

MILITARY SPECIFICATION

CONNECTORS, PLUG, ELECTRICAL, WATERPROOF
 (CATHEDRAL SHAPE, SHELL SIZE 26,
 FEMALE INSERTS)

1. SCOPE

1.1 Scope.-- This specification covers the detail requirements for the following types of field-serviceable, shell-size 26, cathedral-shape, water-proof, electrical-plug connectors with female inserts:

UW1326FC19	UW1326FE31
UW1326FC21	UW1326FE33
UW1326FC23	UW1326FF25 ¹
UW1326FC25	UW1326FF27 ¹
UW1326FD25	UW1326FF29 ¹
UW1326FD27	UW1326FF31 ¹
UW1326FD29	UW1326FF33 ¹
UW1326FD31	UW1326FG25
UW1326FD33	UW1326FG27
UW1326FE25	UW1326FG29
UW1326FE27	UW1326FG31
UW1326FE29	UW1326FG33

1.2 Ratings.-- Connectors covered by this specification shall have the electrical ratings specified in table 1.

Table 1 - Electrical ratings

Connector type	Limiting operating voltage (sea level)		Nominal current
	AC	DC	Amperes
UW1326FC19 to UW1326FC25, incl	900	1,250	22
UW1326FD25 to UW1326FD33, incl	500	700	22
UW1326FE25 to UW1326FE33, incl	500	700	11
UW1326FF25 to UW1326FF33, incl	500	700	11
UW1326FG25 to UW1326FG33, incl	900	1,250	73

2. APPLICABLE DOCUMENTS

2.1 The following specifications, of the issue in effect on date of invitation for bids, form a part of this specification:

SPECIFICATIONS

MILITARY

MIL-C-12520	Connectors, Plug and Receptacle (Electrical, Waterproof); and Accessories; General Specification for.
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MIL-C-12520/10A	Connectors, Receptacle, Electrical, Waterproof (Shell Size 26, Male Inserts).
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(Copies of specifications required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)

3. REQUIREMENTS

3.1 Requirements.- Requirements shall be in accordance with Specification MIL-C-12520, and as specified herein.

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

3.2.1 Assembly.- Connectors shall be capable of being disassembled to allow access to the contact terminals without the use of special tools.

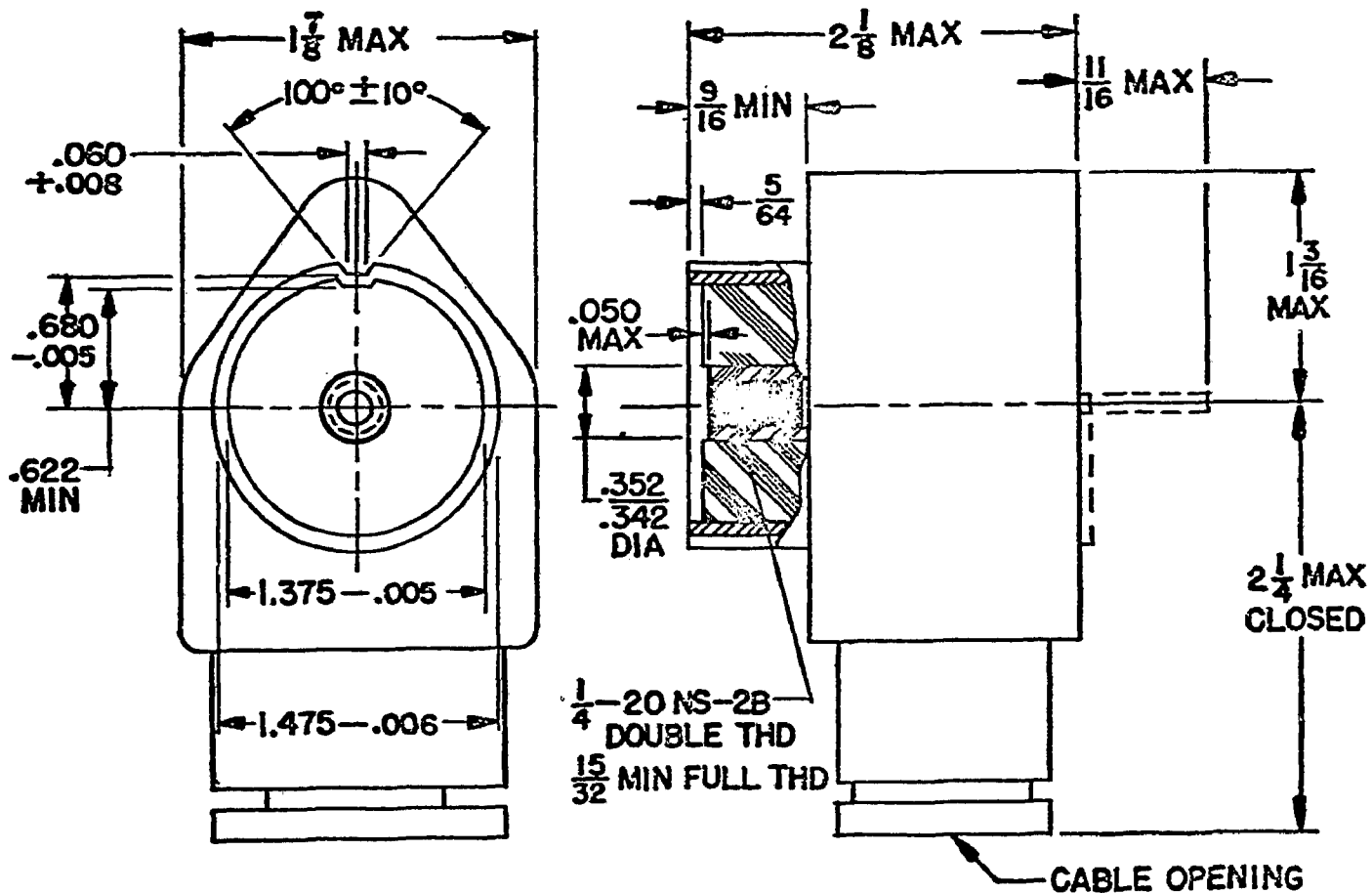
3.3 Voltage drop.- The voltage drop shall not exceed 21 millivolts for insert-arrangements C and D, 20 millivolts for insert-arrangement E or F, or 12 millivolts for insert-arrangement G. (See 4.4).

3.4 Marking.- Marking shall be in accordance with Specification MIL-C-12520, except that connectors shall be marked with letters approximately 1/8 inch high.

4. QUALITY ASSURANCE PROVISIONS

4.1 Sampling and inspection.- Sampling and inspection shall be in accordance with Specification MIL-C-12520, and as specified herein.

4.2 Test and mating receptacles.- The test and mating receptacles shall be in accordance with the applicable type covered by MIL-C-12520/10A.



4.3 Dielectric withstanding voltage.- Connectors with insert-arrangements C and G shall be subjected to a test potential of 2,800 volts root mean square (rms). Connectors with insert-arrangements D, E, and F shall be subjected to a test potential of 2,000 volts rms.

4.4 Voltage drop (see 3.3).- The test current for connectors shall be 20 amperes dc for insert-arrangements C and D, 10 amperes dc for insert-arrangements E and F, and 60 amperes dc for insert-arrangement G.

5. PREPARATION FOR DELIVERY

5.1 Preparation for delivery shall be in accordance with Specification MIL-C-12520.

6. NOTES

6.1 Notes.- In addition to the notes specified herein, the notes specified in MIL-C-12520 are applicable to this specification.

6.2 Intended use.- Connectors covered by this specification are intended for use where field-serviceable, waterproof, electrical connectors are required.

6.2.1 Mating receptacle connectors.- Mating receptacle connectors are in accordance with Specification MIL-C-12520/10A.

6.2.2 Cover and chain assemblies.- Cover and chain assemblies are in accordance with style 3X of Specification MIL-C-12520/12A "Cover and Chain Assemblies (External Threads, for Use on Waterproof Connectors)".

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CUSTODIAN

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Preparing activity

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