DEFENSE LOGISTICS AGENCY
LAND AND MARITIME
P.O. BOX 3990
COLUMBUS, OH 43218-3990

4 August 2016

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial drafts of MIL-DTL-38999/34D with Amendment 1 and MIL-DTL-38999/35D with Amendment 1 (see table below for details).

Initial Draft	Title	Project Number
MIL-DTL-38999/34D w/AMD 1	Connectors, Receptacle, Electrical, Circular Breakaway, Jam-Nut Mounting, Removable Crimp Contacts, Sockets, Series III, Shell Size 25, Metric	5935-2016-160
MIL-DTL-38999/35D w/AMD 1	Connectors, Receptacle, Electrical, Circular Breakaway, Wall Mounting Flange, Removable Crimp Contacts, Sockets, Series III, Shell Size 25, Metric	5935-2016-161

The drafts for the subject QPL-38999 documents, dated 4 August 2016, are now available for viewing and downloading from the DLA Land and Maritime-VA website at the following internet address:

https://landandmaritimeapps.dla.mil/programs/milspec/default.aspx.

The subject documents have been revised to add notes to Figure 1 in order to provide additional clarification for the red band measurement. Both documents include a proposal to remove class "P" to harmonize the document with the current basic specification, and both documents propose to remove class "X" to harmonize with similar changes in the draft MIL-DTL-38999M w/Amd 1. In addition, the draft MIL-DTL-38999/34D w/Amd 1 includes a proposal to update the external O-ring requirement to harmonize with the requirements in the basic specification. Finally, both documents include editorial changes, including updating the ASSIST website address in the Concluding Material, and updating the sine vibration test procedure from "MIL-STD-202, method 204" to the latest version of the document, "MIL-STD-202-204", which incorporates the test method number into the document number.

Proposed additions to the document are indicated in the draft with bold lettering and /or yellow highlighting. Proposed deletions are indicated with cross-outs and /or green highlighting.

SUBJECT: Initial drafts of MIL-DTL-38999/34D with Amendment 1 and MIL-DTL-38999/35D with Amendment 1 (see table for details).
– Continued.

If these documents are of interest to you, please provide your comments or suggested changes. Concurrence or comments are required at this Center within 45 calendar days from the date of this letter (no later than 15 September 2016). Late comments will be held for the next coordination of the documents. Comments from military departments must be identified as either "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their military department's document custodian in sufficient time to allow for consolidation of the department's reply. Lack of a response by the above due date will be interpreted as either concurrence with or no interest in these documents. Subsequent coordination for these documents will be circulated only to those interested parties that have responded to the subject initial draft.

The point of contact for these documents is Mrs. Lisa Hoffer, phone number 614-692-7702, DSN 850-7702, facsimile transmission 614-692-6940, or e-mail lisa.hoffer@dla.mil. Comments may also be mailed via the US Postal Service to DLA Land and Maritime–VAI (ATTN: Lisa Hoffer), P.O. Box 3990, Columbus, OH 43218-3990.

Sincerely,

/ SIGNED /

ABDONASSER M. ABDOUNI
Chief,
Interconnection Branch

cc:
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Note: This draft, dated **4 August 2016** and prepared by DLA Land and Maritime-VAI, has not been approved and is subject to modification.
DO NOT USE PRIOR TO APPROVAL.
(Project **5935–2016-161**).

METRIC
MIL-DTL-38999/35D
w/AMENDMENT 1
DRAFT
SUPERSEDING
MIL-DTL-38999/35D
10 July 2008

DETAIL SPECIFICATION SHEET

CONNECTORS, RECEPTACLE, ELECTRICAL, CIRCULAR, BREAKAWAY, WALL MOUNTING FLANGE, REMOVABLE CRIMP CONTACTS, SOCKETS, SERIES III, SHELL SIZE 25, METRIC

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-38999.

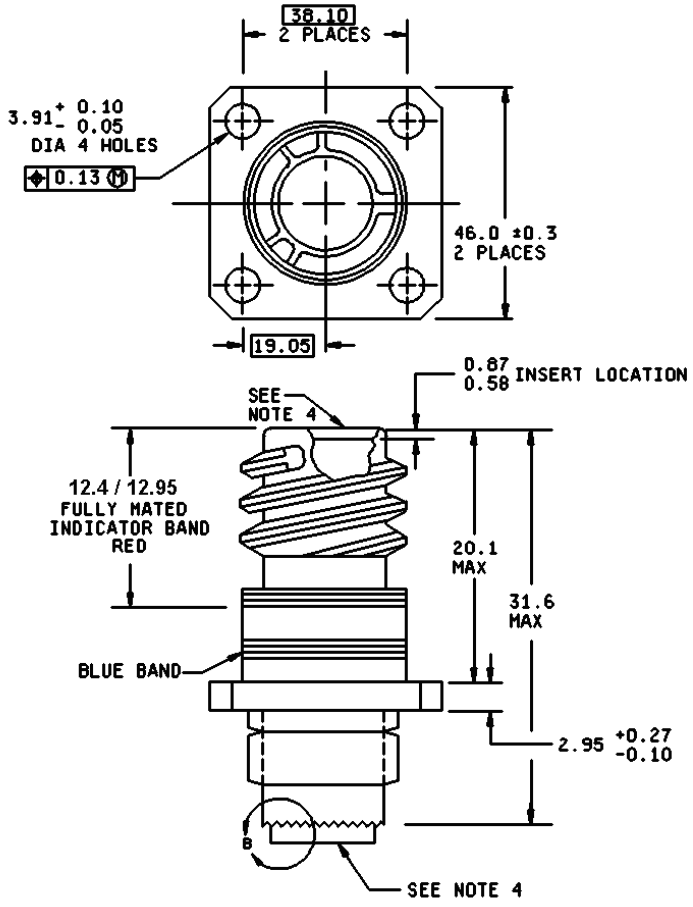
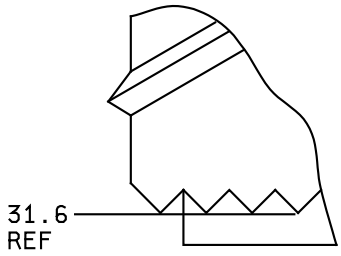


FIGURE 1. Receptacle, classes J, M, P, R, T, W, ~~X~~ and Z.

AMSC N/A

FSC 5935



DETAIL B

mm	Inches	mm	Inches	mm	Inches
0.05	.002	0.87	.034	20.1	.79
0.10	.004	2.95	.116	31.6	1.24
0.13	.039	3.91	.154	38.10	1.42
0.27	.011	12.7	.5	46.0	1.81
0.3	.012	13.2	.52		
0.58	.023	19.05	.75		

NOTES:
1. Dimensions are in millimeters.
2. Inch equivalents are given for information only.
3. Front or rear panel mounting.
4. For details of connector front and rear configurations, see MIL-DTL-38999.
5. **The specified red band location is measured from the front of the shell to the back end of the red band.**

FIGURE 1. Receptacle, classes J, M, P, R, T, W, ~~X~~ and Z - Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

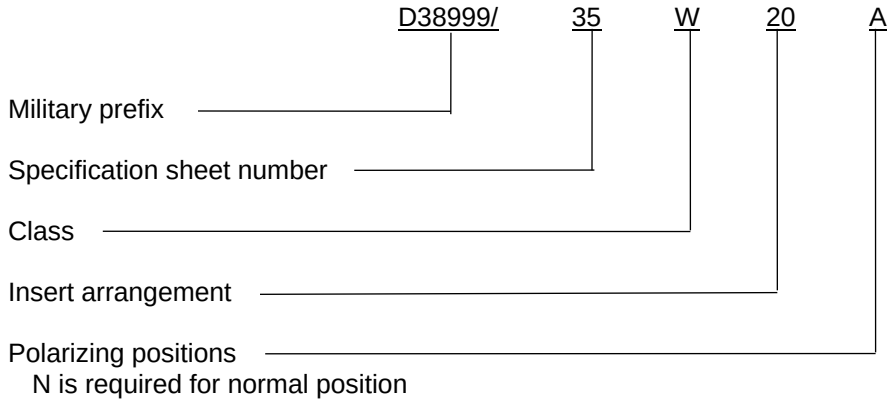
Interface dimensions shall conform to MIL-DTL-38999.

This receptacle ~~is designed for use~~ **mates with the following** lanyard release plugs: ~~and mates with~~ MIL-DTL-38999/29, /30, and /31. It is intended to be used only on stores.

Insert arrangement: See MIL-STD-1560.

Separation force: The receptacle shell shall break into two parts when a separation force is applied at any angle within 15° of the normal axis by the mating plug assembly. Separation shall occur such that the plug assembly shall be pulled free of the receptacle insert and contacts shall remain secure in the mounted part.

Part or Identifying Number (PIN) example:



QUALIFICATION:

Qualification is required. Qualification shall be in accordance with MIL-DTL-38999 with the following exceptions:

Group I:

Durability: Wired connectors shall meet the durability requirements of MIL-DTL-38999, with the following exceptions:

The total number of cycles of mating and unmating shall be 500, in the following sequence: 200 cycles of normal mating and unmating, 50 cycles of normal mating with pull-separation unmating, 200 cycles of normal mating and unmating, 50 cycles of normal mating with pull-separation unmating. The lanyard release velocity during the pull-separation force unmating cycles shall be 9.15 meters per second.

Separation force: Upon conclusion of the group I test, all samples shall be subjected to an axial force applied by a mated plug assembly. The connector shall meet the requirements of separation force when the applied load is 1,800 ± 200 newtons.

External bending moment: Wired connectors shall meet external bending moment requirements of MIL-DTL-38999 with the following exception: Shell size 25 loading shall be 28.3 newton-meters.

Group II:

Durability: Wired connectors shall meet the durability requirements of MIL-DTL-38999, with the following exceptions:

The total number of cycles of mating and unmating shall be 500, in the following sequence: 200 cycles of normal mating and unmating, 50 cycles of normal mating with pull-separation unmating, 200 cycles of normal mating and unmating, 50 cycles of normal mating with pull-separation unmating. The lanyard release velocity during the pull-separation force unmating cycles shall be 9.15 meters per second.

Vibration: Wired connectors shall meet the vibration requirements of MIL-DTL-38999 with the following exceptions:

Sine vibration: Connectors shall be subjected to the test specified in **accordance with MIL-STD-202-204** ~~method 204~~, test condition G, ~~of MIL-STD-202~~.

Random vibration: Connectors shall be subjected to the test specified in test procedure EIA-364-28, test condition VI, letter J, ambient temperature. Duration shall be 8 hours in the longitudinal direction and 8 hours in the perpendicular direction, for a total of 16 hours.

The qualifying activity will define the accessory load and cable to be used in the random and sine vibration tests.

Separation force: Upon conclusion of the group II test, all samples shall be subjected to an axial force applied by a mated plug assembly. The connector shall meet the requirements of separation force when the applied load is 1,800 ±200 Newton.

External bending moment: Wired connectors shall meet external bending moment requirements of MIL-DTL-38999 with the following exception: Shell size 25 loading shall be 28.3 Newton-meters.

~~Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.~~
Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

Referenced documents. In addition to MIL-DTL-38999, this document references the following:

MIL-DTL-38999/29
MIL-DTL-38999/30
MIL-DTL-38999/31
MIL-STD-202**-204**
MIL-STD-1560
EIA-364-28

CONCLUDING MATERIAL

Custodians:
Air Force - 85
DLA – CC

Preparing activity:
DLA – CC

(Project 5935–2016-161)

Review activities:
Air Force – 19, 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://assist.daps.dla.mil.~~ **https://assist.dla.mil.**