

MIL-DTL-25516/19D
w/AMENDMENT 1
21 February 2020
SUPERSEDING
MIL-DTL-25516/19D
20 July 2018

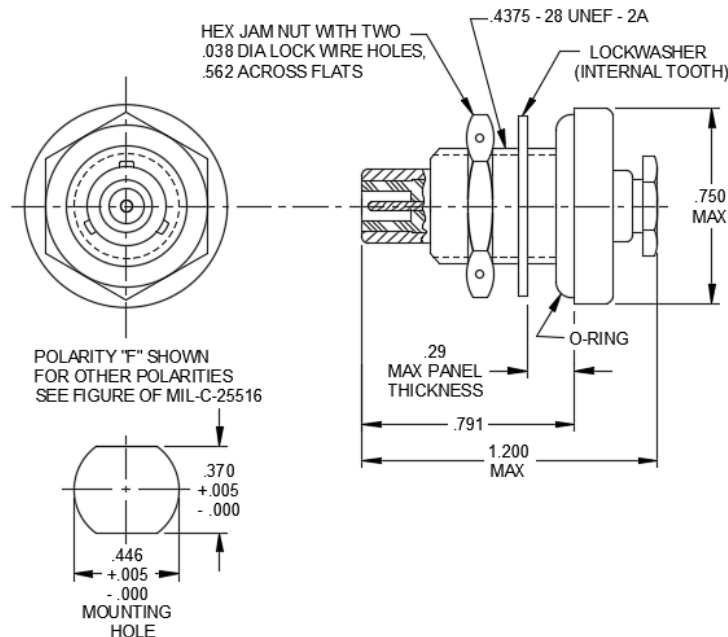
MILITARY SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, MINIATURE, COAXIAL, ENVIRONMENT RESISTANT TYPE,
COAXIAL PRESSURIZED RECEPTACLE, SERIES I, CLASS G, TYPE 1

Inactive for new design after 20 July 2018.

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 MIL-DTL-25516.



NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerance is ± 0.010 (.25mm).
3. Mating dimensions shall be in accordance with MIL-DTL-25516.
4. Cable entry dimensions shall be suitable to accommodate the associated cable dimensions as specified in the Appendix of MIL-DTL-25516.
5. The maximum envelope dimensions are 1.200 and .750.

FIGURE 1. Connector, electrical receptacle.

REQUIREMENTS:

Dimensions, configuration, and descriptions: See figure 1.

Environmental and mechanical:

Visual and mechanical inspection:

Contact engaging and separating forces: Applicable.

Resistance to test probe damage: Applicable.

Contact retention: Applicable.

Durability: Applicable.

Cable retention force: Applicable.

Side load: Applicable.

Hermetic sealing: Not applicable.

Thermal shock: Applicable.

Shock: Applicable.

Vibration: Applicable.

High temperature: Applicable.

Fuel immersion: Applicable.

Altitude humidity cycling: Applicable.

Ozone exposure: Applicable.

Corrosion resistance: Applicable.

Sulphide immersion: Applicable.

Maintenance aging: Applicable.

Electrical:

Insulation resistance: Applicable.

Dielectric withstanding voltage: Applicable.

Contact resistance: Applicable.

Low signal level contact resistance: Applicable.

Shield clamp resistance: Shall not exceed 10 milliohms (shielded cables only).

Part number: M25516/19- (dash number from table I) 1/.

TABLE I. Dash number and polarity. 2/

Notes	Dash number	Polarity	Associated cable
Complete part number consists of added digits describing typical cable See appendix The letters (E, F, G, etc.) are not part of part number	-01	A	-XX
	-02	B	-XX
	-03	E	-XX
	-04	F	-XX
	-05	J	-XX
	-06	K	-XX
	-07	L	-XX
	-08	M	-XX
	-53 <u>3</u> /	E	-XX
	-54 <u>3</u> /	F	-XX
	-55 <u>3</u> /	J	-XX
	-56 <u>3</u> /	K	-XX
	-57 <u>3</u> /	L	-XX
	-58 <u>3</u> /	M	-XX

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- 1/ Dash numbers -01 (configuration A) and -02 (configuration B) are inactive for new design, Dash number -09 (configuration N) and -10 (configuration O) per figure 1 of the basic are cancelled.
- 2/ Inactive for new design for Naval Air Systems Command.
- 3/ These connectors have double flats on the mounting portion of the connector. These connectors shall mount in holes that have 0.370 ± 0.010 between the flats. Jacks that mount in double D mounting holes are indicated by part numbers -5X.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Referenced documents. This document references MIL-DTL-25516.

CONCLUDING MATERIAL

Custodians:
Navy – EC
Air Force – 85
DLA - CC

Preparing activity:
DLA - CC
(Project 5935-2020-027)

Review activities:
Navy – AS

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 <https://assist.dla.mil>.