

MIL-S-17000/12(SH)
2 May 1983

MILITARY SPECIFICATION SHEET

SWITCHING EQUIPMENT, COMBAT SYSTEM, COMMAND AND CONTROL,
FIRE CONTROL AND INTERIOR COMMUNICATION SWITCHBOARD, SUBMARINE
DECK-MOUNTED (PLUG CONNECTED)
TYPE XII

This specification sheet 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.

The complete requirements for acquiring the switchboard described herein shall consist of this document and the latest issue of MIL-S-170000

REQUIREMENTS:

Switchboard: Switchboard shall be in accordance with Drawing 417-5476783.

Mounting: Switchboard enclosure shall be provided with mounting bolt clearance holes as shown on Drawing 417-5476783 (sheet 3). Mounting foot at the bottom, to be an integral part of the enclosure.

Panel-mounted assemblies: Switchboard shall use standard panel-mounted assemblies as specified in MIL-STD-1657.

Arrangement: Arrangement and types of switches, fuses, and lights shall be as specified in the acquisition technical data package.

Switchboard section arrangement: Switchboard section shall be arranged as shown on Drawing 417-5476783 (sheet 2). The front section shall provide space for 36 panel-mounted assemblies mounted on a door, hinged on one side and latched on the other. The back section shall contain six modules. Space for 12 panel-mounted assemblies shall be provided to the left of the door hinge.

Size: Size of the switchboard section shall be as shown on Drawing 417-5476783 (sheet 2) (be capable of passage through a 30-inch aisle passage-way with a minimum of 6 feet, 6 inches head room).

Terminals: Subject to space limitations, spare' terminals up to 20 percent of active terminals shall be provided on terminal boards for ship wires, The 21 terminal boards (type 7TB12) shall be in accordance with MIL-T-55164/13 as specified in the acquisition technical data package.

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Terminal boards: Ship wire terminal boards shall be mounted vertically.

Terminal board and marking shall be in accordance with Drawing 417-5476790, connector receptacles marking, shall be as shown on Drawing 417-5476782. The 21 terminal boards shall be arranged as shown on Drawing 417-5476783 (sheet 3). The terminal board modules shall be hinged on the bottom edge. The hinge shall be in accordance with MS 35824 and permit the module to open to a maximum of 130 degrees. The terminal board module shall be held in an upright position by captive screw-type fasteners-made of corrosion resistant steel type 303 and with a screw thread size of 1/4-20. The horizontal edge of the module shall be covered with insulation material to prevent chafing of ship cables.

Module A through F wiring arrangement: Module A through F wiring arrangement shall be in accordance with the following:

- (a) Ship cables shall terminate in connector plugs in accordance with MS 3406 with strain relief clamps in accordance with MIL-C-5015.
- (b) Only wiring for active circuits shall be installed from the ship cable connector receptacles to the module connection point and to the harness wiring connector receptacles.
- (c) Wiring from the ship cable connector receptacles shall be connected to the front of the terminal boards. All other module wiring shall be connected to the back of the terminal boards.
- (d) Adequate slack shall be left in the wiring to the terminal boards from the ship connectors and the module connectors to permit the front panel of the module to swing down to a 130-degree opening.

Modules: Back section modules shall be arranged and mounted as shown on Drawing 417-5476783 (sheet 3). These modules shall be spaced 1 inch minimum apart. Wiring between the connector receptacles, terminal boards, and door mounted items shall be via flexible harness wiring. Ship cable connector receptacles shall be in accordance with MIL-C-5015 and mounted on the inside of removable connector module. These connector receptacles shall be mounted on the inside of the module with the heads of the receptacle securing screws on the outside of the modules.

Preparing activity:
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