHT/BLK	SHLD	OVSHLD	*

FIGURE 15. Information on insert and wiring for 16S-1 - Continued.

MIL-STD-1683B (SH)

SECTION 200

SH 1323175120



Insert 18-1
Contacts
Qty: 10
Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		CONDUCTORS/SHIELDS QTY		DIAMETER (INCH)		MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	AWG	NOMINAL				
2XS-3	0.325	0.350			9	22	0.0320	9		MS340 * DJ18F 1 D/E
MXSO-2	.282	.304			3	16	.0576	10		MS340 * DJ20F 4 P/S
MXSO-9	.424	.458			10	16	.0576	10		MS340 * DJ18A 1 P/S
2XSAOW-3	.405	.437	0.044	0.050	10	22	.0320	15		MS340 * DJ18A 1 D/E
2XSOW-3	.487	.525	.062	.068	10	18	.0456	16		MS340 * DJ18A 1 P/S
MXCOW-7	.340	.366	.066	.070	8	18	.0456	23		MS340 * DJ18F 1 P/S
2XSA-3	.375	.400			9	22	.0320	9		MS340 * DJ18F 1 D/E
2XSO-3	.380	.410			10	22	.0320	9		MS340 * DJ18F 1 D/E
2SAWA-3	.418	.446	.044	.050	9	22	.0320	15		MS340 * DJ18A 1 D/E
2XSAW-3	.368	.396	.044	.050	9	22	.0320	15		MS340 * DJ18A 1 D/E
2XSW-3	.436	.470	.062	.068	9	18	.0456	16		MS340 * DJ18A 1 P/S
2XSWA-3	.486	.520	.062	.068	9	18	.0456	16		MS340 * DJ18A 1 P/S
TTXWA-5	.381	.407	.051	.055	10	22	.0320	24		MS340 * DJ18F 1 D/E
TTXW-5	.331	.357	.051	.055	10	22	.0320	24		MS340 * DJ18F 1 D/E
MXCWA-10	.425	.455	.066	.070	10	18	.0456	23		MS340 * DJ18A 1 P/S
MXCW-10	.375	.405	.066	.070	10	18	.0456	23		MS340 * DJ18F 1 P/S

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>				
18-1	2XS-3	MXSO-9	2XSAOW-3 2XSOW-3 2XSO	2XSW-3 2XSWA-3 2XSA-3 2XSAWA-3	TTXWA-5 TTXW-5
J	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
I	1 WHT	2 WHT	1 WHT	1 WHT	1 WHT
A	SHLD	3 RED	SHLD	SHLD	2 BLK
B	2 BLK	4 GRN	2 BLK	2 BLK	2 RED

FIGURE 16. Information on insert and wiring for 18-1.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION - Continued.

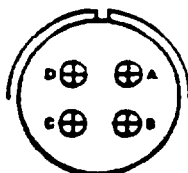
<u>INSERT</u>	<u>CABLE TYPE</u>				
18-1	2XS-3	MXS0-9	2XSA0W-3 2XSOW-3 2XS0	2XSW-3 2XSWA-3 2XSA-3 2XSAWA-3	TTXWA-5 TTXW-5
C	2 WHT	5 ORN	2 WHT	2 WHT	3 BLK
D	SHLD	6 BLU	SHLD	SHLD	3 GRN
E	3 BLK	7 WHT/BLK	3 BLK	3 BLK	4 BLK
F	3 WHT	8 RED/BLK	3 WHT	3 WHT	4 ORN
G	SHLD	9 GRN/BLK	SHLD	SHLD	5 BLK
H	*	SHLD	OVSHLD		5 BLU
18-1	MXCWA-10 MXCW-10	MXCOW-7			
J	1 BL	1 BLK			
I	2 WHT	2 WHT			
A	3 RED	3 RED			
B	4 GRN	4 GRN			
C	5 ORN	5 ORN			
D	6 BLU	6 BLU			
E	7 WHT/BLK	7 WHT/BLK			
F	8 RED/BLK	OVSHLD			
G	9 GRN/BLK	*			
H	10 ORN/BLK	*			

FIGURE 16. Information on insert and wiring for 18-1.

MIL-STD-1683B(SH)

SECTION 200

SH 1323175121



Insert 20-4
Contacts
Qty: 4
Size 12

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
2XAO-2	0.307	0.331			5	22	0.0320	6 MS340 * DJ20F 4 D/E
1XSOW-2	.292	.314	0.044	0.050	5	22	.0320	14 MS340 * DJ20F 4 D/E
FXOW-3	.324	.350	.069	.075	5	16	.0576	21 MS340 * DJ20F 4 P/S
DX-4	.266	.286	.085	.093	2	14	.0726	1 MS340 * DJ20F 4 P/S
TX-4	.288	.310	.085	.093	3	14	.0726	2 MS340 * DJ20F 4 P/S
FX-4	.311	.335	.085	.093	4	14	.0726	3 MS340 * DJ20F 4 P/S
DXW-4	.281	.303	.093	.097	2	14	.0726	19 MS340 * DJ20F 4 P/S
DXWA-4	.331	.353	.093	.097	2	14	.0726	19 MS340 * DJ20F 4 P/S
DXOW-4	.328	.354	.093	.097	3	14	.0726	19 MS340 * DJ20F 4 P/S
TXW-4	.292	.314	.085	.093	3	14	.0726	20 MS340 * DJ20F 4 P/S
TXWA-4	.342	.364	.085	.093	3	14	.0726	20 MS340 * DJ20F 4 P/S
TXOW-4	.343	.369	.085	.093	4	14	.0726	20 MS340 * DJ20F 4 P/S
FXW-4	.315	.339	.085	.093	4	14	.0726	21 MS340 * DJ20F 4 P/S
FXWA-4	.365	.389	.085	.093	4	14	.0726	21 MS340 * DJ20F 4 P/S
DXA-4	.316	.336	.085	.093	2	14	.0726	1 MS340 * DJ20F 4 P/S
TXA-4	.338	.360	.085	.093	3	14	.0726	2 MS340 * DJ20F 4 P/S
FXA-4	.361	.385	.085	.093	4	14	.0726	3 MS340 * DJ20F 4 P/S
MXSO-2	.282	.304			3	16	.0576	10 MS340 * DJ20F 4 P/S

WIRING INFORMATIONINSERT CABLE TYPE

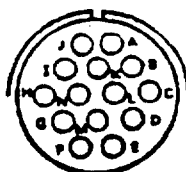
20-4	DX-4	TX-4	FX-4	DXOW-4	TXOW-4
	DXW-4	TXW-4	FXW-4	MXSO-2	
	DXWA-4	TXWA-4	FXWA-4		
	DXA-4	TXA-4	FXA-4		
A	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
B	2 WHT	2 WHT	2 WHT	2 WHT	2 WHT
C	*	3 RED	3 RED	SHLD	3 RED
D	*	*	4 GRN	*	SHLD

FIGURE 17. Information on insert and wiring for 20-4.

MIL-STD-1683B(SH)

SECTION 200

SH 1323175122



Insert 20-27
Contacts
Qty: 14
Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24640/		CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL		
TTXS-4	0.393	0.424			12	20	0.0363	5	MS340 * DJ20A 27 P/S
3XSOW-3	.519	.559	.062	.068	13	18	.0456	18	MS340 * DJ20A 27 P/S
TTXOW-5	.376	.406	.051	.055	11	22	.0320	24	MS340 * DJ20F 27 D/E
MXCOW-10	.415	.447	.066	.070	11	18	.0456	23	MS340 * DJ20A 27 P/S
TTKSA-4	.443	.474			12	20	.0363	5	MS340 * DJ20A 27 P/S
3XSW-3	.472	.508	.062	.068	12	18	.0456	18	MS340 * DJ20A 27 P/S
3XSWA-3	.552	.558	.062	.068	12	18	.0456	18	MS340 * DJ20A 27 P/S
MXCWA-14	.452	.485	.066	.070	14	18	.0456	23	MS340 * DJ20A 27 P/S
MXCW-14	.402	.434	.066	.070	14	18	.0456	23	MS340 * DJ20A 27 P/S
MXO-10	.349	.377			11	20	.0363	8	MS340 * DJ20F 27 P/S

WIRING INFORMATION

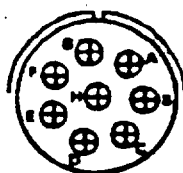
INSERT	CABLE TYPE					
20-27	TTXS-4 TTKSA-4	3XSOW-3	3XSW-3 3XSWA-3	MXCWA-14 MXCW-14	MXO-10 MXCOW-10	TTXOW-5
L	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
M	1 WHT	1 WHT	1 WHT	2 WHT	2 WHT	1 WHT
N	SHLD	1 RED	1 RED	3 RED	3 RED	2 BLK
K	2 BLK	SHLD	SHLD	4 GRN	4 GRN	2 RED
B	2 WHT	2 BLK	2 BLK	5 ORN	5 ORN	3 BLK
C	SHLD	2 WHT	2 WHT	6 BLU	6 BLU	3 GRN
D	3 BLK	2 RED	2 RED	7 WHT/BLK	7 WHT/BLK	4 BLK
E	3 WHT	SHLD	SHLD	8 RED/BLK	8 RED/BLK	4 ORN
F	3 RED	3 BLK	3 BLK	9 GRN/BLK	9 GRN/BLK	5 BLK
G	4 BLK	3 WHT	3 WHT	10 ORN/BLK	10 ORN/BLK	5 BLU
H	4 WHT	3 RED	3 RED	11 BLU/BLK	OVSHLD	OVSHLD
I	SHLD	SHLD	SHLD	12 BLK/WHT	*	*
J	*	OVSHLD	*	13 RED/WHT	*	*
A	*	*	*	14 GRN/WHT	*	*

FIGURE 18. Information on insert and wiring for 20-27.

MIL-STD-1683B(SH)

SECTION 200

SH 1323175123



Insert 22-23
 Contacts
 Qty: 8
 Size 12

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		CONDUCTORS/SHIELDS QTY AWG		DIAMETER (INCH)	MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX					
FXOW-4	0.366	0.394	0.085	0.093	5	14	0.0726	21	MS340 * DJ22G 23 P/S
7XW-4	.374	.404	.085	.093	7	14	.0726	11	MS340 * DJ22G 23 P/S
7XWA-4	.424	.454	.085	.093	7	14	.0726	22	MS340 * DJ22A 23 P/S

WIRING INFORMATION

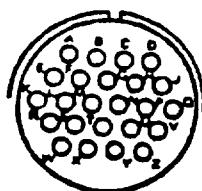
<u>INSERT</u>	<u>CABLE TYPE</u>	
22-23	7XW-4	FXOW-4
	7XWA-4	
H	1 BLK	1 BLK
A	2 WHT	2 WHT
B	3 RED	3 RED
C	4 GRN	4 GRN
D	5 ORN	SHLD
E	6 BLU	*
F	7 WHT/BLK	*
G	*	*

FIGURE 19. Information on insert and wiring for 22-23.

MIL-STD-1683B(SH)

SECTION 200

SH 1323175124



Insert 24-28
Contacts
Qty: 24
Size 16

CABLE		CONDUCTORS/SHIELDS									
OUTSIDE DIAMETER		FINISHED WIRE		DIAMETER						CONNECTOR	
(INCH)		DIAMETER (INCH)		(INCH)						MILITARY	
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	MIL-C-24640/		PART	NUMBER
1XMSO-7	0.344	0.370			15	22	0.0320	7		MS340 * DJ24F 27	D/E
2XAO-7	.392	.422			15	22	.0320	6		MS340 * DJ24A 27	D/E
MXO-10	.349	.377			11	20	.0363	8		MS340 * DJ20F 27	P/S
2XAO-10	.475	.511			21	22	.0320	6		MS340 * DJ24F 28	D/E
2XSA-7	.473	.505			21	22	.0320	9		MS340 * DJ24F 28	D/E
2XS-7	.423	.455			21	22	.0320	9		MS340 * DJ24F 28	D/E
MXSO-21	.552	.596			22	16	.0576	10		MS340 * DJ24F 28	P/S
2XSAOW-7	.510	.550	0.044	0.050	22	22	.0320	15		MS340 * DJ24F 28	D/E
2XSOW-7	.608	.656	.062	.068	22	18	.0456	16		MS340 * DJ24A 28	P/S
MXCOW-14	.440	.474	.066	.070	15	18	.0456	23		MS340 * DJ24F 27	P/S
MXCOW-19	.477	.515	.066	.070	20	18	.0456	23		MS340 * DJ24F 28	P/S
2XSO-7	.474	.510			22	22	.0320	9		MS340 * DJ24F 28	D/E
2XSAW-7	.461	.497	.044	.050	21	22	.0320	15		MS340 * DJ28F 21	D/E
2XSAWA-7	.511	.547	.044	.050	21	22	.0320	15		MS340 * DJ24F 28	D/E
2XSW-7	.573	.617	.062	.068	21	18	.0456	16		MS340 * DJ24F 28	P/S
2XSWA-7	.623	.667	.062	.068	21	18	.0456	16		MS340 * DJ24A 28	P/S
TTXSO-6	.506	.546			19	20	.0363	5		MS340 * DJ24F 28	P/S
MXCW-19	.440	.474	.066	.070	19	18	.0456	23		MS340 * DJ24F 28	P/S
MXCW-24	.520	.560	.066	.070	24	18	.0456	23		MS340 * DJ24F 28	P/S
MXCWA-24	.570	.610	.066	.070	24	18	.0456	23		MS340 * DJ24F 28	P/S
TTXW-10	.456	.492	.051	.055	20	22	.0320	24		MS340 * DJ24F 28	D/E
TTXWA-10	.506	.542	.051	.055	20	22	.0320	24		MS340 * DJ24F 28	D/E
MXO-14	.380	.410			15	20	.0363	8		MS340 * DJ24F 27	P/S

FIGURE 20. Information on insert and wiring for 24-28.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>						
24-28	2XAO-1	2XSA-7 2XS-7 2XSAW-7	2XSAWA-7 2XSW-7 2XSWA-7	MXSO-21	2XSAOW-7 2XSOW-7 2XSO-7	TTXSO-6	MXCOW-19
M	1 BLK	1 BLK		1 BLK	1 BLK	1 BLK	1 BLK
N	1 WHT	1 WHT		2 WHT	1 WHT	1 WHT	2 WHT
T	2 BLK	SHLD		3 RED	SHLD	SHLD	3 REDS
S	2 RED	2 BLK		4 GRN	2 BLK	2 BLK	4 GRN
L	3 BLK	2 WHT		5 ORN	2 WHT	2 WHT	5 ORN
F	3 GRN	SHLD		6 BLU	SHLD	SHLD	6 BLU
G	4 BLK	3 BLK		7 WHT/BLK	3 BLK	3 BLK	7 WHT/BLK
H	4 ORN	3 WHT		8 RED/BLK	3 WHT	3 WHT	8 RED/BLK
P	5 BLU	SHLD		9 GRN/BLK	SHLD	SHLD	9 GRN/BLK
U	6 BLK	4 BLK		10 ORN/BLK	4 BLK	4 BLK	10 ORN/BLK
Y	6 BRN	4 WHT		11 BLU/BLK	4 WHT	4 WHT	11 BLU/BLK
X	7 BLK	SHLD		12 BLK/WHT	SHLD	SHLD	12 BLK/WHT
W	7 GRA	5 BLK		13 RED/WHT	5 BLK	5 BLK	13 RED/WHT
R	8 BLK	5 WHT		14 GRN/WHT	5 WHT	5 WHT	14 GRN/WHT
K	8 YEL	SHLD		15 BLU/WHT	SHLD	SHLD	15 BLU/WHT
E	9 BLK	6 BLK		16 BLK/RED	6 BLK	6 BLK	16 BLK/RED
A	9 PUR	6 WHT		17 WHT/RED	6 WHT	6 WHT	17 WHT/RED
B	10 BLK	SHLD		18 ORN/RED	SHLD	SHLD	18 ORN/RED
C	10 TAN	7 BLK		19 BLU/RED	7 BLK	7 BLK	19 BLU/RED
D	OVSHLD	7 WHT		20 RED/GRN	7 WHT	7 WHT	20 RED/GRN
J	*	SHLD		21 ORN/GRN	SHLD	SHLD	21 ORN/GRN
Q	*	*		OVSHLD	OVSHLD	*	OVSHLD
V	*	*		*	*	*	*
Z	*	*		*	*	*	*

FIGURE 20. Information on insert and wiring for 24-28 - Continued.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION - Continued.

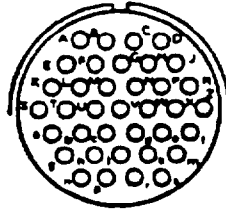
<u>INSERT</u>	<u>CABLE TYPE</u>				
24-28	MXCW-19	MXCW-24 MXCWA-24	TTYW-10 TTYWA-10	1XMSO-7	MXCOW-14
M	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
N	2 WHT	2 WHT	1 WHT	SHLD	2 WHT
T	3 RED	3 RED	2 BLK	2 WHT	3 RED
S	4 GRN	4 GRN	2 RED	SHLD	4 GRN
L	5 ORN	5 ORN	3 BLK	3 RED	5 ORN
F	6 BLU	6 BLU	3 GRN	SHLD	6 BLU
G	7 WHT/BLK	7 WHT/BLK	4 BLK	4 GRN	7 WHT/BLK
H	8 RED/BLK	8 RED/BLK	4 ORN	SHLD	8 RED/BLK
P	9 GRN/BLK	9 GRN/BLK	5 BLK	5 ORN	9 GRN BLK
U	10 ORN/BLK	10 ORN/BLK	5 BLU	SHLD	10 ORN BLK
Y	11 BLU/BLK	11 BLU/BLK	6 BLK	6 BLU	11 BLU BLK
X	12 BLK/WHT	12 BLK/WHT	6 BRN	SHLDL	12 BLK/WHT
W	13 RED/WHT	14 RED/WHT	4 OR	SHLD	12 BLK/WHT
R	14 GRN/WHT	14 GRN/WHT	7 GRA	SHLD	14 GRN/WHT
K	15 BLU/WHT	15 BLU/WHT	8 BLK	OVSHLD	OVSHLD
E	16 BLK/RED	16 BLK/RED	8 YEL	*	*
A	17 WHT/RED	17 WHT/RED	9 BLK	*	*
B	18 ORN/RED	18 ORN/RED	9 PUR	*	*
C	19 BLU/RED	19 BLU/RED	10 BLK	*	*
D	*	20 RED/GRN	10 TAN	*	*
J	*	21 ORN/GRN	*	*	*
Q	*	22 BLK/WHT/RED	*	*	*
V	*	23 WHT/BLK/RED	*	*	*
Z	*	24 RED/BLK/WHT	*	*	*

FIGURE 20. Information on insert and wiring for 24-28 - Continued.

MIL-STD-1683B(SH)

SECTION 200

SH 1323175125



Insert 28-21
 Contacts
 Qty: 37
 Size 16

TYI	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
TTX-15	0.549	0.591			30	20	0.0363	4	MS340 * DJ28A 21 P/S
1XMSO-16	.471	.507			33	22	.0320	7	MS340 * DJ28A 21 D/E
2XAO-18	.567	.611			37	22	.0320	6	MS340 * DJ28A 21 D/E
2XS-10	.537	.579			30	22	.0320	9	MS340 * DJ28A 21 D/E
3XS-7	.601	.647			28	18	.0456	11	MS340 * DJ28A 21 P/S
1XSOW-14	.470	.506	0.044	0.050	29	22	.0320	14	MS340 * DJ28A 21 D/E
2XSAOW-10	.631	.681	.044	.050	31	22	.0320	15	MS340 * DJ28A 21 D/E
2XSOW-12	.802	.864	.062	.068	37	18	.0456	16	MS340 * DJ28B 21 P/S
3XSOW-7	.659	.711	.062	.068	29	18	.0456	18	MS340 * DJ28A 21 P/S
MXCOW-24	.557	.601	.066	.070	25	18	.0456	23	MS340 * DJ28A 21 P/S
MXCOW-30	.584	.630	.066	.070	31	18	.0456	23	MS340 * DJ28A 21 P/S
TTKOW-15	.556	.600	.051	.055	31	22	.0320	24	MS340 * DJ28A 21 D/E
TTXA-15	.599	.641			30	20	.0363	4	MS340 * DJ28A 21 P/S
2XSA-10	.587	.629			30	22	.0320	9	MS340 * DJ28A 21 D/E
2XSO-10	.594	.640			31	22	.0320	9	MS340 * DJ28A 21 D/E
3XSA-7	.651	.697			28	18	.0456	11	MS340 * DJ28A 21 P/S
3XSW-7	.620	.668	.062	.068	28	18	.0456	18	MS340 * DJ28A 21 P/S
3XSWA-7	.670	.718	.062	.068	28	18	.0456	18	MS340 * DJ28A 21 P/S
MXCW-30	.547	.589	.066	.070	30	18	.0456	23	MS340 * DJ28A 21 P/S
MXCWA-30	.597	.639	.066	.070	30	18	.0456	23	MS340 * DJ28A 21 P/S
TTXW-15	.527	.569	.051	.055	30	22	.0320	24	MS340 * DJ28A 21 D/E
TTXWA-15	.577	.619	.051	.055	30	22	.0320	24	MS340 * DJ28A 21 D/E
TTXSO-8	.587	.633			24	20	.0363	5	MS340 * DJ28A 21 P/S
TTXSO-10	.627	.675			31	20	.0363	5	MS340 * DJ28A 21 P/S
MXCWA-37	.634	.680	.066	.070	37	18	.0456	23	MS340 * DJ28A 21 P/S
MXCW-37	.584	.630	.066	.070	37	18	.0456	23	MS340 * DJ28A 21 P/S

FIGURE 21. Information on insert and wiring for 28-21.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>						
28-21	TX-15 TTXA-15 TTXW-15 TTXWA-15	TTXOW-15	1XMSO-16	2XAO-18	2XS-10 2XSA-10	3XS-7 3XSA-7 3XSW-7 3XSWA-7	3XSOW-7
V	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
W	1 WHT	1 WHT	SHLD	1 WHT	1 WHT	1 WHT	1 WHT
d	2 BLK	2 BLK	2 WHT	2 BLK	SHLD	1 RED	1 RED
c	2 RED	2 RED	SHLD	2 RED	2 BLK	SHLD	SHLD
U	3 BLK	3 BLK	3 RED	3 BLK	2 WHT	2 BLK	2 BLK
M	3 GRN	3 GRN	SHLD	3 GRN	SHLD	2 WHT	2 WHT
N	4 BLK	4 BLK	4 GRN	4 BLK	3 BLK	2 RED	2 RED
P	4 ORN	4 ORN	SHLD	4 ORN	3 WHT	SHLD	SHLD
X	5 BLK	5 BLK	5 ORN	5 BLK	SHLD	3 BLK	3 BLK
e	5 BLU	5 BLU	SHLD	5 BLU	4 BLK	3 WHT	3 WHT
k	6 BLK	6 BLK	6 BLU	6 BLK	4 WHT	3 RED	3 RED
j	6 BRN	6 BRN	SHLD	6 BRN	SHLD	SHLD	SHLD
h	7 BLK	7 BLK	7 WHT/BLK	7 BLK	5 BLK	4 BLK	4 BLK
b	7 GRA	7 GRA	SHLD	7 GRA	5 WHT	4 WHT	4 WHT
T	8 BLK	8 BLK	8 RED/BLK	8 BLK	SHLD	4 RED	4 RED
L	8 YEL	8 YEL	SHLD	8 YEL	6 BLK	SHLD	SHLD
F	9 BLK	9 BLK	9 GRN/BLK	9 BLK	6 WHT	5 BLK	5 BLK
G	9 PUR	9 PUR	SHLD	9 PUR	SHLD	5 WHT	5 WHT
H	10 BLK	10 BLK	10 ORN/BLK	10 BLK	7 BLK	5 RED	5 RED
J	10 TAN	10 TAN	SHLD	10 TAN	7 WHT	SHLD	SHLD
R	11 BLK	11 BLK	11 BLU/BLK	11 BLK	SHLD	6 BLK	6 BLK
Z	11 PNK	11 PNK	SHLD	11 PNK	8 BLK	6 WHT	6 WHT
f	12 WHT	12 WHT	12 BLK/WHT	12 WHT	8 WHT	6 RED	6 RED
m	12 RED	12 RED	SHLD	12 RED	SHLD	SHLD	SHLD
s	13 WHT	13 WHT	13 RED/WHT	13 WHT	9 BLK	7 BLK	7 BLK
r	13 GRN	13 GRN	SHLD	13 GRN	9 WHT	7 WHT	7 WHT
p	14 WHT	14 WHT	14 GRN/WHT	14 WHT	SHLD	7 RED	7 RED
n	14 ORN	14 ORN	SHLD	14 ORN	10 BLK	SHLD	SHLD
g	15 WHT	15 WHT	15 BLU/WHT	15 WHT	10 WHT	*	OVSHLD
a	15 BLU	15 BLU	SHLD	15 BLU	SHLD	*	*
S	*	OVSHLD	16 BLK/RED	16 WHT	*	*	*
K	*	*	SHLD	16 BRN	*	*	*
E	*	*	OVSHLD	17 WHT	*	*	*
A	*	*	*	17 GRA	*	*	*
B	*	*	*	18 WHT	*	*	*
C	*	*	*	18 YEL	*	*	*
D	*	*	*	OVSHLD	*	*	*

FIGURE 21. Information on insert and wiring - Continued.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION - Continued.

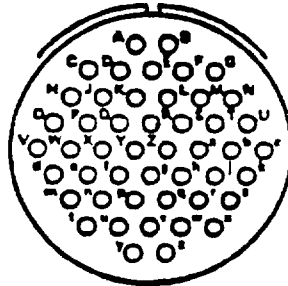
<u>INSERT</u>	<u>CABLE TYPE</u>		
28-21	2XSO-10 2XSAOW-10	2XSOW-12	MXCOW-30
V	1 BLK	1 BLK	1 BLK
W	1 WHT	1 WHT	2 WHT
d	SHLD	SHLD	3 RED
c	2 BLK	2 BLK	4 GRN
U	2 WHT	2 WHT	5 ORN
M	SHLD	SHLD	6 BLU
N	3 BLK	3 BLK	7 WHT/BLK
P	3 WHT	3 WHT	8 RED/BLK
X	SHLD	SHLD	9 GRN/BLK
e	4 BLK	4 BLK	10 ORN/BLK
k	4 WHT	4 WHT	11 BLU/BLK
j	SHLD	SHLD	12 BLK/WHT
h	5 BLK	5 BLK	13 RED/WHT
b	5 WHT	5 WHT	14 GRN/WHT
T	SHLD	SHLD	15 BLU/WHT
L	6 BLK	6 BLK	16 BLK/RED
F	6 WHT	6 WHT	17 WHT/RED
G	SHLD	SHLD	18 ORN/RED
H	7 BLK	7 BLK	19 BLU/RED
J	7 WHT	7 WHT	20 RED/GRN
R	SHLD	SHLD	21 ORN/GRN
Z	8 BLK	8 BLK	22 BLK/WHT/RED
f	8 WHT	8 WHT	23 WHT/BLK/RED
m	SHLD	SHLD	24 RED/BLK/WHT
s	9 BLK	9 BLK	25 GRN/BLK/WHT
r	9 WHT	9 WHT	26 ORN/BLK/WHT
p	SHLD	SHLD	27 BLU/BLK/WHT
n	10 BLK	10 BLK	28 BLK/RED/GRN
g	10 WHT	10 WHT	29 WHT/RED/GRN
a	SHLD	SHLD	30 RED/BLK/GRN
S	OVSHLD	11 BLK	OVSHLD
K	*	11 WHT	*
E	*	SHLD	*
A	*	12 BLK	*
B	*	12 WHT	*
C	*	SHLD	*
D	*	OVSHLD	*

FIGURE 21. Information on insert and wiring - Continued.

MIL-STD-1683B(SH)

SECTION 200

SH 1323175126



Insert 36-10
 Contacts
 Qty: 48
 Size 16

TYPE	CABLE		FINISHED WIRE		CONDUCTORS/SHIELDS			MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)		DIAMETER (INCH)		DIAMETER (INCH)	QTY	AWG	NOMINAL	
	MIN	MAX	MIN	MAX					
2XS-14	0.582	0.627				42	22	0.0320	9 MS340 * DJ36F 10 D/E
2XSA-14	.632	.677				42	22	.0320	9 MS340 * DJ36F 10 D/E
1XSOW-20	.542	.584	0.044	0.050		41	22	.0320	14 MS340 * DJ36F 10 D/E
2XSAOW-14	.689	.743	.044	.050		43	22	.0320	15 MS340 * DJ36F 10 D/E
2XSO-14	.636	.686				43	22	.0320	9 MS340 * DJ36F 21 D/E
3XSOW-10	.835	.901	.062	.068		41	18	.0456	18 MS340 * DJ36G 10 P/S
MXSO-37	.644	.694				38	16	.0576	10 MS340 * DJ36F 10 P/S
MXCOW-37	.622	.670	.066	.070		38	18	.0456	23 MS340 * DJ36F 10 P/S
MXCOW-44	.697	.751	.066	.070		45	18	.0456	23 MS340 * DJ36G 10 P/S
TTXOW-20	.614	.662	.051	.055		41	22	.0320	24 MS340 * DJ36F 10 D/E
2XSAW-14	.641	.691	.044	.050		42	22	.0320	15 MS340 * DJ36F 10 D/E
2XSAWA-14	.691	.741	.044	.050		42	22	.0320	15 MS340 * DJ36F 10 D/E
3XSWA-10	.853	.915	.062	.068		40	18	.0456	18 MS340 * DJ36G 10 P/S
3XSW-10	.803	.865	.062	.068		40	18	.0456	18 MS340 * DJ36G 10 P/S
MXCW-44	.656	.708	.066	.070		44	18	.0456	23 MS340 * DJ36F 10 P/S
MXCWA-44	.706	.758	.066	.070		44	18	.0456	23 MS340 * DJ36G 10 P/S
TTXWA-20	.627	.671	.051	.055		40	22	.0320	24 MS340 * DJ36F 10 D/E
TTXW-20	.577	.621	.051	.055		40	22	.0320	24 MS340 * DJ36F 10 D/E

WIRING INFORMATION

INSERT	CABLE TYPE				
36-10	2XS-14	1XSOW	XSAOW-14	3XSOW-10	MXCOW-44
	2XSA-14		2XSO-14	3XSWA-10	MXCW-44
	2XSAW-14			3XSW-10	MXCWA-44
Z	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
g	1 WHT	SHLD	1 WHT	1 WHT	2 WHT
Y	SHLD	2 WHT	SHLD	1 RED	3 RED
R	2 BLK	SHLD	2 BLK	SHLD	4 GRN

FIGURE 22. Information on insert and wiring for 36-10.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
36-10	2XS-14 2XSA-14 2XSAW-14	1XSOW	2XSAOW-14 2XSO-14	3XSOW-10 3XSWA-10 3XSW-10	MXCOW-44 MXCW-44 MXCWA-44
S	2 WHT	3 RED	2 WHT	2 BLK	5 ORN
a	SHLD	SHLD	SHLD	2 WHT	6 BLU
b	3 BLK	4 GRN	3 BLK	2 RED	7 WHT/BLK
q	3 WHT	SHLD	3 WHT	SHLD	8 RED/BLK
p	SHLD	5 ORN	SHLD	3 BLK	9 GRN/BLK
f	4 BLK	SHLD	4 BLK	3 WHT	10 ORN/BLK
X	4 WHT	6 BLU	4 WHT	3 RED	11 BLU/BLK
Q	SHLD	SHLD	SHLD	SHLD	12 BLK/WHT
K	5 BLK	7 WHT/BLK	5 BLK	4 BLK	13 RED/WHT
L	5 WHT	SHLD	5 WHT	4 WHT	14 GRN/WHT
M	SHLD	8 RED/BLK	SHLD	4 RED	15 BLU/WHT
T	6 BLK	SHLD	6 BLK	SHLD	16 BLK/RED
b	6 WHT	9 GRN/BLK	6 WHT	5 BLK	17 WHT/RED
j	SHLD	SHLD	SHLD	5 WHT	18 ORN/RED
r	7 BLD	10 ORN/BLK	7 BLK	5 RED	19 BLU/RED
w	7 WHT	SHLD	7 WHT	SHLD	20 RED/GRN
v	SHLD	11 BLU/BLK	SHLD	6 BLK	21 ORN/GRN
u	8 BLK	SHLD	8 BLK	6 WHT	22 BLK/WHT/RED
n	8 WTH	12 BLK/WHT	8 WHT	6 RED	23 WHT/BLK/RED
e	SHLD	SHLD	SHLD	SHLD	24 RED/BLK/WHT
W	9 BLK	13 RED/WHT	9 BLK	7 BLK	25 GRN/BLK/WHT
P	9 WHT	SHLD	9 WHT	7 WHT	26 ORN/BLK/WHT
J	SHLD	14 GRN/WHT	SHLD	7 RED	27 BLU/BLK/WHT
D	10 BLK	SHLD	10 BLK	SHLD	28 BLK/RED/GRN
E	10 WHT	15 BLU/WHT	10 WHT	8 BLK	29 WHT/RED/GRN
F	SHLD	SHLD	SHLD	8 WHT	30 RED/BLK/GRN
G	11 BLK	16 BLK/RED	11 BLK	8 RED	31 GRN/BLK/ORN
N	11 WHT	SHLD	11 WHT	SHLD	32 ORN/BLK/GRN
U	SHLD	17 WHT/RED	SHLD	9 BLK	33 BLU.WHT/ORN
c	12 BLK	SHLD	12 BLK	9 WHT	34 BLK/WHT/ORN
k	12 WHT	18 ORN/RED	12 WHT	9 RED	35 WHT/RED/ORN
s	SHLD	SHLD	SHLD	SHLD	36 ORN/WHT/BLU
x	13 BLK	19 BLU/RED	13 BLK	10 BLK	37 WHT/RED/BLU
y	13 WHT	SHLD	13 WHT	10 WHT	38 BRN
z	SHLD	20 RED/GRN	SHLD	10 RED	39 BRN/BLK
y	14 BLK	SHLD	14 BLK	SHLD	40 BRN/WHT
t	14 WHT	OVSHLD	14 WHT	OVSHLD 1/	41 BRN/RED
m	SHLD	*	SHLD	*	42 BRN/GRN

FIGURE 22. Information on insert and wiring for 36-10 - Continued.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
36-10	2XS-14	1XSOW	2XSAOW-14	3XSOW-10	MXCOW-44
	2XSA-14		2XSO-14	3XSWA-10	MXCW-44
	2XSAW-14			3XSW-10	MXCWA-44
d	*	*	OVSHLD	*	43 BRN/ORN
V	*	*	*	*	44 BRN/BLU
O	*	*	*	*	OVSHLD 2/
H	*	*	*	*	*
C	*	*	*	*	*
A	*	*	*	*	*
B	*	*	*	*	*

1/ OVSHLD FOR 3XSOW-10 ONLY.
2/ OVSHLD FOR MXCOW-44 ONLY.

<u>INSERT</u>	<u>CABLE TYPE</u>		
36-10	MXSO-37	TTXWA-20	TTXOW-20
	MXSOW-37	TTXW-20	
Z	1 BLK	1 BLK	1 BLK
g	2 WHT	1 WHT	1 WHT
Y	3 RED	2 BLK	2 BLK
R	4 GRN	2 RED	2 RED
S	5 ORN	3 BLK	3 BLK
a	6 BLU	3 GRN	3 GRN
h	7 WHT/BLK	4 BLK	4 BLK
q	8 RED/BLK	4 ORN	4 ORN
p	9 GRN/BLK	5 BLK	5 BLK
f	10 ORN/BLK	5 BLU	5 BLU
X	11 BLU/BLK	6 BLK	6 BLK
Q	12 BLK/WHT	6 BRN	6 BRN
K	13 RED/WHT	7 BLK	7 BLK
L	14 GRN/WHT	7 GRA	7 GRA
M	15 BLU/WHT	8 BLK	8 BLK
T	16 BLK/RED	8 YEL	8 YEL
b	17 WHT/RED	9 BLK	9 BLK
j	18 ORN/RED	9 PUR	9 PUR
r	19 BLU/RED	10 BLK	10 BLK
w	20 RED/GRN	10 TAN	10 TAN
v	21 ORN/GRN	11 BLK	11 BLK
u	22 BLK/WHT/RED	11 PNK	11 PNK

FIGURE 22. Information on insert and wiring for 36-10 - Continued.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION - Continued.

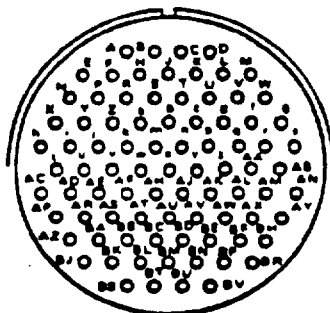
<u>INSERT</u>	<u>CABLE TYPE</u>		
36-10	MXSO-37 MXSOW-37	TTXWA-20 TTXW-20	TTXOW-20
n	23 WHT/BLK/RED	12 WHT	12 WHT
e	24 RED/BLK/WHT	12 RED	12 RED
w	25 GRN/BLK/WHT	13 WHT	13 WHT
P	26 ORN/BLK/WHT	13 GRN	13 GRN
J	27 BLU/BLK/WHT	14 WHT	14 WHT
D	28 BLK/RED/GRN	14 ORN	14 ORN
E	29 WHT/RED/GRN	15 WHT	15 WHT
F	30 RED/BLK/GRN	15 BLU	15 BLU
G	31 GRN/BLK/ORN	16 WHT	16 WHT
N	32 ORN/BLK/GRN	16 BRN	16 BRN
U	33 BLU. WHT/ORN	17 WHT	17 WHT
c	34 BLK/WHT/ORN	17 GRA	17 GRA
k	35 WHT/RED/ORN	18 WHT	18 WHT
s	36 ORN/WHT/BLU	18 YEL	18 YEL
x	37 WHT/RED/BLU	19 WHT	19 WHT
y	OVSHLD	19 PUR	19 PUR
z	*	20 WHT	20 WHT
y	*	20 TAN	20 TAN
t	*	*	OVSHLD
m	*	*	*
d	*	*	*
V	*	*	*
O	*	*	*
H	*	*	*
C	*	*	*
A	*	*	*
B	*	*	*

FIGURE 22. Information on insert and wiring - Continued.

MIL-STD-1683B(SH)

SECTION 200

SH 1323175127



Insert 40-56
 Contacts
 Qty: 85
 Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
2XAO-40	0.796	0.858			81	22	0.0320	6 MS340 * DJ40A 56 D/E
2XS-24	.758	.818			72	22	.0320	9 MS340 * DJ40A 56 D/E
1XSOW-30	.614	.662	0.044	0.050	61	22	.0320	14 MS340 * DJ40F 56 D/E
2XSAOW-24	.884	.952	.044	.050	73	22	.0320	15 MS340 * DJ40A 56 D/E
3XSOW-19	1.010	1.090	.062	.068	77	18	.0456	18 MS340 * DJ40A 56 P/S
MXCOW-61	.757	.817	.066	.070	62	18	.0456	23 MS340 * DJ40A 56 P/S
2XSA-24	.808	.868			72	22	.0320	9 MS340 * DJ40A 56 P/S
MXCWA-61	.779	.835	.066	.070	61	18	.0456	23 MS340 * DJ40A 56 P/S
MXCW-61	.729	.785	.066	.070	61	18	.0456	23 MS340 * DJ40A 56 P/S
TTXW-40	.790	.852	.051	.055	80	22	.0320	24 MS340 * DJ40A 56 P/S
TTXWA-40	.840	.902	.051	.055	80	22	.0320	24 MS340 * DJ40A 56 D/E
TTXOW-40	.823	.887	.051	.055	81	22	.0320	24 MS340 * DJ40A 56 D/E

FIGURE 23. Information on insert and wiring for 40-56.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>				
40-56	2XAO-40	2S-24 2XSA-24 2XSAOW-24	1XSOW-30	3XSOW-19	MXCW-61 MXCWA-61 MXCOW-61
x	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
y	1 WHT	1 WHT	SHLD	1 WHT	2 WHT
AJ	2 BLK	SHLD	2 WHT	1 RED	3 RED
AH	2 RED	2 BLK	SHLD	SHLD	4 GRN
w	3 BLK	2 WHT	3 RED	2 BLK	5 ORN
m	3 GRN	SHLD	SHLD	2 WHT	6 BLU
n	4 BLK	3 BLK	4 GRN	2 RED	7 WHT/BLK
p	4 ORN	3 WHT	SHLD	SHLD	8 RED/BLK
z	5 BLK	SHLD	5 ORN	3 BLK	9 GRN/BLK
AK	5 BLU	4 BLK	SHLD	3 WHT	10 ORN/BLK
AV	6 BLK	4 WHT	6 BLU	3 RED	11 BLU/BLK
AU	6 BRN	SHLD	SHLD	SHLD	12 BLK/WHT
AT	7 BLK	5 BLK	7 WHT/BLK	4 BLK	13 RED/WHT
AF	7 GRA	5 WHT	SHLD	4 WHT	14 GRN/WHT
v	8 BLK	SHLD	8 RED/BLK	4 RED	15 BLU/WHT
k	8 YEL	6 BLK	SHLD	SHLD	16 BLK/RED
a	9 BLK	6 WHT	9 GRN/BLK	5 BLK	17 WHT/RED
b	9 PUR	SHLD	SHLD	5 WHT	18 ORN/RED
c	10 BLK	7 BLK	10 ORN/BLK	5 RED	19 BLU/RED
d	10 TAN	7 WHT	SHLD	SHLD	20 RED/GRN
q	11 BLK	SHLD	11 BLU/BLK	6 BLK	21 ORN/GRN
AA	11 PNK	8 BLK	SHLD	6 WHT	22 BLK/WHT/RED
AL	12 WHT	8 WHT	12 BLK/WHT	6 RED	23 WHT/BLK/RED
AW	12 RED	SHLD	SHLD	SHLD	24 RED/BLK/WHT
BE	13 WHT	9 BLK	13 RED/WHT	7 BLK	25 GRN/BLK/WHT
BD	13 GRN	9 WHT	SHLD	7 WHT	26 ORN/BLK/WHT
BC	14 WHT	SHLD	14 GRN/WHT	7 RED	27 BLU/BLK/WHT
BB	14 ORN	10 BLK	SHLD	SHLD	28 BLK/RED/GRN
AS	15 WHT	10 WHT	15 BLU/WHT	8 BLK	29 WHT/RED/GRN
AE	15 BLU	SHLD	SHLD	8 WHT	30 RED/BLK/GRN
u	16 WHT	11 BLK	16 BLK/RED	8 RED	31 GRN/BLK/ORN
j	16 BRN	11 WHT	SHLD	SHLD	32 ORN/BLK/GRN
Z	17 WHT	SHLD	17 WHT/RED	9 BLK	33 BLU/WHT/ORN
R	17 GRA	12 BLK	SHLD	9 WHT	34 BLK/WHT/ORN
S	18 WHT	12 WHT	18 ORN/RED	9 RED	35 WHT/RED/ORN
T	18 YEL	SHLD	SHLD	SHLD	36 ORN/WHT/BLU
U	19 WHT	13 BLK	19 BLU/RED	10 BLK	37 WHT/RED/BLU
V	19 PUR	13 WHT	SHLD	10 WHT	38 BRN

FIGURE 23. Information on insert and wiring for 40-56 - Continued.

MIL-STD-1683B(SH)

SECTION 200

WIRING INFORMATION - Continued.

INSERT	CABLE TYPE				
40-56	2XAO-40	2S-24 2XSA-24 2XSAOW-24	1XSOW-30	3XSOW-19	MXCW-61 MXCWA-61 MXCOW-61
f	20 WHT	SHLD	20 RED/GRN	10 RED	39 BRN/BLK
r	20 TAN	14 BLK	SHLD	SHLD	40 BRN/WHT
AB	21 WHT	14 WHT	21 ORN/GRN	11 BLK	41 BRN/RED
AM	21 PNK	SHLD	SHLD	11 WHT	42 BRN/GRN
BF	22 RED	15 BLK	22 BLK/WHT/RED	11 RED	43 BRN/ORN
BF	22 GRN	15 WHT	SHLD	SHLD	44 BRN/BLU
BP	23 RED	SHLD	23 WHT/BLK/RED	12 BLK	45 WHT/BLK/BLU
BN	23 ORN	16 BLK	SHLD	12 WHT	46 RED/WHT/BLU
BM	24 RED	16 WHT	24 RED/BLK/WHT	12 RED	47 GRN/ORN/RED
BL	24 BLU	SHLD	SHLD	SHLD	48 ORN/RED/BLU
BK	25 RED	17 BLK	25 GRN/BLK/WHT	13 BLK	49 BLU/RED/ORN
BA	25 BRN	17 WHT	SHLD	13 WHT	50 BLK/ORN/RED
AR	26 RED	SHLD	26 ORN/BLK/WHT	13 RED	51 WHT/BLK/ORN
AD	26 GRA	18 BLK	SHLD	SHLD	52 RED/ORN/BLK
t	27 RED	18 WHT	27 BLU/BLK/WHT	14 BLK	53 GRN/RED/BLU
i	27 YEL	SHLD	SHLD	14 WHT	54 ORN/BLK/BLU
Y	28 RED	19 BLK	28 BLK/RED/GRN	14 RED	55 BLU/BLK/ORN
P	28 PUR	19 WHT	SHLD	SHLD	56 BLK/ORN/GRN
F	29 RED	SHLD	29 WHT/RED/GRN	15 BLK	57 WHT/ORN/GRN
H	29 TAN	20 BLK	SHLD	15 WHT	58 RED/ORN/GRN
J	30 RED	20 WHT	30 RED/BLK/GRN	15 RED	59 GRN/BLK/BLU
K	30 PNK	SHLD	SHLD	SHLD	60 ORN/GRN/BLU
L	31 GRN	21 BLK	OVSHLD	16 BLK	61 BLU/GRN/ORN
M	31 ORN	21 WHT	*	16 WHT	OVSHLD 2/
W	32 GRN	SHLD	*	16 RED	*
g	32 BLU	22 BLK	*	SHLD	*
s	33 GRN	22 WHT	*	17 BLK	*
AN	33 BRN	SHLD	*	17 WHT	*
AY	34 GRN	23 BLK	*	17 RED	*
BH	34 GRA	23 WHT	*	SHLD	*
BR	35 GRN	SHLD	*	18 BLK	*
BV	35 YEL	24 BLK	*	18 WHT	*
BU	36 PUR	24 WHT	*	18 RED	*
BT	36 GRN	SHLD	*	SHLD	*
BS	37 GRN	OVSHLD 1/	*	19 BLK	*
BJ	37 TAN	*	*	19 WHT	*
AZ	38 GRN	*	*	19 RED	*
AP	38 PNK	*	*	SHLD	*
AC	39 ORN	*	*	OVSHLD	*

FIGURE 23. Information on insert and wiring for 40-56 - Continued.

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SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
40-56	2XAO-40	2S-24	1XSOW-30	3XSOW-19	MXCW-61
		2XSA-24			MXCWA-61
		2XSAOW-24			MXCOW-61
h	39 BLU	*	*	*	*
X	40 ORN	*	*	*	*
N	40 BRN	*	*	*	*
E	OVSHLD	*	*	*	*
A	*	*	*	*	*
B	*	*	*	*	*
C	*	*	*	*	*
D	*	*	*	*	*
1/ OVSHLD FOR 2XSAOW-24 ONLY.					
2/ OVSHLD FOR MXCOW-61 ONLY.					

40-56	TTXW-40	TTXOW-3
	TTXWA-40	
	TTXOW-40	
x	1 BLK	1 BLK
y	1 WHT	1 WHT
AJ	2 BLK	2 BLK
AH	2 RED	2 RED
w	3 BLK	3 BLK
m	3 GRN	3 GRN
n	4 BLK	4 BLK
p	4 ORN	4 ORN
z	5 BLK	5 BLK
AK	5 BLU	5 BLU
AV	6 BLK	6 BLK
AU	6 BRN	6 BRN
AT	7 BLK	7 BLK
AF	7 GRA	7 GRA
v	8 BLK	8 BLK
k	8 YEL	8 YEL
a	9 BLK	9 BLK
b	9 PUR	9 PUR
c	10 BLK	10 BLK
d	10 TAN	10 TAN
q	11 BLK	11 BLK
AA	11 PNK	11 PNK

FIGURE 23. Information on insert and wiring for 40-56 - Continued.

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SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
40-56	TTXW-40	TTXOW-3
	TTXWA-40	
	TTXOW-40	
AL	12 WHT	12 WHT
AW	12 RED	12 RED
BE	13 WHT	13 WHT
BD	13 GRN	13 GRN
BC	14 WHT	14 WHT
BB	14 ORN	14 ORN
AS	15 WHT	15 WHT
AE	15 BLU	15 BLU
u	16 WHT	16 WHT
j	16 BRN	16 BRN
Z	17 WHT	17 WHT
R	17 GRA	17 GRA
S	18 WHT	18 WHT
T	18 YEL	18 YEL
U	19 WHT	19 WHT
V	19 PUR	19 PUR
f	20 WHT	20 WHT
r	20 TAN	20 TAN
AB	21 WHT	21 WHT
AM	21 PNK	21 PNK
AX	22 RED	22 RED
BF	22 GRN	22 GRN
BP	23 RED	23 RED
BN	23 ORN	23 ORN
BM	24 RED	24 RED
BL	24 BLU	24 BLU
BK	25 RED	25 RED
BA	25 BRN	25 BRN
AR	26 RED	26 RED
AD	26 GRA	26 GRA
t	27 RED	27 RED
i	27 YEL	27 YEL
Y	28 RED	28 RED
P	28 PUR	28 PUR
F	29 RED	29 RED
H	29 TAN	29 TAN
J	30 RED	30 RED
K	30 PNK	30 PNK

FIGURE 23. Information on insert and wiring for 40-56 - Continued.

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SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
40-56	TTXW-40	TTXOW-3
	TTXWA-40	
	TTXOW-40	
L	31 GRN	*
M	31 ORN	*
W	32 GRN	*
g	32 BLU	*
s	33 GRN	*
A	33 BRN	*
A	34 GRN	*
BH	34 GRA	*
BR	35 GRN	*
BV	35 YEL	*
BU	36 GRN	*
BT	36 PUR	*
BS	37 GRN	*
BJ	37 TAN	*
AC	38 GRN	*
AP	38 PNK	*
AZ	39 ORN	*
h	39 BLU	*
X	40 ORN	*
N	40 BRN	*
E	OVSHLD <u>1/</u>	*
A	*	*
B	*	*
C	*	*
D	*	*

1/ OVSHLD FOR TTXOW-40 ONLY.

FIGURE 23. Information on insert and wiring for 40-56 - Continued.

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SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>		
40-62	3XSWA-14	2XS-19	TTXW-30
	3XSW-14	2XSA-19	TTXWA-30
	3XSOW-14	2XSAOW-19	
		2XSO-19	
		2XSOW-19	
56	2 WHT	SHLD	3 GRN
46	2 RED	3 BLK	4 BLK
47	SHLD	3 WHT	4 ORN
48	3 BLK	SHLD	5 BLK
49	3 WHT	4 BLK	5 BLU
50	3 RED	4 WHT	6 BLK
51	SHLD	SHLD	6 BRN
52	4 BLK	5 BLK	7 BLK
53	4 WHT	5 WHT	7 GRA
54	4 RED	SHLD	8 BLK
43	SHLD	6 BLK	8 YEL
44	5 BLK	6 WHT	9 BLK
45	5 WHT	SHLD	9 PUR
29	5 RED	7 BLK	10 BLK
30	SHLD	7 WHT	10 TAN
31	6 BLK	SHLD	11 BLK
32	6 WHT	8 BLK	11 PNK
33	6 RED	8 WHT	12 WHT
34	SHLD	SHLD	12 RED
35	7 BLK	9 BLK	13 WHT
36	7 WHT	9 WHT	13 GRN
37	7 RED	SHLD	14 WHT
38	SHLD	10 BLK	14 ORN
39	8 BLK	10 WHT	15 WHT
40	8 WHT	SHLD	15 BLU
41	8 RED	11 BLK	16 WHT
42	SHLD	11 WHT	16 BRN
25	9 BLK	SHLD	17 WHT
26	9 WHT	12 BLK	17 GRA
27	9 RED	12 WHT	18 WHT
28	SHLD	SHLD	18 YEL
6	10 BLK	13 BLK	19 WHT
7	10 WHT	13 WHT	19 PUR
8	10 RED	SHLD	20 WHT
9	SHLD	14 BLK	20 TAN
10	11 BLK	14 WHT	21 WHT

FIGURE 24. Information on insert and wiring for 40-62 - Continued.

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SECTION 200

WIRING INFORMATION - Continued.

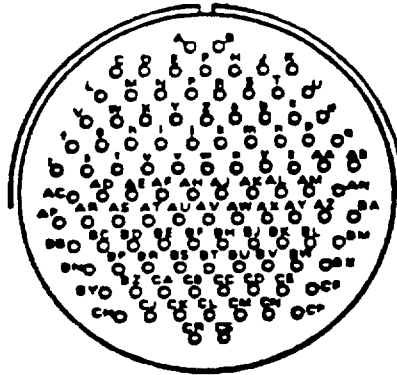
<u>INSERT</u>	<u>CABLE TYPE</u>		
40-62	3XSWA-14	2XS-19	TTXW-30
	3XSW-14	2XSA-19	TTXWA-30
	3XSOW-14	2XSAOW-19	
		2XSO-19	
		2XSOW-19	
11	11 WHT	SHLD	21 PNK
12	11 RED	15 BLK	22 RED
13	SHLD	15 WHT	22 GRN
14	12 BLK	SHLD	23 RED
15	12 WHT	16 BLK	23 ORN
16	12 RED	16 WHT	24 RED
17	SHLD	SHLD	24 BLU
18	13 BLK	17 BLK	25 RED
19	13 WHT	17 WHT	25 BRN
20	13 RED	SHLD	26 RED
21	SHLD	18 BLK	26 GRA
22	14 BLK	18 WHT	27 RED
23	14 WHT	SHLD	27 YEL
24	14 RED	19 BLK	28 RED
1	OVSHLD <u>1</u> /	19 WHT	28 PUR
2	*	OVSHLD <u>2</u> /	29 RED
3	*	*	29 TAN
4	*	*	30 RED
5	*	*	30 PNK

1/ OVSHLD FOR 3XSOW-14 ONLY2/ OVSHLD FOR 2XSAOW-19; 2XSO-19; 2XSOW-19 ONLYFIGURE 24. Information on insert and wiring for 40-62 - Continued.

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SECTION 200

SH 1323175129



Insert 44-52
Contacts
Qty: 104
Size 16

CABLE							CONDUCTORS/SHIELDS				
OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)					DIAMETER (INCH)	CONNECTOR MILITARY PART NUMBER			
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	MIL-C- 24640/			
2XS-30	0.804	0.866			90	22	0.0320	9	MS340	*	DJ44F 52 D/E
2XSAOW-30	.941	1.020	0.044	0.050	91	22	.0320	15	MS340	*	DJ44A 52 D/E
2XSOW-30	1.180	1.270	.062	.068	91	18	.0456	16	MS340	*	DJ44B 52 P/S
3XSOW-24	1.200	1.300	.062	.068	97	18	.0456	18	MS340	*	DJ44B 52 P/S
2XSA-30	.854	.916			90	22	.0320	9	MS340	*	DJ44F 52 D/E
2XSO-30	.869	.937			91	22	.0320	9	MS340	*	DJ44F 52 D/E

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>	
44-52	2XS-30	3XSOW-24
	2XSA-30	
	2XSAOW-30	
	2XSOW-30	
	2XSO-30	
w	1 BLK	1 BLK
AJ	1 WHT	1 WHT
AV	SHLD	1 RED
AH	2 BLK	SHLD
v	2 WHT	2 BLK
j	SHLD	2 WHT
k	3 BLK	2 RED

FIGURE 25. Information on insert and wiring for 44-52.

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SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
44-52	2XS-30	3XSOW-24
	2XSA-30	
	2XSAOW-30	
	2XSOW-30	
	2XSO-30	
x	3 WHT	SHLD
AK	SHLD	3 BLK
AW	4 BLK	3 WHT
BH	4 WHT	3 RED
BF	SHLD	SHLD
AU	5 BLK	4 BLK
AF	5 WHT	4 WHT
u	SHLD	4 RED
i	6 BLK	SHLD
Y	6 WHT	5 BLK
Z	SHLD	5 WHT
a	7 BLK	5 RED
m	7 WHT	SHLD
y	SHLD	6 BLK
AL	8 BLK	6 WHT
AX	8 WHT	6 RED
BJ	SHLD	SHLD
BU	9 BLK	7 BLK
BT	9 WHT	7 WHT
BS	SHLD	7 RED
BE	10 BLK	SHLD
AT	10 WHT	8 BLK
AE	SHLD	8 WHT
t	11 BLK	8 RED
h	11 WHT	SHLD
X	SHLD	9 BLK
N	12 BLK	9 WHT
P	12 WHT	9 RED
R	SHLD	SHLD
S	13 BLK	10 BLK
b	13 WHT	10 WHT
n	SHLD	10 RED
z	14 BLK	SHLD
AM	14 WHT	11 BLK

FIGURE 25. Information on insert and wiring for 44-52 - Continued.

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SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
44-52	2XS-30	3XSOW-24
	2XSA-30	
	2XSAOW-30	
	2XSOW-30	
	2XS0-30	
AY	SHLD	11 WHT
BK	15 BLK	11 RED
BV	15 WHT	SHLD
CD	SHLD	12 BLK
CC	16 BLK	12 WHT
CB	16 WHT	12 RED
CA	SHLD	SHLD
BR	17 BLK	13 BLK
BD	17 WHT	13 WHT
AS	SHLD	13 RED
AD	18 BLK	SHLD
s	18 WHT	14 BLK
g	SHLD	14 WHT
W	19 BLK	14 RED
M	19 WHT	SHLD
D	SHLD	15 BLK
E	20 BLK	15 WHT
F	20 WHT	15 RED
H	SHLD	SHLD
J	21 BLK	16 BLK
T	21 WHT	16 WHT
c	SHLD	16 RED
p	22 BLK	SHLD
AA	22 WHT	17 BLK
AN	SHLD	17 WHT
AZ	23 BLK	17 RED
BL	23 WHT	SHLD
BW	SHLD	18 BLK
CE	24 BLK	18 WHT
CN	24 WHT	18 RED
CM	SHLD	SHLD
CL	25 BLK	19 BLK
CK	25 WHT	19 WHT
CJ	SHLD	19 RED
BZ	26 BLK	SHLD

FIGURE 25. Information on insert and wiring for 44-52 - Continued.

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SECTION 200

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
44-52	2XS-30	3XSOW-24
	2XSA-30	
	2XSAOW-30	
	2XSOW-30	
	2XS0-30	
BP	26 WHT	20 BLK
BC	SHLD	20 WHT
AR	27 BLK	20 RED
AC	27 WHT	SHLD
r	SHLD	21 BLK
f	28 BLK	21 WHT
V	28 WHT	21 RED
L	SHLD	SHLD
C	29 BLK	22 BLK
A	29 WHT	22 WHT
B	SHLD	22 RED
K	30 BLK	SHLD
U	30 WHT	23 BLK
d	SHLD	23 WHT
q	*	23 RED
AB	*	SHLD
BA	*	24 BLK
BM	*	24 WHT
BX	*	24 RED
CF	*	SHLD
CP	*	*
CS	*	*
CR	*	*
CH	*	*
BY	*	*
BN	*	*
BB	*	*
AP	*	*

FIGURE 25. Information on insert and wiring for 44-52 - Continued.

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SECTION 300

TABLE VII. MIL-C-5015 connector insert to MIL-C-24643 cable cross reference.

Insert	Cables
10SL-3 (11-3)	LSTCOP-2, LSTNW-3, LSTPNW-1-1/2, LSTTSU-1-1/2, LS2SJ-16, -18, -20, -22, LS2SWU-1
12S-3 (13-3)	LSDCOP-1, -1-1/2, -2, LSDHOF-3, LSDNW-3, LSDPS-3, LSDSGU-3, LSSHOF 3, LSTCKX-1, LSTCTX-1
14S-2 (15-2)	LSFHOF-3, LSFNW-3, LSFSGU-3, LSMCOS-2, LSTHOF-3, LSTPS-3, LS1SWU 2, LS3SJ-16, -18, -20, -22 LSTSGU-3
16S-1 (17-1)	LSMCOS-4, -5, LSMHOF-7, LSMHOP-5, LSMNW-7, LSMSCU-7, LSTCJX-3, LSTCKX-3, LSTCTX-3, LSTPNW-3, LSTTOP-3, LSTTRS-2; LSTTSU-3, LS4SJ 16, -20, LS7SGU-3
18-1	LSMCOS-6, -7, LSMHOF-10, LSMNW-10, LSMSCU-10, LSPBTMU-5, LSPI-3, LSTPNW-5, LSTTOP-5, LSTTSU-5, LS1SMU-5, LS2SU-3, LS2SWAU-3, LS2SWU-3, LS3U-3
18-6	LSSHOF-23, LSSSGU-50
20-2	LSSHOF-60, LSSSGU-75, -100
20-4	LSDHOF-4, -6, LSDNW-4, LSDPS-4, -6, LSDRW, LSDSGU-4, LSFHOF-4, LSFNW-4, LSFSGU-4, LSSRW, LSTCJU-4, LSTCTU-4, LSTHOF-4, -6, LSTNW-4, LSTPS-4, -6, LSTRW, LSTSGU-4, LS2SJ-12, -14, LS3SJ-12, 14
20-27	LSMHOF-14, LSMNW-14, LSMSCU-14, LSMU-14, LSTCJX-7, LSTCKX-7, LSTCTX-7, LSTTRS-4, LS3SU-3, LS3SWU-3
22-22	LSDHOF-9, -14, LSDNW-9, -14, -23, LSDPS-9, -14, LSDSGU-9, -14, -23, LSDHOF-9, -14, LSDNW-9, -14, -23, LSDPS-9, -14, LSDSGU-9, -14, -23, LSFHOF-9, LSFNW-9, -23, LSFPS-14, LSFSGU-9, -23, LSTHOF-9, -14, LSTNW-9, -14, -23, LSTPS-9, -14, -23, LSTSGU-9, -14, -23, LS2SJ-7, -9, -11, LS3SJ-9, LS4NW-8
22-23	LS4SJ-14, LS7PS-6, LS7SGU-4, LS8NW-6
24-28	LSMHOF-19, -24, LSMNW-19, -24, LSMSCU-19, -24, LSPI-7, LSTCTX-12, LSTPNW-10, LSTTOP-10, LSTTRS-6, -8, LSTTSU-10, LS1S75MU-8, LS2SU-7, LS2SWAU-7, LS2SWL-7, LS2SWU-7, LS2U-10, LS3U-7

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SECTION 300

TABLE VII. MIL-C-5015 connector insert to MIL-C-24643 cable cross reference - Continued.

Insert	Cables
28-21	LSMHOF-30, -37, LSMNW-30, -37, LSMSCU-30, -37, LSPBTMU-15, LSPI-12, LSTCJX-12, LSTCKX-12, LSTPNW-15, LSTTOP-15, LSTTRS-10, -12, LSTTSU-15, LS1SWU-14, LS1S50MU-16, LS2SU-10, LS2SWAU-10, LS2SWU-12, LS2U-15, LS3SF-7, LS3SU-7, LS3SWU-7, LS3U-12
32-17	LSDHOF-23, -30, LSDNW-50, LSDSGU-50, LSFHOF-42, LSFSGU-50, LSTHOF-23, -42, LSTNW-50, LSTPS-30, LSTSGU-50
36-5	LSDHOF-83, LSDNW-75, -100, LSDSGU-75, -100, LSFHOF-60, LSFSGU-75, -100, LSTNW-75, -100, LSTSGU-75, -100
36-10	LSMHOF-44, LSMNW-44, LSMS-37, LSMSCU-44, LSTPNW-20, LSTTRS-16, LSTTSU-20, LS1SWU-20, LS1S50MU-20, LS2SU-14, LS2SWAU-14, LS2U-19, LS3SU-10, LS3SWU-10
40-56	LSECM, LSMHOF-61, LSMSCU-61, LSTPNW-40, LSTTSU-40, LS1SU-36, LS1S50MU-40, LS2AU-40, LS2SU-24, LS2SWU-24, LS2U-30, LS2WU-40, LS3SU-19, LS3SWU-19, LS2SWAU-24
40-62	LSPBTMU-30, LSTPNW-30, LSTTSU-30, LS1SWU-30, LS2SU-19, LS2SWAU-19, LS2SWU-19, LS3SU-14, LS3SWU-14
44-52	LSMSCU-91, LSTTSU-50, LS1SAU-44, LS2SU-30, LS2SWAU-30, LS2SWU-30, LS2U-45, LS3SU-24, LS3SWU-24

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TABLE VIII. MIL-C-24643 cable to MIL-C-5015 connector insert cross reference.

Cable	Insert	Cable	Insert	Cable	Insert
LSDCOP-1	12S-3	LSFHOF-3	14S-2	LSMDW-30	28-21
LSDC P-1-1/2	12S-3	LSFHOF-4	20-4	LSMDW-37	28-21
LSDC P-2	12S-3	LSFHOF-9	22-22	LSMDW-44	36-10
		LSFHOF-42	32-17		
LSDHOF-3	12S-3	LSFHOF-60	36-5	LSMS-37	36-10
LSDHOF-4	20-4				
LSDHO -6	20-4	LSFNW-3	14S-2	LSMSCU-7	16S-1
LSDH F-9	22-22	LSFNW-4	20-4	LSMSCU-10	18-1
LSDH F-14	22-22	LSFNW-9	22-22	LSMSCU-14	20-27
LSDH F-23	32-17	LSFNW-23	22-22	LSMSCU-19	24-28
LSDH F-30	32-17			LSMSCU-24	24-28
LSDHOF-83	36-5	LSFPS-14	22-22	LSMSCU-3-	28-21
				LSMSCU-37	28-21
LSDNW-3	12S-3	LSFSGU-3	14S-2	LSMSCU-44	36-10
LSDNW-4	20-4	LSFS U-4	20-4	LSMSCU-61	44-56
LSDNW-9	22-22	LSFSGU-9	22-22	LSMSCU-91	44-52
LSDNW-14	22-22	LSFSGU-23	22-22		
LSDNW-23	22-22	LSFSGU-50	32-17	LSMU-14	2 -27
LSDNW-50	32-17	LSFSGU-75	36-5		
LSDNW-75	36-5	LSFSGU-100	36-5	LSPBTMU-	18-1
LSDNW-100	36-5			LSPBTMU- 5	28-1
		LSMCOS-2	14S-2	LSPBTMU- 0	40-62
LSD S-3	12S-3	LSMCOS-4	16S-1		
LSDPS-4	20-4	LSMCOS-5	16S-1	LSPI-3	18 1
LSDPS-6	20-4	LSMCOS-6	18-1	LSPI-7	24 28
LSDPS-9	22-22	LSMCOS-7	18-1	LSPI-12	28-21
LSDPS-14	22-22				
		LSMHOF-7	16S-1	LSSHOF-3	12S-3
LSDRW	20-4	LSMHOF-10	18-1	LSSHOF-23	18-6
		LSMHOF-14	20-27	LSSHOF-60	20-2
LSDSGU-3	12S-3	LSMHOF-19	24-28		
LSDSGU-4	20-4	LSMHOF-24	24-28	LSSRW	12S-3
SDSGU-9	22-22	LSMHOF-30	28-21		
LSDSGU-14	22-22	LSMHOF-37	28-21	LSSSGU-50	18-6
LSDSGU-23	22-22	LSMHOF-44	36-10	LSSGU-100	20-2
LSDSGU-50	32-17	LSMHOF-61	40-56		
LSDSGU-75	36-5				
LSDSGU-100	36-5	LSMMOP-5	16S-1		

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TABLE VIII. MIL-C-24643 cable to MIL-C-5015 connector insert cross reference -
Continued.

Cable	Insert	Cable	Insert	Cable	Insert
LSECM	40-56	LSMNW-7	16S-1		
		LSMNW-10	18-1		
		LSMNW-14	20-27		
		LSMNW-19	24-28		
		LSMNW-24	24-28		
LSTCOP-2	10SL-3	LSTSGU-3	14S-2	LS2SJ-7	22-22
		LSTSGU-4	20-4	LS2SJ-9	22-22
LSTCJU-4	20-4	LSTSGU-9	22-22	LS2SJ-11	22-2
LSTCJX-3	16S-1	LSTSGU-14	22-22	LS2SJ-12	20-4
LSTCJX-7	20-27	LSTSGU-23	22-22	LS2SJ-14	20-4
LSTCJX-12	28-21	LSTSGU-50	32-17	LS2SJ-6	10SL-3
		LSTSGU-75	36-5	LS2SJ-18	10SL-3
LSTCKX-1	12S-3	LSTSGU-100	36-5	LS2SJ-20	10SL-3
LSTCKX-3	16S-1			LS2SJ-22	
		LSTTOP-3	16S-1		
LSTCTU-4	20-4	LSTTOP-5	18-1	LS2SU-3	18-1
LSTCTX-7	20-27	LSTTOP-10	24-28	LS2SU-7	24-28
LSTCTX-12	28-21	LSTTOP-15	28-21	LS2SU-10	28-21
LSTCTX-7	20-27			LS2SU-14	36-10
		LSTTRS-2	16S-1		
LSTHOF-3	14S-2	LSTTRS-6	24-28	LS2SWAU-3	18-1
LSTHOF-4	20-4	LSTTRS-8	24-28	LS2SWAU-7	24-28
LSTHOF-6	20-4	LSTTRS-10	28-21	LS2SWAU-10	28-21
LSTHOF-9	22-22	LSTTRS-12	28-21	LS2SWAU-14	36-10
LSTHOF-14	22-22	LSTTRS-16	36-10	LS2SWAU-19	40-62
LSTHOF-23	32-17			LS2SWAU-24	40-6
LSTHOF-42	32-17	LSTTSU-1-1/2	10SL-3	LS2SWAU-30	44-52
		LSTTSU-3	16S-1		
LSTNW-3	10SL-3	LSTTSU-5	18-1	LS2SWU-1	10SL-3
LSTNW-4	20-4	LSTTSU-10	24-28	LS2SWU-3	18-1
LSTNW-9	22-22	LSTTSU-15	28-21	LS2SWU-7	24-28
LSTNW-14	22-22	LSTTSU-20	36-10	LS2SWU-12	28-21
LSTNW-23	22-22	LSTTSU-30	40-62	LS2SWU-19	40-62
LSTNW-50	32-17	LSTTSU-40	40-56	LS2SWU-24	40-56
LSTNW-75	36-5	LSTTSU-50	44-52	LS2SWU-30	44-52
LSTNW-100	36-5				
		LS1SAU-44	44-52	LS2U-10	24-28
LSTPNW-1-1/2	10SL-3			LS2U-15	28-21
LSTPNW-3	16S-1	LS1SMU-5	18-1	LS2U-19	36-10
LSTPNW-5	18-1			LS2U-30	40-56
LSTPNW-10	24-28	LS1SU-36	40-56	LS2U-45	44-52
LSTPNW-15	28-21				

MIL-STD-1683B(SH)

SECTION 300

TABLE VIII. MIL-C-24643 cable to MIL-C-5015 connector insert cross-reference -
Continued.

Cable	Insert	Cable	Insert	Cable	Insert
LSTPNW-20	36-10	LS1SWU-2	14S-2	LS2WAU-40	40-56
LSTPNW-30	40-62	LS1SWU-14	28-21		
LSTPNW-40	40-56	LS1SWU-20	36-10	LS3SF-7	28-21
		LS1SWU-30	40-62		
LSTPS-3	14S-2			LS3SJ-9	22-22
LSTPS-4	20-4	LS1S50MU-16	28-21	LS3SJ-12	20-4
LSTPS-6	20-4	LS1S50MU-20	36-10	LS3SJ-14	20-4
LSTPS-9	22-22	LS1S50MU-40	40-56	LS3SJ-16	14S-2
LSTPS-14	22-22			LS3SJ-18	14S-2
LSTPS-23	22-22	LS1S75MU-8	24-28	LS3SJ-20	14S-2
LSTPS-30	32-17			LS3SJ-22	14S-2
		LS2AU-40	40-56		
LSTRW	20-24				
LS3SU-3	20-27				
LS3SU-7	28-21				
LS3SU-10	36-10				
LS3SU-14	40-62				
LS3SU-19	40-56				
LS3SU-24	44-52				
LS3SWU-3	20-27				
LS3SWU-7	28-21				
LS3SWU-10	36-10				
LS3SWU-14	40-62				
LS3SWU-19	40-56				
LS3SWU-24	44-52				
LS3U-3	18-1				
LS3U-7	24-28				
LS3U-12	28-21				
LS4NW-8	22-22				
LS4SJ-14	22-23				
LS4SJ-16	16S-1				
LS4SJ-20	16S-1				
LS7PS-6	22-23				
LS7SGU-3	16S-1				
LS7SGU-4	22-23				
LS8NW	22-23				

MIL-STD-1683B (SH)

SECTION 300

SH 1323175130



Insert 10SL-3
Contacts
Qty. 3
Size 16, 16S

TYPE	CABLE		FINISHED WIRE		QTY	AWG	CONDUCTORS/SHIELDS		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)	MIN	MAX	MIN	MAX		DIAMETER (INCH)	NOMINAL		
LSTCOP-2	0.325	0.325	0.345			3	18	0.0456	2	MS340 * DJ11 B 3 P/S
LSTNW-3	.380	.380	.411			3	16	.0576	49	MS340 * DJ11 B 3 P/S
LSTPNW-1 1/2	.217	.217	.235			3	22	.0320	52	MS340 * DJ11 A 3 P/S
LSTTSU-1 1/2	.305	.305	.330			3	22	.0320	23	MS340 * DJ11 B 3 P/S
LS2SJ-16	.309	.309	.325			3	16-19 1/	.0570	43	MS340 * DJ11 B 3 P/S
LS2SJ-18	.295	.295	.310			3	18-19 1/	.0510	43	MS340 * DJ11 A 3 P/S
LS2SJ-20	.273	.273	.290			3	20-19 1/	.0410	43	MS340 * DJ11 A 3 P/S
LS2SJ-22	.261	.261	.275			3	22-19 1/	.0320	43	MS340 * DJ11 A 3 D/E
LS2SWU-1	.240	.240	.255			3	18	.0456	33	MS340 * DJ11 A 3 P/S

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>		
10SL-3	LSTCOP-2	LS2SJ-16, 18	LS2SWU-1
	LSTNW-3	20, 22	
	LSTPNW-1 1/2		
	LSTTSU-1 1/2		
A	1 BLK	1 BLK	1 BLK
B	2 WHT	2 WHT	1 WHT
C	3 RED	3 SHLD	SHLD

FIGURE 26. Information on insert and wiring for 10SL-3.

MIL-STD-1683B(SH)

SECTION 300



SH 1323175131

Insert 12S-3
Contacts
Qty: 2
Size 16, 16S

CABLE		CONDUCTORS/SHIELDS						
OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)		DIAMETER (INCH)					CONNECTOR MILITARY PART NUMBER
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	MIL-C- 24643/
LSDCOP-1	0.235	.250			2	20	0.0363	2
LSDCOP-1 1/2	.300	.315			2	18	.0456	2
LSDCOP-2	.310	.330			2	18	.0456	2
LSDHOF-3	.405	.425			2	16	.0576	3
LSDNW-3	.361	.390			2	16	.0576	48
LSDPS-3	.421	.455			2	16	.0576	26
LSDSGU-3	.362	.391			2	16	.0576	15
LSSHOF-3	.195	.210			1	16	.0576	3
LSTCKX-1	.422	.456			2	21 1/	.0113	24
LSTCTX-1	.324	.350			2	21 1/	.0113	24
								MS340 * DJ13 A 3 P/S
								MS340 * DJ13 E 3 P/S
								MS340 * DJ13 E 3 D/E
								MS340 * DJ13 D 3 P/S
								MS340 * DJ13 E 3 P/S
								MS340 * DJ13 D 3 P/S
								MS340 * DJ13 D 3 P/S
								MS340 * DJ13 D 3 P/S
								MS340 * DJ13 A 3 P/S
								MS340 * DJ13 A 3 P/S
								MS340 * DJ13 D 3 A/B
								MS340 * DJ13 D 3 A/B
								MS340 * DJ13 E 3 A/B
								MS340 * DJ13 E 3 A/B

1/ 7 STRANDS 0.0113 (INCH) DIAMETER

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>		
12S-3	LSSHOF-3	LSDCOP-1, 1-1/2, 2	LSTCKX-1
		LSDHOF-3	LSTCTX-1
		LSDNW-3	
		LSDPS-3	
		LSDSGU-3	
A	BLK	1 BLK	1 RED
B	*	2 WHT	2 WHT

FIGURE 27. Information on insert and wiring for 12S-3.

MIL-STD-1683B(SH)

SECTION 300

SH 1323175132



Insert 14S-2
Contacts
Qty: 4
Size 16, 16S

OUTSIDE DIAMETER (INCH)	CABLE		FINISHED WIRE		QTY	CONDUCTORS/SHIELDS		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
TYPE									
LSFHOF-3	0.460	0.480			4	16	0.0576	3	MS340 * DJ15 D 2 P/S
LSFNW-3	.413	.447			4	16	.0576	50	MS340 * DJ15 D 2 P/S
LSFSGU-3	.413	.447			4	18	.0576	17	MS340 * DJ15 D 2 P/S
LSMCOS-2	.440	.460			3	18	.0456	4	MS340 * DJ15 D 2 P/S
LSTHOF-3	.430	.450			3	16	.0576	3	MS340 * DJ15 D 2 P/S
LSTPS-3	.439	.475			3	16	.0576	26	MS340 * DJ15 D 2 P/S
LSTSGU-3	.380	.411			3	16	.0576	16	MS340 * DJ15 D 2 P/S
LS1SWU-2	.430	.455			4	22-7 1/	.0310	30	MS340 * DJ15 D 2 D/E
LS3SJ-16	.323	.340			4	16-19 1/	.0570	43	MS340 * DJ15 A 2 P/S
LS3SJ-18	.308	.325			4	18-19 1/	.0510	43	MS340 * DJ15 A 2 P/S
LS3SJ-20	.284	.300			4	20-19 1/	.0410	43	MS340 * DJ15 E 2 P/S
LS3SJ-22	.271	.285			4	22-19 1/	.0320	43	MS340 * DJ15 E 2 D/E

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>				
14S-2	LSTHOF-3	LSMCOS-2	LSFHOF-3	LS3SJ-16, 18,	LS1SWU-2
	LSTPS-3		LSFNW-3	20, 22	
	LSTSGU-3		LSFSGU-3		
A	1 BLK	1 BLK	1 BLK	1 BLK	1BLK
B	2 WHT	1 WHT	2 WHT	2 WHT	SHLD
C	3 RED	SHLD	3 RED	3 RED	2 WHT
D	*	*	4 GRN	SHLD	SHLD

FIGURE 28. Information on insert and wiring for 14S-2.

MIL-STD-1683B(SH)

SECTION 300

SH 1323175133



Insert 16S-1
Contacts
Qty: 7
Size 16, 16S

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)			AWG	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24643	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY		NOMINAL			
LSMCOS-4	0.490	0.510			5	18	0.0456	4		MS340 * DJ17 E 1 P/S
LSMCOS-5	.375	.390			6	20	.0363	4		MS340 * DJ17 D 1 P/S
LSMHOF-7	.465	.500			7	16	.0576	7		MS340 * DJ17 E 1 P/S
LSMMOP-5	.282	.305			5	24	.0260	8		MS340 * DJ17 D 1 P/S
LSMNW-7	.370	.400			7	18	.0456	51		MS340 * DJ17 D 1 P/S
LSMSCU-7	.447	.484			7	18	.0456	18		MS340 * DJ17 E 1 P/S
LSTCJX-3	.686	.742			6	1/	.0201	24		MS340 * DJ17 B 1 A/B
LSTCKX-3	.686	.742			6	1/	.0201	24		MS340 * DJ17 B 1 A/B
LSTCTX-3	.511	.552			6	2/	.0113	24		MS340 * DJ17 E 1 A/B
LSTPNW-3	.287	.310			6	22	.0320	52		MS340 * DJ17 D 1 D/E
LSTTOP-3	.444	.480			6	20	.0363	12		MS340 * DJ17 E 1 P/S
LSTTRS-2	.629	.680			6	20	.0363	13		MS340 * DJ17 A 1 P/S
LSTTSU-3	.416	.450			6	22	.0320	23		MS340 * DJ17 E 1 D/E
LS4SJ-16	.346	.360			5	16-19 3/	.0570	43		MS340 * DJ17 D 1 P/S
LS4SJ-20	.303	.320			5	20-19 3/	.0410	43		MS340 * DJ17 D 1 P/S
LS7SGU-3	.436	.545			7	16	.0576	20		MS340 * DJ17 A 1 P/S

- 1/ 7 STRANDS 0.0201 (INCH) DIAMETER
2/ 7 STRANDS 0.0113 (INCH) DIAMETER
3/ DENOTES ASTM B 286 SIZE

FIGURE 29. Information on insert and wiring for 16S-1.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATIONINSERT CABLE TYPE

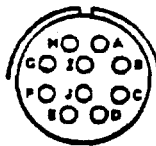
16S-1	LSMMOP-5	LSMCOS-4 LS4SJ-16, 20	LSMCOS-5	LSTCJX-3 LSTCKX-3 LSTCTX-3	LSTPNW-3 LSTTOP-3 LSTTSU-3	LSTTRS-2	LSMHOF-7 LSMNW-7 LSMSCU-7 LS7SGU-3
G	1 BLK	1 BLK	1 BLK	1 RED	1 BLK	1 BLK	1 BLK
A	2 WHT	2 WHT	1 WHT	1 WHT	1 WHT	1 WHT	2 WHT
B	3 RED	3 RED	SHLD	2 RED	2 BLK	SHLD	3 RED
C	4 GRN	4 GRN	2 RED	2 BLK	2 RED	2 BLK	4 GRN
D	5 ORN	SHLD	3 GRN	3 RED	3 BLK	2 WHT	5 ORN
E	*	*	4 BLU	3 GRN	3 GRN	SHLD	6 BLU
F	*	*	*	*	*	*	7 WHT/BLK

FIGURE 29. Information on insert and wiring for 16S-1 - Continued.

MIL-STD-1863B(SH)

SECTION 300

SH 1323175134



Insert 18-1
Contacts
Qty: 10
Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	AWG	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX			NOMINAL			
LSMCOS-6	0.460	0.480			8	20	0.0363	4	MS340	* DJ18 A 1 P/S
LSMCOS-7	.575	.595			8	18	.0456	4	MS340	* DJ18 A 1 P/S
LSMHOF-10	.540	.585			10	16	.0576	7	MS340	* DJ18 A 1 P/S
LSMNW-10	.457	.495			10	18	.0456	51	MS340	* DJ18 A 1 P/S
LSMSCU-10	.575	.622			10	18	.0456	18	MS340	* DJ18 B 1 P/S
LSPBTMU-5	.499	.540			10	22	.0320	10	MS340	* DJ18 A 1 A/B
LSPI-3	.634	.685			9	18	.0456	25	MS340	* DJ18 B 1 P/S
LSTPNW-5	.338	.365			10	22	.0320	52	MS340	* DJ18 F 1 D/E
LSTTOP-5	.546	.590			10	20	.0363	12	MS340	* DJ18 A 1 P/S
LSTTSU-5	.500	.540			10	22	.0320	23	MS340	* DJ18 A 1 D/E
LS1SMU-5	.465	.500			10	22-7 1/	.0310	40	MS340	* DJ18 A 1 D/E
LS2SU-3	.480	.520			9	22-7 1/	.0310	31	MS340	* DJ18 A 1 D/E
LS2SWAU-3	.480	.520			9	22-7 1/	.0310	32	MS340	* DJ18 A 1 D/E
LS2SWU-3	.670	.710			9	18	.0456	33	MS340	* DJ17 B 1 P/S
LS3U-3	.580	.620			9	18	.0456	37	MS340	* DJ17 B 1 P/S

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATIONINSERT CABLE TYPE

18-1	LSPI-3	LS3U-3	LSMOF-10	LSPBTMU-5	LS1SMU-5	LSMCOS-6	LSMCOS-7
	LS2SU-3		LSMNW-10	LSTPNW-5			
	LS2SWAU-3		LSMSCU-10	LSTTOP-5			
	LS2SWU-3			LSTTSU-5			
J	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
I	1 WHT	1 WHT	2 WHT	1 WHT	SHLD	1 WHT	2 WHT

FIGURE 30. Information on insert and wiring for 18-1.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - (Continued)INSERT CABLE TYPE

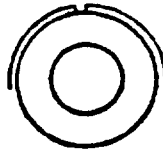
18-1	LSPI-3	LS3U-3	LSMOF-10	LSPBTMU-5	LSISMU-5	LSMCOS-6	LSMCOS-7
	LS2SU-3		LSMNV-10	LSTPNW-5			
	LS2SWAU-3		LSMSCU-10	LSTTOP-5			
	LS2SWU-3			LSTTSU-5			
A	SHLD	1 RED	3 RED	2 BLK	2 WHT	SHLD	3 RED
B	2 BLK	2 BLK	4 GRN	2 RED	SHLD	2 BLU	4 GRN
C	2 WHT	2 WHT	5 ORN	3 BLK	3 RED	2 RED	5 ORN
D	SHLD	2 RED	6 BLU	3 GRN	SHLD	SHLD	6 BLU
E	3 BLK	3 BLK	7 WHT/BLK	4 BLK	4 GRN	3 YEL	7 BRN
F	3 WHT	3 WHT	8 RED/BLK	4 ORN	SHLD	4 GRN	SHLD
G	SHLD	3 RED	9 GRN/BLK	5 BLK	5 ORN	*	*
H	*	*	10 ORN/BLK	5 BLU	SHLD	*	*

FIGURE 30. Information on insert and wiring for 18-1 - Continued.

MIL-STD-1683B(SH)

SECTION 300

SH 1323175135



Insert 18-6
Contacts
Qty: 1
Size 4

OUTSIDE DIAMETER (INCH)	CABLE		FINISHED WIRE		QTY	CONDUCTORS/SHIELDS			CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL	MIL-C- 24643/	
LSSHOF-23	0.440	0.460			1	7	0.164 1/	3	MS340 * DJ18 A 6 P/S
LSSSGU-50	.481	.520			1	3	.260	14	MS340 * DJ18 A 6 P/S

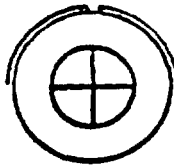
1/ CONTACT BUSHING MS3348-4-6 REQUIRED

FIGURE 31. Information on insert and wiring for 18-6.

MIL-STD-1683B(SH)

SECTION 300

SH 1323175136



Insert 20-2
Contacts
Qty: 1
Size 0

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)				CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24643/ PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL		
LSSHOF-60	0.570	0.600			1	NSS-60 1/	0.310	3	MS340 * DJ20 B 2 P/S
LSSSGU-75	.602	.652			1	1	.332	14	MS340 * DJ18 B 2 P/S
LSSSGU-100	.669	.719			1	0	.373	14	MS340 * DJ18 B 2 P/S

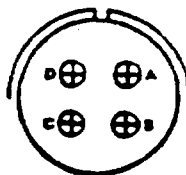
1/ DENOTES NAVY STANDARD SIZE.

FIGURE 32. Information on insert and wiring for 20-2.

MIL-STD-1683B(SH)

SECTION 300

SH 1323175137



Insert 20-4
Contacts
Qty: 4
Size 12

CABLE			CONDUCTORS/SHIELDS					MIL-C-24643/	CONNECTOR MILITARY PART NUMBER
OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)		DIAMETER (INCH)						
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL		
LSDHOF-4	0.440	0.460			2	14	0.0726	3	MS340 * DJ20 A 4 P/S
LSDHOF-6	.490	.510			2	12	.0915	3	MS340 * DJ20 A 4 P/S
LSDNW-4	.398	.430			2	14	.072	48	MS340 * DJ20 F 4 P/S
LSDPS-4	.452	.489			2	14	.0726	26	MS340 * DJ20 A 4 P/S
LSDPS-6	.541	.585			2	12	.0915	26	MS340 * DJ20 A 4 P/S
LSDRW	.620	.670			2	14	.0726	53	MS340 * DJ20 B 4 P/S
LSDSGU-4	.395	.427			2	14	.0726	15	MS340 * DJ20 F 4 P/S
LSFHOF-4	.520	.550			4	14	.0726	3	MS340 * DJ20 A 4 P/S
LSFNW-4	.475	.513			4	14	.0726	50	MS340 * DJ20 A 4 P/S
LSFSGU-4	.475	.513			4	14	.0726	17	MS340 * DJ20 A 4 P/S
LSSRW	.370	.400			1	14	.0726	53	MS340 * DJ20 F 4 P/S
LSTCJU-4	.400	.430			2	1/	.0250	21	MS340 * DJ20 A 4 A/B
LSTCTU-4	.400	.430			2	1/	.0250	21	MS340 * DJ20 A 4 A/B
LSTHOF-4	.460	.480			3	14	.0726	3	MS340 * DJ20 A 4 P/S
LSTHOF-6	.520	.550			3	12	.0915	3	MS340 * DJ20 A 4 P/S
LSTNW-4	.415	.449			3	14	.0726	49	MS340 * DJ20 A 4 P/S
LSTPS-4	.512	.553			3	14	.0726	26	MS340 * DJ20 A 4 P/S
LSTPS-6	.574	.620			3	12	.0915	26	MS340 * DJ20 B 4 P/S
LSTRW	.657	.710			3	14	.0726	53	MS340 * DJ20 B 4 P/S
LSTSGU-4	.415	.449			3	14	.0726	16	MS340 * DJ20 A 4 P/S
LS2SJ-12	.417	.430			3	12	.0915	43	MS340 * DJ20 F 4 P/S
LS2SJ-14	.337	.350			3	14-19	2/ .0720	43	MS340 * DJ20 F 4 P/S
LS3SJ-12	.440	.455			4	12	.0915	43	MS340 * DJ20 A 4 P/S
LS3SJ-14	.353	.370			4	14-19	2/ .0720	43	MS340 * DJ20 F 4 P/S

1/ 7 STRANDS, 0.025 (INCH) DIAMETER

2/ DENOTES ASTM B 286 SIZE

FIGURE 33. Information on insert and wiring for 20-4.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATIONINSERT CABLE TYPE

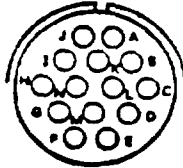
20-4	LSSRW	LSDHOF-4,6	LSTCJU-4	LSTCTU-4	LSTHOF-4,6	LS2SJ-12,14	LS3SJ-12,14	LSFHOF-4
		LSDNW-4			LSTNW-4			LSFNW-4
		LSDPS-4,6			LSTPS-4,6			LSFSGU-4
		LSDRW			LSTRW			
		LSDSGU-4			LSTSGU-4			
A	BLK	1 BLK	3 RED	3 RED	1 BLK	1 BLK	1 BLK	1 BLK
B	*	*	*	*	2 WHT	2 WHT	2 WHT	2 WHT
C	*	2 WHT	8 GRY	6 BLU	3 RED	SHLD	3 RED	3 RED
D	*	*	*	*	*	*	SHLD	4 GRN

FIGURE 33. Information on insert and wiring for 20-4 - Continued.

MIL-STD-1683B (SH)

SECTION 300

SH 1323175138



Insert 20-27
Contacts
Qty: 14
Size 16

TYPE	CABLE		CONDUCTORS/SHIELDS		QTY	AWG	NOMINAL	MIL-C-24643/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)	MIN	MAX					
LSMHOF-14	0.585	0.635			14	16	0.0576	7	MS340 * DJ20 B 27 P/S
LSMNW-14	.494	.535			14	18	.0456	51	MS340 * DJ20 A 27 P/S
LSMCU-14	.617	.668			14	18	.0456	18	MS340 * DJ20 B 27 P/S
LSMU-14	.365	.400			14	20-7 3/	.0380	29	MS340 * DJ20 F 27 P/S
LSTCJX-7	.909	.983			14	1/	.0201	24	MS340 * DJ20 E 27 A/B
LSTCKX-7	.909	.983			14	1/	.0201	24	MS340 * DJ20 E 27 A/B
LSTCTX-7	.876	.731			14	2/	.0113	24	MS340 * DJ20 B 27 A/B
LS3SU-3	.650	.700			12	18	.0456	35	MS340 * DJ20 B 27 P/S
LS3SWU-3	.615	.655			12	18	.0456	36	MS340 * DJ20 B 27 P/S

1/ 7 STRANDS .0201 (INCH) DIAMETER

1/ 7 STRANDS .0113 (INCH) DIAMETER

3/ DENOTES ASTM B 286 SIZE

WIRING INFORMATIONINSERT CABLE TYPE

20-27	LS3SU-3 LS3SWU-3	LSTTRS-4	LSMHOF-14 LSMNW-14 LSMCU-14 LSMU-14	LSTCJX-7 LSTCKX-7 LSTCTX-7
L	1 BLK	1 BLK	1 BLK	1 RED
M	1 WHT	1 WHT	2 WHT	1 WHT
N	1 RED	SHLD	3 RED	2 RED
K	SHLD	2 BLK	4 GRN	2 BLK
B	2 BLK	2 WHT	5 ORN	3 RED
C	2 WHT	SHLD	6 BLU	3 GRN
D	2 RED	3 BLK	7 WHT/BLK	4 RED

FIGURE 34. Information on insert and wiring for 20-27.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - Continued.

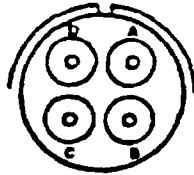
<u>INSERT</u>	<u>CABLE TYPE</u>			
20-27	LS3SU-3 LS3SWU-3	LSTTRS-4	LSMHOF-14 LSMNW-14 LSMSCU-14 LSMU-14	LSTCJX-7 LSTCKX-7 LSTCTX-7
E	SHLD	3 WHT	8 RED/BLK	4 ORN
F	3 BLK	SHLD	9 GRN/BLK	5 RED
G	3 WHT	4 BLK	10 ORN/BLK	5 BLU
H	3 RED	4 WHT	11 BLU/BLK	6 RED
I	SHLD	SHLD	12 BLK/WHT	6 WHT/BLK
J	*	*	13 RED/BLK	7 RED
A	*	*	14 GRN/BLK	7 WHT/GRN

FIGURE 34. Information on insert and wiring for 20-27 - Continued.

MIL-STD-1683B (SH)

SECTION 300

SH 13231175139



Insert 22-22
Contacts
Qty: 4
Size 8

TYPE	OUTSIDE DIAMETER (INCH)		CABLE FINISHED WIRE DIAMETER (INCH)				CONDUCTORS/SHIELDS DIAMETER (INCH)		CONNECTOR MILITARY PART NUMBER	
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	MIL-C- 24643/		
LSDHOF-9	0.540	0.570			2	NSS-9 1/	0.108	3	MS340 *	DJ22 A 22 P/S
LSDHOF-14	.675	.705			2	NSS-14 1/	.136	3	MS340 *	DJ22 B 22 P/S
LSDNW-9	.504	.545			2	10	.116	48	MS340 *	DJ22 A 22 P/S
LSDNW-14	.564	.610			2	9	.130	48	MS340 *	DJ22 A 22 P/S
LSDNW-23	.638	.690			2	7	.164	48	MS340 *	DJ22 B 22 P/S
LSDPS-9	.581	.628			2	10	.116	26	MS340 *	DJ22 B 22 P/S
LSDPS-14	.675	.730			2	9	.130	26	MS340 *	DJ22 D 22 P/S
LSDSGU-9	.503	.544			2	10	.116	15	MS340 *	DJ22 A 22 P/S
LSDSGU-14	.620	.670			2	9	.130	15	MS340 *	DJ22 B 22 P/S
LSDSGU-23	.722	.781			2	7	.164	15	MS340 *	DJ22 D 22 P/S
LSFHOF-9	.630	.660			4	NSS-9 1/	.108	3	MS340 *	DJ22 B 22 P/S
LSFNW-9	.583	.630			4	10	.116	50	MS340 *	DJ22 B 22 P/S
LSFNW-23	.768	.830			4	7	.164	50	MS340 *	DJ22 D 22 P/S
LSFPS-14	.754	.815			4	9	.130	26	MS340 *	DJ22 D 22 P/S
LSFSGU-9	.583	.630			4	10	.116	17	MS340 *	DJ22 B 22 P/S
LSFSGU-23	.823	.890			4	7	.164	17	MS340 *	DJ22 D 22 P/S
LSTHOF-9	.570	.600			3	NSS-9 1/	.108	3	MS340 *	DJ22 A 22 P/S
LSTHOF-14	.720	.750			3	NSS-14 1/	.136	3	MS340 *	DJ22 D 22 P/S
LSTNW-9	.578	.625			3	10	.116	49	MS340 *	DJ22 B 22 P/S
LSTNW-14	.620	.670			3	9	.130	49	MS340 *	DJ22 B 22 P/S
LSTNW-23	.703	.760			3	7	.164	49	MS340 *	DJ22 D 22 P/S
LSTPS-9	.608	.657			3	10	.116	26	MS340 *	DJ22 B 22 P/S
LSTPS-14	.695	.751			3	9	.130	26	MS340 *	DJ22 D 22 P/S
LSTPS-23	.801	.866			3	7	.164	26	MS340 *	DJ22 D 22 P/S
LSTSGU-9	.532	.575			3	10	.116	16	MS340 *	DJ22 B 22 P/S
LSTSGU-14	.664	.718			3	9	.130	16	MS340 *	DJ22 D 22 P/S

FIGURE 35. Information on insert and wiring for 22-22.

MIL-STD-1683B(SH)

SECTION 300

FIGURE 35. Information on insert and wiring for 22-22 - Continued.

OUTSIDE DIAMETER (INCH)		CABLE		FINISHED WIRE DIAMETER (INCH)		CONDUCTORS/SHIELD DIAMETER (INCH)		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL		
LSTSGU-23	.751	.812			3	7	.164	16	MS340 * DJ22 D 22 P/S
LS2SJ-7	.600	.615			3	7	.164	43	MS340 * DJ22 A 22 P/S
LS2SJ-9	.525	.545			3	9	.130	43	MS340 * DJ22 A 22 P/S
LS2SJ-11	.447	.460			3	10	.116	43	MS340 * DJ22 A 22 P/S
LS3SJ-9	.594	.620			4	9	.130	43	MS340 * DJ22 A 22 P/S
LS4NW-8	.685	.740			4	8	.146	55	MS340 * DJ22 D 22 P/S

1/ DENOTES NAVY STANDARD SIZE.

WIRING INFORMATION

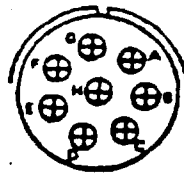
INSERT	CABLE TYPE				
22-22	LSDHOF-9,14	LSTHOF-9,14	LS2SJ-7,9,11	LSFHOF-9	LS3SJ-9
	LSDNW-9,14,23	LSTNW-9,14,23		LSFNW-9,23	
	LSDPS-9,14	LSTPS-9,14,23		LSFPS-14	
	LSDSGU-9,14,23	LSTSGU-9,14,23		LSFSGU-9,23	
				LS4NW-8	
A	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
B	*	2 WHT	2 WHT	2 WHT	2 WHT
C	2 WHT	3 RED	SHLD	3 RED	3 RED
D	*	*	*	4 GRN	SHLD

FIGURE 35. Information on insert and wiring for 22-22 - Continued.

MIL-STD-1683B(SH)

SECTION 300

SH 1323175140



Insert 22-23
 Contacts
 Qty: 8
 Size 12

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	AWG	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX			NOMINAL			
LS4SJ-14	0.380	0.395			5	14-19 1/	0.0720		43	MS340 * DJ22 G 23 P/S
LS7PS-6	.717	.775			7	12	.0915		26	MS340 * DJ22 D 23 P/S
LS7SGU-4	.550	.595			7	14	.0726		20	MS340 * DJ22 A 23 P/S
LS8NW-6	.620	.670			8	12	.0915		54	MS340 * DJ22 B 23 P/S

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATION

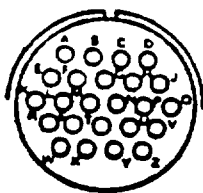
INSERT	CABLE TYPE		
22-23	LS4SJ-14	LS7PS-6 LS7SGU-4	LS8NW-6
H	1 BLK	1 BLK	1 BLK
A	2 WHT	2 WHT	2 WHT
B	3 RED	3 RED	3 RED
C	4 GRN	4 GRN	4 GRN
D	SHLD	5 ORN	5 ORN
E	*	6 BLU	6 BLU
F	*	7 WHT/BLK	7 WHT/BLK
G	*	*	8 RED/BLK

FIGURE 36. Information on insert and wiring for 22-23.

MIL-STD-1683B (SH)

SECTION 300

SH 1323175141



Insert 24-28
Contacts
Qty: 24
Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)			CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL		
LSMHOF-19	0.650	0.705			19	16	0.0576	7	MS340 * DJ24 A 28 P/S
LSMHOF-24	.735	.795			24	16	.0576	7	MS340 * DJ24 D 28 P/S
LSMNV-19	.545	.590			19	18	.0456	51	MS340 * DJ24 A 28 P/S
LSMNV-24	.633	.685			24	18	.0456	51	MS340 * DJ24 A 28 P/S
LSMSCU-19	.682	.738			19	18	.0456	18	MS340 * DJ24 B 28 P/S
LSMSCU-24	.790	.855			24	18	.0456	18	MS340 * DJ24 D 28 P/S
LSPI-7	.833	.900			22	18	.0456	25	MS340 * DJ24 D 28 P/S
LSTCTX-12	.892	.964			24	1/	.0113	24	MS340 * DJ24 G 28 A/B
LSTPNW-10	.435	.470			21	22	.0320	52	MS340 * DJ24 F 28 D/E
LSTTOP-10	.648	.700			20	20	.0363	12	MS340 * DJ24 A 28 P/S
LSTTRS-6	.814	.880			18	20	.0363	13	MS340 * DJ24 D 28 P/S
LSTTRS-8	.916	.990			24	20	.0363	13	MS340 * DJ24 G 28 P/S
LSTTSU-10	.624	.675			21	22	.0320	23	MS340 * DJ24 A 28 D/E
LS1S75MU-8	.950	1.030			16	22-7 2/	.0310	39	MS340 * DJ24 G 28 D/E
LS2SU-7	.610	.660			21	22-7 2/	.0310	31	MS340 * DJ24 A 28 D/E
LS2SWAU-7	.610	.660			21	22-7 2/	.0310	32	MS340 * DJ24 A 28 D/E
LS2SWL-7	.860	.910			21	16	.0576	56	MS340 * DJ24 D 28 P/S
LS2SWU-7	.860	.910			21	18	.0456	33	MS340 * DJ24 D 28 P/S
LS2U-10	.450	.480			21	26-7 2/	.0200	45	MS340 * DJ24 F 28 D/E
LS3U-7	.760	.810			21	18	.0456	37	MS340 * DJ24 D 28 P/S

1/ 7 STRANDS .0113 (INCH) DIAMETER

2/ DENOTES ASTM B 286 SIZE

FIGURE 37. Information on insert and wiring for 24-28.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATIONINSERT CABLE TYPE

24-28	LS1S75MU-8	LSTPNW-10 LSTTSU-10 LSTTOP-10 LS2U-10	LSTTRS-6 LSTTRS-8	LSPI-7 LS2SU-7 LS2SWU-7 LS2SWAU-7 LS2SWL-7	LS3U-7	LSMSCU-19,24 LSMFW-19,24 LSMHOF-19,24	LSTCTX-12
M	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 RED
N	SHLD	1 WHT	1 WHT	1 WHT	1 WHT	2 WHT	1 WHT
T	2 WHT	2 BLK	SHLD	SHLD	1 RED	3 RED	2 RED
S	SHLD	2 RED	2 BLK	2 BLK	2 BLK	4 GRN	2 BLK
L	3 RED	3 BLK	2 WHT	2 WHT	2 WHT	5 ORN	3 RED
F	SHLD	3 GRN	SHLD	SHLD	2 RED	6 BLU	3 GRN
G	4 GRN	4 BLK	3 BLK	3 BLK	3 BLK	7 WHT/BLK	4 RED
H	SHLD	4 ORN	3 WHT	3 WHT	3 WHT	8 RED/BLK	4 ORN
P	5 ORN	5 BLK	SHLD	SHLD	3 RED	9 GRN/BLK	5 RED
U	SHLD	5 BLU	4 BLK	4 BLK	4 BLK	10 ORN/BLK	5 BLU
Y	6 BLU	6 BLK	4 WHT	4 WHT	4 WHT	11 BLU/BLK	6 RED
X	SHLD	6 BRN	SHLD	SHLD	4 RED	12 BLK/WHT	6 WHT/BLK
W	7 WHT/BLK	7 BLK	5 BLK	5 BLK	5 BLK	13 RED/WHT	7 RED
R	SHLD	7 GRA	5 WHT	5 WHT	5 WHT	14 GRN/WHT	7 WHT/GRN
K	8 RED/BLK	8 BLK	SHLD	SHLD	5 RED	15 BLU/WHT	8 RED
E	SHLD	8 YEL	6 BLK	6 BLK	6 BLK	16 BLK/RED	8 WHT/ORN
A	*	9 BLK	6 WHT	6 WHT	6 WHT	17 WHT/RED	9 RED
B	*	9 PUR	SHLD	SHLD	6 RED	18 ORN/RED	9 WHT/BLU
C	*	10 BLK	7 BLK	7 BLK	7 BLK	19 BLU/RED	10 RED
D	*	10 TAN	7 WHT	7 WHT	7 WHT	20 RED/GRN	10 WHT/RED
J	*	SHLD 1/	SHLD	SHLD	7 RED	21 ORN/GRN	11 RED
Q	*	*	8 BLK	*	*	22 BLK/WHT/RED	11 BLK/WHT
V	*	*	8 WHT	*	*	23 WHT/BLK/RED	12 RED
Z	*	*	SHLD	*	*	24 RED/BLK/WHT	12 GRN/WHT

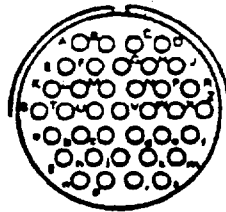
3 / SHLD FOR LS2U-10 ONLY

FIGURE 37. Information on insert and wiring for 24-28 - Continued.

MIL-STD-1683B(SH)

SECTION 300

SH 1323175142



Insert 28-21
Contacts
Qty: 37
Size 16

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
LSMHOF-30	0.775	0.835			30	16	0.0576	7	MS340 * DJ28 B 21 P/S
LSMHOF-37	.855	.925			37	16	.0576	7	MS340 * DJ28 B 21 P/S
LSMNV-30	.670	.725			30	18	.0456	51	MS340 * DJ28 A 21 P/S
LSMNV-37	.726	.785			37	18	.0456	51	MS340 * DJ28 B 21 P/S
LSMSCU-30	.833	.901			30	18	.0456	18	MS340 * DJ28 B 21 P/S
LSMSCU-37	.926	1.002			37	18	.0456	18	MS340 * DJ28 D 21 P/S
LSPBTMU-15	.694	.750			30	22	.0320	10	MS340 * DJ28 B 21 A/B
LSPI-12	1.068	1.155			36	18	.0456	25	MS340 * DJ28 D 21 P/S
LSTCJX-12	1.174	1.269			24	1/	.0201	24	MS340 * DJ28 E 21 A/B
LSTCKX-12	1.174	1.269			24	1/	.0201	24	MS340 * DJ28 E 21 A/B
LSTPNW-15	.490	.530			30	22	.0320	52	MS340 * DJ28 A 21 D/E
LSTTOP-15	.768	.830			30	20	.0363	12	MS340 * DJ28 B 21 P/S
LSTTRS-10	.999	1.080			30	20	.0363	13	MS340 * DJ28 D 21 P/S
LSTTRS-12	1.017	1.100			36	20	.0363	13	MS340 * DJ28 D 21 P/S
LSTTSU-15	.740	.800			30	22	.0320	23	MS340 * DJ28 B 21 D/E
LS1SWU-14	.825	.870			28	22-7 2/	.0310	30	MS340 * DJ28 B 21 D/E
LS1S50MU-16	.760	.825			32	22-7 2/	.0310	28	MS340 * DJ28 B 21 D/E
LS2SU-10	.770	.830			30	22-7 2/	.0310	31	MS340 * DJ28 B 21 D/E
LS2SWAU-10	.770	.830			30	22-7 2/	.0310	32	MS340 * DJ28 B 21 D/E
LS2SWU-12	1.130	1.200			36	18	.0456	33	MS340 * DJ28 D 21 P/S
LS2U-15	.530	.560			31	26-7 2/	.0200	45	MS340 * DJ28 A 21 D/E
LS3SF-7	1.000	1.040			28	18	.0456	44	MS340 * DJ28 D 21 P/S
LS3SU-7	.840	.910			28	18	.0456	35	MS340 * DJ28 B 21 P/S
LS3SWU-7	.880	.940			28	18	.0456	36	MS340 * DJ28 D 21 P/S
LS3U-12	1.030	1.090			36	18	.0456	37	MS340 * DJ28 D 21 P/S

1/ 7 STRANDS .0201 (INCH) DIAMETER

2/ DENOTES ASTM B 286 SIZE

FIGURE 38. Information on insert and wiring for 28-21.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>				
28-21	LSTCJX-12	LS3SF-7	LS1SWU-14	LSMHOF-30	LSTTRS-10
	LSTCKX-12	LS3SU-7		LSMNW-30	LS2SWAU-10
		LS3SWU-7		LSMSCU-30	LS2SU-10
V	1 RED	1 BLK	1 BLK	1 BLK	1 BLK
W	1 WHT	1 WHT	SHLD	2 WHT	1 WHT
d	2 RED	1 RED	2 WHT	3 RED	SHLD
c	2 BLK	SHLD	SHLD	4 GRN	2 BLK
U	3 RED	2 BLK	3 RED	5 ORN	2 WHT
M	3 GRN	2 WHT	SHLD	6 BLU	SHLD
N	4 RED	2 RED	4 GRN	7 WHT/BLK	3 BLK
P	4 ORN	SHLD	SHLD	8 RED/BLK	3 WHT
X	5 RED	3 BLK	5 ORN	9 GRN/BLK	SHLD
e	5 BLU	3 WHT	SHLD	10 ORN/BLK	4 BLK
k	6 RED	3 RED	6 BLU	11 BLU/BLK	4 WHT
j	6 WHT/BLK	SHLD	SHLD	12 BLK/WHT	SHLD
h	7 RED	4 BLK	7 WHT/BLK	13 RED/WHT	5 BLK
b	7 WHT/GRN	4 WHT	SHLD	14 GRN/WHT	5 WHT
T	8 RED	4 RED	8 RED/BLK	15 BLU/WHT	SHLD
L	8 WHT/ORN	SHLD	SHLD	16 BLK/RED	6 BLK
F	9 RED	5 BLK	9 GRN/BLK	17 WHT/RED	6 WHT
G	9 WHT/BLU	5 WHT	SHLD	18 ORN/RED	SHLD
H	10 RED	5 RED	10 ORN/BLK	19 BLU/RED	7 BLK
J	10 WHT/RED	SHLD	SHLD	20 RED/GRN	7 WHT
R	11 RED	6 BLK	11 BLU/BLK	21 ORN/GRN	SHLD
Z	11 BLK/WHT	6 WHT	SHLD	22 BLK/WHT/RED	8 BLK
f	12 RED	6 RED	12 BLK/WHT	23 WHT/BLK/RED	8 WHT
m	12 GRN/WHT	SHLD	SHLD	24 RED/BLK/WHT	SHLD
s	*	7 BLK	13 RED/WHT	25 GRN/BLK/WHT	9 BLK
r	*	7 WHT	SHLD	26 ORN/BLK/WHT	9 WHT
P	*	7 RED	14 GRN/WHT	27 BLU/BLK/WHT	SHLD
n	*	SHLD	SHLD	28 BLK/RED/GRN	10 BLK
g	*	*	*	29 WHT/RED/GRN	10 WHT
a	*	*	*	30 RED/BLK/GRN	SHLD
S	*	*	*	*	*
K	*	*	*	*	*
E	*	*	*	*	*
A	*	*	*	*	*
B	*	*	*	*	*
C	*	*	*	*	*
D	*	*	*	*	*

FIGURE 38. Information on insert and wiring for 28-21 - Continued.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
28-21	LSPBTMU-15	LS1S50MU-16	LSPI-12	LS3U-12	LSMHOF-37
	LS2U-15		LS2SWU-12		LSMDW-37
	LSTPNW-15		LSTTRS-12		LSMSCU-37
	LSTTOP-15				
	LSTTSU-15				
V	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
W	1 WHT	SHLD	1 WHT	1 WHT	2 WHT
d	2 BLK	2 WHT	SHLD	1 RED	3 RED
c	2 RED	SHLD	2 BLK	2 BLK	4 GRN
U	3 BLK	3 RED	2 WHT	2 WHT	5 ORN
M	3 GRN	SHLD	SHLD	2 RED	6 BLU
N	4 BLK	4 GRN	3 BLK	3 BLK	7 WHT/BLK
P	4 ORN	SHLD	3 WHT	3 WHT	8 RED/BLK
X	5 BLK	5 ORN	SHLD	3 RED	9 GRN/BLK
e	5 BLU	SHLD	4 BLK	4 BLK	10 ORN/BLK
k	6 BLK	6 BLU	4 WHT	4 WHT	11 BLU/BLK
j	6 BRN	SHLD	SHLD	4 RED	12 BLK/WHT
h	7 BLK	7 WHT/BLK	5 BLK	5 BLK	13 RED/WHT
b	7 GRA	SHLD	5 WHT	5 WHT	14 GRN/WHT
T	8 BLK	8 RED/BLK	SHLD	5 RED	15 BLU/WHT
L	8 YEL	SHLD	6 BLK	6 BLK	16 BLK/RED
F	9 BLK	9 GRN/BLK	6 WHT	6 WHT	17 WHT/RED
G	9 PUR	SHLD	SHLD	6 RED	18 ORN/RED
H	10 BLK	10 ORN/BLK	7 BLK	7 BLK	19 BLU/RED
J	10 TAN	SHLD	7 WHT	7 WHT	20 RED/GRN
R	11 BLK	11 BLU/BLK	SHLD	7 RED	21 ORN/GRN
Z	11 PNK	SHLD	8 BLK	8 BLK	22 BLK/WHT/RED
f	12 WHT	12 BLK/WHT	8 WHT	8 WHT	23 WHT/BLK/RED
m	12 RED	SHLD	SHLD	8 RED	24 RED/BLK/WHT
s	13 WHT	13 RED/WHT	9 BLK	9 BLK	25 GRN/BLK/WHT
r	13 GRN	SHLD	9 WHT	9 WHT	26 ORN/BLK/WHT
p	14 WHT	14 GRN/WHT	SHLD	9 RED	27 BLU/BLK/WHT
n	14 ORN	SHLD	10 BLK	10 BLK	28 BLK/RED/GRN
g	15 WHT	15 BLU/WHT	10 WHT	10 WHT	29 WHT/RED/GRN
a	15 BLU	SHLD	SHLD	10 RED	30 RED/BLK/GRN
S	SHLD 1/	16 BLK/RED	11 BLK	11 BLK	31 GRN/BLK/ORN
K	*	SHLD	11 WHT	11 WHT	32 ORN/BLK/GRN
E	*	*	SHLD	11 RED	33 BLU/WHT/ORN
A	*	*	12 BLK	12 BLK	34 BLK/WHT/ORN
B	*	*	12 WHT	12 WHT	35 WHT/RED/ORN
C	*	*	SHLD	12 RED	36 ORN/WHT/BLU
D	*	*	*	*	37 WHT/RED/BLU

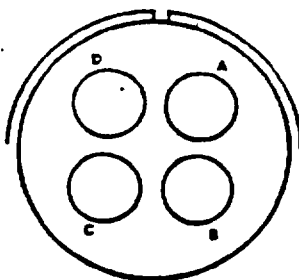
1/ SHLD FOR LS2U-15 ONLY

FIGURE 38. Information on insert and wiring for 28-21 - Continued.

MIL-STD-1683B (SH)

SECTION 300

SH 1323175143



Insert 32-17
Contacts
Qty: 4
Size 4

OUTSIDE DIAMETER (INCH)		CABLE		CONDUCTORS/SHIELDS FINISHED WIRE DIAMETER (INCH)				DIAMETER (INCH)		CONNECTOR MILITARY PART NUMBER	
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	MIL-C- 24643/			
LSDHOF-23	0.820	0.860			2	7 1/	0.164	3	MS340	* DJ32 A 17 P/S	
LSDHOF-30	.920	.960			2	5 1/	.206	3	MS340	* DJ32 B 17 P/S	
LSDNW-50	.842	.910			2	3	.260	48	MS340	* DJ32 A 17 P/S	
LSDSGU-50	.843	.911			2	3	.260	15	MS340	* DJ32 A 17 P/S	
LSFHOF-42	1.300	1.380			4	NSS-42 2/	.260	3	MS340	* DJ32 E 17 P/S	
LSFSGU-50	.971	1.050			4	3	.260	17	MS340	* DJ32 B 17 P/S	
LSTHOF-23	.860	.900			3	7 1/	.164	3	MS340	* DJ32 A 17 P/S	
LSTHOF-42	1.200	1.250			3	NSS-42 2/	.260	3	MS340	* DJ32 D 17 P/S	
LSTNW-50	.869	.969			3	3	.260	49	MS340	* DJ32 B 17 P/S	
LSTPS-30	.910	.989			3	5 1/	.206	26	MS340	* DJ32 B 17 P/S	
LSTSGU-50	.896	.969			3	3	.260	16	MS340	* DJ32 B 17 P/S	

1/ CONTACT BUSHING MS3348-4-6 REQUIRED.

2/ DENOTES NAVY STANDARD SIZE.

WIRING INFORMATION

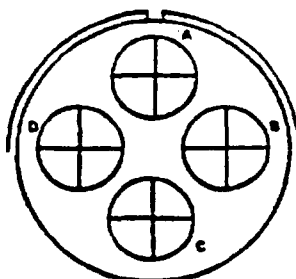
INSERT	CABLE TYPE		
32-17	LSDHOF-23,30	LSTHOF-23,42	LSFHOF-42
	LSDNW-50	LSTNW-50	LSFSGU-50
	LSDSGU-50	LSTPS-30	
		LSTSGU-50	
A	1 BLK	1 BLK	1 BLK
B	*	2 WHT	2 WHT
C	2 WHT	3 RED	3 RED
D	*	*	4 GRN

FIGURE 39. Information on insert and wiring for 32-17.

MIL-STD-1683B (SH)

SECTION 300

SH 1323175144



Insert 36-5
Contacts
Qty: 4
Size 0

TYPE	OUTSIDE DIAMETER (INCH)		CABLE FINISHED WIRE DIAMETER (INCH)		QTY	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
LSDHOF-83	1.390	1.450			2	NSS-83 1/	0.380	3	MS340 * DJ36 D 5 P/S
LSDNW-75	1.000	1.080			2	1 2/	.332	48	MS340 * DJ36 A 5 P/S
LSDNW-100	1.082	1.170			2	0	.373	48	MS340 * DJ36 A 5 P/S
LSDSGU-75	0.993	1.074			2	1 2/	.332	15	MS340 * DJ36 A 5 P/S
LSDSGU-100	1.079	1.167			2	0	.373	15	MS340 * DJ36 A 5 P/S
LSFHOF-60	1.430	1.510			4	NSS-60 1/	.310	3	MS340 * DJ36 D 5 P/S
LSFSGU-75	1.147	1.240			4	1 2/	.332	17	MS340 * DJ36 B 5 P/S
LSFSGU-100	1.256	1.358			4	0	.373	17	MS340 * DJ36 D 5 P/S
LSTNW-75	1.048	1.134			3	1 2/	.332	49	MS340 * DJ36 A 5 P/S
LSTNW-100	1.171	1.266			3	0	.373	49	MS340 * DJ36 B 5 P/S
LSTSGU-75	1.049	1.134			3	1 2/	.332	16	MS340 * DJ36 A 5 P/S
LSTSGU-100	1.171	1.266			3	0	.373	16	MS340 * DJ36 B 5 P/S

1/ DENOTES NAVY STANDARD SIZE.

2/ CONTACT BUSHING MS3348-0-2 REQUIRED.

WIRING INFORMATION

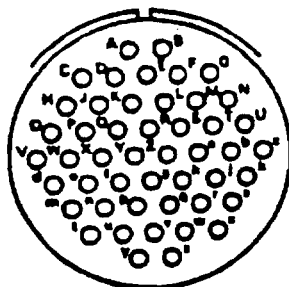
INSERT	CABLE TYPE		
36-5	LSDHOF-83	LSFHOF-60	LSTNW-75, 100
	LSDNW-75, 100	LSFSGU-75, 100	LSTSGU-75, 100
	LSDSGU-75, 100		
A	1 BLK	1 BLK	1 BLK
B	*	2 WHT	2 WHT
C	2 WHT	3 RED	3 RED
D	*	4 GRN	*

FIGURE 40. Information on insert and wiring for 36-5.

MIL-STD-1683B(SH)

SECTION 300

SH 1323175145



Insert 36-10
Contacts
Qty: 48
Size 16

TYPE	CABLE		CONDUCTORS/SHIELDS		QTY	AWG	NOMINAL	MIL-C-24643/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)	MIN	MAX					
LSMHOF-44	0.925	1.000			44	16	0.0576	7	MS340 * DJ36 A 10 P/S
LSMNW-44	.823	.890			44	18	.0456	51	MS340 * DJ36 G 10 P/S
LSMS-37	.740	.800			38	16	.0576	34	MS340 * DJ36 G 10 P/S
LSMSCU-44	1.030	1.114			44	18	.0456	18	MS340 * DJ36 A 10 P/S
LSTPNW-20	.532	.575			40	22	.0320	52	MS340 * DJ36 F 10 D/E
LSTTRS-16	1.100	1.190			48	20	.0363	13	MS340 * DJ36 A 10 P/S
LSTTSU-20	.805	.870			40	22	.0320	23	MS340 * DJ36 G 10 D/E
LS1SWU-20	.970	1.030			40	22-7 1/	.0310	30	MS340 * DJ36 A 10 D/E
LS1S50MU-20	.835	.905			40	22-7 1/	.0310	28	MS340 * DJ36 G 10 D/E
LS2SU-14	.860	.930			42	22-7 1/	.0310	31	MS340 * DJ36 G 10 D/E
LS2SWAU-14	.860	.930			42	22-7 1/	.0310	32	MS340 * DJ36 G 10 D/E
LS2U-19	.550	.580			39	26-7 1/	.0200	45	MS340 * DJ36 F 10 D/E
LS3SU-10	1.100	1.190			40	18	.0456	35	MS340 * DJ36 A 10 P/S
LS3SWU-10	1.100	1.180			40	18	.0456	36	MS340 * DJ36 A 10 P/S

1/ DENOTES ASTM B 286 SIZE.

WIRING INFORMATION

INSERT	CABLE TYPE			
36-10	LS1S50MU-50	LS2SU-14	LSMHOF-44	LSTTRS-16
	LS1SWU-20	LS2SWAU-14	LSMNW-44	
			LSMSCU-44	
Z	1 BLK	1 BLK	1 BLK	1 BLK
g	SHLD	1 WHT	2 WHT	1 WHT
Y	2 WHT	SHLD	3 RED	SHLD

FIGURE 41. Information on insert and wiring for 36-10.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
36-10	LS1S50MU-50 LS1SWU-20	LS2SU-14 LS2SWAU-14	LSMHOF-44 LSMNV-44 LSMSCU-44	LSTTRS-16
R	SHLD	2 BLK	4 GRN	2 BLK
S	3 RED	2 WHT	5 ORN	2 WHT
a	SHLD	SHLD	6 BLU	SHLD
h	4 GRN	3 BLK	7 WHT/BLK	3 BLK
q	SHLD	3 WHT	8 RED/BLK	3 WHT
p	5 ORN	SHLD	9 GRN/BLK	SHLD
f	SHLD	4 BLK	10 ORN/BLK	4 BLK
X	6 BLU	4 WHT	11 BLU/BLK	4 WHT
Q	SHLD	SHLD	12 BLK/WHT	SHLD
K	7 WHT/BLK	5 BLK	13 RED/WHT	5 BLK
L	SHLD	5 WHT	14 GRN/WHT	5 WHT
M	8 RED/BLK	SHLD	15 BLU/WHT	SHLD
T	SHLD	6 BLK	16 BLK/RED	6 BLK
b	9 GRN/BLK	6 WHT	17 WHT/RED	6 WHT
j	SHLD	SHLD	18 ORN/RED	SHLD
r	10 ORN/BLK	7 BLK	19 BLUE/RED	7 BLK
w	SHLD	7 WHT	20 RED/GRN	7 WHT
v	11 BLU/BLK	SHLD	21 ORN/GRN	SHLD
u	SHLD	8 BLK	22 BLK/WHT/RED	8 BLK
n	12 BLK/WHT	8 WHT	23 WHT/BLK/RED	8 WHT
e	SHLD	SHLD	24 RED/BLK/WHT	SHLD
W	13 RED/WHT	9 BLK	25 GRN/BLK/WHT	9 BLK
P	SHLD	9 WHT	26 ORN/BLK/WHT	9 WHT
J	14 GRN/WHT	SHLD	27 BLU/BLK/WHT	SHLD
D	SHLD	10 BLK	28 BLK/RED/GRN	10 BLK
E	15 BLU/WHT	10 WHT	29 WHT/RED/GRN	10 WHT
F	SHLD	SHLD	30 RED/BLK/GRN	SHLD
G	16 BLK/RED	11 BLK	31 GRN/BLK/ORN	11 BLK
N	SHLD	11 WHT	32 ORN/BLK/GRN	11 WHT
U	17 WHT/RED	SHLD	33 BLU/WHT/ORN	SHLD
c	SHLD	12 BLK	34 BLK/WHT/ORN	12 BLK
k	18 ORN/RED	12 WHT	35 WHT/RED/ORN	12 WHT
s	SHLD	SHLD	36 ORN/WHT/BLU	SHLD
x	19 BLU/RED	13 BLK	37 WHT/RED BLU	13 BLK
z	SHLD	13 WHT	38 BRN	13 WHT
y	20 RED/GRN	SHLD	39 BRN/BLK	SHLD
t	SHLD	14 BLK	40 BRN/WHT	14 BLK
m	*	14 WHT	41 BRN/RED	14 WHT

FIGURE 41. Information on insert and wiring for 36-10 - Continued.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
36-10	LS1S50MU-50 LS1SWU-20	LS2SU-14 LS2SWAU-14	LSMHOF-44 LSMNW-44 LSMSCU-44	LSTTRS-16
d	*	SHLD	42 BRN/GRN	SHLD
V	*	*	43 BRN/ORN	15 BLK
O	*	*	44 BRN/BLU	15 WHT
H	*	*	*	SHLD
C	*	*	*	16 BLK
A	*	*	*	16 WHT
B	*	*	*	SHLD
36-10	LSMS-37	LS2U-19	LS3SU-10 LS3SWU-10	LSTPNW-20 LSTTSU-20
Z	1 BLK	1 BLK	1 BLK	1 BLK
g	2 WHT	1 WHT	1 WHT	1 WHT
Y	3 RED	2 BLK	1 RED	2 BLK
R	4 GRN	2 RED	SHLD	2 RED
S	5 ORN	3 BLK	2 BLK	3 BLK
a	6 BLU	3 GRN	2 WHT	3 GRN
h	7 WHT/BLK	4 BLK	2 RED	4 BLK
q	8 RED/BLK	4 ORN	SHLD	4 ORN
p	9 GRN/BLK	5 BLK	3 BLK	5 BLK
f	10 ORN/BLK	5 BLU	3 WHT	5 BLU
X	11 BLU/BLK	6 BLK	3 RED	6 BLK
Q	12 BLK/WHT	6 BRN	SHLD	6 BRN
K	13 RED/WHT	7 BLK	4 BLK	7 BLK
L	14 GRN/WHT	7 GRA	4 WHT	7 GRA
M	15 BLU/WHT	8 BLK	4 RED	8 BLK
T	16 BLK/RED	8 YEL	SHLD	8 YEL
b	17 WHT/RED	9 BLK	5 BLK	9 BLK
j	18 ORN/RED	9 PUR	5 WHT	9 PUR
r	19 BLUE/RED	10 BLK	5 RED	10 BLK
w	20 RED/GRN	10 TAN	SHLD	10 TAN
v	21 ORN/GRN	11 BLK	6 BLK	11 BLK
u	22 BLK/WHT/RED	11 PNK	6 WHT	11 PNK
n	23 WHT/BLK/RED	12 WHT	6 RED	12 WHT
e	24 RED/BLK/WHT	12 RED	SHLD	12 RED
W	25 GRN/BLK/WHT	13 WHT	7 BLK	13 WHT
P	26 ORN/BLK/WHT	13 GRN	7 WHT	13 GRN
J	27 BLU/BLK/WHT	14 WHT	7 RED	14 WHT

FIGURE 41. Information on insert and wiring for 36-10 - Continued

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - Continued.

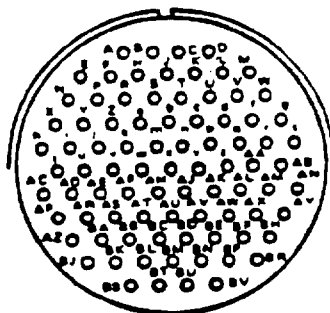
<u>INSERT</u>	<u>CABLE TYPE</u>			
36-10	LSMS-37	LS2U-19	LS3SU-10 LS3SWU-10	LSTPNW-20 LSTTSU-20
D	28 BLK/RED/GRN	14 ORN	SHLD	14 ORN
E	29 WHT/RED/GRN	15 WHT	8 BLK	15 WHT
F	30 RED/BLK/GRN	15 BLU	8 WHT	15 BLU
G	31 GRN/BLK/ORN	16 WHT	8 RED	16 WHT
N	32 ORN/BLK/GRN	16 BRN	SHLD	16 BRN
U	33 BLU/WHT/ORN	17 WHT	9 BLK	17 WHT
c	34 BLK/WHT/ORN	17 GRA	9 WHT	17 GRA
k	35 WHT/RED/ORN	18 WHT	9 RED	18 WHT
s	36 ORN/WHT/BLU	18 YEL	SHLD	18 YEL
x	37 WHT/RED BLU	19 WHT	10 BLK	19 WHT
z	SHLD	19 PUR	10 WHT	19 PUR
y	*	SHLD	10 RED	20 WHT
t	*	*	SHLD	20 TAN
m	*	*	*	*
d	*	*	*	*
v	*	*	*	*
O	*	*	*	*
H	*	*	*	*
C	*	*	*	*
A	*	*	*	*
B	*	*	*	*

FIGURE 41. Information on insert and wiring for 36-10 - Continued.

MIL-STD-1683B(SH)

SECTION 300

SH 1323175146



Insert 40-56
Contacts
Qty: 85
Size 16

TYPE	CABLE		CONDUCTORS/SHIELDS				MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)	MIN	MAX	QTY	AWG	NOMINAL	
LSECM	1.290	1.370			24	20-7 1/	0.0380	38 MS340 * DJ40 B 56 P/S
LSMHOF-61	1.100	1.175			61	16	.0576	7 MS340 * DJ40 A 56 P/S
LSMSCU-61	1.156	1.250			61	18	.0456	18 MS340 * DJ40 B 56 P/S
LSTPNW-40	0.708	0.765			80	22	.0320	52 MS340 * DJ40 A 56 D/E
LSTTSU-40	1.200	1.250			80	22	.0320	23 MS340 * DJ40 B 56 D/E
LS1SU-36	0.910	0.985			64	20-7 1/	.0380	42 MS340 * DJ40 A 56 P/S
LS1S50MU-40	1.095	1.185			80	22-7 1/	.0310	28 MS340 * DJ40 A 56 D/E
LS2AU-40	1.320	1.370			80	22-7 1/	.0310	27 MS340 * DJ40 B 56 D/E
LS2SU-24	1.120	1.210			80	22-7 1/	.0310	31 MS340 * DJ40 A 56 D/E
LS2SWAU-24	1.120	1.210			72	22-7 1/	.0310	32 MS340 * DJ40 A 56 D/E
LS2SWU-24	1.500	1.590			72	18	.0456	33 MS340 * DJ40 D 56 P/S
LS2U-30	0.670	0.700			61	26-7 1/	.0200	45 MS340 * DJ40 F 56 D/E
LS2WAU-40	1.320	1.370			81	22-7 1/	.0310	46 MS340 * DJ40 B 56 D/E
LS3SU-19	1.340	1.430			76	18	.0456	35 MS340 * DJ40 D 56 P/S
LS3SWU-19	1.370	1.430			76	18	.0456	36 MS340 * DJ40 D 56 P/S

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATION

INSERT	CABLE TYPE					
40-56	LSMHOF-61			LS2SWU-24		
	LSMSCU-61	LS1SU-36		LS2SU-24	LS3SU-19	LSTPNW-40
				LS2SWAU-24	LS3SWU-19	LSTTSU-40
						LSECM
x	1 BLK	1 BLK		1 BLK	1 BLK	1 BLK
y	2 WHT	SHLD		1 WHT	1 WHT	1 WHT

FIGURE 42. Information on insert and wiring for 40-56.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - Continued.INSERT CABLE TYPE

40-56	LSMHOF-61		LS2SWU-24			
	LSMSCU-61	LS1SU-36	LS2SU-24	LS3SU-19	LSTPNW-40	
			LS2SWAU-24	LS3SWU-19	LSTTSU-40	LSECM
AJ	3 RED	2 WHT	SHLD	1 RED	2 BLK	SHLD
AH	4 GRN	SHLD	2 BLK	SHLD	2 RED	2 BLK
w	5 ORN	3 RED	2 WHT	2 BLK	3 BLK	2 WHT
m	6 BLU	SHLD	SHLD	2 WHT	3 GRN	SHLD
n	7 WHT/BLK	4 GRN	3 BLK	2 RED	4 BLK	3 BLK
p	8 RED/BLK	SHLD	3 WHT	SHLD	4 ORN	3 WHT
z	9 GRN/BLK	5 ORN	SHLD	3 BLK	5 BLK	SHLD
AK	10 ORN/BLK	SHLD	4 BLK	3 WHT	5 BLU	4 BLK
AV	11 BLU/BLK	6 BLU	4 WHT	3 RED	6 BLK	4 WHT
AU	12 BLK/WHT	SHLD	SHLD	SHLD	6 BRN	SHLD
AT	13 RED/WHT	7 WHT/BLK	5 BLK	4 BLK	7 BLK	5 BLK
AF	14 GRN/WHT	SHLD	5 WHT	4 WHT	7 GRA	5 WHT
v	15 BLU/WHT	8 RED/BLK	SHLD	4 RED	8 BLK	SHLD
k	16 BLK/RED	SHLD	6 BLK	SHLD	8 YEL	6 BLK
a	17 WHT/RED	9 GRN/BLK	6 WHT	5 BLK	9 BLK	6 WHT
b	18 ORN/RED	SHLD	SHLD	5 WHT	9 PUR	SHLD
c	19 BLUE/RED	10 ORN/BLK	7 BLK	5 RED	10 BLK	7 BLK
d	20 RED/GRN	SHLD	7 WHT	SHLD	10 TAN	7 WHT
q	21 ORN/GRN	11 BLU/BLK	SHLD	6 BLK	11 BLK	SHLD
AA	22 BLK/WHT/RED	SHLD	8 BLK	6 WHT	11 PNK	8 BLK
AL	23 WHT/BLK/RED	12 BLK/WHT	8 WHT	6 RED	12 WHT	8 WHT
AW	24 RED/BLK/WHT	SHLD	SHLD	SHLD	12 RED	SHLD
BE	25 GRN/BLK/WHT	13 RED/WHT	9 BLK	7 BLK	13 WHT	1 BLK
BD	26 ORN/BLK/WHT	SHLD	9 WHT	7 WHT	13 GRN	1 BLK
BC	27 BLU/BLK/WHT	14 GRN/WHT	SHLD	7 RED	14 WHT	1 BLK
BB	28 BLK/RED/GRN	SHLD	10 BLK	SHLD	14 ORN	1 BLK
AS	29 WHT/RED/GRN	15 BLU/WHT	10 WHT	8 BLK	15 WHT	1 BLK
AE	30 RED/BLK/GRN	SHLD	SHLD	8 WHT	15 BLU	1 WHT
u	31 GRN/BLK/ORN	16 BLK/RED	11 BLK	8 RED	16 WHT	1 WHT
j	32 ORN/BLK/GRN	SHLD	11 WHT	SHLD	16 BRN	2 BLK
Z	33 BLU/WHT/ORN	17 WHT/RED	SHLD	9 BLK	17 WHT	2 BLK
R	34 BLK/WHT/ORN	SHLD	12 BLK	9 WHT	17 GRA	2 BLK
S	35 WHT/RED/ORN	18 ORN/RED	12 WHT	9 RED	18 WHT	2 BLK
T	36 ORN/WHT/BLU	SHLD	SHLD	SHLD	18 YEL	2 BLK
U	37 WHT/RED BLU	19 BLU/RED	13 BLK	10 BLK	19 WHT	2 WHT
V	38 BRN	SHLD	13 WHT	10 WHT	19 PUR	2 WHT
i	39 BRN/BLK	20 RED/GRN	SHLD	10 RED	20 WHT	3 BLK

FIGURE 42. Information on insert and wiring for 40-56 - Continued.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>					
40-56	LSMHOF-61 LSMSCU-61	LS1SU-36	LS2SWU-24 LS2SU-24 LS2SWAU-24	LS3SU-19 LS3SWU-19	LSTPNW-40 LSTTSU-40	LSECM
R	40 BRN/WHT	SHLD	14 BLK	SHLD	20 TAN	3 BLK
AB	41 BRN/RED	21 ORN/GRN	14 WHT	11 BLK	21 WHT	3 BLK
AM	42 BRN/GRN	SHLD	SHLD	11 WHT	21 PNK	3 BLK
AX	43 BRN/ORN	22 BLK/WHT/RED	15 BLK	11 RED	22 RED	3 BLK
BF	44 BRN/BLU	SHLD	15 WHT	SHLD	22 GRN	3 WHT
BP	45 WHT/BLK/BLU	23 WHT/BLK/RED	SHLD	12 BLK	23 RED	3 WHT
BN	46 RED/WHT/BLU	SHLD	16 BLK	12 WHT	23 ORN	4 BLK
BM	47 GRN/ORN/RED	24 RED/BLK/WHT	16 WHT	12 RED	24 RED	4 BLK
BL	48 ORN/RED/BLU	SHLD	SHLD	SHLD	24 BLU	4 BLK
BK	49 BLU/RED/ORN	25 GRN/BLK/WHT	17 BLK	13 BLK	25 RED	4 BLK
BA	50 BLK/ORN/RED	SHLD	17 WHT	13 WHT	25 BRN	4 BLK
AR	51 WHT/BLK/ORN	26 ORN/BLK/WHT	SHLD	13 RED	26 RED	4 WHT
AD	52 RED/ORN/BLK	SHLD	18 BLK	SHLD	26 GRA	4 WHT
t	53 GRN/RED/BLU	27 BLU/BLK/WHT	18 WHT	14 BLK	27 RED	5 BLK
i	54 ORN/BLK/BLU	SHLD	SHLD	14 WHT	27 YEL	5 BLK
Y	55 BLU/BLK/ORN	28 BLK/RED/GRN	19 BLK	14 RED	28 RED	5 BLK
P	56 BLK/ORN/GRN	SHLD	19 WHT	SHLD	28 PUR	5 BLK
F	57 WHT/ORN/GRN	29 WHT/RED/GRN	SHLD	15 BLK	29 RED	5 BLK
H	58 RED/ORN/GRN	SHLD	20 BLK	15 WHT	29 TAN	5 WHT
J	59 GRN/BLK/BLU	30 RED/BLK/GRN	20 WHT	15 RED	30 RED	5 WHT
K	60 ORN/GRN/BLU	SHLD	SHLD	SHLD	30 PNK	6 BLK
L	61 BLU/GRN/ORN	31 GRN/BLK/ORN	21 BLK	16 BLK	31 GRN	6 BLK
M	*	SHLD	21 WHT	16 WHT	31 ORN	6 BLK
W	*	32 ORN/BLK/GRN	SHLD	16 RED	32 GRN	6 BLK
g	*	SHLD	22 BLK	SHLD	32 BLU	6 BLK
s	*	33 BLU/WHT/ORN	22 WHT	17 BLK	33 GRN	6 WHT
AN	*	SHLD	SHLD	17 WHT	33 BRN	6 WHT
AY	*	34 BLK/WHT/ORN	23 BLK	17 RED	34 GRN	7 BLK
BH	*	SHLD	23 WHT	SHLD	34 GRA	7 BLK
BR	*	35 WHT/RED/ORN	SHLD	18 BLK	35 GRN	7 BLK
BV	*	SHLD	24 BLK	18 WHT	35 YEL	7 BLK
BU	*	36 ORN/WHT/BLU	24 WHT	18 RED	36 GRN	7 BLK
BT	*	SHLD	SHLD	SHLD	36 PUR	7 WHT
BS	*	*	*	19 BLK	37 GRN	7 WHT
BJ	*	*	*	19 WHT	37 TAN	8 BLK
AZ	*	*	*	19 RED	38 GRN	8 BLK
AP	*	*	*	SHLD	38 PNK	8 BLK
AC	*	*	*	20 BLK	39 ORN	8 BLK

FIGURE 42. Information on insert and wiring for 40-56 - Continued.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - Continued

<u>INSERT</u>	<u>CABLE TYPE</u>					
40-56	LSMHOF-61 LSMSCU-61	LS1SU-36	LS2SWU-24 LS2SU-24 LS2SWAU-24	LS3SU-19 LS3SWU-19	LSTPNW-40 LSTTSU-40	LSECM
h	*	*	*	20 WHT	39 BLU	8 BLK
X	*	*	*	20 RED	40 ORN	8 WHT
N	*	*	*	SHLD	40 BRN	8 WHT
E	*	*	*	*	*	*
A	*	*	*	*	*	*
B	*	*	*	*	*	*
C	*	*	*	*	*	*
D	*	*	*	*	*	*
40-56		LS1S50MU-40	LS2U-30 LS2WU-40		LS2AU-40	
x		1 BLK	1 BLK		1 BLK	
y		SHLD	1 WHT		1 WHT	
AJ		2 WHT	2 BLK		2 BLK	
AH		SHLD	2 RED		2 RED	
w		3 RED	3 BLK		3 BLK	
m		SHLD	3 GRN		3 GRN	
n		4 GRN	4 BLK		4 BLK	
p		SHLD	4 ORN		4 ORN	
z		5 ORN	5 BLK		5 BLK	
AK		SHLD	5 BLU		5 BLU	
AV		6 BLU	6 BLK		6 BLK	
AU		SHLD	6 BRN		6 BRN	
AT		7 WHT/BLK	7 BLK		7 BLK	
AF		SHLD	7 GRA		7 GRA	
v		8 RED/BLK	8 BLK		8 BLK	
k		SHLD	8 YEL		8 YEL	
a		9 GRN/BLK	9 BLK		9 BLK	
b		SHLD	9 PUR		9 PUR	
c		10 ORN/BLK	10 BLK		10 BLK	
d		SHLD	10 TAN		10 TAN	
q		11 BLU/BLK	11 BLK		11 BLK	
AA		SHLD	11 PNK		11 PNK	
AL		12 BLK/WHT	12 WHT		12 WHT	
AW		SHLD	12 RED		12 RED	
BE		13 RED/WHT	13 WHT		13 WHT	
BD		SHLD	13 GRN		13 GRN	

FIGURE 42. Information on insert and wiring for 40-56 - Continued.

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SECTION 300

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>		
40-56	LS1S50MU-40	LS2U-30	LS2AU-40 LS2WU-40
BC	14 GRN/WHT	14 WHT	14 WHT
BB	SHLD	14 ORN	14 ORN
AS	15 BLU/WHT	15 WHT	15 WHT
AE	SHLD	15 BLU	15 BLU
U	16 BLK/RED	16 WHT	16 WHT
J	SHLD	16 BRN	16 BRN
Z	17 WHT/RED	17 WHT	17 WHT
R	SHLD	17 GRA	17 GRA
S	18 ORN/RED	18 WHT	18 WHT
T	SHLD	18 YEL	18 YEL
U	19 BLU/RED	19 WHT	19 WHT
V	SHLD	19 PUR	19 PUR
f	20 RED/GRN	20 WHT	20 WHT
r	SHLD	20 TAN	20 TAN
AB	21 ORN/GRN	21 WHT	21 WHT
AM	SHLD	21 PNK	21 PNK
AX	22 BLK/WHT/RED	22 RED	22 RED
BF	SHLD	22 GRN	22 GRN
BP	23 WHT/BLK/RED	23 RED	23 RED
BN	SHLD	23 ORN	23 ORN
BM	24 RED/BLK/WHT	24 RED	24 RED
BL	SHLD	24 BLU	24 BLU
BK	25 GRN/BLK/WHT	25 RED	25 RED
BA	SHLD	25 BRN	25 BRN
AR	26 ORN/BLK/WHT	26 RED	26 RED
AD	SHLD	26 GRA	26 GRA
t	27 BLU/BLK/WHT	27 RED	27 RED
i	SHLD	27 YEL	27 YEL
Y	28 BLK/RED/GRN	28 RED	28 RED
P	SHLD	28 PUR	28 PUR
F	29 WHT/RED/GRN	29 RED	29 RED
H	SHLD	29 TAN	29 TAN
J	30 RED/BLK/GRN	30 RED	30 RED
K	SHLD	30 PNK	30 PNK
L	31 GRN/BLK/ORN	SHLD	31 GRN
M	SHLD	*	31 ORN
W	32 ORN/BLK/GRN	*	32 GRN
g	SHLD	*	32 BLU
s	33 BLU/WHT/ORN	*	33 GRN

FIGURE 42. Information on insert and wiring for 40-56 - Continued.

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SECTION 300

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>		
40-56	LS1S50MU-40	LS2U-30	LS2AU-40 LS2WU-40
AN	SHLD	*	33 BRN
AY	34 BLK/WHT/ORN	*	34 GRB
BH	SHLD	*	34 GRA
BR	35 WHT/RED/ORN	*	35 GRN
BV	SHLD	*	35 YEL
BU	36 ORN/WHT/BLU	*	36 GRN
BT	SHLD	*	36 PUR
BS	37 WHT/RED/BLU	*	37 GRN
BJ	SHLD	*	37 TAN
AC	38 BRN	*	38 GRN
AP	SHLD	*	38 PNK
AZ	39 BRN/BLK	*	39 ORN
h	SHLD	*	39 BLU
X	40 BRN/WHT	*	40 ORN
N	SHLD	*	40 BRN
E	*	*	SHLD
A	*	*	*
B	*	*	*
C	*	*	*
D	*	*	*

FIGURE 42. Information on insert and wiring for 40-56 - Continued.

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SECTION 300

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
40-62	LS3SU-14 LS3SWU-14	LS2SWAU-19 LS2SWU-19 LS2SU-19	LSPBTMU-30 LSTPNW-30 LSTTSU-30	LS1SWU-30
46	2 RED	3 BLK	4 BLK	4 GRN
56	2 WHT	SHLD	3 GRN	SHLD
47	SHLD	3 WHT	4 ORN	SHLD
48	3 BLK	SHLD	5 BLK	5 BRN
49	3 WHT	4 BLK	5 BLU	SHLD
50	3 RED	4 WHT	6 BLK	6 BLU
51	SHLD	SHLD	6 BRN	SHLD
52	4 BLK	5 BLK	7 BLK	7 WHT/BLK
53	4 WHT	5 WHT	7 GRA	SHLD
54	4 RED	SHLD	8 BLK	8 RED/BLK
43	SHLD	6 BLK	8 YEL	SHLD
44	5 BLK	6 WHT	9 BLK	9 GRN/BLK
45	5 WHT	SHLD	9 PUR	SHLD
29	5 RED	7 BLK	10 BLK	10 ORN/BLK
30	SHLD	7 WHT	10 TAN	SHLD
31	6 BLK	SHLD	11 BLK	11 BLU/BLK
32	6 WHT	8 BLK	11 PNK	SHLD
33	6 RED	8 WHT	12 WHT	12 BLK/WHT
34	SHLD	SHLD	12 RED	SHLD
35	7 BLK	9 BLK	13 WHT	13 RED/WHT
36	7 WHT	9 WHT	13 GRN	SHLD
37	7 RED	SHLD	14 WHT	14 GRN/WHT
38	SHLD	10 BLK	14 ORN	SHLD
39	8 BLK	10 WHT	15 WHT	15 BLU/WHT
40	8 WHT	SHLD	15 BLU	SHLD
41	8 RED	11 BLK	16 WHT	16 BLK/RED
42	SHLD	11 WHT	16 BRN	SHLD
25	9 BLK	SHLD	17 WHT	17 WHT/RED
26	9 WHT	12 BLK	17 GRA	SHLD
27	9 RED	12 WHT	18 WHT	18 ORN/RED
28	SHLD	SHLD	18 YEL	SHLD
6	10 BLK	13 BLK	19 WHT	19 BLU/RED
7	10 WHT	13 WHT	19 PUR	SHLD
8	10 RED	SHLD	20 WHT	20 RED/GRN
9	SHLD	14 BLK	20 TAN	SHLD
10	11 BLK	14 WHT	21 WHT	21 ORN/GRN
11	11 WHT	SHLD	21 PNK	SHLD
12	11 RED	15 BLK	22 RED	22 BLK/WHT/RED

FIGURE 43. Information on insert and wiring for 40-62 - Continued.

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SECTION 300

WIRING INFORMATION - Continued.

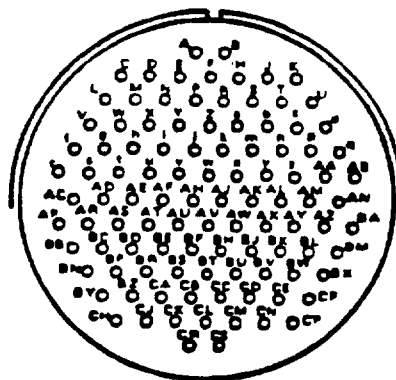
<u>INSERT</u>	<u>CABLE INSERT</u>			
40-62	LS3SU-14 LS3SWU-14	LS2SWAU-19 LS2SWU-19 LS2SU-19	LSPBTMU-30 LSTPNW-30 LSTTSU-30	LS1SWU-30
13	SHLD	15 WHT	22 GRN	SHLD
14	12 BLK	SHLD	23 RED	23 WHT/BLK/RED
15	12 WHT	16 BLK	23 ORN	SHLD
16	12 RED	16 WHT	24 RED	24 RED/BLK/WHT
17	SHLD	SHLD	24 BLU	SHLD
18	13 BLK	17 BLK	25 RED	25 GRN/BLK/WHT
19	13 WHT	17 WHT	25 BRN	SHLD
20	13 RED	SHLD	26 RED	26 ORN/BLK/WHT
21	SHLD	18 BLK	26 GRA	SHLD
22	14 BLK	18 WHT	27 RED	27 BLU/BLK/WHT
23	14 WHT	SHLD	27 YEL	SHLD
24	14 RED	19 BLK	28 RED	28 BLK/RED/GRN
1	SHLD	19 WHT	28 PUR	SHLD
2	*	SHLD	29 RED	29 WHT/RED/GRN
3	*	*	29 TAN	SHLD
4	*	*	30 RED	30 RED/BLK/GRN
5	*	*	30 PNK	SHLD

FIGURE 43. Information on insert and wiring for 40-62 - Continued.

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SECTION 300

SH 1323175148



Insert 44-52
Contacts
Qty: 104
Size 16

TYPE	OUTSIDE DIAMETER (INCH)		CABLE FINISHED WIRE DIAMETER (INCH)		QTY	CONDUCTORS/SHIELDS DIAMETER (INCH)		MIL-C 24643	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
LSMSCU-91	1.369	1.480			91	18	0.0456	18	MS340 * DJ44 D 52 P/S
LSTTSU-50	1.295	1.400			100	22	.0320	23	MS340 * DJ44 D 52 D/E
LS1SAU-44	.910	.990			88	20-7 1/	.0380	41	MS340 * DJ44 A 52 P/S
LS2SU-30	1.190	1.280			90	22-7 1/	.0310	31	MS340 * DJ44 B 52 D/E
LS2SWAU-30	1.190	1.280			90	22-7 1/	.0310	32	MS340 * DJ44 B 52 D/E
LS2SWU-30	1.690	1.760			90	18	.0456	33	MS340 * DJ44 E 52 P/S
LS2U-45	.830	.870			91	26-7 1/	.0200	45	MS340 * DJ44 F 52 D/E
LS3SU-24	1.580	1.670			96	18	.0456	35	MS340 * DJ44 E 52 P/S
LS3SWU-24	1.640	1.670			96	18	.0456	36	MS340 * DJ44 E 52 P/S

1/ DENOTES ASTM B 286 SIZE.

WIRING INFORMATION

NOTE: FOR SPECIAL CONNECTIONS OF LS2U-45 CABLE, SEE PAGES 5 THROUGH 9 OF 44-52
INSERT WIRING.

INSERT	CABLE TYPE				
44-52	LS1SAU-44	LS2SWU-30	LSMSCU-91	LSTTSU-50	LS3SU-24 LS3SWU-24
		LS2SU-30			
		LS2SWAU-30			
W	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
AJ	SHLD	1 WHT	2 WHT	1 WHT	1 WHT

FIGURE 44. Information on insert and wiring for 44-52.

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SECTION 300

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
44-52	LS1SAU-44	LS2SWU-30 LS2SU-30 LS2SWAU-30	LSMSCU-91	LSTTSU-50	LS3SU-24 LS3SWU-24
AV	2 WHT	SHLD	3 RED	2 BLK	1 RED
AM	SHLD	2 BLK	4 GRN	2 RED	SHLD
v	3 RED	2 WHT	5 ORN	3 BLK	2 BLK
j	SHLD	SHLD	6 BLU	3 GRN	2 WHT
k	4 GRN	3 BLK	7 WHT/BLK	4 BLK	2 RED
x	SHLD	3 WHT	8 RED/BLK	4 ORN	SHLD
AK	5 ORN	SHLD	9 GRN/BLK	5 BLK	3 BLK
AW	SHLD	4 BLK	10 ORN/BLK	5 BLU	3 WHT
BH	6 BLU	4 WHT	11 BLU/BLK	6 BLK	3 RED
BF	SHLD	SHLD	12 BLK/WHT	6 BRN	SHLD
AU	7 WHT/BLK	5 BLK	13 RED/WHT	7 BLK	4 BLK
AF	SHLD	5 WHT	14 GRN/WHT	7 GRA	4 WHT
u	8 RED/BLK	SHLD	15 BLU/WHT	8 BLK	4 RED
i	SHLD	6 BLK	16 BLK/RED	8 YEL	SHLD
Y	9 GRN/BLK	6 WHT	17 WHT/RED	9 BLK	5 BLK
Z	SHLD	SHLD	18 ORN/RED	9 PUR	5 WHT
a	10 ORN/BLK	7 BLK	19 BLUE/RED	10 BLK	5 RED
m	SHLD	7 WHT	20 RED/GRN	10 TAN	SHLD
y	11 BLU/BLK	SHLD	21 ORN/GRN	11 BLK	6 BLK
AL	SHLD	8 BLK	22 BLK/WHT/RED	11 PNK	6 WHT
AX	12 BLK/WHT	8 WHT	23 WHT/BLK/RED	12 WHT	6 RED
BJ	SHLD	SHLD	24 RED/BLK/WHT	12 RED	SHLD
BU	13 RED/WHT	9 BLK	25 GRN/BLK/WHT	13 WHT	7 BLK
BT	SHLD	9 WHT	26 ORN/BLK/WHT	13 GRN	7 WHT
BS	14 GRN/WHT	SHLD	27 BLU/BLK/WHT	14 WHT	7 RED
BE	SHLD	10 BLK	28 BLK/RED/GRN	14 ORN	SHLD
AT	15 BLU/WHT	10 WHT	29 WHT/RED/GRN	15 WHT	8 BLK
AE	SHLD	SHLD	30 RED/BLK/GRN	15 BLU	8 WHT
t	16 BLK/RED	11 BLK	31 GRN/BLK/ORN	16 WHT	8 RED
h	SHLD	11 WHT	32 ORN/BLK/GRN	16 BRN	SHLD
X	17 WHT/RED	SHLD	33 BLU/WHT/ORN	17 WHT	9 BLK
N	SHLD	12 BLK	34 BLK/WHT/ORN	17 GRA	9 WHT
P	18 ORN/RED	12 WHT	35 WHT/RED/ORN	18 WHT	9 RED
R	SHLD	SHLD	36 ORN/WHT/BLU	18 YEL	SHLD
S	19 BLU/RED	13 BLK	37 WHT/RED BLU	19 WHT	10 BLK
b	SHLD	13 WHT	38 BRN	19 PUR	10 WHT
n	20 RED/GRN	SHLD	39 BRN/BLK	20 WHT	10 RED
z	SHLD	14 BLK	40 BRN/WHT	20 TAN	SHLD

FIGURE 44. Information on insert and wiring for 44-52 - Continued.

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SECTION 300

WIRING INFORMATION - Continued.INSERT CABLE TYPE

44-52	LS1SAU-44	LS2SWU-30 LS2SU-30 LS2SWAU-30	LSMSCU-91	LSTTSU-50	LS3SU-24 LS3SWU-24
AM	21 ORN/GRN	14 WHT	41 BRN/RED	21 WHT	11 BLK
AY	SHLD	SHLD	42 BRN/GRN	21 PNK	11 WHT
BK	22 BLK/WHT/RED	15 BLK	43 BRN/ORN	22 RED	11 RED
BV	SHLD	15 WHT	44 BRN/BLU	22 GRN	SHLD
CD	23 WHT/BLK/RED	SHLD	45 WHT/BLK/BLU	23 RED	12 BLK
CC	SHLD	16 BLK	46 RED/WHT/BLU	23 ORN	12 WHT
CB	24 RED/BLK/WHT	16 WHT	47 GRN/ORN/RED	24 RED	12 RED
CA	SHLD	SHLD	48 ORN/RED/BLU	24 BLU	SHLD
BR	25 GRN/BLK/WHT	17 BLK	49 BLU/RED/ORN	25 RED	13 BLK
BD	SHLD	17 WHT	50 BLK/ORN/RED	25 BRN	13 WHT
AS	26 ORN/BLK/WHT	SHLD	51 WHT/BLK/ORN	26 RED	13 RED
AD	SHLD	18 BLK	52 RED/ORN/BLK	26 GRA	SHLD
s	27 BLU/BLK/WHT	18 WHT	53 GRN/RED/BLU	27 RED	14 BLK
g	SHLD	SHLD	54 ORN/BLK/BLU	27 YEL	14 WHT
W	28 BLK/RED/GRN	19 BLK	55 BLU/BLK/ORN	28 RED	14 RED
M	SHLD	19 WHT	56 BLK/ORN/GRN	28 PUR	SHLD
D	29 WHT/RED/GRN	SHLD	57 WHT/ORN/GRN	29 RED	15 BLK
E	SHLD	20 BLK	58 RED/ORN/GRN	29 TAN	15 WHT
F	30 RED/BLK/GRN	20 WHT	59 GRN/BLK/BLU	30 RED	15 RED
H	SHLD	SHLD	60 ORN/GRN/BLU	30 PNK	SHLD
J	31 GRN/BLK/ORN	21 BLK	61 BLU/GRN/ORN	31 GRN	16 BLK
T	SHLD	21 WHT	62 BLK/RED/BLU	31 ORN	16 WHT
c	32 ORN/BLK/GRN	SHLD	63 WHT/ORN/BLU	32 GRN	16 RED
p	SHLD	22 BLK	64 RED/BLK/BLU	32 BLU	SHLD
AA	33 BLU/WHT/ORN	22 WHT	65 GRN/ORN/BLU	33 GRN	17 BLK
AN	SHLD	SHLD	66 ORN/WHT/RED	33 BRN	17 WHT
AZ	34 BLK/WHT/ORN	23 BLK	67 BLU/WHT/RED	34 GRN	17 RED
BL	SHLD	23 WHT	68 BLK/GRN/BLU	34 GRA	SHLD
BW	35 WHT/RED/ORN	SHLD	69 WHT/GRN/BLU	35 GRN	18 BLK
CE	SHLD	24 BLK	70 RED/GRN/BLU	35 YEL	18 WHT
CN	36 ORN/WHT/BLU	24 WHT	71 GRN/WHT/RED	36 GRN	18 RED
CM	SHLD	SHLD	72 ORN/RED/BLK	36 PUR	SHLD
CL	37 WHT/RED/BLU	25 BLK	73 BLU/RED/BLK	37 GRN	19 BLK
CK	SHLD	25 WHT	74 BLK/ORN/BLU	37 TAN	19 WHT
CJ	38 BRN	SHLD	75 RED/ORN/BLU	38 GRN	19 RED
BZ	SHLD	26 BLK	76 GRN/RED/BLK	38 PNK	SHLD
BP	39 BRN/BLK	26 WHT	77 ORN/WHT/GRN	39 ORN	20 BLK
BC	SHLD	SHLD	78 BLU/WHT/BRN	39 BLU	10 WHT

FIGURE 44. Information on insert and wiring for 44-52 - Continued.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
44-52	LS1SAU-44	LS2SWU-30 LS2SU-30 LS2SWAU-30	LSMSCU-91	LSTTSU-50	LS3SU-24 LS3SWU-24
AR	40 BRN/WHT	27 BLK	79 RED/WHT/ORN	40 ORN	10 RED
AC	SHLD	27 WHT	80 GRN/WHT/ORN	49 BRN	SHLD
r	41 BRN/RED	SHLD	81 BLU/BLK/GRN	41 ORN	21 BLK
f	SHLD	28 BLK	82 ORN/WHT	41 GRA	21 WHT
V	42 BRN/GRN	28 WHT	83 GRN/RED	42 ORN	21 RED
L	SHLD	SHLD	84 BLK/GRN	42 YEL	SHLD
C	43 BRN/ORN	29 BLK	85 WHT/GRN	43 ORN	22 BLK
A	SHLD	29 WHT	86 BLU/GRN	43 PUR	22 WHT
B	44 BRN/BLU	SHLD	87 BLK/ORN	44 ORN	22 RED
K	SHLD	30 BLK	88 WHT/ORN	44 TAN	SHLD
U	*	30 WHT	89 RED/ORN	45 ORN	23 BLK
d	*	SHLD	90 GRN/ORN	45 PNK	23 WHT
q	*	*	91 BLU/ORN	46 BLU	23 RED
AB	*	*	*	46 BRN	SHLD
BA	*	*	*	47 BLU	24 BLK
BM	*	*	*	47 GRA	24 WHT
BX	*	*	*	48 BLU	24 RED
CF	*	*	*	48 YEL	SHLD
CP	*	*	*	49 BLU	*
CS	*	*	*	49 PUR	*
CR	*	*	*	50 BLU	*
CH	*	*	*	50 TAN	*
BY	*	*	*	*	*
BN	*	*	*	*	*
BB	*	*	*	*	*
AP	*	*	*	*	*

WIRING INFORMATION FOR TYPE LS2U-45 CABLE

<u>INSERT</u>	<u>CABLE TYPE</u>	UNIVAC (90-PIN)1/	RECTANGULAR (120-PIN)
44-52	LS2U-45 (MIL-C-24643/45)	*259056-12	MIL-C-28731/17
w	1 BLK	39	BL
AJ	1 WHT	27	BT
AV	2 BLK	38	BZ

See footnote at end of tabulation.

FIGURE 44. Information on insert and wiring for 44-52 - Continued.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION FOR TYPE LS2U-45 CABLE

<u>INSERT</u>	<u>CABLE TYPE</u>	<u>UNIVAC (90-PIN) 1/</u>	<u>RECTANGULAR (120-PIN)</u>
44-52	LS2U-45 (MIL-C-24643/45)	*259056-12	MIL-C-28731/17
AH	2 RED	51	CH
v	3 BLK	52	CJ
j	3 GRN	40	CK
k	4 BLK	28	CA
x	4 ORN	17	BU
AK	5 BLK	16	BM
AW	5 BLU	26	BD
BH	6 BLK	37	BC
BF	6 BRN	50	BB
AU	7 BLK	62	BA
AF	7 GRA	63	BK
u	8 BLK	64	BS
i	8 YEL	53	BY
Y	9 BLK	41	CF
Z	9 PUR	29	CS
a	10 BLK	18	CT
m	10 TAN	7	CU
y	11 BLK	6	CV
AL	11 PNK	5	CL
AX	12 WHT	15	CB
BJ	12 RED	25	BV
BU	13 WHT	36	BN
BT	13 GRN	49	BE
BS	14 WHT	61	AV
BE	14 ORN	72	AU
AT	15 WHT	73	AT
AE	15 BLU	74	AS
t	16 WHT	75	AR
h	16 BRN	65	AZ
X	17 WHT	54	BJ
N	17 GRA	42	BR
P	18 WHT	30	BX
R	18 YEL	19	CE
S	19 WHT	8	CR
b	19 PUR	4	DA
n	20 WHT	14	DB
z	20 TAN	24	DC
AM	21 WHT	35	DD
AY	21 PNK	48	DE

See footnote at end of tabulation.

FIGURE 44. Information on insert and wiring for 44-52 - Continued.

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SECTION 300

WIRING INFORMATION FOR TYPE LS2U-45 CABLE - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	<u>UNIVAC (90-PIN) 1/</u>	<u>RECTANGULAR (120-PIN)</u>
44-52	LS2U-45 (MIL-C-24643/45)	*259056-12	MIL-C-28731/17
BK	22 RED	60	CW
BV	22 GRN	71	CM
CD	23 RED	82	CC
CC	23 ORN	38	BW
CB	24 RED	84	BP
CA	24 BLU	85	BF
BR	25 RED	86	AW
BD	25 BRN	76	AL
AS	26 RED	66	AK
AD	26 GRA	55	AJ
s	27 RED	43	AH
g	27 YEL	31	AF
W	28 RED	20	AE
M	28 PUR	9	AP
D	29 RED	3	AY
E	29 TAN	13	CD
F	30 RED	23	CP
H	30 PNK	34	CZ
J	31 GRN	47	DK
T	31 ORN	59	DL
c	32 GRN	70	DM
p	32 BLU	81	DN
AA	33 GRN	87	DP
AN	33 BRN	77	DR
AZ	34 GRN	67	DF
BL	34 GRA	56	CX
BW	35 GRN	44	CN
CE	35 YEL	32	BH
CN	36 GRN	21	AX
CM	36 PUR	10	AM
CL	37 GRN	2	AB
CK	37 TAN	12	AA
CJ	38 GRN	22	Z
BZ	38 PNK	33	Y
BP	39 ORN	46	X
BC	39 BLU	58	W
AR	40 ORN	80	V
AC	49 BRN	88	AD
r	41 ORN	78	CY

See footnote at end of tabulation.

FIGURE 44. Information on insert and wiring for 44-52 - Continued.

MIL-STD-1683B(SH)

SECTION 300

WIRING INFORMATION FOR TYPE LS2U-45 CABLE - Continued.

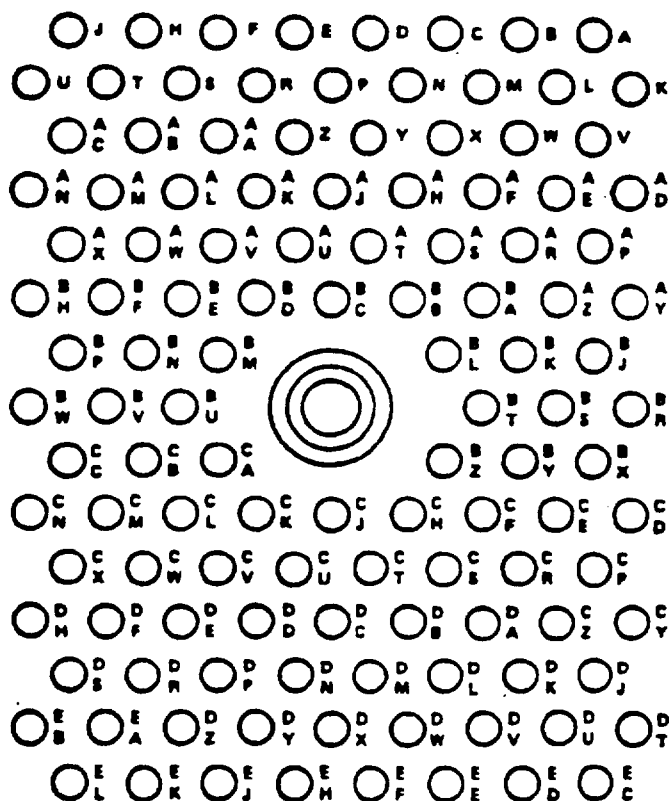
<u>INSERT</u>	<u>CABLE TYPE</u>	<u>UNIVAC (90-PIN) 1/</u>	<u>RECTANGULAR (120-PIN)</u>
44-52	LS2U-45 (MIL-C-24643/45)	#259056-12	MIL-C-28731/17
f	41 GRA	68	DJ
V	42 ORN	57	DU
L	42 YEL	45	DV
C	43 ORN	89	DW
A	43 PUR	79	DX
B	44 ORN	69	DY
K	44 TAN	90	DZ
U	45 ORN	1	EA
d	45 PNK	11	DS
q	SHLD	*	DH
AB	*	*	AN
BA	*	*	AC
BM	*	*	T
BX	*	*	S
CF	*	*	R
CP	*	*	P
CS	*	*	N
CR	*	*	M
CH	*	*	L
BT	*	*	K
BN	*	*	DT
BB	*	*	EC
			ED
			EE
			EF
			EH
			EJ
			EK
			EL
			EB
			U
			J
			H
			F
			E
			D
			C
			B
			A

1/ OR EQUIVALENT

FIGURE 44. Information on insert and wiring for 44-52 - Continued

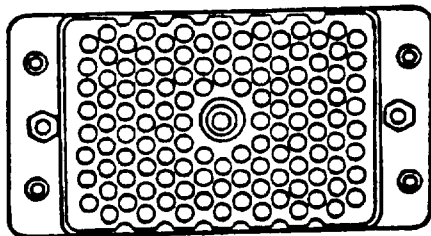
MIL-STD-1683B(SH)

SECTION 300

 INSERT PATTERN FOR MIL-C-28731/17
 RECTANGULAR CONNECTOR
 (ENLARGED VIEW)
FIGURE 44. Information on insert and wiring for 44-52 - Continued.

MIL-STD-1683B(SH)

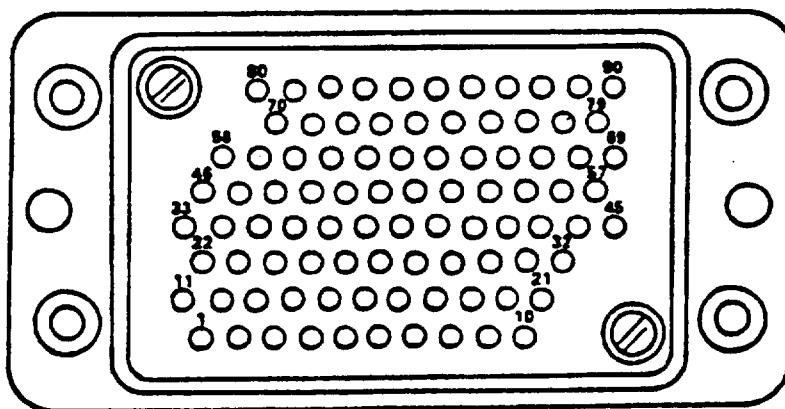
SECTION 300



INSERT FOR TYPE LS2U-45 CABLE
(MIL-C-5015 CONNECTOR, 104 SIZE
16 CONTACTS) ON ONE END AND A
RECTANGULAR 90- OR 120-PIN
CONNECTOR ON THE OTHER END.

FOR INSERT DIAGRAM AND PART
NUMBER ORDERING INFORMATION
FOR MIL-C-5015 CONNECTOR AND
DIMENSIONAL DATA FOR TYPE
LS2U-45 CABLE, SEE PAGE 1 OF
44-52 INSERT WIRING.

RECTANGULAR
MIL-C-28731/17 - FIXED SOCKET
- TYPE D 120-PIN WITH FORK
TYPE CONTACTS CONFORMING TO
MIL-C-28731/20. (SEE PAGE
8 OF 44-52 INSERT WIRING
FOR ENLARGED VIEW).



UNIVAC #259056-12
NSN-5935-888-7491
90-PIN

FIGURE 44. Information on insert and wiring for 44-52 - Continued.

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SECTION 400

TABLE IX. MIL-C-28840 connector insert to MIL-C-915 cable cross reference.

Insert	Cables
13-1	1SWF-2, 2SWF-3, -4,
17-1	TSP-11
19-1	2SWF-7
23-1	TSP-31

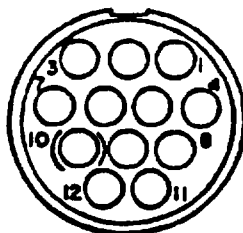
TABLE X. MIL-C-915 cable to MIL-C-28840 connector insert cross reference.

Cable	Insert	Cable	Insert
TSP-11	17-1	2SWF-3	13-1
TSP-31	23-1	2SWF-4	13-1
		2SWF-7	19-1
1SWF-2	13-1		

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SH 1323175148



Insert 13-1
 Contacts
 Qty: 12
 Size 20

CABLE			CONDUCTORS/SHIELDS					CONNECTOR MILITARY PART NUMBER	
OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)		DIAMETER (INCH)			MIL-C -915/			
TYPE	MIN	MAX	MIN	MAX	QTY		AWG		NOMINAL
2SWF-3	0.600	0.625			9	22	0.0320	48	M28840/26CB1D B * 1
2SWF-4	.600	.625			12	22	.0320	48	M28840/26CB1D B * 1
1SWF-2	.600	.625			4	22	.0320	47	M28840/26CB1D B * 1

WIRING INFORMATION

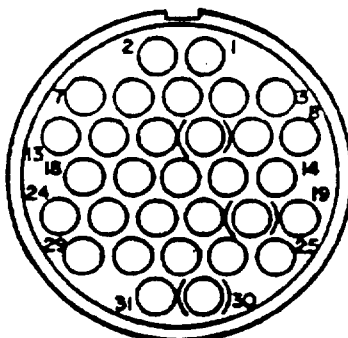
<u>INSERT</u>	<u>CABLE TYPE</u>		
13-1	2SWF-3	2SWF-4	1SWF-2
9	1 BLK	1 BLK	1 BLK
6	1 WHT	1 WHT	SHLD
5	SHLD	SHLD	2 WHT
8	2 BLK	2 BLK	SHLD
11	2 WHT	2 WHT	*
12	SHLD	SHLD	*
10	3 BLK	3 BLK	*
7	3 WHT	3 WHT	*
3	SHLD	SHLD	*
2	*	4 BLK	*
1	*	4 WHT	*
4	*	SHLD	*

FIGURE 45. Information on insert and wiring for 13-1.

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SECTION 400

SH 1323175149



Insert 17-1
 Contacts
 Qty: 31
 Size 20

CABLE					CONDUCTORS/SHIELDS				CONNECTOR MILITARY PART NUMBER
OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)			DIAMETER (INCH)				
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	MIL- -915/	
TSP-11	0.680	0.730			22	22	0.0320	22 M28840/26CD1 BB * 1	

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>
17-1	TSP-11
16	1 BLK
10	1 WHT
15	2 BLK
21	2 RED
22	3 BLK
17	3 GRN
11	4 BLK
5	4 ORN
4	5 BLK
9	5 BLU
14	6 BLK
20	6 BRN
26	7 BLK
27	7 GRA
28	8 BLK
23	8 YEL
18	9 BLK
12	9 PUR
6	10 BLK
2	10 TAN

FIGURE 46. Information on insert and wiring for 17-1.

MIL-STD-1683B(SH)

SECTION 400

WIRING INFORMATION - Continued.

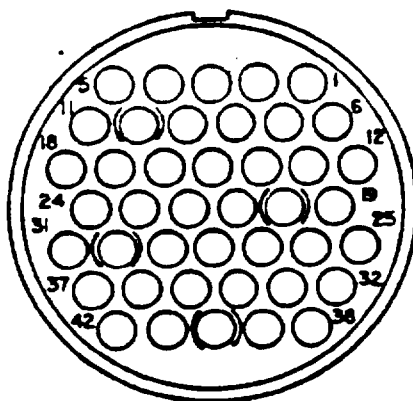
<u>INSERT</u>	<u>CABLE TYPE</u>
17-1	TSP-11
1	11 BLK
3	11 PNK
8	*
19	*
25	*
30	*
31	*
29	*
24	*
13	*
7	*

FIGURE 46. Information on insert and wiring for 17-1 - Continued.

MIL-STD-1683B(SH)

SECTION 400

SH 1323175150



Insert 19-1
 Contacts
 Qty: 42
 Size 20

TYPE	CABLE OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		CONDUCTORS/SHIELDS DIAMETER (INCH)			MIL- 915/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL		
2SWF-7	0.780	0.815			21	22	0.0320	48	M28840/26CE1 B * 1

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>
19-1	2SWF-7
22	1 BLK
15	1 WHT
21	SHLD
28	2 BLK
29	2 WHT
23	SHLD
16	3 BLK
9	3 WHT
8	SHLD
14	4 BLK
20	4 WHT
27	SHLD
34	5 BLK
35	5 WHT
36	SHLD
30	6 BLK

FIGURE 47. Information on insert and wiring for 19-1.

MIL-STD-1683B(SH)

SECTION 400

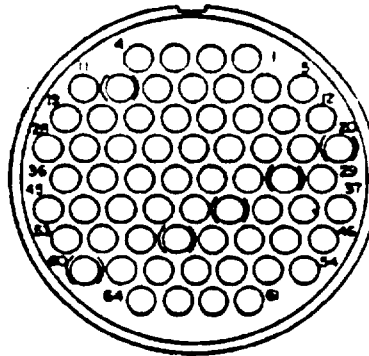
<u>INSERT</u>	<u>CABLE TYPE</u>
19-1	2SWF-7
24	6 WHT
17	SHLD
10	7 BLK
4	7 WHT
3	SHLD
2	*
7	*
13	*
19	*
26	*
33	*
39	*
40	*
41	*
42	*
37	*
31	*
18	*
11	*
5	*
1	*
6	*
12	*
25	*
32	*
38	*

Figure 47. Information on insert and wiring for 19-1 - Continued.

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SECTION 400

SH 1323175151



Insert 23-1
 Contacts
 Qty: 64
 Size 20

CABLE				CONDUCTORS/SHIELDS				MIL- 915/	CONNECTOR MILITARY PART NUMBER
OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		DIAMETER (INCH)					
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL		
TSP-31	0.982	1.062			62	22	0.0320	22	M28840/26CF1C B * 1

WIRING INFORMATIONINSERT CABLE TYPE

23-1	TSP-31
33	1 BLK
24	1 WHT
32	2 BLK
41	2 RED
42	3 BLK
34	3 GRN
25	4 BLK
16	4 ORN
15	5 BLK
23	5 BLU
31	6 BLK
40	6 BRN
49	7 BLK
50	7 GRA
51	8 BLK
43	8 YEL
35	9 BLK
26	9 PUR
17	10 BLK

FIGURE 48. Information on insert and wiring for 23-1.

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INSERT CABLE TYPE

23-1 TSP-31

9	10 TAN
8	11 BLK
7	11 PNK
14	12 WHT
22	12 RED
30	13 WHT
39	13 GRN
48	14 WHT
56	14 ORN
57	15 WHT
58	15 BLU
59	16 WHT
52	16 BRN
44	17 WHT
36	17 GRA
27	18 WHT
18	18 YEL
10	19 WHT
4	19 PUR
3	20 WHT
2	20 TAN
1	21 WHT
6	21 PNK
13	22 RED
21	22 GRN
29	23 RED
38	23 ORN
47	24 RED
55	24 BLU
61	25 RED
62	25 BRN
63	26 RED
64	26 GRA
60	27 RED
53	27 YEL
45	28 RED
28	28 PUR
19	29 RED
11	29 TAN
5	30 RED
12	30 PNK
20	31 GRN
37	31 ORN
46	*
54	*

FIGURE 48. Information on insert and wiring for 23-1 - Continued.

MIL-STD-1683B(SH)

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TABLE XI. MIL-C-28840 connector insert to MIL-C-24640 cable cross reference.

Insert	Cable
11-1	TTX-3, TTXA-3, TTXOW-1-1/2, -3, TTXS-2, TTXSA-2, TTXSO-2, TTXW-1 1/2, -3, TTXWA-1-1/2, -3, 1XSOW-2, 2XAO-2, 2XS-2, 2XSA-2.
13-1	MXO-10, TTXOW-5, TTXW-5, TTXWA-5, 2XS-3, 2XSA-3, 2XSAOW-3, 2XSAW-3, 2XSAWA-3, 2XSO-3.
15-1	MXO-14, TTXS-4, TTXSA-4, TTXSO-4, TTXW-10, TTXWA-10, 1XMSO-7, 2XAO-7, 2XAO-10, 2XO-6, 2XOW-6, 2XS-7, 2XSA-7, 2XSAW-7, 2XSAWA-7, 2XSXO-4.
17-1	TTX-15, TTXA-15, TTXOW-15, TTXSO-8, TTXSO-10, TTXW-15, TTXWA-15, 1XSOW-14, 2XS-10, 2XSA-10, 2XSAOW-7, -10, 2XSO-10.
19-1	TTXOW-20, TTXW-20, TTXWA-20, 1XMSO-16, 1XSOW-20, 2XAO-18, 2XO-18, 2XOW-18, 2XS-14, 2XSA-14, 2XSAW-14, 2XSAWA-14.
23-1	TTXOW-30, TTXW-30, TTXWA-30, 1XSOW-30, 2XO-24, 2XOW-24, 2XS-19, 2XSA-19, 2XSAOW-14, 2XSAOW-19, 2XSO-14, 2XSO-19.
25-1	TTXOW-40, TTXW-40, TTXWA-40, 2XAO-40, 2XO-42, 2XOW-42, 2XS-24, 2XS-30, 2XSA-24, 2XSA-30, 2XSAOW-24, 2XSAOW-30, 2XSO-30.
29-1	2XO-60, 2XOW-60, 2XSAOW-37.
33-1	1XMSO-70, 2XO-77, 2XOW-77

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SECTION 500

TABLE XII. MIL-C-24640 cable to MIL-C-28840 connector insert cross reference.

Cable	Insert	Cable	Insert	Cable	Insert
MXO-10	11-1	1XSOW-2	11-1	2XSAW-3	13-1
MXO-14	15-1	1XSOW-14	13-1	2XSAW-7	15-1
		1XSOW-20	19-1	2XSAW-14	19-1
TTX-3	11-1	1XSOW-30	23-1		
TTX-15	17-1			2XSAWA-3	13-1
		2XAO-2	11-1	2XSAWA-7	15-1
TTXA-3	11-1	2XAO-7	15-1	2XSAWA-14	19-1
TTXA-15	17-1	2XAO-10	15-1		
TTXOW-1 1/2	11-1	2XAO-18	19-1	2XSO-3	313-1
TTXOW-3	11-1	2XAO-40	25-1	2XSO-10	17-1
TTXOW-5	13-1			2XSO-14	23-1
TTXOW-15	17-1	2XO-6	15-1	2XSO-19	23-1
TTXOW-20	19-1	2XO-18	19-1	2XSO-30	25-1
TTXOW-30	23-1	2XO-24	23-1		
TTXOW-40	25-1	2XO-60	29-1	2XSXO-4	15-1
		2XO-77	33-1		
TTXS-2	11-1				
TTXS-4	15-1	2XOW-6	15-1		
TTXSA-2	11-1	2XOW-18	19-1		
TTXSA-4	15-1	2XOW-24	23-1		
TTXSO-2	11-1	2XOW-42	25-1		
TTXSO-4	15-1	2XOW-60	29-1		
TTXSO-8	17-1	2XOW-77	33-1		
TTXSO-10	17-1				
		2XS-2	11-1		
TTXW-1 1/2	11-1	2XS-3	13-1		
TTXW-3	11-1	2XS-7	15-1		
TTXW-5	13-1	2XS-10	17-1		
TTXW-10	15-1	2XS-14	19-1		
TTXW-15	17-1	2XS-19	23-1		
TTXW-20	19-1	2XS-24	25-1		
TTXW-30	23-1	2XS-30	25-1		
TTXW-40	25-1				
		2XSA-2	11-1		
TTXWA-1 1/2	11-1	2XSA-3	13-1		
TTXWA-3	11-1	2XSA-7	15-1		
TTXWA-5	13-1	2XSA-10	17-1		
TTXWA-10	15-1	2XSA-14	19-1		
TTXWA-15	17-1	2XSA-19	23-1		
TTXWA-20	19-1	2XSA-24	25-1		
TTXWA-30	23-1	2XSA-30	25-1		

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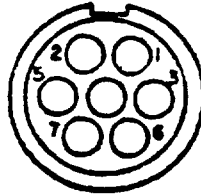
TABLE XII. MIL-C-24640 cable to MIL-C-28840 connector insert cross reference -
Continued.

Cable	Insert	Cable	Insert	Cable	Insert
TTXWA-40	25-1	2XSAOW-3	13-1		
1XMSO-7	15-1	2XSAOW-7	17-1		
1XMSO-16	19-1	2XSAOW-10	17-1		
1XMSO-70	33-1	2XSAOW-14	23-1		
		2XSAOW-19	23-1		
		2XSAOW-24	25-1		
		2XSAOW-30	25-1		
		2XSAOW-37	29-1		

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SECTION 500

SH 1323175152



Insert 11-1
Contracts
Qty: 7
Size 20

TYPE	CABLE		CONDUCTORS/SHIELDS		QTY	AWG	NOMINAL	MIL-C	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)	DIAMETER (INCH)						
	MIN	MAX	MIN	MAX				24640/	
TTX-3	0.296	0.320			6	20	0.0363	4	M28840/26CA1B B * 1
TTXA-3	.346	.370			6	20	.0363	4	M28840/26CA1B B * 1
TTXS-2	.335	.361			6	20	.0363	5	M28840/26CA1B B * 1
TTXSA-2	.385	.411			6	20	.0363	5	M28840/26CA1B B * 1
TTXS0-2	.386	.416			7	20	.0363	5	M28840/26CA1B B * 1
2XAO-2	.307	.331			5	22	.0320	6	M28840/26CA1B B * 1
2XS-2	.308	.332			6	22	.0320	9	M28840/26CA1B B * 1
2XSA-2	.358	.382			6	22	.0320	9	M28840/26CA1B B * 1
1XSOW-2	.292	.314	0.044	0.050	5	22	.0320	14	M28840/26CA1B B * 1
TTXW-1 1/2	.181	.195	.051	.055	3	22	.0320	24	M28840/26CA1B B * 1
TTXWA-1 1/2	.231	.245	.051	.055	3	22	.0320	24	M28840/26CA1B B * 1
TTXOW-1 1/2	.253	.273	.051	.055	4	22	.0320	24	M28840/26CA1B B * 1
TTXW-3	.285	.307	.051	.055	6	22	.0320	24	M28840/26CA1B B * 1
TTXWA-3	.335	.357	.051	.055	6	22	.0320	24	M28840/26CA1B B * 1
TTXOW-3	.333	.359	.051	.055	7	22	.0320	24	M28840/26CA1B B * 1

WIRING INFORMATION

INSERT	CABLE TYPE						
11-1	TTXW-3	TTXS-2	TTXS0-2	2XAO-2	1XSOW-2	TTXW-1 1/2	TTXOW-1 1/2
	TTXWA-3	TTXSA-2				TTXWA-1 1/2	
	TTXS-3	2XS-2					
	TTXA-3	2XSA-2					
	TTXOW-3						
4	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
1	1 WHT	1 WHT	1 WHT	1 WHT	SHLD	2 WHT	2 WHT
3	2 BLK	SHLD	SHLD	2 BLK	2 WHT	3 RED	3 RED
6	2 RED	2 BLK	2 BLK	2 RED	SHLD	*	OVSHLD
7	3 BLK	2 WHT	2 WHT	SHLD	OVSHLD	*	*
5	3 GRN	SHLD	SHLD	*	*	*	*
2	OVSHLD 1/	*	OVSHLD	*	*	*	*

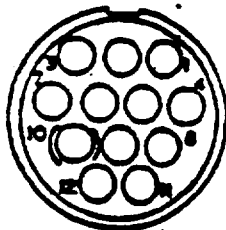
1/ OVSHLD FOR TTXOW-3 ONLY.

FIGURE 49. Information on insert and wiring for 11-1.

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SECTION 500

SH 1323175153



Insert 13-1
Contacts
Qty: 12
Size 20

TYPE	CABLE		CONDUCTORS/SHIELDS		QTY	AWG	NOMINAL	MIL-C	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)	FINISHED WIRE DIAMETER (INCH)	MIN	MAX					
MXO-10	0.349	0.377			11	20	0.0363	8	M28840/26CB1B B * 1
2XS-3	.325	.350			9	22	.0320	9	M28840/26CB1B B * 1
2XSA-3	.375	.400			9	22	.0320	9	M28840/26CB1B B * 1
2XSO-3	.380	.410			10	22	.0320	9	M28840/26CB1B B * 1
2XSAW-3	.368	.396	0.044	0.050	9	22	.0320	15	M28840/26CB1B B * 1
2XSAWA-3	.418	.446	.044	.050	9	22	.0320	15	M28840/26CB1B B * 1
2XSAOW-3	.405	.437	.044	.050	10	22	.0320	15	M28840/26CB1B B * 1
TTXW-5	.331	.357	.051	.055	10	22	.0320	24	M28840/26CB1B B * 1
TTXWA-5	.381	.407	.051	.055	10	22	.0320	24	M28840/26CB1B B * 1
TTXOW-5	.376	.406	.051	.055	10	22	.0320	24	M28840/26CB1B B * 1

WIRING INFORMATIONINSERT CABLE TYPE

13-1	MXO-10	2XS-3	2XSO-3	TTXW-5
		2XSA-3	2XSAOW-3	TTXWA-5
		2XSAW-3		TTXOW-5
		2XSAWA-3		
9	1 BLK	1 BLK	1 BLK	1 BLK
6	2 WHT	1 WHT	1 WHT	1 WHT
5	3 RED	SHLD	SHLD	2 BLK
8	4 GRN	2 BLK	2 BLK	2 RED
11	5 ORN	2 WHT	2 WHT	3 BLK
12	6 BLU	SHLD	SHLD	3 GRN
10	7 WHT/BLK	3 BLK	3 BLK	4 BLK
7	8 RED/BLK	3 WHT	3 WHT	4 ORN
3	9 GRN/BLK	SHLD	SHLD	5 BLK
2	10 ORN/BLK	*	OVSHLD	5 BLU
1	OVSHLD	*	*	OVSHLD 1/
4	*	*	*	*

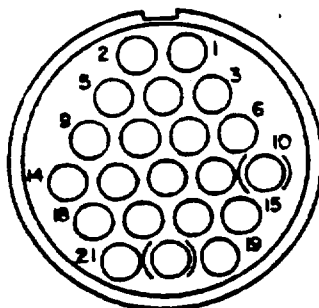
1/ OVSHLD FOR TTXOW-5 ONLY.

FIGURE 50. Information on insert and wiring for 13-1.

MIL-STD-1683B (SH)

SECTION 500

SH 1323175154



Insert 15-1
 Contacts
 Qty: 21
 Size 20

CABLE OUTSIDE DIAMETER (INCH)		CONDUCTORS/SHIELDS FINISHED WIRE DIAMETER (INCH)		DIAMETER (INCH)		MIL-C 24640/		CONNECTOR MILITARY PART NUMBER
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
TTXS-4	0.393	0.424			12	20	0.0363	5 M28840/26CC1AB * 1
TTXSA-4	.443	.474			12	20	.0363	5 M28840/26CC1BB * 1
TTXSO-6	.506	.546			19	20	.0363	5 M28840/26CC1BB * 1
2XAO-7	.392	.422			15	22	.0320	6 M28840/26CC1AB * 1
2XAO-10	.475	.511			21	22	.0320	6 M28840/26CC1BB * 1
MXO-14	.380	.410			15	20	.0363	8 M28840/26CC1AB * 1
2XS-7	.423	.455			21	22	.0320	9 M28840/26CC1BB * 1
2XSA-7	.473	.505			21	22	.0320	9 M28840/26CC1BB * 1
1XMSO-7	.344	.370			15	22	.0320	7 M28840/26CC1AB * 1
2XSAW-7	.461	.497	0.044	0.050	21	22	.0320	15 M28840/26CC1BB * 1
2XSAWA-7	.511	.547	.044	.050	21	22	.0320	15 M28840/26CC1BB * 1
TTXW-10	.456	.492	.051	.055	20	22	.0320	24 M28840/26CC1BB * 1
TTXWA-10	.506	.542	.051	.055	20	22	.0320	24 M28840/26CC1BB * 1
2XO-6	.305	.329			12	26	.0210	12 M28840/26CC1AB * 1
2XSXO-4	.333	.359			13	26	.0210	13 M28840/26CC1AB * 1
2XOW-6	.336	.363	.031	.037	13	26	.0210	17 M28840/26CC1AB * 1

WIRING INFORMATION

INSERT	CABLE TYPE				
15-1	TTXS-4 TTXSA-4	TTXSO-6	2XS-7 2XSA-7 2XSAW-7 2XSAWA-7	MXO-14	2XSXO-4
12	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
7	1 WHT	1 WHT	1 WHT	2 WHT	1 WHT
11	SHLD	SHLD	SHLD	3 RED	SHLD
16	2 BLK	2 BLK	2 BLK	4 GRN	2 BLK
17	2 WHT	2 WHT	2 WHT	5 ORN	2 WHT

FIGURE 51. Information on insert and wiring for 15-1.

MIL-STD-1683B(SH)

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
15-1	TTXS-4 TTXSA-4	TTXSO-6	2XS-7 2XSA-7 2XSAW-7 2XSAWA-7	MXO-14	2XSKO-4
13	SHLD	SHLD	SHLD	6 BLU	SHLD
8	3 BLK	3 BLK	3 BLK	7 WHT/BLK	3 BLK
4	3 WHT	3 WHT	3 WHT	8 RED/BLK	3 WHT
3	SHLD	SHLD	SHLD	9 GRN/BLK	SHLD
6	4 BLK	4 BLK	4 BLK	10 ORN/BLK	4 BLK
10	4 WHT	4 WHT	4 WHT	11 BLU/BLK	4 WHT
15	SHLD	SHLD	SHLD	12 BLK/WHT	SHLD
19	*	5 BLK	5 BL	13 RED/WHT	OVSHLD
20	*	5 WHT	5 WHT	14 GRN/WHT	*
21	*	SHLD	SHLD	OVSHLD	*
18	*	6 BLK	6 BLK	*	*
14	*	6 WHT	6 WHT	*	*
9	*	SHLD	SHLD	*	*
5	*	OVSHLD	7 BLK	*	*
2	*	*	7 WHT	*	*
1	*	*	SHLD	*	*

FIGURE 51. Information on insert and wiring for 15-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
15-1	2XAO-7	2XO-6 2XOW-6	1XMSO-7	2XAO-10 TTXWA-10 TTXW-10
12	1 BLK	1 BLK	1 BLK	1 BLK
7	1 WHT	1 WHT	SHLD	1 WHT
11	2 BLK	2 BLK	2 WHT	2 BLK
16	2 RED	2 RED	SHLD	2 RED
17	3 BLK	3 BLK	3 RED	3 BLK
13	3 GRN	3 GRN	SHLD	3 GRN
8	4 BLK	4 BLK	4 GRN	4 BLK
4	4 ORN	4 ORN	SHLD	4 ORN
3	5 BLK	5 BLK	5 ORN	5 BLK
6	5 BLU	5 BLU	SHLD	5 BLU
10	6 BLK	6 BLK	6 BLK	6 BLK
15	6 BRN	6 BRN	SHLD	6 BRN
19	7 BLK	OVSHLD	7 WHT/BL	7 BLK
20	7 GRA	*	SHLD	7 GRA
21	OVSHLD	*	OVSHLD	8 BLK
18	*	*	*	8 YEL
14	*	*	*	9 BLK
9	*	*	*	9 PUR
5	*	*	*	10 BLK
2	*	*	*	10 TAN
1	*	*	*	OVSHLD 1/

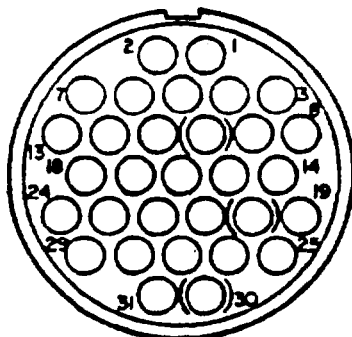
1/ OVSHLD FOR 2XAO-10 ONLY.

FIGURE 51. Information on insert and wiring for 15-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

SH 1323175155



Insert 17-1
Contacts
Qty: 31
Size 20

TYPE	CABLE OUTSIDE DIAMETER (INCH)		CONDUCTORS/SHIELDS FINISHED WIRE DIAMETER (INCH)		QTY	AWG	DIAMETER (INCH) NOMINAL	MIL-C 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX					
TTX-15	0.549	0.591			30	20	0.0363	4	M28840/26CD1AB * 1
TTXA-15	.599	.641			30	20	.0363	4	M28840/26CD1BB * 1
TTXSO-8	.587	.633			25	20	.0363	5	M28840/26CD1BB * 1
TTXSO-10	.627	.675			31	20	.0363	5	M28840/26CD1BB * 1
2XS-10	.537	.579			30	22	.0320	9	M28840/26CD1AB * 1
2XSA-10	.587	.629			30	22	.0320	9	M28840/26CD1BB * 1
2XSAOW-7	.510	.550	0.044	0.050	22	22	.0320	15	M28840/26CC1AB * 1
2XSO-10	.594	.640			31	22	.0320	9	M28840/26CD1BB * 1
1XSOW-14	.470	.506	.044	.050	29	22	.0320	14	M28840/26CD1AB * 1
TTXW-15	.527	.569	.051	.055	30	22	.0320	24	M28840/26CD1AB * 1
TTXWA-15	.577	.619	.051	.055	30	22	.0320	24	M28840/26CD1AB * 1
TTXWA-15	.567	.600	.051	.055	31	22	.0320	24	M28840/26CD1AB * 1
2XSAOW-10	.510	.550	.044	.055	30	22	.0320	15	M28840/26CD1AB * 1
2XSO-10	.474	.510			22	22	.0320	19	M28840/26CD1AB * 1

WIRING INFORMATION

INSERT	CABLE TYPE				
17-1	2XSO-7	TTXSO-8	2XS-10	1XSOW-14	TTX-15
	2XSAOW-7		2XSA-10		TTXA-15
			2XSO-10		TTXW-15
			2XSAOW-10		TTXWA-15
			TTXSO-10		TTXOW=-15
16	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
10	1 WHT	1 WHT	1 WHT	SHLD	1 WHT
15	SHLD	SHLD	SHLD	2 WHT	2 BLK

FIGURE 52. Information on insert and wiring for 17-1.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
17-1	2XSO-7 2XSAOW-7	TTXSO-8	2XS-10 2XSA-10 2XS0-10 2XSAOW-10 TTXSO-10	1XSOW-14	TTX-15 TTXA-15 TTXW-15 TTXWA-15 TTXOW=-15
21	2 BLK	2 BLK	2 BLK	SHLD	2 RED
22	2 WHT	2 WHT	2 WHT	3 RED	3 BLK
17	SHLD	SHLD	SHLD	SHLD	3 GRN
11	3 BLK	3 BLK	3 BLK	4 GRN	4 BLK
5	3 WHT	3 WHT	3 WHT	SHLD	4 ORN
4	SHLD	SHLD	SHLD	5 ORN	5 BLK
9	4 BLK	4 BLK	4 BLK	SHLD	5 BLU
14	4 WHT	4 WHT	4 WHT	6 BLU	6 BLK
20	SHLD	SHLD	SHLD	SHLD	6 BRN
26	5 BLK	5 BLK	5 BLK	7 WHT/BLK	7 BLK
27	5 WHT	5 WHT	5 WHT	SHLD	7 GRA
28	SHLD	SHLD	SHLD	8 RED/BLK	8 BLK
23	6 BLK	6 BLK	6 BLK	SHLD	8 YEL
18	6 WHT	6 WHT	6 WHT	9 GRN/BLK	9 BLK
12	SHLD	SHLD	SHLD	SHLD	9 PUR
6	7 BLK	7 BLK	7 BLK	10 ORN/BLK	10 BLK
2	7 WHT	7 WHT	7 WHT	SHLD	10 TAN
1	SHLD	SHLD	SHLD	11 BLU/BLK	11 BLK
3	OVSHLD	8 BLK	8 BLK	SHLD	11 PNK
8	*	8 WHT	8 WHT	12 BLK/WHT	12 WHT
19	*	SHLD	SHLD	SHLD	12 RED
25	*	OVSHLD	9 BLK	13 RED/WHT	13 WHT
30	*	*	8 WHT	SHLD	13 GRN
31	*	*	SHLD	14 GRN/WHT	14 WHT
29	*	*	10 BLK	SHLD	14 ORN
24	*	*	10 WHT	OVSHLD	15 WHT
13	*	*	SHLD	*	15 BLU
7	*	*	OVSHLD 1/	*	OVSHLD 1/

1/ OVSHLD FOR 2XSO-10, 2XSAOW-10, AND TTXSO-10 ONLY.

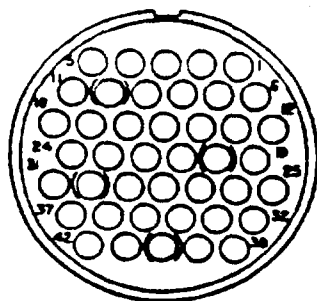
2/ OVSHLD FOR TTXOW-15 ONLY.

FIGURE 52. Information on insert and wiring for 17-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

SH 1323175156



Insert 19-1
Contacts
Qty: 42
Size 20

CABLE		CONDUCTORS/SHIELDS							CONNECTOR MILITARY NUMBER
OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)			DIAMETER (INCH)			MIL-	
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	24640/	
2XAO-18	0.567	0.611			37	22	0.0320	6	M28840/26CE1AB * 1
1XMSO-16	.471	.507			33	22	.0320	7	M28840/26CE1AB * 1
2XS-14	.582	.627			42	22	.0320	9	M28840/26CE1BB * 1
2XSA-14	.632	.677			42	22	.0320	9	M28840/26CE1BB * 1
2XO-18	.417	.449			37	26	.0210	12	M28840/26CE1AB * 1
1XSOW-20	.542	.584	0.044	0.050	41	22	.0320	14	M28840/26CE1AB * 1
2XSAW-14	.641	.691	.044	.050	42	22	.0320	15	M28840/26CE1BB * 1
2XSAWA-14	.691	.741	.044	.050	42	22	.0320	15	M28840/26CE1BB * 1
2XOW-18	.468	.504	.031	.037	37	26	.0210	17	M28840/26CE1AB * 1
TTXW-20	.577	.621	.051	.055	40	22	.0320	24	M28840/26CE1AB * 1
TTXWA-20	.627	.671	.051	.055	40	22	.0320	24	M28840/26CE1BB * 1
TTXOW-20	.614	.662	.051	.055	41	22	.0320	24	M28840/26CE1BB * 1

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>				
19-1	1XMSO-16	1XSOW-20	2XAO-18	2XS-14	TTXW-20
			2XO-18	2XSA-14	TTXWA-20
			2XOW-18	2XSAW-14	TTXOW-20
				2XSAWA-14	
22	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
15	SHLD	SHLD	1 WHT	1 WHT	1 WHT
21	2 WHT	2 WHT	2 BLK	SHLD	2 BLK
28	SHLD	SHLD	2 RED	2 BLK	2 RED
29	3 RED	3 RED	3 BLK	2 WHT	3 BLK

FIGURE 53. Information on insert and wiring for 19-1.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
19-1	1XMSO-16	1XSOW-20	2XAO-18 2XO-18 2XOW-18	2XS-14 2XSA-14 2XSAW-14 2XSAWA-14	TTXW-20 TTXWA-20 TTXOW-20
23	SHLD	SHLD	3 GRN	SHLD	3 GRN
16	4 GRN	4 GRN	4 BLK	3 BLK	4 BLK
9	SHLD	SHLD	4 ORN	3 WHT	4 ORN
8	5 ORN	5 ORN	5 BLK	SHLD	5 BLK
14	SHLD	SHLD	5 BLU	4 BLK	5 BLU
20	6 BLU	6 BLU	6 BLK	4 WHT	6 BLK
27	SHLD	SHLD	6 BRN	SHLD	6 BRN
34	7 WHT/BLK	7 WHT/BLK	7 BLK	5 BLK	7 BLK
35	SHLD	SHLD	7 GRA	5 WHT	7 GRA
36	8 RED/BLK	8 RED/BLK	8 BLK	SHLD	8 BLK
30	SHLD	SHLD	8 YEL	6 BLK	8 YEL
24	9 GRN/BLK	9 GRN/BLK	9 BLK	6 WHT	9 BLK
17	SHLD	SHLD	9 PUR	SHLD	9 PUR
10	10 ORN/BLK	10 ORN/BLK	10 BLK	7 BLK	10 BLK
4	SHLD	SHLD	10 TAN	7 WHT	10 TAN
3	11 BLU/BLK	11 BLU/BLK	11 BLK	SHLD	11 BLK
2	SHLD	SHLD	11 PNK	8 BLK	11 PNK
7	12 BLK/WHT	12 BLK/WHT	12 WHT	8 WHT	12 WHT
13	SHLD	SHLD	12 RED	SHLD	12 RED
19	13 RED/WHT	13 RED/WHT	13 WHT	9 BLK	13 WHT
26	SHLD	SHLD	13 GRN	9 WHT	13 GRN
33	14 GRN/WHT	14 GRN/WHT	14 WHT	SHLD	14 WHT
39	SHLD	SHLD	14 ORN	10 BLK	14 ORN
40	15 BLU/WHT	15 BLU/WHT	15 WHT	10 WHT	15 WHT
41	SHLD	SHLD	15 BLU	SHLD	15 BLU
42	16 BLK/RED	16 BLK/RED	16 WHT	11 BLK	16 WHT
37	SHLD	SHLD	16 BRN	11 WHT	16 BRN
31	OVSHLD	17 WHT/RED	17 WHT	SHLD	17 WHT
18	*	SHLD	17 GRA	12 BLK	17 GRA
11	*	18 ORN/RED	18 WHT	12 WHT	18 WHT
5	*	SHLD	18 YEL	SHLD	18 YEL
1	*	19 BLU/RED	OVSHLD	13 BLK	19 WHT
6	*	SHLD	*	13 WHT	19 PUR
12	*	20 RED/GRN	*	SHLD	20 WHT
25	*	SHLD	*	14 BLK	20 TAN
32	*	OVSHLD	*	14 WHT	OVSHLD 1/
38	*	*	*	SHLD	*

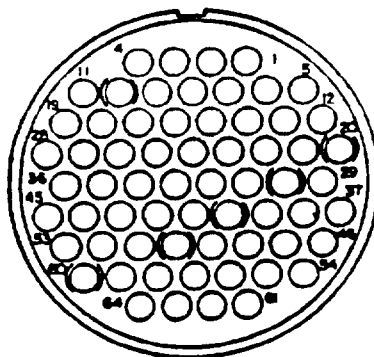
1/ OVSHLD FOR TTXOW-20 ONLY.

FIGURE 53. Information on insert and wiring for 19-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

SH 1323175157



Insert 23-1
Contacts
Qty: 64
Size 20

TYPE	CABLE		CONDUCTORS/SHIELDS				MIL-C-24640/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER (INCH)		FINISHED WIRE DIAMETER (INCH)		QTY	DIAMETER (INCH)		
	MIN	MAX	MIN	MAX		NOMINAL		
2XS-19	0.644	0.694			57	0.0320	9	M28840/26CF1AB * 1
2XSA-19	.694	.744			57	.0320	9	M28840/26CF1AB * 1
2XSO-19	.709	.765			58	.0320	9	M28840/26CF1BB * 1
2XO-24	.473	.509			49	.0210	12	M28840/26CF1AB * 1
1XSOW-30	.614	.662	0.044	0.050	61	.0320	14	M28840/26CF1AB * 1
2XSAOW-19	.757	.817	.044	.050	58	.0320	15	M28840/26CF1BB * 1
2XOW-24	.546	.588	.031	.037	49	.0210	17	M28840/26CF1AB * 1
TTXW-30	.684	.738	.051	.055	60	.0320	24	M28840/26CF1AB * 1
TTXWA-30	.734	.788	.051	.055	60	.0320	24	M28840/26CF1BB * 1
TTXOW-30	.717	.772	.051	.055	61	.0320	24	M28840/26CF1BB * 1
2XSO-14	.636	.686			43	.0320	9	M28840/26CF1AB * 1
2XSAOW-14	.689	.743	.044	.050	43	.0320	15	M28840/26CF1AB * 1

WIRING INFORMATION

INSERT	CABLE TYPE				
23-1	2XSO-14	2XS-19	2XO-24	TTKW-30	1XSOW-30
	2XSAOW-14	2XSA-19	2XOW-24	TTXWA-30	
		2XSO-19		TTXOW-30	
		2XSAOW-19			
33	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
24	1 WHT	1 WHT	1 WHT	1 WHT	SHLD
32	SHLD	SHLD	2 BLK	2 BLK	2 WHT
41	2 BLK	2 BLK	2 RED	2 RED	SHLD

FIGURE 54. Information on insert and wiring for 23-1.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
23-1	2XS0-14 2XSAOW-14	2XS-19 2XSA-19 2XS0-19 2XSAOW-19	2X0-24 2XOW-24	TTXW-30 TTXWA-30 TTXOW-30	1XSOW-30
42	2 WHT	2 WHT	3 BLK	3 BLK	3 RED
34	SHLD	SHLD	3 GRN	3 GRN	SHLD
25	3 BLK	3 BLK	4 BLK	4 BLK	4 GRN
16	3 WHT	3 WHT	4 ORN	4 ORN	SHLD
15	SHLD	SHLD	5 BLK	5 BLK	5 ORN
23	4 BLK	4 BLK	5 BLU	5 BLU	SHLD
31	4 WHT	4 WHT	6 BLK	6 BLK	6 BLU
40	SHLD	SHLD	6 BRN	6 BRN	SHLD
49	5 BLK	5 BLK	7 BLK	7 BLK	7 WHT/BLK
50	5 WHT	5 WHT	7 GRA	7 GRA	SHLD
51	SHLD	SHLD	8 BLK	8 BLK	8 RED/BLK
43	6 BLK	6 BLK	8 YEL	8 YEL	SHLD
35	6 WHT	6 WHT	9 BLK	9 BLK	9 GRN/BLK
26	SHLD	SHLD	9 PUR	9 PUR	SHLD
17	7 BLK	7 BLK	10 BLK	10 BLK	10 ORN/BLK
9	7 WHT	7 WHT	10 TAN	10 TAN	SHLD
8	SHLD	SHLD	11 BLK	11 BLK	11 BLU/BLK
7	8 BLK	8 BLK	11 PNK	11 PNK	SHLD
14	8 WHT	8 WHT	12 WHT	12 WHT	12 BLK/WHT
22	SHLD	SHLD	12 RED	12 RED	SHLD
30	9 BLK	9 BLK	13 WHT	13 WHT	13 RED/WHT
39	9 WHT	9 WHT	13 GRN	13 GRN	SHLD
48	SHLD	SHLD	14 WHT	14 WHT	14 GRN/WHT
56	10 BLK	10 BLK	14 ORN	14 ORN	SHLD
57	10 WHT	10 WHT	15 WHT	15 WHT	15 BLU/WHT
58	SHLD	SHLD	15 BLU	15 BLU	SHLD
59	11 BLK	11 BLK	16 WHT	16 WHT	16 BLK/RED
52	11 WHT	11 WHT	16 BRN	16 BRN	SHLD
44	SHLD	SHLD	17 WHT	17 WHT	17 WHT/RED
36	12 BLK	12 BLK	17 GRA	17 GRA	SHLD
27	12 WHT	12 WHT	18 WHT	18 WHT	18 ORN/RED
18	SHLD	SHLD	18 YEL	18 YEL	SHLD
10	13 BLK	13 BLK	19 WHT	19 WHT	19 BLU/RED
4	13 WHT	13 WHT	19 PUR	19 PUR	SHLD
3	SHLD	SHLD	20 WHT	20 WHT	20 RED/GRN
2	14 BLK	14 BLK	20 TAN	20 TAN	SHLD
1	14 WHT	14 WHT	21 WHT	21 WHT	21 ORN/GRN

FIGURE 54. Information on insert and wiring for 23-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>				
23-1	2XSO-14 2XSAOW-14	2XS-19 2XSA-19 2XSO-19 2XSAOW-19	2XO-24 2XOW-24	TTXW-30 TTXWA-30 TTXOW-30	1XSOW-30
6	SHLD	SHLD	21 PNK	21 PNK	SHLD
13	OVSHLD	15 BLK	22 RED	22 RED	22 BLK/WHT/RED
21	*	15 WHT	22 GRN	22 GRN	SHLD
29	*	SHLD	23 RED	23 RED	23 WHT/BLK/RED
38	*	16 BLK	23 ORN	23 ORN	SHLD
47	*	16 WHT	24 RED	24 RED	24 RED/BLK/WHT
55	*	SHLD	24 BLU	24 BLU	SHLD
61	*	17 BLK	OVSHLD	25 RED	25 GRN/BLK/WHT
62	*	17 WHT	*	25 BRN	SHLD
63	*	SHLD	*	26 RED	26 ORN/BLK/WHT
64	*	18 BLK	*	26 GRA	SHLD
60	*	18 WHT	*	27 RED	27 BLU/BLK/WHT
53	*	SHLD	*	27 YEL	SHLD
45	*	19 BLK	*	28 RED	28 BLK/RED/GRN
28	*	19 WHT	*	28 PUR	SHLD
19	*	SHLD	*	29 RED	29 WHT/RED/GRN
11	*	OVSHLD 1/	*	29 TAN	SHLD
5	*	*	*	30 RED	30 RED/BLK/GRN
12	*	*	*	30 PNK	SHLD
20	*	*	*	OVSHLD 2/	*
37	*	*	*	*	*
46	*	*	*	*	*
54	*	*	*	*	*

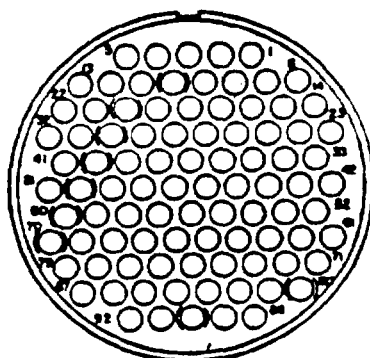
1/ OVSHLD FOR 2XSO-19 AND 2XSAOW-19 ONLY.

2/ OVSHLD FOR TTXOW-30 ONLY.

FIGURE 54. Information on insert and wiring for 23-1 - Continued.

MIL-STD-1683B (SH)

SH 1323175167



Insert 25-1
Contacts
Qty: 92
Size 20

TYPE	CABLE OUTSIDE DIAMETER		FINISHED WIRE		QTY	CONDUCTORS/SHIELDS DIAMETER		MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER	
	MIN	MAX	MIN	MAX		AWG	NOMINAL			
2XAO-40	0.796	0.858			81	22	0.0320	6	M28840/26CG1AB	* 1
2XSO-30	.869	.937			91	22	.0320	9	M28840/26CG1AB	* 1
2XS-24	.758	.818			72	22	.0320	9	M28840/26CG1AB	* 1
2XS-30	.804	.866			90	22	.0320	9	M28840/26CG1AB	* 1
2XSA-24	.808	.868			72	22	.0320	9	M28840/26CG1AB	* 1
2XSA-30	.854	.916			90	22	.0320	9	M28840/26CG1AB	* 1
2XO-42	.565	.609			85	26	.0210	12	M28840/26CG1AB	* 1
2XSAOW-24	.884	.952	0.044	0.050	73	22	.0320	15	M28840/26CG1BB	* 1
2XSAOW-30	.941	1.020	.044	.050	91	22	.0320	15	M28840/26CG1BB	* 1
2XOW-42	.646	.686	.031	.037	85	26	.0210	17	M28840/26CG1AB	* 1
TTXW-40	.790	.852	.051	.055	80	22	.0320	24	M28840/26CG1AB	* 1
TTXWA-40	.840	.902	.051	.055	80	22	.0320	24	M28840/26CG1AB	* 1
TTXOW-40	.823	.887	.051	.055	81	22	.0320	24	M28840/26CG1AB	* 1

WIRING INFORMATION

INSERT	CABLE TYPE			
25-1	2XS-24	2XSO-30	2XAO-40	2XO-42
	2XSA-24	2XS-30	TTXW-40	2XOW-42
		2XSA-30	TTXWA-40	
		2XSAOW-30	TTXOW-40	
47	1 BLK	1 BLK	1 BLK	1 BLK
37	1 WHT	1 WHT	1 WHT	1 WHT
46	SHLD	SHLD	2 BLK	2 BLK
56	2 BLK	2 BLK	2 RED	2 RED
57	2 WHT	2 WHT	3 BLK	3 BLK

FIGURE 54. Information on insert and wiring for 25-1 - Continued.

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SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
25-1	2XS-24 2XSA-24	2XSO-30 2XS-30 2XSA-30 2XSAOW-30	2XAO-40 TTXW-40 TTXWA-40 TTXOW-40	2XO-42 2XOW-42
48	SHLD	SHLD	3 GRN	3 GRN
38	3 BLK	3 BLK	4 BLK	4 BLK
28	3 WHT	3 WHT	4 ORN	4 ORN
27	SHLD	SHLD	5 BLK	5 BLK
36	4 BLK	4 BLK	5 BLU	5 BLU
45	4 WHT	4 WHT	6 BLK	6 BLK
55	SHLD	SHLD	6 BRN	6 BRN
65	5 BLK	5 BLK	7 BLK	7 BLK
66	5 WHT	5 WHT	7 GRA	7 GRA
67	SHLD	SHLD	8 BLK	8 BLK
58	6 BLK	6 BLK	8 YEL	8 YEL
49	6 WHT	6 WHT	9 BLK	9 BLK
39	SHLD	SHLD	9 PUR	9 PUR
29	7 BLK	7 BLK	10 BLK	10 BLK
19	7 WHT	7 WHT	10 TAN	10 TAN
18	SHLD	SHLD	11 BLK	11 BLK
17	8 BLK	8 BLK	11 PNK	11 PNK
26	8 WHT	8 WHT	12 WHT	12 WHT
35	SHLD	SHLD	12 RED	12 RED
44	9 BLK	9 BLK	13 WHT	13 WHT
54	9 WHT	9 WHT	13 GRN	13 GRN
64	SHLD	SHLD	14 WHT	14 WHT
74	10 BLK	10 BLK	14 ORN	14 ORN
75	10 WHT	10 WHT	15 WHT	15 WHT
76	SHLD	SHLD	15 BLU	15 BLU
77	11 BLK	11 BLK	16 WHT	16 WHT
68	11 WHT	11 WHT	16 BRN	16 BRN
59	SHLD	SHLD	17 WHT	17 WHT
50	12 BLK	12 BLK	17 GRA	17 GRA
40	12 WHT	12 WHT	18 WHT	18 WHT
30	SHLD	SHLD	18 YEL	18 YEL
20	13 BLK	13 BLK	19 WHT	19 WHT
11	13 WHT	13 WHT	19 PUR	19 PUR
10	SHLD	SHLD	20 WHT	20 WHT
9	14 BLK	14 BLK	20 TAN	20 TAN
8	14 WHT	14 WHT	21 WHT	21 WHT
16	SHLD	SHLD	21 PNK	21 PNK
25	15 BLK	15 BLK	22 RED	22 RED

FIGURE 54. Information on insert and wiring for 25-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
25-1	2XS-24 2XSA-24	2XSO-30 2XS-30 2XSA-30 2XSAOW-30	2XAO-40 TTXW-40 TTXWA-40 TTXOW-40	2XO-42 2XOW-42
34	15 WHT	15 WHT	22 GRN	22 GRN
43	SHLD	SHLD	23 RED	23 RED
53	16 BLK	16 BLK	23 ORN	23 ORN
63	16 WHT	16 WHT	24 RED	24 RED
73	SHLD	SHLD	24 BLU	24 BLU
82	17 BLK	17 BLK	25 RED	25 RED
83	17 WHT	17 WHT	25 BRN	25 BRN
84	SHLD	SHLD	26 RED	26 RED
85	18 BLK	18 BLK	26 GRA	26 TAN
86	18 WHT	18 WHT	27 RED	27 RED
78	SHLD	SHLD	27 YEL	27 YEL
69	19 BLK	19 BLK	28 RED	28 RED
60	19 WHT	19 WHT	28 PUR	28 PUR
51	SHLD	SHLD	29 RED	29 RED
41	20 BLK	20 BLK	29 TAN	29 TAN
31	20 WHT	20 WHT	30 RED	30 RED
21	SHLD	SHLD	30 PNK	30 PNK
12	21 BLK	21 BLK	31 GRN	31 GRN
5	21 WHT	21 WHT	31 ORN	31 ORN
4	SHLD	SHLD	32 GRN	32 GRN
3	22 BLK	22 BLK	32 BLU	32 BLU
2	22 WHT	22 WHT	33 GRN	33 GRN
1	SHLD	SHLD	33 BRN	33 BRN
7	23 BLK	23 BLK	34 GRN	34 GRN
15	23 WHT	23 WHT	34 GRA	34 GRA
24	SHLD	SHLD	35 GRN	35 GRN
33	24 BLK	24 BLK	35 YEL	35 YEL
42	24 WHT	24 WHT	36 GRN	36 GRN
52	SHLD	SHLD	36 PUR	36 PUR
62	*	25 BLK	37 GRN	37 GRN
72	*	25 WHT	37 TAN	37 TAN
81	*	SHLD	38 GRN	38 GRN
88	*	26 BLK	38 PNK	38 PNK
89	*	26 WHT	39 ORN	39 ORN
90	*	SHLD	39 BLU	39 BLU
91	*	27 BLK	40 ORN	40 ORN
92	*	27 WHT	40 BRN	40 BRN

FIGURE 54. Information on insert and wiring for 25-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
25-1	2XS-24	2XSO-30	2XAO-40	2XO-42
	2XSA-24	2XS-30	TTXW-40	2XOW-42
		2XSA-30	TTXWA-40	
		2XSAOW-30	TTXOW-40	
87	*	SHLD	OVSHLD <u>2/</u>	41 ORN
79	*	28 BLK	*	41 GRA
70	*	28 WHT	*	42 ORN
32	*	SHLD	*	42 YEL
22	*	29 BLK	*	*
13	*	29 WHT	*	*
6	*	SHLD	*	*
14	*	30 BLK	*	*
23	*	30 WHT	*	*
61	*	SHLD	*	*
71	*	OVSHLD <u>1/</u>	*	*
80	*	*	*	*

1/ OVSHLD FOR 2XSAOW-30 ONLY.

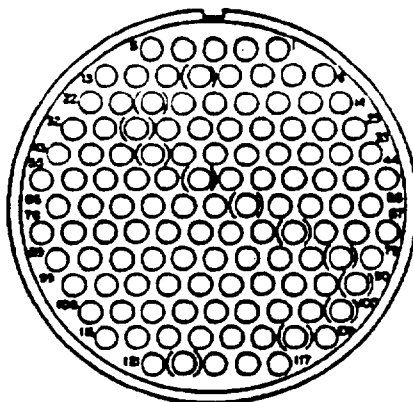
2/ OVSHLD FOR 2XAO-40 AND TTXOW-40 ONLY.

FIGURE 54. Information on insert and wiring for 25-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

SH 1323175158



Insert 29-1
Contacts
Qty: 121
Size 20

TYPE	CABLE OUTSIDE DIAMETER		CABLE FINISHED WIRE		CONDUCTORS/SHIELDS DIAMETER		MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG NOMINAL		
2XO-60	0.641	0.691			121	26 0.0210	12	M28840/26CH1AB * 1
2XSAOW-37	1.010	1.090	0.044	0.050	112	22 .0320	15	M28840/26CH1AB * 1
2XOW-60	0.744	0.802	.031	.037	121	26 .0210	17	M28840/26CH1AB * 1

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>	
29-1	2XSAOW-37	2XO-60 2XOW-60
61	1 BLK	1 BLK
49	1 WHT	1 WHT
60	SHLD	2 BLK
72	2 BLK	2 RED
73	2 WHT	3 BLK
62	SHLD	3 GRN
50	3 BLK	4 BLK
38	3 WHT	4 ORN
37	SHLD	5 BLK
48	4 BLK	5 BLU
59	4 WHT	6 BLK
71	SHLD	6 BRN
83	5 BLK	7 BLK
84	5 WHT	7 GRA
85	SHLD	8 BLK
74	6 BLK	8 YEL

FIGURE 55. Information on insert and wiring for 29-1.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
29-1	2XSAOW-37	2XO-60 2XOW-60
63	6 WHT	9 BLK
51	SHLD	9 PUR
39	7 BLK	10 BLK
28	7 WHT	10 TAN
27	SHLD	11 BLK
26	8 BLK	11 PNK
36	8 WHT	12 WHT
47	SHLD	12 RED
58	9 BLK	13 WHT
70	9 WHT	13 GRN
82	SHLD	14 WHT
93	10 BLK	14 ORN
94	10 WHT	15 WHT
95	SHLD	15 BLU
96	11 BLK	16 WHT
86	11 WHT	16 BRN
75	SHLD	17 WHT
64	12 BLK	17 GRA
52	12 WHT	18 WHT
40	SHLD	18 YEL
29	13 BLK	19 WHT
19	13 WHT	19 PUR
18	SHLD	20 WHT
17	14 BLK	20 TAN
16	14 WHT	21 WHT
25	SHLD	21 PNK
35	15 BLK	22 RED
46	15 WHT	22 GRN
57	SHLD	23 RED
69	16 BLK	23 ORN
81	16 WHT	24 RED
92	SHLD	24 BLU
102	17 BLK	25 RED
103	17 WHT	25 BRN
104	SHLD	26 RED
105	18 BLK	26 GRA
106	18 WHT	27 RED
97	SHLD	27 YEL
87	19 BLK	28 RED

FIGURE 55. Information on insert and wiring for 29-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
29-1	2XSA0W-37	2XO-60 2XOW-60
76	19 WHT	28 PUR
65	SHLD	29 RED
53	20 BLK	29 TAN
41	20 WHT	30 RED
30	SHLD	30 PNK
20	21 BLK	31 GRN
11	21 WHT	31 ORN
10	SHLD	32 GRN
9	22 BLK	32 BLU
8	22 WHT	33 GRN
7	SHLD	33 BRN
15	23 BLK	34 GRN
24	23 WHT	34 GRA
34	SHLD	35 GRN
45	24 BLK	35 YEL
56	24 WHT	36 GRN
68	SHLD	36 PUR
80	25 BLK	37 GRN
91	25 WHT	37 TAN
101	SHLD	38 GRN
110	26 BLK	38 PNK
111	26 WHT	39 ORN
112	SHLD	39 BLU
113	27 BLK	40 ORN
114	27 WHT	40 BRN
115	SHLD	41 ORN
107	28 BLK	41 GRA
98	28 WHT	42 ORN
88	SHLD	42 YEL
77	29 BLK	43 ORN
66	29 WHT	43 PUR
54	SHLD	44 ORN
42	30 BLK	44 TAN
31	30 WHT	45 ORN
21	SHLD	45 PNK
12	31 BLK	46 BLU
5	31 WHT	46 BRN
4	SHLD	47 BLU
3	32 BLK	47 GRA

FIGURE 55. Information on insert and wiring for 29-1 - Continued.

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SECTION 500

WIRING INFORMATION - Continued.

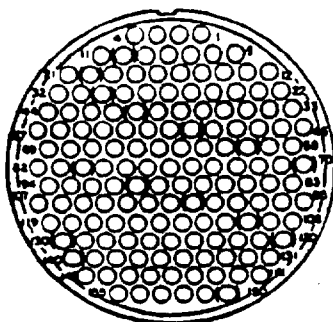
<u>INSERT</u>	<u>CABLE TYPE</u>	
29-1	2XSAOW-37	2XO-60 2XOW-60
2	32 WHT	48 BLU
1	SHLD	48 YEL
6	33 BLK	49 BLU
14	33 WHT	49 PUR
23	SHLD	50 BLU
33	34 BLK	50 TAN
44	34 WHT	51 BLU
67	SHLD	51 PNK
79	35 BLK	52 BRN
90	35 WHT	52 GRA
100	SHLD	53 BRN
109	36 BLK	53 YEL
117	36 WHT	54 BRN
118	SHLD	54 PUR
119	37 BLK	55 BRN
120	37 WHT	55 TAN
121	OVSHLD	56 BRN
116	*	56 PNK
108	*	57 GRA
99	*	57 YEL
89	*	58 GRA
78	*	58 PUR
55	*	59 GRA
43	*	59 TAN
32	*	60 GRA
22	*	60 PNK
13	*	OVSHLD

FIGURE 55. Information on insert and wiring for 29-1 - Continued.

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SECTION 500

SH 1323175159



Insert 33-1
Contacts
Qty: 155
Size 20

TYPE	CABLE OUTSIDE DIAMETER		CONDUCTORS/SHIELDS FINISHED WIRE				MIL-C- 24640/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG NOMINAL		
1XMS0-70	0.859	0.925			141	22 0.0320	7	M28840/26CJ1AB * 1
2X0-77	.728	.785			155	26 .0210	12	M28840/26CJ1AB * 1
2XOW-77	.840	.906	0.031	0.037	155	26 .0210	17	M28840/26CJ1AB * 1

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>	
33-1	1XMS0-77	2X0-77 2XOW-77
76	1 BLK	1 BLK
63	SHLD	1 WHT
75	2 WHT	2 BLK
88	SHLD	2 RED
89	3 RED	3 BLK
77	SHLD	3 GRN
64	4 GRN	4 BLK
51	SHLD	4 ORN
50	5 ORN	5 BLK
62	SHLD	5 BLU
74	6 BLU	6 BLK
87	SHLD	6 BRN

FIGURE 56. Information on insert and wiring for 33-1.

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SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
33-1	1XMS0-77	2X0-77 2X0W-77
100	7 WHT/BLK	7 BLK
101	SHLD	7 GRA
102	8 RED/BLK	8 BLK
90	SHLD	8 YEL
78	9 GRN/BLK	9 BLK
65	SHLD	9 PUR
52	10 ORN/BLK	10 BLK
39	SHLD	10 TAN
38	11 BLU/BLK	11 BLK
37	SHLD	11 PNK
49	12 BLK/WHT	12 WHT
61	SHLD	12 RED
73	13 RED/WHT	13 WHT
86	SHLD	13 GRN
99	14 GRN/WHT	14 WHT
112	SHLD	14 ORN
113	15 BLU/WHT	15 WHT
114	SHLD	15 BLU
115	16 BLK/RED	16 WHT
103	SHLD	16 BRN
91	17 WHT/RED	17 WHT
79	SHLD	17 GRA
66	18 ORN/RED	18 WHT
53	SHLD	18 YEL
40	19 BLU/RED	19 WHT
28	SHLD	19 PUR
27	20 RED/GRN	20 WHT
26	SHLD	20 TAN
25	21 ORN/GRN	21 WHT
36	SHLD	21 PNK
48	22 BLK/WHT/RED	22 RED
60	SHLD	22 GRN
72	23 WHT/BLK/RED	23 RED
85	SHLD	23 ORN
98	24 RED/BLK/WHT	24 RED
111	SHLD	24 BLU
123	25 GRN/BLK/WHT	25 RED
124	SHLD	25 BRN
125	26 ORN/BLK/WHT	26 RED

FIGURE 56. Information on insert and wiring for 33-1 - Continued.

MIL-STD-1683B(SH)

SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
33-1	1XMS0-77	2X0-77 2XOW-77
126	SHLD	26 GRA
127	27 BLU/BLK/WHT	27 RED
116	SHLD	27 YEL
104	28 BLK/RED/GRN	28 RED
92	SHLD	28 PUR
80	29 WHT/RED/GRN	29 RED
67	SHLD	29 TAN
54	30 RED/BLK/GRN	30 RED
41	SHLD	30 PNK
29	31 GRN/BLK/ORN	31 GRN
18	SHLD	31 ORN
17	32 ORN/BLK/GRN	32 GRN
16	SHLD	32 BLU
15	33 BLU/WHT/ORN	33 GRN
14	SHLD	33 BRN
24	34 BLK/WHT/ORN	34 GRN
35	SHLD	34 GRA
47	35 WHT/RED/ORN	35 GRN
59	SHLD	35 YEL
71	36 ORN/WHT/BLU	36 GRN
84	SHLD	36 PUR
97	37 WHT/RED/BLU	37 GRN
110	SHLD	37 TAN
122	38 BRN	38 GRN
133	SHLD	38 PNK
134	39 BRN/BLK	39 ORN
135	SHLD	39 BLU
136	40 BRN/BLK	40 ORN
137	SHLD	40 BRN
138	41 BRN/RED	41 ORN
128	SHLD	41 GRA
117	42 BRN/GRN	42 ORN
105	SHLD	42 YEL
83	43 BRN/ORN	43 ORN
81	SHLD	43 PUR
68	44 BRN/BLU	44 ORN
55	SHLD	44 TAN
42	45 WHT/BLK/BLU	45 ORN
30	SHLD	45 PNK

FIGURE 56. Information on insert and wiring for 33-1 - Continued.

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SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
33-1	1XMSO-77	2XO-77 2XOW-77
19	46 RED/WHT/BLU	46 BLU
10	SHLD	46 BRN
9	47 GRN/ORN/RED	47 BLU
8	SHLD	47 GRA
7	48 ORN/RED/BLU	48 BLU
6	SHLD	48 YEL
5	49 BLU/RED/ORN	49 BLU
13	SHLD	49 PUR
23	50 BLK/ORN/RED	50 BLU
34	SHLD	50 TAN
46	51 WHT/BLK/ORN	51 BLU
58	SHLD	51 PNK
70	52 RED/ORN/BLK	52 BRN
93	SHLD	52 GRA
96	53 GRN/RED/BLU	53 BRN
109	SHLD	53 YEL
121	54 ORN/BLK/BLU	54 BRN
132	SHLD	54 PUR
142	55 BLU/BLK/ORN	55 BRN
143	SHLD	55 TAN
144	56 BLK/ORN/GRN	56 BRN
145	SHLD	56 PNK
146	57 WHT/ORN/GRN	57 GRA
147	SHLD	57 YEL
148	58 RED/ORN/GRN	58 GRA
139	SHLD	58 PUR
129	59 GRN/BLK/BLU	59 GRA
118	SHLD	59 TAN
106	60 ORN/GRN/BLU	60 GRA
94	SHLD	60 PNK
82	61 BLU/GRN/ORN	*
69	SHLD	*
56	62 BLK/RED/BLU	*
43	SHLD	*
31	63 WHT/ORN/BLU	*
20	SHLD	*
11	64 RED/BLK/BLU	*
4	SHLD	*
3	65 GRN/ORN/BLU	*

FIGURE 56. Information on insert and wiring for 33-1 - Continued.

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SECTION 500

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>	
33-1	1XMS0-77	2X0-77 2XOW-77
2	SHLD	*
1	66 ORN/WHT/RED	*
12	SHLD	*
22	67 BLU/WHT/RED	*
33	SHLD	*
45	68 BLK/GRN/BLU	*
95	SHLD	*
108	69 WHT/GRN/BLU	*
120	SHLD	*
131	70 RED/GRN/BLU	*
141	SHLD	*
150	*	*
151	*	*
152	*	*
153	*	*
154	*	*
155	*	*
149	*	*
140	*	*
130	*	*
119	*	*
107	*	*
57	*	*
44	*	*
32	*	*
21	*	*

FIGURE 56. Information on insert and wiring for 33-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

TABLE XIII. MIL-C-28840 connector insert to MIL-C-24643 cable cross reference.

Insert	Cables
11-1	LSMMOP-5, LSTPNW-1-1/2, -3, LSTTOP-3, LSTTSU-1-1/2, -3, LS1SWU-2.
13-1	LSPBTMU-5, LSTPNW-5, LSTTOP-5, LSTTSU-5, LS1SMU-5, LS2SU-3, LS2SUS-3, LS2SWAU-3.
15-1	LSMU-14, LSMUS-14, LSTPNW-10, LSTTOP-10, LSTTRS-2, -4, LSTTSU-10, LS2SWAU-7, LS2U-10.
17-1	LSPBTMU-15, LSTPNW-15, LS2SU-10, LS2SUS-7, LS2U-15.
19-1	LSTPNW-20, LSTTOP-15, LSTTRS-6, LSTTSU-15, -20, LS1SWU-14, LS1S50MU-16, -20, LS1S50MUS-16, -20, LS2SU-10, -14, LS2SUS-10, LS2SWAU-10, -14, LS2U-19.
23-1	LSPBTMU-30, LSTPNW-30, LSTTRS-8, -10, -12, 16, LSTTSU-30, LS1SWU-20, -30, LS1S75MU-8, LS2SUS-19, LS2SWAU-19, LS2U-19, 30.
25-1	LSTPNW-40, LSTTSU-40, LS1SAU-44, LS1S50MU-40, LS1S50MUS-40, LS2AU-40, LS2AUS-40, LS2SU-24, -30, -45, LS2SUS-24, -30, LS2SWAU-24, 30, 40, LS2U-45, LS2UW-42.
29-1	LS1SU-60, LS2SU-37, LS2SUS-37, LS2SWAU-37, LS2U-60.
33-1	LSTTSU-50, -60, LS1SMU-70, LS1S50MU-70, LS1S50MUS-70, LS2SU-44, LS2SUS-44, LS2SWAU-44.

MIL-STD-1683B(SH)

SECTION 600

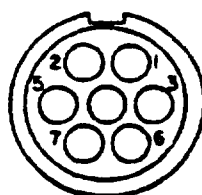
TABLE XIV. MIL-C-24643 cable to MIL-C-28840 connector insert cross-reference.

Cable	Insert	Cable	Insert	Cable	Insert
LSMMOP-5	11-1	LS1SAU-44	25-1	LS2SUS-19	23-1
LSMU 14	15-1	LS1SMU-5	13-1	LS2SUS-24	25-1
LSMUS-14	15-1	LS1SMWU-70	33-1	LS2SUS-30	25-1
LSPBTMU-5	13-1	LS1SU-60	29-1	LS2SUS-37	29-1
LSPBTMU-15	17-1	LS1SWU-2	11-1	LS2SUS-44	33-1
LSPBTMU-30	23-1	LS1SWU-14	19-1	LS2SWAU-3	13-1
LSTPNW-1-1/2	11-1	LS1SWU-20	23-1	LS2SWAU-7	15-1
LSTPNW-3	11-1	LS1SWU-30	23-1	LS2SWAU-10	19-1
LSTPNW-5	13-1			LS2SWAU-14	19-1
LSTPNW-10	15-1	LS1S50MU-16	19-1	LS2SWAU-19	23-1
LSTPNW-15	17-1	LS1S50MU-20	19-1	LS2SWAU-24	25-1
LSTPNW-20	19-1	LS1S50MU-40	25-1	LS2SWAU-30	25-1
LSTPNW-30	23-1	LS1S50MU-70	33-1	LS2SWAU-37	29-1
LSTPNW-40	25-1			LS2SWAU-40	25-1
		LS1S50MUS-16	19-1	LS2SWAU-44	33-1
LSTTOP-3	11-1	LS1S50MUS-20	19-1		
LSTTOP-5	13-1	LS1S50MUS-40	25-1	LS2U-10	15-1
LSTTOP-10	15-1	LS1S50MUS-70	33-1	LS2U-15	17-1
LSTTOP-15	19-1			LS2U-19	19-1
LSTTRS-2	15-1	LS1S75MU-8	23-1	LS2U-30	23-1
LSTTRS-4	15-1	LS2AU-40	25-1	LS2U-45	25-1
LSTTRS-6	19-1			LS2U-60	29-1
LSTTRS-8	23-1	LS2AUS-40	25-1	LS2U-19	23-1
LSTTRS-10	23-1			LS2UW-42	25-1
LSTTRS-12	23-1	LS2SU-3	13-1		
LSTTRS-16	23-1	LS2SU-10	19-1		
		LS2SU-14	19-1		
LSTTSU-1-1/2	11-1	LS2SU-24	25-1		
LSTTSU-3	11-1	LS2SU-30	25-1		
LSTTSU-5	13-1	LS2SU-37	29-1		
LSTTSU-10	15-1	LS2SU-44	33-1		
LSTTSU-15	19-1	LS2SU-45	25-1		
LSTTSU-20	19-1	LS2SUS-3	13-1		
LSTTSU-30	23-1				
LSTTSU-40	25-1	LS2SU-10	17-1		
LSTTSU-50	33-1	LS2SUS-7	17-1		
LSTTSU-60	33-1	LS2SUS-10	19-1		

MIL-STD-1683B(SH)

SECTION 600

SH 1323175160



Insert 11-1
Contacts
Qty: 7
Size 20

TYPE	CABLE		CONDUCTORS/SHIELDS		QTY	DIAMETER		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER	FINISHED WIRE	MIN	MAX		AWG	NOMINAL		
LSMMOP-5	0.282	0.305			5	24	0.0260	8	M28840/26CA1A B * 1
LSTPNW-1-1/2	.217	.235			3	22	.0320	52	M28840/26CA1A B * 1
LSTPNW-3	.287	.310			6	22	.0320	52	M28840/26CA1A B * 1
LSTTOP-3	.440	.480			6	20	.0363	12	M28840/26CA1C B * 1
LSTTSU-1-1/2	.305	.330			3	22	.0320	23	M28840/26CA1B B * 1
LSTTSU-3	.416	.450			6	22	.0320	23	M28840/26CA1C B * 1
LS1SWU-2	.430	.455			4	22	.0320	30	M28840/26CA1C B * 1

WIRING INFORMATION

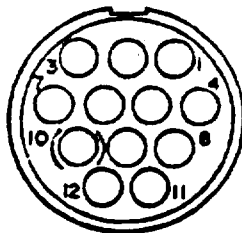
<u>INSERT</u>	<u>CABLE TYPE</u>			
11-1	LSTPNW-1-1/2 LSTTSU-1-1/2	LSTPNW-3 LSTTSU-3 LSTTOP-3	LS1SWU-2	LSMMOP-5
4	1 BLK	1 BLK	1 BLK	1 BLK
1	2 WHT	1 WHT	SHLD	2 WHT
3	*	2 BLK	2 WHT	3 RED
6	*	2 RED	SHLD	4 GRN
7	3 RED	3 BLK	*	5 ORN
5	*	3 GRN	*	*
2	*	*	*	*

FIGURE 57. Information on insert and wiring for 11-1.

MIL-STD-1683B(SH)

SECTION 600

SH 13231175161



Insert 13-1
Contacts
Qty: 12
Size 20

TYPE	CABLE		CONDUCTORS/SHIELDS		QTY	AWG	NOMINAL	MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER	FINISHED WIRE	DIAMETER	DIAMETER					
	MIN	MAX	MIN	MAX					
LSPBTMU-5	0.499	0.540			10	22	0.0320	10	M28840/26CB1C B * 1
LSTPNW-5	.338	.365			10	22	.0320	52	M28840/26CB1B B * 1
LSTTOP-5	.546	.590			10	20	.0363	12	M28840/26CB1D B * 1
LSTTSU-5	.500	.540			10	22	.0320	23	M28840/26CB1C B * 1
LS1SMU-5	.465	.500			10	22-7 1/	.0310	40	M28840/26CB1C B * 1
LS2SU-3	.480	.520			9	22-7 1/	.0310	31	M28840/26CB1C B * 1
LS2SUS-3	.540	.580			10	22-7 1/	.0310	31	M28840/26CB1C B * 1
LS2SWAU-3	.480	.520			9	22-7 1/	.0310	32	M28840/26CB1C B * 1

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>		
13-1	LSPBTMU-5 LSTPNW-5 LSTTOP-5 LSTTSU-5	LS2SU-3 LS2SUS-3 LS2SWAU-3	LS1SMU-5
9	1 BLK	1 BLK	1 BLK
6	1 WHT	1 WHT	SHLD
5	2 BLK	SHLD	2 WHT
8	2 RED	2 BLK	SHLD
11	3 BLK	2 WHT	3 RED
12	3 GRN	SHLD	SHLD
10	4 BLK	3 BLK	4 GRN
7	4 ORN	3 WHT	SHLD
3	5 BLK	SHLD	5 ORN
2	5 BLU	SHLD 2/	SHLD
1	*	*	*
4	*	*	*

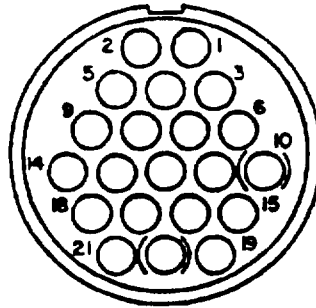
2/ SHLD FOR LS2SUS-3 ONLY.

FIGURE 58. Information on insert and wiring for 13-1.

MIL-STD-1683B(SH)

SECTION 600

SH 1323175162



Insert 15-1
Contacts
Qty: 21
Size 20

TYPE	CABLE OUTSIDE DIAMETER		FINISHED WIRE		CONDUCTORS/SHIELDS DIAMETER		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
LSMU-14	0.365	0.400			14	20-7 1/	0.0380	29 M28840/26CC1C B * 1
LSMUS-14	.425	.460			16	20-7 1/	.0380	29 M28840/26CC1C B * 1
LSTPNW-10	.435	.470			20	22	.0320	52 M28840/26CC1C B * 1
LSTTOP-10	.648	.700			20	20	.0363	12 M28840/26CC1D B * 1
LSTTRS-4	.685	.740			12	20	.0363	13 M28840/26CC1D B * 1
LSTTSU-10	.624	.675			20	22	.0320	23 M28840/26CC1D B * 1
LSTTRS-2	.629	.680			6	20	.0363	13 M28840/26CC1D B * 1
LS2SU-7	.610	.660			21	22-7 1/	.0310	31 M28840/26CC1D B * 1
LS2SWAU-7	.610	.660			21	22-7 1/	.0310	32 M28840/26CC1D B * 1
LS2U-10	.450	.480			21	26-7 1/	.0200	45 M28840/26CC1C B * 1

1/DENOTES ASTM B 286 SIZE

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>			
15-1	LS2SU-7	LSTTRS-4	LSTPNW-10	LSMU-14
	LS2SWAU-7	LSTTRS-2	LSTTOP-10	LSMUS-14
			LSTTSU-10	
			LS2U-10	
12	1 BLK	1 BLK	1 BLK	1 BLK
7	1 WHT	1 WHT	1 WHT	2 WHT
11	SHLD	SHLD	2 BLK	3 RED
16	2 BLK	2 BLK	2 RED	4 GRN
17	2 WHT	2 WHT	3 BLK	5 ORN
13	SHLD	SHLD	3 GRN	6 BLU
8	3 BLK	3 BLK 1/	4 BLK	7 WHT/BLK

FIGURE 59. Information on insert and wiring for 15-1.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
15-1	LS2SU-7 LS2SWAU-7	LSTTRS-4 LSTTRS-2	LSTPNW-10 LSTTOP-10 LSTTSU-10 LS2U-10	LSMU-14 LSMUS-14
4	3 WHT	3 WHT 1/	4 ORN	8 RED/BLK
3	SHLD	SHLD 1/	5 BLK	9 GRN/BLK
6	4 BLK	4 BLK 1/	5 BLU	10 ORN/BLK
10	4 WHT	4 WHT 1/	6 BLK	11 BLU/BLK
15	SHLD	SHLD 1/	6 BRN	12 BLK/WHT
19	5 BLK	*	7 BLK	13 RED/WHT
20	5 WHT	*	7 GRA	14 GRN/WHT
21	SHLD	*	8 BLK	SHLD 3/
18	6 BLK	*	8 YEL	*
14	6 WHT	*	9 BLK	*
9	SHLD	*	9 PUR	*
5	7 BLK	*	10 BLK	*
2	7 WHT	*	10 TAN	*
1	SHLD	*	SHLD 2/	*

1/ FOR LSTTRS-4 ONLY.

2/ SHLD FOR LS2U-10 ONLY.

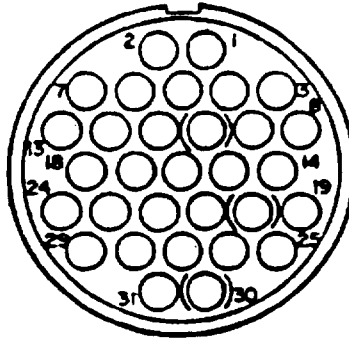
3/ SHLD FOR LSMUS-14 ONLY.

FIGURE 59. Information on insert and wiring for 15-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

SH 1323175163



Insert 17-1
 Contacts
 Qty: 31
 Size 20

TYPE	OUTSIDE DIAMETER		CABLE FINISHED WIRE		CONDUCTORS/SHIELDS		MIL-C-24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
LSPBTMU-15	0.694	0.750			30	22	0.0320	10 M28840/26CD1B B * 1
LSTPNW-15	.490	.530			30	22	.0320	52 M28840/26CD1A B * 1
LS2SU-10	.770	.830			30	22-7 1/	.0310	31 M28840/26CD1C B * 1
LS2SUS-7	.670	.720			22	22-7 1/	.0310	31 M28840/26CD1B B * 1
LS2U-15	.530	.560			31	26-7 1/	.0200	45 M28840/26CD1A B * 1

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>		
17-1	LS2SU-10	LSPBTMU-15 LSTPNW-15 LS2U-15	LS2SUS-7
16	1 BLK	1 BLK	1 BLK
10	1 WHT	1 WHT	1 WHT
15	SHLD	2 BLK	SHLD
21	2 BLK	2 RED	2 BLK
22	2 WHT	3 BLK	2 WHT
17	SHLD	3 GRN	SHLD
11	3 BLK	4 BLK	3 BLK
5	3 WHT	4 ORN	3 WHT
4	SHLD	5 BLK	SHLD
9	4 BLK	5 BLU	4 BLK
14	4 WHT	6 BLK	4 WHT
20	SHLD	6 BRN	SHLD
26	5 BLK	7 BLK	5 BLK

FIGURE 60. Information on insert and wiring for 17-1.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

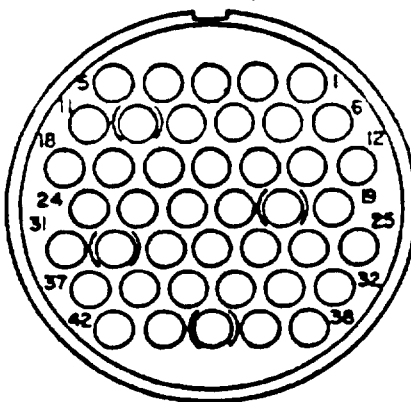
INSERT	CABLE TYPE		
17-1	LS2SU-10	LSPBTMU-15 LSTPNW-15 LS2U-15	LS2SUS-7
27	5 WHT	7 GRA	5 WHT
28	SHLD	8 BLK	SHLD
23	6 BLK	8 YEL	6 BLK
18	6 WHT	9 BLK	6 WHT
12	SHLD	9 PUR	SHLD
6	7 BLK	10 BLK	7 BLK
2	7 WHT	10 TAN	7 WHT
1	SHLD	11 BLK	SHLD
3	8 BLK	11 PNK	SHLD
8	8 WHT	12 WHT	*
19	SHLD	12 RED	*
25	9 BLK	13 WHT	*
30	9 WHT	13 GRN	*
31	SHLD	14 WHT	*
29	10 BLK	14 ORN	*
24	10 WHT	15 WHT	*
13	SHLD	15 BLU	*
7	*	SHLD 1/	*
1/ SHLD FOR LS2U-15 ONLY.			

FIGURE 60. Information on insert and wiring for 17-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

SH 1323175164



Insert 19-1
Contacts
Qty: 42
Size 20

TYPE	CABLE		CONDUCTORS/SHIELDS				MIL-C-24643/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER	FINISHED WIRE	DIAMETER					
	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
LSTPNW-20	0.532	0.575			40	22	0.0320	52 M28840/26CE1A B * 1
LSTTRS-6	.814	.880			12	20	.0363	13 M28840/26CE1B B * 1
LSTTSU-15	.740	.800			30	22	.0320	23 M28840/26CE1B B * 1
LSTTSU-20	.805	.870			40	22	.0320	23 M28840/26CE1B B * 1
LS1S50MU-16	.760	.825			32	22-7 1/	.0310	28 M28840/26CE1B B * 1
LS1S50MU-20	.835	.905			40	22-7 1/	.0310	28 M28840/26CE1B B * 1
LS1S50MUS-16	.820	.885			33	22-7 1/	.0310	28 M28840/26CE1B B * 1
LS1S50MUS-20	.895	.965			41	22-7 1/	.0310	28 M28840/26CE1B B * 1
LS2SWAU-14	.860	.930			42	22-7 1/	.0310	32 M28840/26CE1B B * 1
LS2SU-14	.860	.930			42	22-7 1/	.0310	31 M28840/26CE1B B * 1
LS2U-19	.550	.580			39	22-7 1/	.0310	45 M28840/26CE1A B * 1
LS2SWAU-10	.770	.830			30	26-7 1/	.0200	32 M28840/26CE1B B * 1
LS2SU-10	.770	.830			30	22-7 1/	.0310	31 M28840/26CE1B B * 1
LS2SUS-10	.830	.890			31	22-7 1/	.0310	31 M28840/26CE1B B * 1
LS1SWU-14	.825	.870			28	22-7 1/	.0310	30 M28840/26CE1B B * 1
LSTTOP-15	.768	.830			30	20	.0363	12 M28840/26CE1B B * 1

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATIONINSERT CABLE TYPE

INSERT	CABLE TYPE					
19-1	LS1S50MU-16	LS1S50MU-20	LSTTRS-6	LS2SU-14	LS2U-19	LSTTSU-20
	LS1S50MUS-16	LS1S50MUS-20		LS2SWAU-14		LSTPNW-20
22	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
15	SHLD	SHLD	1 WHT	1 WHT	1 WHT	1 WHT
21	2 WHT	2 WHT	SHLD	SHLD	2 BLK	2 BLK
28	SHLD	SHLD	2 BLK	2 BLK	2 RED	2 RED
29	3 RED	3 RED	2 WHT	2 WHT	3 BLK	3 BLK
23	SHLD	SHLD	SHLD	SHLD	3 GRN	3 GRN

FIGURE 61. Information on insert and wiring for 19-1.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>					
19-1	LS1S50MU-16 LS1S50MUS-16	LS1S50MU-20 LS1S50MUS-20	LSTTRS-6	LS2SU-14 LS2SWAU-14	LS2U-19	LSTTSU-20 LSTPNW-20
16	4 GRN	4 GRN	3 BLK	3 BLK	4 BLK	4 BLK
9	SHLD	SHLD	3 WHT	3 WHT	4 ORN	4 ORN
8	5 ORN	5 ORN	SHLD	SHLD	5 BLK	5 BLK
14	SHLD	SHLD	4 BLK	4 BLK	5 BLU	5 BLU
22	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK
15	SHLD	SHLD	1 WHT	1 WHT	1 WHT	1 WHT
21	2 WHT	2 WHT	SHLD	SHLD	2 BLK	2 BLK
28	SHLD	SHLD	2 BLK	2 BLK	2 RED	2 RED
29	3 RED	3 RED	2 WHT	2 WHT	3 BLK	3 BLK
23	SHLD	SHLD	SHLD	SHLD	3 GRN	3 GRN
16	4 GRN	4 GRN	3 BLK	3 BLK	4 BLK	4 BLK
9	SHLD	SHLD	3 WHT	3 WHT	4 ORN	4 ORN
8	5 ORN	5 ORN	SHLD	SHLD	5 BLK	5 BLK
14	SHLD	SHLD	4 BLK	4 BLK	5 BLU	5 BLU
20	6 BLU	6 BLU	4 WHT	4 WHT	6 BLK	6 BLK
27	SHLD	SHLD	SHLD	SHLD	6 BRN	6 BRN
34	7 WHT/BLK	7 WHT/BLK	5 BLK	5 BLK	7 BLK	7 BLK
35	SHLD	SHLD	5 WHT	5 WHT	7 GRA	7 GRA
36	8 RED/BLK	8 RED/BLK	SHLD	SHLD	8 BLK	8 BLK
30	SHLD	SHLD	6 BLK	6 BLK	8 YEL	8 YEL
24	9 GRN/BLK	9 GRN/BLK	6 WHT	6 WHT	9 BLK	9 BLK
17	SHLD	SHLD	SHLD	SHLD	9 PUR	9 PUR
10	10 ORN/BLK	10 ORN/BLK	*	7 BLK	10 BLK	10 BLK
4	SHLD	SHLD	*	7 WHT	10 TAN	10 TAN
3	11 BLU/BLK	11 BLU/BLK	*	SHLD	11 BLK	11 BLK
2	SHLD	SHLD	*	8 BLK	11 PNK	11 PNK
7	12 BLK/WHT	12 BLK/WHT	*	8 WHT	12 WHT	12 WHT
13	SHLD	SHLD	*	SHLD	12 RED	12 RED
19	13 RED/WHT	13 RED/WHT	*	9 BLK	13 WHT	13 WHT
26	SHLD	SHLD	*	9 WHT	13 GRN	13 GRN
33	14 GRN/WHT	14 GRN/WHT	*	SHLD	14 WHT	14 WHT
39	SHLD	SHLD	*	10 BLK	14 ORN	14 ORN
40	15 BLU/WHT	15 BLU/WHT	*	10 WHT	15 WHT	15 WHT
41	SHLD	SHLD	*	SHLD	15 BLU	15 BLU
42	16 BLK/RED	16 BLK/RED	*	11 BLK	16 WHT	16 WHT
37	SHLD	SHLD	*	11 WHT	16 BRN	16 BRN
31	SHLD 1/	17 WHT/RED	*	SHLD	17 WHT	17 WHT
18	*	SHLD	*	12 BLK	17 GRA	17 GRA
11	*	18 ORN/RED	*	12 WHT	18 WHT	18 WHT

FIGURE 61. Information on insert and wiring for 19-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.INSERT CABLE TYPE

5	*	SHLD	*	SHLD	18 YEL	18 YEL
1	*	19 BLU/RED	*	13 BLK	19 WHT	19 WHT
6	*	SHLD	*	13 WHT	19 PUR	19 PUR
12	*	20 RED/GRN	*	SHLD	SHLD	20 WHT
25	*	SHLD	*	14 BLK	*	20 TAN
32	*	SHLD 2/	*	14 WHT	*	*
38	*	*	*	SHLD	*	*

1/ SHLD FOR LS1S50MUS-16 ONLY.

2/ SHLD FOR LS1S50MUS-20 ONLY.

INSERTCABLE TYPE

19-1	LS1SWU-14	LS2SWAU-10 LS2SUS-10	LSTTSU-15 LSTTOP-15
22	1 BLK	1 BLK	1 BLK
15	SHLD	1 WHT	1 WHT
21	2 WHT	SHLD	2 BLK
28	SHLD	2 BLK	2 RED
29	3 RED	2 WHT	3 BLK
23	SHLD	SHLD	3 GRN
16	4 GRN	3 BLK	4 BLK
9	SHLD	3 WHT	4 ORN
8	5 ORN	SHLD	5 BLK
14	SHLD	4 BLK	5 BLU
20	6 BLU	4 WHT	6 BLK
27	SHLD	SHLD	6 BRN
34	7 WHT/BLK	5 BLK	7 BLK
35	SHLD	5 WHT	7 GRA
36	8 RED/BLK	SHLD	8 BLK
30	SHLD	6 BLK	8 YEL
24	9 GRN/BLK	6 WHT	9 BLK
17	SHLD	SHLD	9 PUR
10	10 ORN/BLK	7 BLK	10 BLK
4	SHLD	7 WHT	10 TAN
3	11 BLUE/BLK	SHLD	11 BLK
2	SHLD	8 BLK	11 PNK
7	12 BLK/WHT	8 WHT	12 WHT
13	SHLD	SHLD	12 RED
19	13 RED/WHT	9 BLK	13 WHT
26	SHLD	9 WHT	13 GRN

FIGURE 61. Information on insert and wiring for 19-1 - Continued

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>		
19-1	LS1SWU-14	LS2SWAU-10 LS2SUS-10	LSTTSU-15 LSTTOP-15
33	14 GRN/WHT	SHLD	14 WHT
39	SHLD	10 BLK	14 ORN
40	*	10 WHT	15 WHT
41	*	SHLD	15 BLU
42	*	SHLD <u>3/</u>	*
37	*	*	*
31	*	*	*
18	*	*	*
11	*	*	*
5	*	*	*
1	*	*	*
6	*	*	*
12	*	*	*
25	*	*	*
32	*	*	*
38	*	*	*

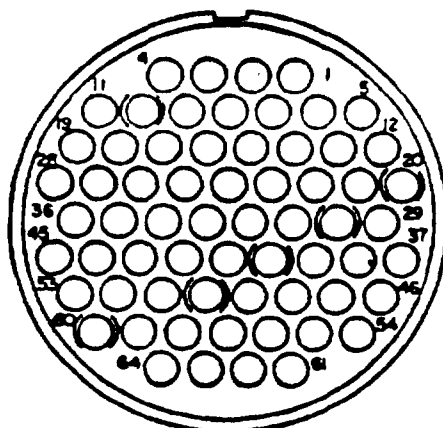
3/ SHLD FOR LS2SUS-10 ONLY.

FIGURE 61. Information on insert and wiring for 19-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

SH 1323175165



Insert 23-1
Contacts
Qty: 64
Size 20

TYPE	CABLE		CONDUCTORS/SHIELDS		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	OUTSIDE DIAMETER	FINISHED WIRE	DIAMETER			
	MIN	MAX	MIN	MAX QTY	AWG	NOMINAL
LSPBTMU-30	0.907	0.980		60	22	0.0320
LSTPNW-30	.629	.680		60	22	.0320
LSTTRS-16	1.100	1.190		48	20	.0363
LSTTSU-30	0.999	1.080		60	22	.0320
LS1SWU-30	1.135	1.200		60	22-7 1/	.0310
LS2SU-19	0.970	1.040		57	22-7 1/	.0310
LS2SUS-19	.920	0.990		58	22-7 1/	.0310
LS2SWAU-19	.970	1.040		57	22-7 1/	.0310
LS2U-30	.670	0.700		61	26-7 1/	.0200
LSTTRS-8	.916	.990		24	20	.0363
LSTTRS-10	.999	1.080		30	20	.0363
LSTTRS-12	1.017	1.100		36	20	.0363
LS1SWU-20	0.970	1.030		40	22-7 1/	.0310
LS1S75MU-8	.950	1.030		16	22-7 1/	.0310
						10
						52
						13
						23
						30
						31
						31
						32
						45
						13
						13
						13
						30
						39

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATION

INSERT	CABLE TYPE			
23-1	LS1SWU-30	LSTTRS-16	LS2SU-19 LS2WAU-19 LS2SUS-19	LSPBTMU-30 LSTTSU-30 LSTPNW-30 LS2U-30
33	1 BLK	1 BLK	1 BLK	1 BLK
24	SHLD	1 WHT	1 WHT	1 WHT

FIGURE 62. Information on insert and wiring for 23-1.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
23-1	LS1SWU-30	LSTTRS-16	LS2SU-19 LS2WAU-19 LS2SUS-19	LSPBTMU-30 LSTTSU-30 LSTPNW-30 LS2U-30
32	2 WHT	SHLD	SHLD	2 BLK
41	SHLD	2 BLK	2 BLK	2 RED
42	3 RED	2 WHT	2 WHT	3 BLK
34	SHLD	SHLD	SHLD	3 GRN
25	4 GRN	3 BLK	3 BLK	4 BLK
16	SHLD	3 WHT	3 WHT	4 ORN
15	5 ORN	SHLD	SHLD	5 BLK
23	SHLD	4 BLK	4 BLK	5 BLU
31	6 BLU	4 WHT	4 WHT	6 BLK
40	SHLD	SHLD	SHLD	6 BRN
49	7 WHT/BLK	5 BLK	5 BLK	7 BLK
50	SHLD	5 WHT	5 WHT	7 GRA
51	8 RED/BLK	SHLD	SHLD	8 BLK
43	SHLD	6 BLK	6 BLK	8 YEL
35	9 GRN/BLK	6 WHT	6 WHT	9 BLK
26	SHLD	SHLD	SHLD	9 PUR
17	10 ORN/BLK	7 BLK	7 BLK	10 BLK
9	SHLD	7 WHT	7 WHT	10 TAN
8	11 BLU/BLK	SHLD	SHLD	11 BLK
7	SHLD	8 BLK	8 BLK	11 PNK
14	12 BLK/WHT	8 WHT	8 WHT	12 WHT
22	SHLD	SHLD	SHLD	12 RED
30	13 RED/WHT	9 BLK	9 BLK	13 WHT
39	SHLD	9 WHT	9 WHT	13 GRN
48	14 GRN/WHT	SHLD	SHLD	14 WHT
56	SHLD	10 BLK	10 BLK	14 ORN
57	15 BLU/WHT	10 WHT	10 WHT	15 WH
58	SHLD	SHLD	SHLD	15 BLU
59	16 BLK/RED	11 BLK	11 BLK	16 WHT
52	SHLD	11 WHT	11 WHT	16 BRN
44	17 WHT/RED	SHLD	SHLD	17 WHT
36	SHLD	12 BLK	12 BLK	17 GRA
27	18 ORN/RED	12 WHT	12 WHT	18 WHT
18	SHLD	SHLD	SHLD	18 YEL
10	19 BLU/RED	13 BLK	13 BLK	19 WHT
4	SHLD	13 WHT	13 WHT	19 PUR
3	20 RED/GRN	SHLD	SHLD	20 WHT

FIGURE 62. Information on insert and wiring for 23-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
23-1	LS1SWU-30	LSTTRS-16	LS2SU-19 LS2WAU-19 LS2SUS-19	LSPBTMU-30 LSTTSU-30 LSTPNW-30 LS2U-30
2	SHLD	14 BLK	14 BLK	20 TAN
1	21 ORN/GRN	14 WHT	14 WHT	21 WHT
6	SHLD	SHLD	SHLD	21 PNK
13	22 BLK/WHT/RED	15 BLK	15 BLK	22 RED
21	SHLD	15 WHT	15 WHT	22 GRN
29	23 WHT/BLK/RED	SHLD	SHLD	23 RED
38	SHLD	16 BLK	16 BLK	23 ORN
47	24 RED/BLK/WHT	16 WHT	16 WHT	24 RED
55	SHLD	SHLD	SHLD	24 BLU
61	25 GRN/BLK/WHT	*	17 BLK	25 RED
62	SHLD	*	17 WHT	25 BRN
63	26 ORN/BLK/WHT	*	SHLD	26 RED
64	SHLD	*	18 BLK	26 GRA
60	27 BLU/BLK/WHT	*	18 WHT	27 RED
53	SHLD	*	SHLD	27 YEL
45	28 BLK/RED/GRN	*	19 BLK	28 RED
28	SHLD	*	19 WHT	28 PUR
19	29 WHT/RED/GRN	*	SHLD	29 RED
11	SHLD	*	SHLD 1/	29 TAN
5	30 RED/BLK/GRN	*	*	30 RED
12	SHLD	*	*	30 PNK
20	*	*	*	SHLD 2/
37	*	*	*	*
46	*	*	*	*
54	*	*	*	*
1/ SHLD FOR LS2SUS-19 ONLY.				
2/ SHLD FOR LS2U-30 ONLY.				

FIGURE 62. Information on insert and wiring for 23-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
23-1	LS1S75MU-8	LSTTRS-8	LSTTRS-12 LSTTRS-10	LS1SWU-20
33	1 BLK	1 BLK	1 BLK	1 BLK
24	SHLD	1 WHT	1 WHT	SHLD
32	2 WHT	SHLD	SHLD	2 WHT
41	SHLD	2 BLK	2 BLK	SHLD
42	3 RED	2 WHT	2 WHT	3 RED
34	SHLD	SHLD	SHLD	SHLD
25	4 GRN	3 BLK	3 BLK	4 GRN
16	SHLD	3 WHT	3 WHT	SHLD
15	5 ORN	SHLD	SHLD	5 ORN
23	SHLD	4 BLK	4 BLK	SHLD
31	6 BLU	4 WHT	4 WHT	6 BLU
40	SHLD	SHLD	SHLD	SHLD
49	7 WHT/BLK	5 BLK	5 BLK	7 WHT/BLK
50	SHLD	5 WHT	5 WHT	SHLD
51	8 RED/BLK	SHLD	SHLD	8 RED/BLK
43	SHLD	6 BLK	6 BLK	SHLD
35	*	6 WHT	6 WHT	9 GRN/BLK
26	*	SHLD	SHLD	SHLD
17	*	7 BLK	7 BLK	10 ORN/BLK
9	*	7 WHT	7 WHT	SHLD
8	*	SHLD	SHLD	11 BLU/BLK
7	*	8 BLK	8 BLK	SHLD
14	*	8 WHT	8 WHT	12 BLK/WHT
22	*	SHLD	SHLD	SHLD
30	*	9 BLK 1/	9 BLK	13 RED/WHT
39	*	9 WHT 1/	9 WHT	SHLD
48	*	10 BLK 1/	SHLD	14 GRN/WHT
56	*	10 WHT 1/	10 BLK	SHLD
57	*	SHLD 1/	10 WHT	15 BLU/WHT
58	*	*	SHLD	SHLD
59	*	*	11 BLK	16 BLK/RED
52	*	*	11 WHT	SHLD
44	*	*	SHLD	17 WHT/RED
36	*	*	12 BLK	SHLD
27	*	*	12 WHT	18 ORN/RED
18	*	*	SHLD	SHLD
10	*	*	*	19 BLU/RED
4	*	*	*	SHLD
3	*	*	*	20 RED/GRN

FIGURE 62. Information on insert and wiring for 23-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
23-1	LS1S75MU-8	LSTTRS-8 LSTTRS-10	LSTTRS-12	LS1SWU-20
2	*	*	*	SHLD
1	*	*	*	*
6	*	*	*	*
13	*	*	*	*
21	*	*	*	*
29	*	*	*	*
38	*	*	*	*
47	*	*	*	*
55	*	*	*	*
61	*	*	*	*
62	*	*	*	*
63	*	*	*	*
64	*	*	*	*
60	*	*	*	*
53	*	*	*	*
45	*	*	*	*
28	*	*	*	*
19	*	*	*	*
11	*	*	*	*
5	*	*	*	*
12	*	*	*	*
20	*	*	*	*
37	*	*	*	*
46	*	*	*	*
54	*	*	*	*

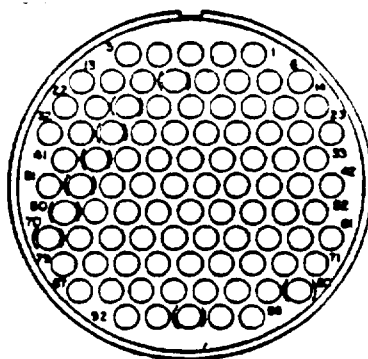
1/ FOR LSTTRS-10 ONLY.

FIGURE 62. Information on insert and wiring for 23-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

SH 1323175166



Insert 25-1
Contacts
Qty: 92
Size 20

OUTSIDE DIAMETER	CABLE		CONDUCTORS/SHIELDS				MIL-C- 24643/	CONNECTOR
	MIN	MAX	FINISHED WIRE		DIAMETER	MILITARY PART NUMBER		
TYPE	MIN	MAX	MIN	MAX	QTY	AWG	NOMINAL	
LSTPNW-40	0.708	0.765			80	22	0.0320	52 M28840/26CG1A B * 1
LSTTSU-40	1.110	1.200			80	22	.0320	23 M28840/26CG1D B * 1
LS1SAU-44	0.910	0.990			88	20-7 1/	.0380	41 M28840/26CG1B B * 1
LS1S50MU-40	1.095	1.185			80	22-7 1/	.0310	28 M28840/26CG1C B * 1
LS1S50MUS-40	1.155	1.245			81	22-7 1/	.0310	28 M28840/26CG1C B * 1
LS2AU-40	1.320	1.370			81	22-7 1/	.0310	27 M28840/26CG1D B * 1
LS2AUS-40	1.380	1.430			82	22-7 1/	.0310	27 M28840/26CG1D B * 1
LS2SU-24	1.120	1.210			72	22-7 1/	.0310	31 M28840/26CG1D B * 1
LS2SU-30	1.190	1.280			90	22-7 1/	.0310	31 M28840/26CG1D B * 1
LS2SUS-24	1.180	1.270			73	22-7 1/	.0310	31 M28840/26CG1D B * 1
LS2SUS-30	1.250	1.340			91	22-7 1/	.0310	31 M28840/26CG1D B * 1
LS2SWAU-24	1.120	1.210			72	22-7 1/	.0310	32 M28840/26CG1D B * 1
LS2SWAU-30	1.190	1.280			90	22-7 1/	.0310	32 M28840/26CG1D B * 1
LS2U-45	0.830	0.870			91	26-7 1/	.0200	45 M28840/26CG1A B * 1
LS2SU-45	.880	.920			90	26-7 1/	.0200	45 M28840/26CG1A B * 1
LS2UW-42	.750	.790			85	26-7 1/	.0200	57 M28840/26CG1A B * 1
LS2WAU-40	1.320	1.370			81	22-7 1/	.0310	46 M28840/26CG1D B * 1

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATIONINSERT CABLE TYPE

25-1	LS1S50MU-40	LS1SAU-44	LS2SWAU-24 LS2SU-24	LS2SWAU-30 LS2SU-30	LS2WAU-40 LS2AU-40 LSTTSU-40 LSTPNW-40	LS2UW-42 LS2U-45
47	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK	1 BLK

FIGURE 63. Information on insert and wiring for 25-1.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>					
25-1	LS1S50MU-40	LS1SAU-44	LS2SWAU-24 LS2SU-24	LS2SWAU-30 LS2SU-30	LS2WAU-40 LS2AU-40 LSTTSU-40 LSTPNW-40	LS2UW-42 LS2U-45
37	SHLD	SHLD	1 WHT	1 WHT	1 WHT	1 WHT
46	2 WHT	2 WHT	SHLD	SHLD	2 BLK	2 BLK
56	SHLD	SHLD	2 BLK	2 BLK	2 RED	2 RED
57	3 RED	3 RED	2 WHT	2 WHT	3 BLK	3 BLK
48	SHLD	SHLD	SHLD	SHLD	3 GRN	3 GRN
38	4 GRN	4 GRN	3 BLK	3 BLK	4 BLK	4 BLK
28	SHLD	SHLD	3 WHT	3 WHT	4 ORN	4 ORN
27	5 ORN	5 ORN	SHLD	SHLD	5 BLK	5 BLK
36	SHLD	SHLD	4 BLK	4 BLK	5 BLU	5 BLU
45	6 BLU	6 BLU	4 WHT	4 WHT	6 BLK	6 BLK
55	SHLD	SHLD	SHLD	SHLD	6 BRN	6 BRN
65	7 WHT/BLK	7 WHT/BLK	5 BLK	5 BLK	7 BLK	7 BLK
66	SHLD	SHLD	5 WHT	5 WHT	7 GRA	7 GRA
67	8 RED/BLK	8 RED/BLK	SHLD	SHLD	8 BLK	8 BLK
58	SHLD	SHLD	6 BLK	6 BLK	8 YEL	8 YEL
49	9 GRN/BLK	9 GRN/BLK	6 WHT	6 WHT	9 BLK	9 BLK
39	SHLD	SHLD	SHLD	SHLD	9 PUR	9 PUR
29	10 ORN/BLK	10 ORN/BLK	7 BLK	7 BLK	10 BLK	10 BLK
19	SHLD	SHLD	7 WHT	7 WHT	10 TAN	10 TAN
18	11 BLU/BLK	11 BLU/BLK	SHLD	SHLD	11 BLK	11 BLK
17	SHLD	SHLD	8 BLK	8 BLK	11 PNK	11 PNK
26	12 BLK/WHT	12 BLK/WHT	8 WHT	8 WHT	12 WHT	12 WHT
35	SHLD	SHLD	SHLD	SHLD	12 RED	12 RED
44	13 RED/WHT	13 RED/WHT	9 BLK	9 BLK	13 WHT	13 WHT
54	SHLD	SHLD	9 WHT	9 WHT	13 GRN	13 GRN
64	14 GRN/WHT	14 GRN/WHT	SHLD	SHLD	14 WHT	14 WHT
74	SHLD	SHLD	10 BLK	10 BLK	14 ORN	14 ORN
75	15 BLU/WHT	15 BLU/WHT	10 WHT	10 WHT	15 WHT	15 WHT
76	SHLD	SHLD	SHLD	SHLD	15 BLU	15 BLU
77	16 BLK/RED	16 BLK/RED	11 BLK	11 BLK	16 WHT	16 WHT
68	SHLD	SHLD	11 WHT	11 WHT	16 BRN	16 BRN
59	17 WHT/RED	17 WHT/RED	SHLD	SHLD	17 WHT	17 WHT
50	SHLD	SHLD	12 BLK	12 BLK	17 GRA	17 GRA
40	18 ORN/RED	18 ORN/RED	12 WHT	12 WHT	18 WHT	18 WHT
30	SHLD	SHLD	SHLD	SHLD	18 YEL	18 YEL
20	19 BLU/RED	19 BLU/RED	13 BLK	13 BLK	19 WHT	19 WHT
11	SHLD	SHLD	13 WHT	13 WHT	19 PUR	19 PUR

FIGURE 63. Information on insert and wiring for 25-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.INSERT CABLE TYPE

25-1	LS1S50MU-40	LS1SAU-44	LS2SWAU-24 LS2SU-24	LS2SWAU-30 LS2SU-30	LS2WAU-40 LS2AU-40 LSTTSU-40 LSTPNW-40	LS2UW-42 LS2U-45
10	20 RED/GRN	20 RED/GRN	SHLD	SHLD	20 WHT	20 WHT
9	SHLD	SHLD	14 BLK	14 BLK	20 TAN	20 TAN
8	21 ORN/GRN	21 ORN/GRN	14 WHT	14 WHT	21 WHT	21 WHT
16	SHLD	SHLD	SHLD	SHLD	21 PNK	21 PNK
25	22 BLK/WHT/RED	22 BLK/WHT/RED	15 BLK	15 BLK	22 RED	22 RED
34	SHLD	SHLD	15 WHT	15 WHT	22 GRN	22 GRN
43	23 WHT/BLK/RED	23 WHT/BLK/RED	SHLD	SHLD	23 RED	23 RED
53	SHLD	SHLD	16 BLK	16 BLK	23 ORN	23 ORN
63	24 RED/BLK/WHT	24 RED/BLK/WHT	16 WHT	16 WHT	24 RED	24 RED
73	SHLD	SHLD	SHLD	SHLD	24 BLU	24 BLU
82	25 GRN/BLK/WHT	25 GRN/BLK/WHT	17 BLK	17 BLK	25 RED	25 RED
83	SHLD	SHLD	17 WHT	17 WHT	25 BRN	25 BRN
84	26 ORN/BLK/WHT	26 ORN/BLK/WHT	SHLD	SHLD	26 RED	26 RED
85	SHLD	SHLD	18 BLK	18 BLK	26 GRN	26 TAN
86	27 BLU/BLK/WHT	27 BLU/BLK/WHT	18 WHT	18 WHT	27 RED	27 RED
78	SHLD	SHLD	SHLD	SHLD	27 YEL	27 YEL
69	28 BLK/RED/GRN	28 BLK/WHT/GRN	19 BLK	19 BLK	28 RED	28 RED
60	SHLD	SHLD	19 WHT	19 WHT	28 PUR	28 PUR
51	29 WHT/RED/GRN	29 WHT/RED/GRN	SHLD	SHLD	29 RED	29 RED
41	SHLD	SHLD	20 BLK	20 BLK	29 TAN	29 TAN
31	30 RED/BLK/GRN	30 RED/BLK/GRN	20 WHT	20 WHT	30 RED	30 RED
21	SHLD	SHLD	SHLD	SHLD	30 PNK	30 PNK
12	31 GRN/BLK/ORN	31 GRN/BLK/ORN	21 BLK	21 BLK	31 GRN	31 GRN
5	SHLD	SHLD	21 WHT	21 WHT	31 ORN	31 ORN
4	32 ORN/BLK/GRN	32 ORN/BLK/GRN	SHLD	SHLD	32 GRN	32 GRN
3	SHLD	SHLD	22 BLK	22 BLK	32 BLU	32 BLU
2	33 BLU/WHT/ORN	33 BLU/WHT/ORN	22 WHT	22 WHT	33 GRN	33 GRN
1	SHLD	SHLD	SHLD	SHLD	33 BRN	33 BRN
7	34 BLK/WHT/ORN	34 BLK/WHT/ORN	23 BLK	23 BLK	34 GRN	34 GRN
15	SHLD	SHLD	23 WHT	23 WHT	34 GRA	34 GRA
24	35 WHT/RED/ORN	35 WHT/RED/ORN	SHLD	SHLD	35 GRN	35 GRN
33	SHLD	SHLD	24 BLK	24 BLK	35 YEL	35 YEL
42	36 ORN/WHT/BLU	36 ORN/WHT/BLU	24 WHT	24 WHT	36 GRN	36 GRN
52	SHLD	SHLD	SHLD	SHLD	36 PUR	36 PUR
62	37 WHT/RED/BLU	37 WHT/RED/BLU	*	25 BLK	37 GRN	37 GRN
72	SHLD	SHLD	*	25 WHT	37 TAN	37 TAN
81	38 BRN	38 BRN	*	SHLD	38 GRN	38 GRN
88	SHLD	SHLD	*	26 BLK	38 PNK	38 PNK

FIGURE 63. Information on insert and wiring for 25-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.INSERT CABLE TYPE

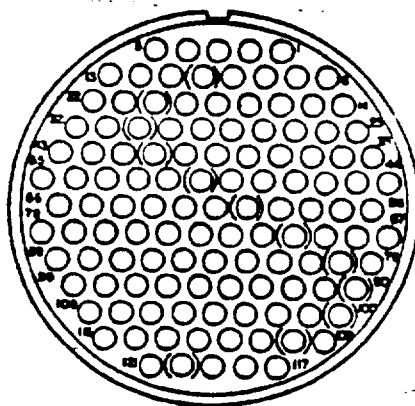
25-1	LS1S50MU-40	LS1SAU-44	LS2SWAU-24	LS2SWAU-30	LS2WAU-40	LS2UW-42
			LS2SU-24	LS2SU-30	LS2AU-40	LS2U-45
					LSTTSU-40	
					LSTPNW-40	
89	39 BRN/BLK	39 BRN/BLK	*	26 WHI	39 ORN	39 ORN
90	SHLD	SHLD	*	SHLD	39 BLU	39 BLU
91	40 BRN/WHI	40 BRN/WHI	*	27 BLK	40 ORN	40 ORN
92	SHLD	SHLD	*	27 WHI	40 BRN	40 BRN
87	*	41 BRN/RED	*	SHLD	*	41 ORN
79	*	SHLD	*	28 BLK	*	41 GRA
70	*	42 BRN/GRN	*	28 WHI	*	42 ORN
32	*	SHLD	*	SHLD	*	42 YEL
22	*	43 BRN/ORN	*	29 BLK	*	43 ORN 1/
13	*	SHLD	*	29 WHI	*	43 PUR 1/
6	*	44 BRN/BLU	*	SHLD	*	44 ORN 1/
14	*	SHLD	*	30 BLK	*	44 TAN 1/
23	*	*	*	30 WHI	*	45 ORN 1/
61	*	*	*	SHLD	*	45 PNK 1/
71	*	*	*	*	*	SHLD 1/
80	*	*	*	*	*	

1/ FOR LS2U-45 ONLY.

FIGURE 63. Information on insert and wiring for 25-1 - Continued.

MIL-STD-1683B(SH)

SH 13232057



Insert 29-1
Contacts
Qty: 121
Size 20

TYPE	OUTSIDE DIAMETER		CABLE FINISHED WIRE		QTY	CONDUCTORS/SHIELDS DIAMETER		MIL-C-24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
LS1SU-60	1.210	1.310			120	20-7 1/	0.0380	42	M28840/26CH1B B * 1
LS2SU-37	1.290	1.380			111	22-7 1/	.0310	31	M28840/26CH1B B * 1
LS2SU-37	1.147	1.240			111	22-7 1/	.0310	31	M28840/26CH1B B * 1
LS2US-37	1.350	1.440			112	22-7 1/	.0310	31	M28840/26CH1B B * 1
LS2SWAU-37	1.290	1.380			111	22-7 1/	.0310	32	M28840/26CH1B B * 1
LS2U-60	0.920	0.960			121	26-7 1/	.0200	45	M28840/26CH1A B * 1

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>		
29-1	LS1SU-60	LS2SWAU-37 LS2SU-37	LS2U-60
61	1 BLK	1 BLK	1 BLK
49	SHLD	1 WHT	1 WHT
60	2 WHT	SHLD	2 BLK
72	SHLD	2 BLK	2 RED
73	3 RED	2 WHT	3 BLK
62	SHLD	SHLD	3 GRN
50	4 GRN	3 BLK	4 BLK
38	SHLD	3 WHT	4 ORN
37	5 ORN	SHLD	5 BLK
48	SHLD	4 BLK	5 BLU
59	6 BLU	4 WHT	6 BLK

FIGURE 64. Information on insert and wiring for 29-1.

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SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>		
29-1	LS1SU-60	LS2SWAU-37 LS2SU-37	LS2U-60
71	SHLD	SHLD	6 BRN
83	7 WHT/BLK	5 BLK	7 BLK
84	SHLD	5 WHT	7 GRA
85	8 RED/BLK	SHLD	8 BLK
74	SHLD	6 BLK	8 YEL
63	9 GRN/BLK	6 WHT	9 BLK
51	SHLD	SHLD	9 PUR
39	10 ORN/BLK	7 BLK	10 BLK
28	SHLD	7 WHT	10 TAN
27	11 BLU/BLK	SHLD	11 BLK
26	SHLD	8 BLK	11 PNK
36	12 BLK/WHT	8 WHT	12 WHT
47	SHLD	SHLD	12 RED
58	13 RED/WHT	9 BLK	13 WHT
70	SHLD	9 WHT	13 GRN
82	14 GRN/WHT	SHLD	14 WHT
93	SHLD	10 BLK	14 ORN
94	15 BLU/WHT	10 WHT	15 WHT
95	SHLD	SHLD	15 BLU
96	16 BLK/RED	11 BLK	16 WHT
86	SHLD	11 WHT	16 BRN
75	17 WHT/RED	SHLD	17 WHT
64	SHLD	12 BLK	17 GRA
52	18 ORN/RED	12 WHT	18 WHT
40	SHLD	SHLD	18 YEL
29	19 BLU/RED	13 BLK	19 WHT
19	SHLD	13 WHT	19 PUR
18	20 RED/GRN	SHLD	20 WHT
17	SHLD	14 BLK	20 TAN
16	21 ORN/GRN	14 WHT	21 WHT
25	SHLD	SHLD	21 PNK
35	22 BLK/WHT/RED	15 BLK	22 RED
46	SHLD	15 WHT	22 GRN
57	23 WHT/BLK/RED	SHLD	23 RED
69	SHLD	16 BLK	23 ORN
81	24 RED/BLK/WHT	16 WHT	24 RED
92	SHLD	SHLD	24 BLU
102	25 GRN/BLK/WHT	17 BLK	25 RED
103	SHLD	17 WHT	25 BRN

FIGURE 64. Information on insert and wiring for 29-1 - Continued.

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SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>		
29-1	LS1SU-60	LS2SWAU-37 LS2SU-37	LS2U-60
104	26 ORN/BLK/WHT	SHLD	26 RED
105	SHLD	18 BLK	26 GRA
106	27 BLU/BLK/WHT	18 WHT	27 RED
97	SHLD	SHLD	27 YEL
87	28 BLK/RED/GRN	19 BLK	28 RED
76	SHLD	19 WHT	28 PUR
65	29 WHT/RED/GRN	SHLD	29 RED
53	SHLD	20 BLK	29 TAN
41	30 RED/BLK/GRN	20 WHT	30 RED
30	SHLD	SHLD	30 PNK
20	31 GRN/BLK/ORN	21 BLK	31 GRN
11	SHLD	21 WHT	31 ORN
10	32 ORN/BLK/GRN	SHLD	32 GRN
9	SHLD	22 BLK	32 BLU
8	33 BLU/WHT/ORN	22 WHT	33 GRN
7	SHLD	SHLD	33 BRN
15	34 BLK/WHT/ORN	23 BLK	34 GRN
24	SHLD	23 WHT	34 GRA
34	35 WHT/RED/ORN	SHLD	35 GRN
45	SHLD	24 BLK	35 YEL
56	36 ORN/WHT/BLU	24 WHT	36 GRN
68	SHLD	SHLD	36 PUR
80	37 WHT/RED/BLU	25 BLK	37 GRN
91	SHLD	25 WHT	37 TAN
101	38 BRN	SHLD	38 GRN
110	SHLD	26 BLK	38 PNK
111	39 BRN/BLK	26 WHT	39 ORN
112	SHLD	SHLD	39 BLU
113	40 BRN/WHT	27 BLK	40 ORN
114	SHLD	27 WHT	40 BRN
115	41 BRN/RED	SHLD	41 ORN
107	SHLD	28 BLK	41 GRA
98	42 BRN/GRN	28 WHT	42 ORN
88	SHLD	SHLD	42 YEL
77	43 BRN/ORN	29 BLK	43 ORN
66	SHLD	29 WHT	43 PUR
54	44 BRN/BLU	SHLD	44 ORN
42	SHLD	30 BLK	44 TAN
31	45 WHT/BLK/BLU	30 WHT	45 ORN

FIGURE 64. Information on insert and wiring for 29-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

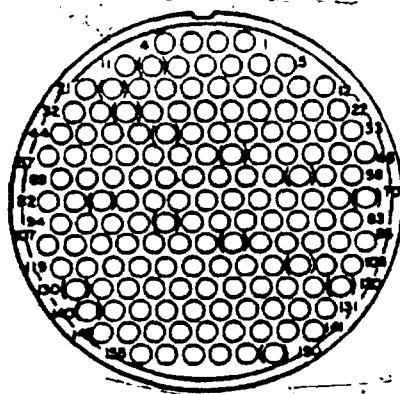
<u>INSERT</u>	<u>CABLE TYPE</u>		
29-1	LS1SU-60	LS2SWAU-37 LS2SU-37	LS2U-60
21	SHLD	SHLD	45 PNK
12	46 RED/WHT/BLU	31 BLK	46 BLU
5	SHLD	31 WHT	46 BRN
4	47 GRN/ORN/RED	SHLD	47 BLU
3	SHLD	32 BLK	47 GRA
2	48 ORN/RED/BLU	32 WHT	48 BLU
1	SHLD	SHLD	48 YEL
6	49 BLU/RED/ORN	33 BLK	49 BLU
14	SHLD	33 WHT	49 PUR
23	50 BLK/ORN/RED	SHLD	50 BLU
33	SHLD	34 BLK	50 TAN
44	51 WHT/BLK/ORN	34 WHT	51 BLU
67	SHLD	SHLD	51 PNK
79	52 RED/ORN/BLK	35 BLK	52 BRN
90	SHLD	35 WHT	52 GRA
100	53 GRN/RED/BLU	SHLD	53 BRN
109	SHLD	36 BLK	53 YEL
117	54 ORN/BLK/BLU	36 WHT	54 BRN
118	SHLD	SHLD	54 PUR
119	55 BLU/BLK/ORN	37 BLK	55 BRN
120	SHLD	37 WHT	55 TAN
121	56 BLK/ORN/GRN	SHLD	56 BRN
116	SHLD	*	56 PNK
108	57 WHT/ORN/GRN	*	57 GRA
99	SHLD	*	57 YEL
89	58 RED/ORN/GRN	*	58 GRA
78	SHLD	*	58 PUR
55	59 GRN/BLK/BLU	*	59 GRA
43	SHLD	*	59 TAN
32	60 ORN/GRN/BLU	*	60 GRA
22	SHLD	*	60 PNK
13	*	*	SHLD

FIGURE 64. Information on insert and wiring for 29-1 - Continued.

MIL-STD-1683B (SH)

SECTION 600

SH 132317566



Insert 33-1
Contacts
Qty: 155
Size 20

TYPE	CABLE OUTSIDE DIAMETER		CONDUCTORS/SHIELDS FINISHED WIRE		QTY	DIAMETER		MIL-C- 24643/	CONNECTOR MILITARY PART NUMBER
	MIN	MAX	MIN	MAX		AWG	NOMINAL		
LS1SMU-70	1.465	1.555			140	22-7 1/	0.0310	47	M28840/26CJ1B B * 1
LS1S50MU-70	1.465	1.555			140	22-7 1/	.0310	28	M28840/26CJ1B B * 1
LS1S50MUS-70	1.525	1.615			141	22-7 1/	.0310	28	M28840/26CJ1B B * 1
LS2SU-44	1.460	1.550			132	22-7 1/	.0310	31	M28840/26CJ1B B * 1
LS2SUS-44	1.520	1.610			133	22-7 1/	.0310	31	M28840/26CJ1B B * 1
LS2WAU-44	1.460	1.550			132	22-7 1/	.0310	32	M28840/26CJ1B B * 1
LSTTSU-50	1.295	1.400			100	22	.0320	23	M28840/26CJ1B B * 1
LSTTSU-60	1.341	1.450			120	22	.0320	23	M28840/26CJ1B B * 1

1/ DENOTES ASTM B 286 SIZE

WIRING INFORMATION

<u>INSERT</u>	<u>CABLE TYPE</u>			
33-1	LS1SWU-70 LS1S50MU-70 LS1S50MUS-70	LSTTSU-50	LS2SWAU-44 LS2SU-44 LS2SUS-44	LSTTSU-60
76	1 BLK	1 BLK	1 BLK	1 BLK
63	SHLD	1 WHT	1 WHT	1 WHT
75	2 WHT	2 BLK	SHLD	2 BLK
88	SHLD	2 RED	2 BLK	2 RED
89	3 RED	3 BLK	2 WHT	3 BLK

FIGURE 65. Information on insert and wiring for 33-1.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
33-1	LS1SWU-70 LS1S50MU-70 LS1S50MUS-70	LSTTSU-50	LS2SWAU-44 LS2SU-44 LS2SUS-44	LSTTSU-60
77	SHLD	3 GRN	SHLD	3 GRN
64	4 GRN	4 BLK	3 BLK	4 BLK
51	SHLD	4 ORN	3 WHT	4 ORN
50	5 ORN	5 BLK	SHLD	5 BLK
62	SHLD	5 BLU	4 BLK	5 BLU
74	6 BLU	6 BLK	4 WHT	6 BLK
87	SHLD	6 BRN	SHLD	6 BRN
100	7 WHT/BLK	7 BLK	5 BLK	7 BLK
101	SHLD	7 GRA	5 WHT	7 GRA
102	8 RED/BLK	8 BLK	SHLD	8 BLK
90	SHLD	8 YEL	6 BLK	8 YEL
78	9 GRN/BLK	9 BLK	6 WHT	9 BLK
65	SHLD	9 PUR	SHLD	9 PUR
52	10 ORN/BLK	10 BLK	7 BLK	10 BLK
39	SHLD	10 TAN	7 WHT	10 TAN
38	11 BLU/BLK	11 BLK	SHLD	11 BLK
37	SHLD	11 PNK	8 BLK	11 PNK
49	12 BLK/WHT	12 WHT	8 WHT	12 WHT
61	SHLD	12 RED	SHLD	12 RED
73	13 RED/WHT	13 WHT	9 BLK	13 WHT
86	SHLD	13 GRN	9 WHT	13 GRN
99	14 GRN/WHT	14 WHT	SHLD	14 WHT
112	SHLD	14 ORN	10 BLK	14 ORN
113	15 BLU/WHT	15 WHT	10 WHT	15 WHT
114	SHLD	15 BLU	SHLD	15 BLU
115	16 BLK/RED	16 WHT	11 BLK	16 WHT
103	SHLD	16 BRN	11 WHT	16 BRN
91	17 WHT/RED	17 WHT	SHLD	17 WHT
79	SHLD	17 GRA	12 BLK	17 GRA
66	18 ORN/RED	18 WHT	12 WHT	18 WHT
53	SHLD	18 YEL	SHLD	18 YEL
40	19 BLU/RED	19 WHT	13 BLK	19 WHT
28	SHLD	19 PUR	13 WHT	19 PUR
27	20 RED/GRN	20 WHT	SHLD	20 WHT
26	SHLD	20 TAN	14 BLK	20 TAN
25	21 ORN/GRN	21 WHT	14 WHT	21 WHT
36	SHLD	21 PNK	SHLD	21 PNK
48	22 BLK/WHT/RED	22 RED	15 BLK	22 RED

FIGURE 65. Information on insert and wiring for 33-1 - Continued.

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SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
33-1	LS1SWU-70 LS1S50MU-70 LS1S50MUS-70	LSTTSU-50	LS2SWAU-44 LS2SU-44 LS2SUS-44	LSTTSU-60
60	SHLD	22 GRN	15 WHT	22 GRN
72	23 WHT/BLK/RED	23 RED	SHLD	23 RED
85	SHLD	23 ORN	16 BLK	23 ORN
98	24 RED/BLK/WHT	24 RED	16 WHT	24 RED
111	SHLD	24 BLU	SHLD	24 BLU
123	25 GRN/BLK/WHT	25 RED	17 BLK	25 RED
124	SHLD	25 BRN	17 WHT	25 BRN
125	26 ORN/BLK/WHT	26 RED	SHLD	26 RED
126	SHLD	26 GRA	18 BLK	26 GRA
127	27 BLU/BLK/WHT	27 RED	18 WHT	27 RED
116	SHLD	27 YEL	SHLD	27 YEL
104	28 BLK/RED/GRN	28 RED	19 BLK	28 RED
92	SHLD	28 PUR	19 WHT	28 PUR
80	29 WHT/RED/GRN	29 RED	SHLD	29 RED
67	SHLD	29 TAN	20 BLK	29 TAN
54	30 RED/BLK/GRN	30 RED	20 WHT	30 RED
41	SHLD	30 PNK	SHLD	30 PNK
29	31 GRN/BLK/ORN	31 GRN	21 BLK	31 GRN
18	SHLD	31 ORN	21 WHT	31 ORN
17	32 ORN/BLK/GRN	32 GRN	SHLD	32 GRN
16	SHLD	32 BLU	22 BLK	32 BLU
15	33 BLU/WHT/ORN	33 GRN	22 WHT	33 GRN
14	SHLD	33 BRN	SHLD	33 BRN
24	34 BLK/WHT/ORN	34 GRN	23 BLK	34 GRN
35	SHLD	34 GRA	23 WHT	34 GRA
47	35 WHT/RED/ORN	35 GRN	SHLD	35 GRN
59	SHLD	35 YEL	24 BLK	35 YEL
71	36 ORN/WHT/BLU	36 GRN	24 WHT	36 GRN
84	SHLD	36 PUR	SHLD	36 PUR
97	37 WHT/RED/BLU	37 GRN	25 BLK	37 GRN
110	SHLD	37 TAN	25 WHT	37 TAN
122	38 BRN	38 GRN	SHLD	38 GRN
133	SHLD	38 PNK	26 BLK	38 PNK
134	39 BRN/BLK	39 ORN	26 WHT	39 ORN
135	SHLD	39 BLU	SHLD	39 BLU
136	40 BRN/BLK	40 ORN	27 BLK	40 ORN
137	SHLD	40 BRN	27 WHT	40 BRN
138	41 BRN/RED	41 ORN	SHLD	41 ORN

FIGURE 65. Information on insert and wiring for 33-1 - Continued.

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SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
33-1	LS1SWU-70 LS1S50MU-70 LS1S50MUS-70	LSTTSU-50	LS2SWAU-44 LS2SU-44 LS2SUS-44	LSTTSU-60
128	SHLD	41 GRA	28 BLK	41 GRA
117	42 BRN/GRN	42 ORN	28 WHT	42 ORN
105	SHLD	42 YEL	SHLD	42 YEL
83	43 BRN/ORN	43 ORN	29 BLK	43 ORN
81	SHLD	43 PUR	29 WHT	43 PUR
68	44 BRN/BLU	44 ORN	SHLD	44 ORN
55	SHLD	44 TAN	30 BLK	44 TAN
42	45 WHT/BLK/BLU	45 ORN	30 WHT	45 ORN
30	SHLD	45 PNK	SHLD	45 PNK
19	46 RED/WHT/BLU	46 BLU	31 BLK	46 BLU
10	SHLD	46 BRN	31 WHT	46 BRN
9	47 GRN/ORN/RED	47 BLU	SHLD	47 BLU
8	SHLD	47 GRA	32 BLK	47 GRA
7	48 ORN/RED/BLU	48 BLU	32 WHT	48 BLU
6	SHLD	48 YEL	SHLD	48 YEL
5	49 BLU/RED/ORN	49 BLU	33 BLK	49 BLU
13	SHLD	49 PUR	33 WHT	49 PUR
23	50 BLK/ORN/RED	50 BLU	SHLD	50 BLU
34	SHLD	50 TAN	34 BLK	50 TAN
46	51 WHT/BLK/ORN	*	34 WHT	51 BLU
58	SHLD	*	SHLD	51 PNK
70	52 RED/ORN/BLK	*	35 BLK	52 BRN
93	SHLD	*	35 WHT	52 GRA
96	53 GRN/RED/BLU	*	SHLD	53 BRN
109	SHLD	*	36 BLK	53 YEL
121	54 ORN/BLK/BLU	*	36 WHT	54 BRN
132	SHLD	*	SHLD	54 PUR
142	55 BLU/BLK/ORN	*	37 BLK	55 BRN
143	SHLD	*	37 WHT	55 TAN
144	56 BLK/ORN/GRN	*	SHLD	56 BRN
145	SHLD	*	38 BLK	56 PNK
146	57 WHT/ORN/GRN	*	38 WHT	57 GRA
147	SHLD	*	SHLD	57 YEL
148	58 RED/ORN/GRN	*	39 BLK	58 GRA
139	SHLD	*	39 WHT	58 PUR
129	59 GRN/BLK/BLU	*	SHLD	59 GRA
118	SHLD	*	40 BLK	59 TAN
106	60 ORN/GRN/BLU	*	40 WHT	60 GRA

FIGURE 65. Information on insert and wiring for 33-1 - Continued.

MIL-STD-1683B(SH)

SECTION 600

WIRING INFORMATION - Continued.

<u>INSERT</u>	<u>CABLE TYPE</u>			
33-1	LS1SWU-70 LS1S50MU-70 LS1S50MUS-70	LSTTSU-50	LS2SWAU-44 LS2SU-44 LS2SUS-44	LSTTSU-60
94	SHLD	*	SHLD	60 PNK
82	61 BLU/GRN/ORN	*	41 BLK	*
69	SHLD	*	41 WHT	*
56	62 BLK/RED/BLU	*	SHLD	*
43	SHLD	*	42 BLK	*
31	63 WHT/ORN/BLU	*	42 WHT	*
20	SHLD	*	SHLD	*
11	64 RED/BLK/BLU	*	43 BLK	*
4	SHLD	*	43 WHT	*
3	65 GRN/ORN/BLU	*	SHLD	*
2	SHLD	*	44 BLK	*
1	66 ORN/WHT/RED	*	44 WHT	*
12	SHLD	*	SHLD	*
22	67 BLU/WHT/RED	*	SHLD 2/	*
33	SHLD	*	*	*
45	68 BLK/GRN/BLU	*	*	*
95	SHLD	*	*	*
108	69 WHT/GRN/BLU	*	*	*
120	SHLD	*	*	*
131	70 RED/GRN/BLU	*	*	*
141	SHLD 1/	*	*	*
150	*	*	*	*
151	*	*	*	*
152	*	*	*	*
153	*	*	*	*
154	*	*	*	*
155	*	*	*	*
149	*	*	*	*
140	*	*	*	*
130	*	*	*	*
119	*	*	*	*
107	*	*	*	*
57	*	*	*	*
44	*	*	*	*
32	*	*	*	*
21	*	*	*	*
1/ FOR LS1S50MUS-70 ONLY.				
2/ FOR LS2SUS-44 ONLY.				

FIGURE 65. Information on insert and wiring for 33-1 - Continued.

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL*(See Instructions - Reverse Side)***1. DOCUMENT NUMBER**
MIL-STD-1683B(SH)**2. DOCUMENT TITLE**
CONNECTORS AND JACKETED CABLE ELECTRIC / SELECTION SYANDARD**3a. NAME OF SUBMITTING ORGANIZATION****4. TYPE OF ORGANIZATION (Mark one)**☐ VENDOR☐ USER☐ MANUFACTURER☐ OTHER (Specify): _____**b. ADDRESS (Street, City, State, ZIP Code)****5. PROBLEM AREAS****a. Paragraph Number and Wording:****b. Recommended Wording:****c. Reason/Rationale for Recommendation:****6. REMARKS****7a. NAME OF SUBMITTER (Last, First, MI) - Optional****b. WORK TELEPHONE NUMBER (Include Area Code) - Optional****c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional****8. DATE OF SUBMISSION (YYMMDD)**

TO DETACH THIS FORM, CUT ALONG THIS LINE.)