



## DEFENSE LOGISTICS AGENCY

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IN REPLY  
REFER TO

DSCC-VAI (Mr. Ward/614-692-0564)

September 10, 2004

### MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial drafts of Supplement 1, MIL-DTL-12520D, MIL-DTL-12520/8B, MIL-DTL-12520/9B, MIL-DTL-12520/10B, and MIL-DTL-12520/11B. Connectors, Plug and Receptacle (Electrical, Waterproof) and Accessories; General Specification For Project numbers 5935-4726-099, -4726-000, thru -4726-004.

This letter is an initial draft notice with attached revisions of the subject documents. These documents are being revised to implement the following changes:

- Conversion to a detail specification.
- Updating format.
- Replacing canceled references.
- Other editorial changes.

This will result in better quality documents and lower cost parts.

The initial draft of these documents is available for downloading from our web site at:

<http://www.dsccl.dla.mil/programs/milspec>

This draft is in the PDF format and requires Adobe Acrobat Reader to view and print it. If you do not have access to the Internet or otherwise are having trouble downloading this file, please contact us and we will provide you with a hard copy.

If this document is of interest to you, please submit your comments with justification, by e-mail only. Your comments should be received at our office within 45 days of the date of this letter. Any further coordination concerning this document will be circulated only to organizations and firms that furnish comments or reply that they have an interest.

If you require further information, please contact Mr. Ezekiel Ward at: 614-692-0564, Fax: 614-692-6939 or E-mail: [ezekiel.ward@dla.mil](mailto:ezekiel.ward@dla.mil).

Sincerely,

/ signed /

RICHARD L TAYLOR  
Chief  
Interconnection Devices Team

This draft, dated 10 September 2004, prepared by DLA-CC, has not been approved and is subject to modification. DO NOT USE PRIOR TO APPROVAL. (Project 5935-4726-001)

**INCH-POUND**  
MIL-DTL-12520/8B  
**DRAFT**  
SUPERSEDING  
MIL-C-12520/8A(EL)  
5 November 1965

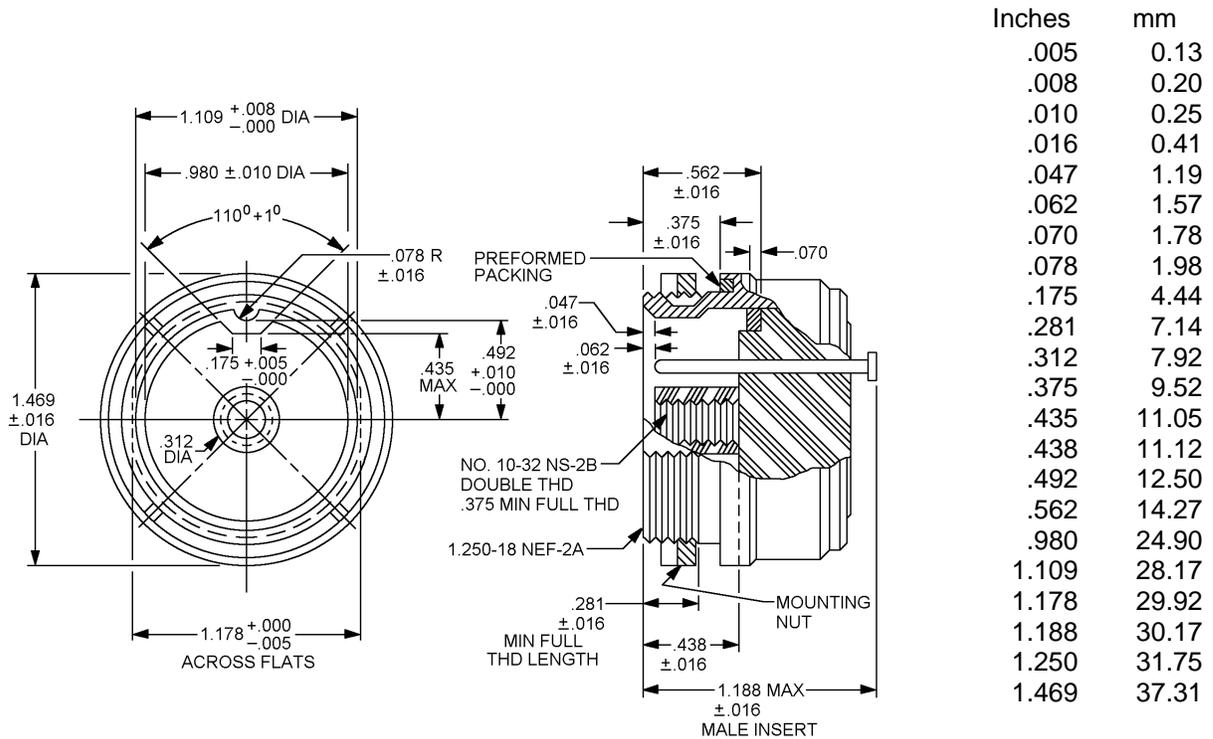
**DETAIL MILITARY SPECIFICATION SHEET**

**CONNECTORS, RECEPTACLE, ELECTRICAL WATERPROOF  
(SHELL SIZE 20, MALE INSERTS)**

Inactive for new design as of June 1999.

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

The requirements for acquiring the document described herein shall consist of this specification sheet and MIL-DTL-12520.

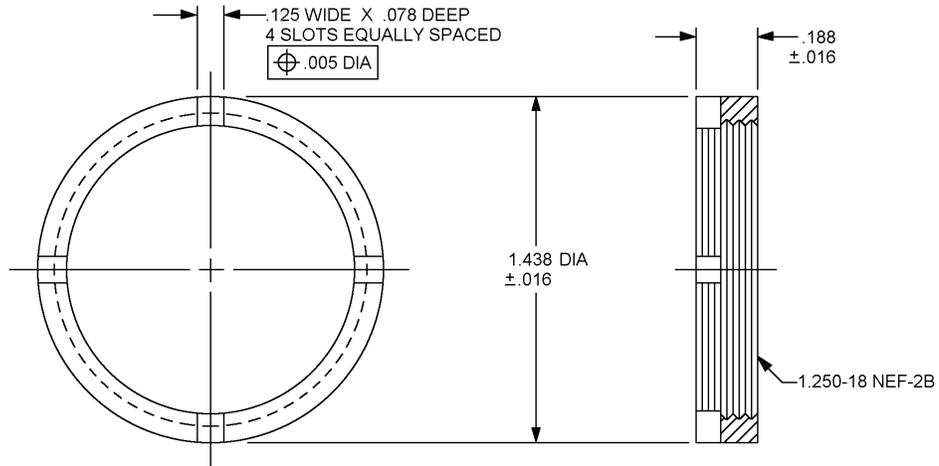


**NOTES:**

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .005$  (0.13 mm).

FIGURE 1. Receptacle shell and insert dimensions.

MIL-DTL-12520/8B



Inches	mm
.005	0.13
.016	0.41
.078	1.98
.125	3.17
.188	4.77
1.250	31.75
1.438	36.52

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .005$  (0.13 mm).

FIGURE 2. Mounting nut dimensions.

MIL-DTL-12520/8B

REQUIREMENTS

Connectors covered by this specification shall have the electrical ratings specified in table I.

TABLE I. Electrical ratings.

Connector type	Limiting operating voltage (sea level)		Nominal current
	AC	DC	Amperes
UW2020MA00	900	1,250	41
UW2020MB00	900	1,250	22

Dimensions and configuration: See figures 1 and 2 and table I.

Design and construction: Connectors shall be of the design, construction, and physical dimensions specified on figure 1.

Mounting nut: The mounting nut shall be as specified on figure 2. Material shall be brass conforming to **ASTM-B36** and **ASTM-B121**, and shall be cadmium plated in accordance with class 1, type II, of **SAE-AMS-QQ-P-416**. The resulting finish shall be olive drab in color.

This receptacle connector mates with MIL-C-12520/5 and MIL-C-12520/16.

Dielectric withstanding voltage: Test shall be as specified in MIL-DTL-12520 except when test potential shall be 2,800 volts (rms).

Cover and chain assemblies: Cover and chain assemblies are in accordance with style 2X of MIL-C-12520/12.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Reference documents: In addition to MIL-**DTL**-12520, this document references the following:

- ASTM-B36
- ASTM-B121
- MIL-C-12520/5
- MIL-C-12520/12
- MIL-C-12520/16
- SAE-AMS-QQ-P-416

MIL-DTL-12520/8B

CONCLUDING MATERIAL

Custodians:

Army - CR  
Air Force - 11  
Navy - AS  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5935-4726-001)

Review activities:

Navy - MC  
Air Force - 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://www.dodssp.daps.mil>.