

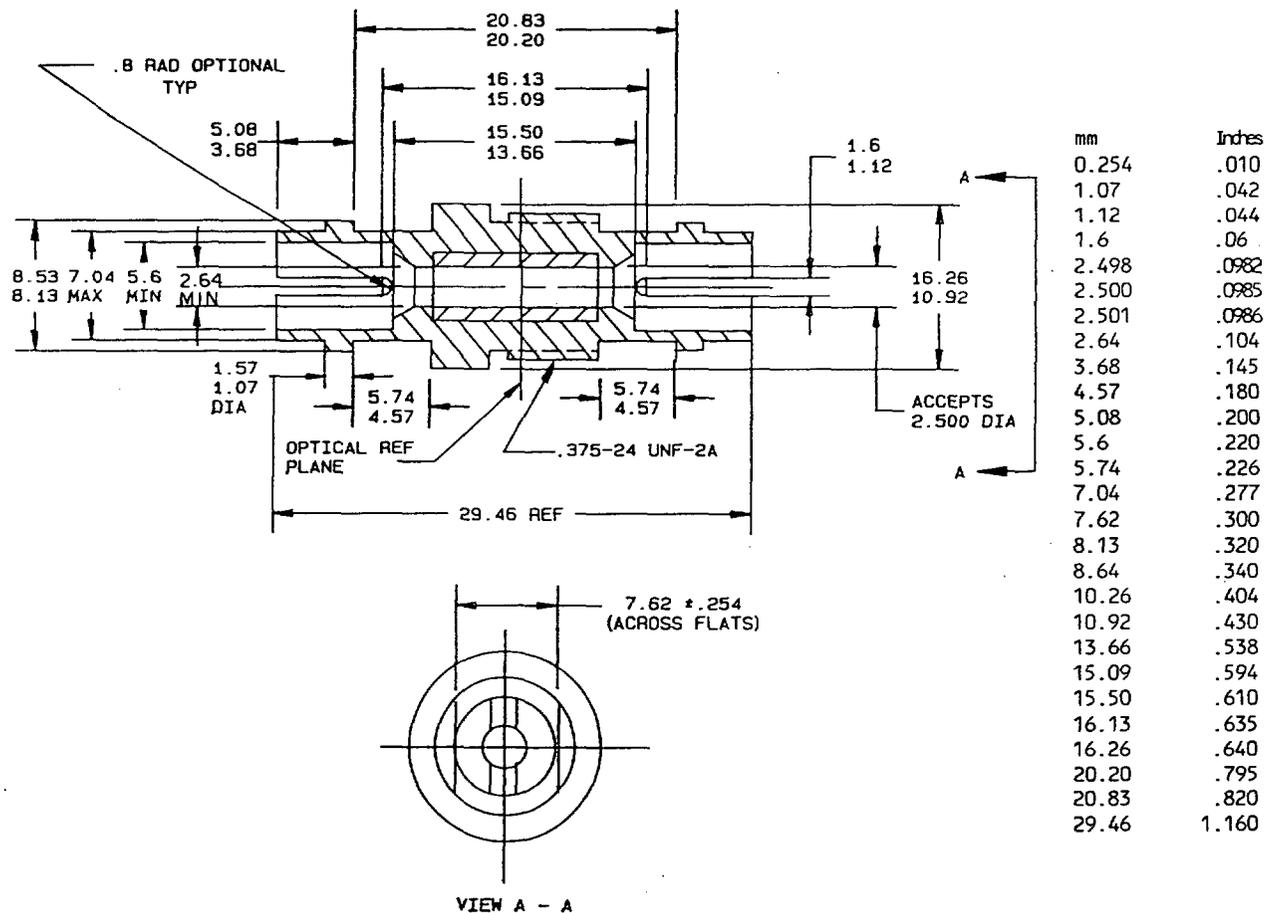
METRIC  
MIL-C83522/17A  
25 June 1992  
SUPERSEDING  
MIL-C-83522/17  
7 May 1991

MILITARY SPECIFICATION SHEET

CONNECTOR, FIBER OPTIC, SINGLE TERMINUS, ADAPTER, 2.5 MILLIMETER BAYONET COUPLING, BULKHEAD PANEL MOUNT

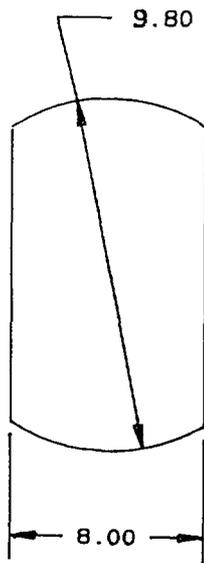
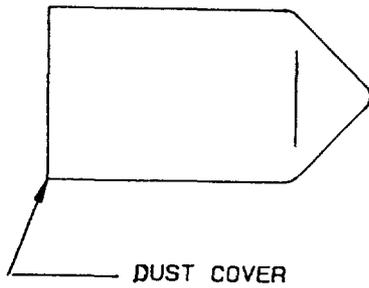
This specification is approved for use by all Departments and Agencies of the Department of Defense.

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-C-83522.

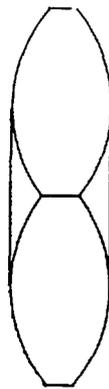


- NOTES:
1. Dimensions are in millimeters.
  2. Inch equivalents are given for general information only.
  3. The connector is shown with a resilient alignment sleeve which will accept a ferrule diameter of 2.498 to 2.501 mm for multimode and 2.498 to 2.500 mm for singlemode.

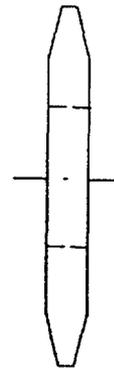
FIGURE 1. Dimensions and configuration.



RECOMMENDED  
PANEL CUTOUT



HEX-NUT  
9.52 X 1.06  
.375-24 UNF-24  
X 1.65 THK



10.41 MAX X 0.46  
INTERNAL TOOTH  
LOCKWASHER

mm	Inches
0.46	.018
1.65	.065
8.00	.315
9.52	.375
9.80	.385
10.41	.410

FIGURE 2. Recommended panel cutout and accessories dimensions.

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REQUIREMENTS:

Metals: The coupling receptacle housing shall be of corrosion resistant steel in accordance with QQ-S-763, class 303/316L or nickel plated brass in accordance with QQ-B-626.

Dust covers: Shall be thermoplastic.

Hex nut: Shall be nickel plated brass or stainless steel.

Dimensions and configuration: See figures 1 and 2.

Optical requirements

Optical loss (attenuation): Not applicable.

Nuclear radiation: Not applicable.

Weight: 20 grams maximum.

Safety wire holes: Not applicable.

Force to engage and disengage:

Longitudinal force: Not applicable.

Torque: Not applicable.

Coupling mechanism retention force: Not applicable.

Water Submersion: Not applicable.

Fiber optical cable: Not applicable.

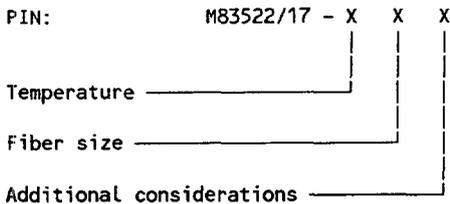
Ozone exposure: Not applicable.

Fluid immersion: Not applicable.

High impact shock: Applicable to single mode and multimode locking and nonlocking connectors.

Residual Magnetism: Not applicable.

Part or Identifying Number (PIN) is a new term encompassing previous terms used in specifications such as part number, type designator, or identification number.



Temperature:

H - High temperature

N - Normal temperature

Fiber size:

X (type I) (125  $\mu$ m, MM)

Y (type II) (125  $\mu$ m, MM/SM)

Z (type I) (140  $\mu$ m, MM)

Additional considerations:

S - Qualified to space flight requirements.

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CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - EC  
Air Force - 85  
NASA - NA

Review activities:

Navy - SH  
Air Force - 17, 19, 71, 80, 90, 99  
DLA - ES  
NASA - LRC, MSF

User activities:

Navy - AS, MC, OS

Preparing activity:

Air Force - 85

Agent:

DLA - ES

(Project number 6060-0098-02)

