

MILITARY SPECIFICATION SHEET

SPLICE, FIBER OPTIC, SHIPBOARD  
MECHANICAL, CABLE (METRIC)

This specification is approved for use by the Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following, specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-S-24623.

CLASSIFICATION

Splice type: M (Mechanical).  
Fiber style: SM or MM (Single-mode or multimode).  
Class: B (Cable splice).

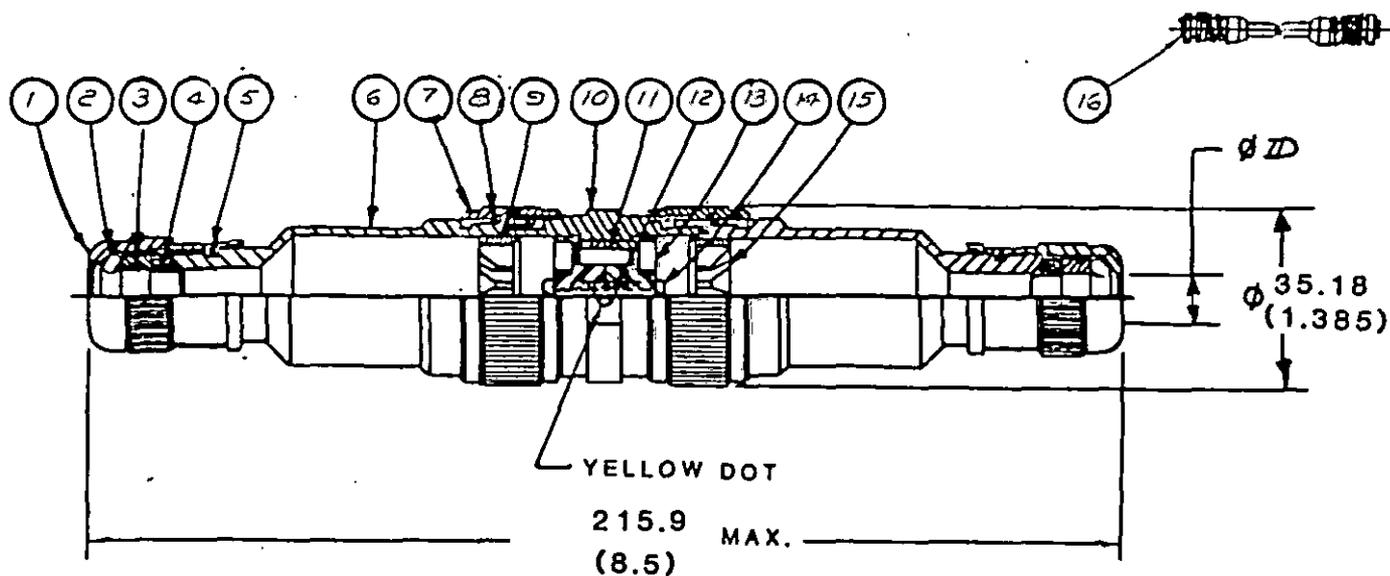
DESIGN AND CONSTRUCTION

Dimensions: See figure 1 and figure 2.  
Units are in millimeters (inches) except for threads and finishes which are in inches.  
Weight: ≤ 550 grams.  
Materials: Aluminum alloy: QQ-A-225.  
O-Rings: Fluoro-silicone MIL-R-25988, type 1, class 1, grade 70.  
Installation time: ≤ 90 minutes.

PERFORMANCE REQUIREMENTS

Environmental properties:  
Temperature range: 3 (Operating: minus 28 to plus 65°C,  
Storage: minus 62 to plus 71°C.)  
Nuclear radiation: N/A.

PART IDENTIFYING NUMBER: D24623/05-001.



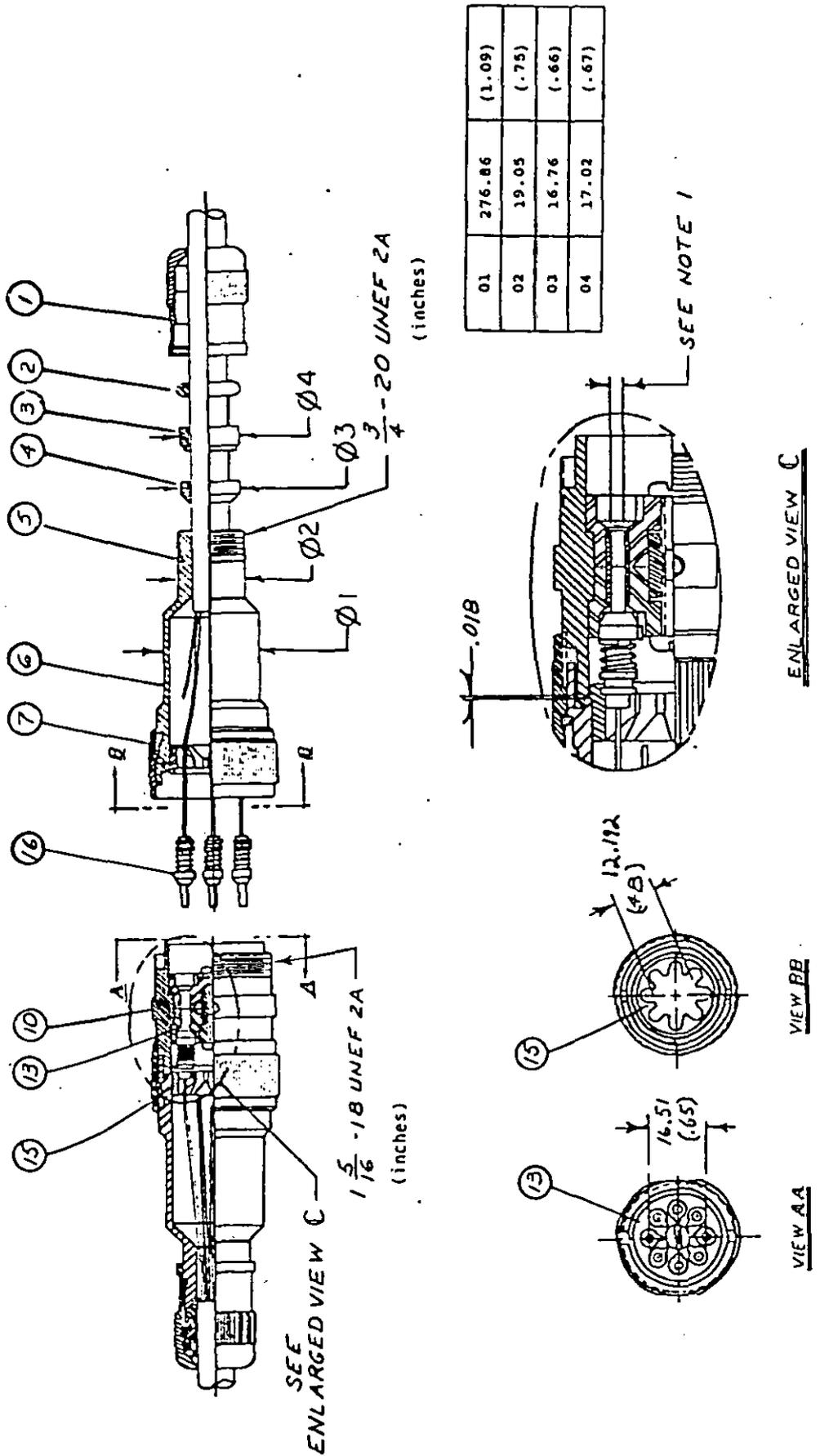
16	ROTARY SPLICE	GLASS - NOT SUPPLIED	8	4
15	COMPRESSION PLATE	PLASTIC	2	2
14	SCREW	STAINLESS STEEL	2	2
13	RETAINER	PLASTIC	2	2
12	NUT	STAINLESS STEEL	1	1
11	ALIGNMENT SLEEVE	CERAMIC	8	4
10	CENTER BODY	ALUMINUM	1	1
9	O-RING	RUBBER	2	2
8	RETAINING RING	STAINLESS STEEL	2	2
7	COUPLING NUT	ALUMINUM	2	2
6	BACKSHELL	ALUMINUM	2	2
5	O-RING	RUBBER	2	2
4	GRIP RING	ALUMINUM	2	2
3	SPACER	ALUMINUM	2	2
2	O-RING	RUBBER	2	2
1	BACKNUT	ALUMINUM	2	2
ITEM	DESCRIPTION	MATERIAL	-001 8 FIBER ID - 11.51 (.453)	-002 4 FIBER ID - 8.74 (.344)
			REQUIRED	

See notes on next page.

FIGURE 1. Connected cable splice with rotary splices.

Notes (for figure 1):

1. Resilient alignment sleeve which accepts ferrule with a diameter of 0.24994 to 0.24981 (0.09840 in) to (0.09835 in).
2. Tolerances  $xx \pm 0.1 \text{ mm}$   
(.010 in)  
  
 $xxx \pm 0.1 \text{ mm}$   
(.004 in)  
  
angles  $\pm 2^\circ$
3. Corner R 0.1 max (.004).
4. Concentricity 0 0.05 (.002) T.I.R.
5. Dimensions are in millimeters. . Dimensions in parenthesis are in inches.
6. Finish to be 64 microinches (max).
7. Item 16. rotary splice is shown for information only and is not supplied as part of this assembly.
8. Units are in millimeters.



Note: Units are in millimeters (inches) except for threads (inches).

FIGURE 2. Disconnected cable splice with rotary splices.

Review activities:  
Navy - EC, YD

Preparing activity:  
Navy - SH  
(Project 6060-N024-02)