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IN REPLY  
REFER TO

DSCC-VAI (Mr. Jeffery Tunstall/614-692-0569)

September 10, 2004

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of MIL-DTL-38999/22D, (Connectors, electrical, circular, receptacle, threaded, dummy stowage, series III, connector) Project Number 5935-4612.

This initial draft of the subject document, dated is now available for viewing and downloading from the DSCC-VA Web site:

<http://www.dsc.dla.mil/Programs/MilSpec/initialdrafts.asp>

Major changes to this drawing includes:

Front page: Figure 1: Delete and replaced grommet "Size 9 only".

Page 2: Figure 2: Add shell size 09 for key arrangements A, B, & D.

Page 3: Figure 3: Add shell size 09 for key arrangements C, E, & N.

Page 4: Figure 4: Add shell size 11, 13 & 15 for key arrangements A, B, C, D, E & N.

Page 5: Figure 5: Add shell size 17 to 25 for key arrangements A, B, C, D, E & N

If this document is of interest to you, provide your comments or suggested changes by e-mail to [Jeffery.tunstall@dla.mil](mailto:Jeffery.tunstall@dla.mil) or by fax (614) 692-6939.

Comments or suggested changes that are not editorial in nature should include justification. Industrial activities should indicate whether they are commenting from the standpoint of a "user" or "manufacturer" Military review activities should forward their comments to their custodians in sufficient time to allow for consolidating the departmental reply. Military departments must identify their comments as either "Essential" or "Suggested." Essential comments, which must be accepted or withdrawn, should be supported by test data unless they obviously require test data unless they obviously do not require test.

Please return comments to this Center no later than 45 days from the date of this letter. Any further coordination concerning this document will be circulated only to firms and organizations that furnish comments or reply that they have an interest.

The point of contact for this document is Mr. Jeffery Tunstall, at 614-692-0569/DSN850-0569, or by facsimile 614-692-6939, or by email to: [Jeffery.tunstall@dla.mil](mailto:Jeffery.tunstall@dla.mil).

Sincerely,

/signed/

Richard L. Taylor  
Chief  
Interconnection Devices Team

Note: This draft dated 30 August 2004 prepared by DSCC-VAI, has not been approved and is subject to modification. DO NOT USE FOR ACQUISITION PURPOSES  
 Project Number 5935-4612

METRIC

MIL-DTL-38999/22E  
 DRAFT  
 SUPERSEDING  
 MIL-C-38999/22D  
 11 June 2001

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, RECEPTACLE,  
 THREADED, DUMMY STOWAGE, SERIES III, 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.

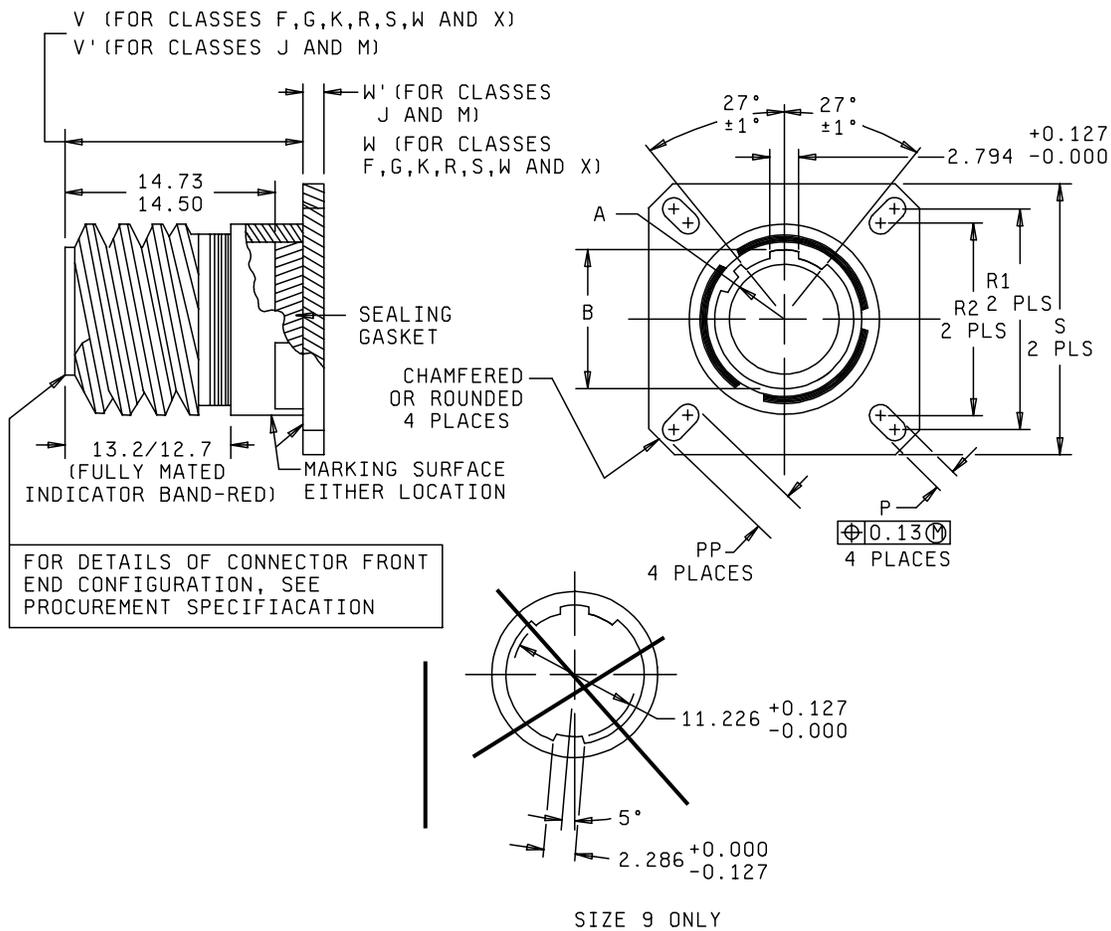
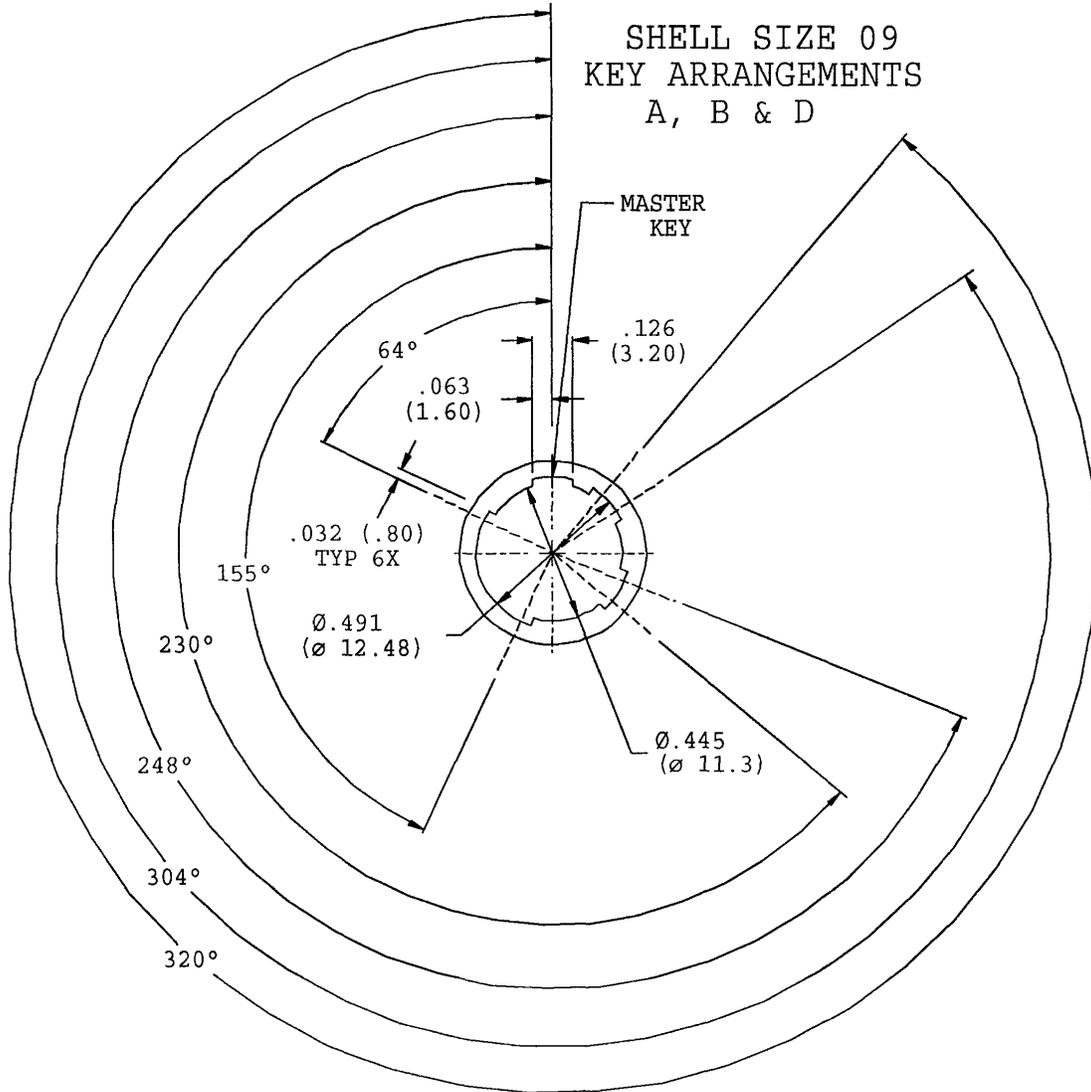


FIGURE 1. Receptacle, classes F, G, J, K, M, R, S, W and X.



Metric dimensions (mm) are indicated in parentheses.

FIGURE 2. Receptacle, classes F, G, J, K, M, R, S, W, AND X.

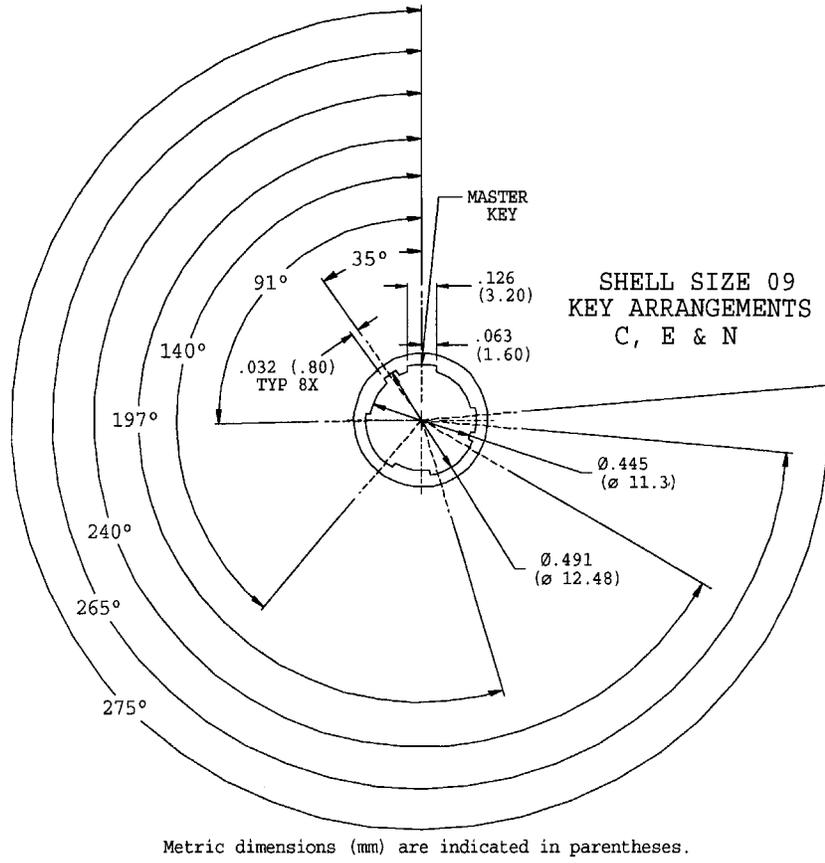
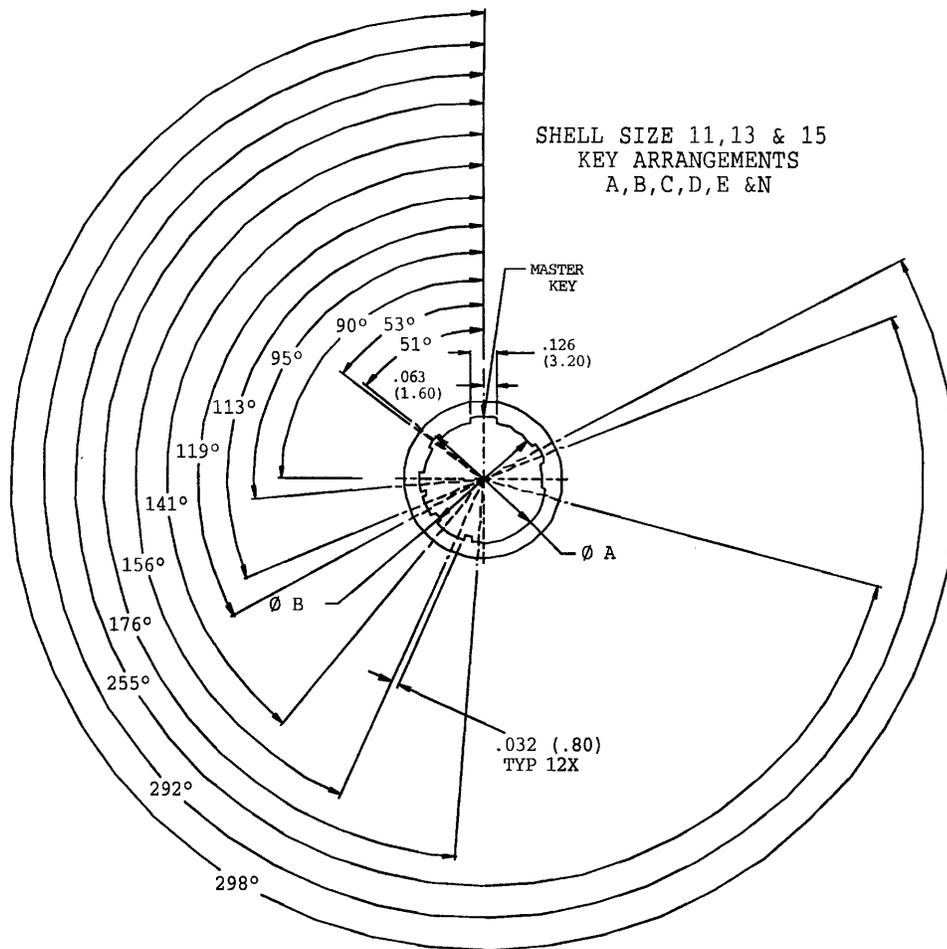


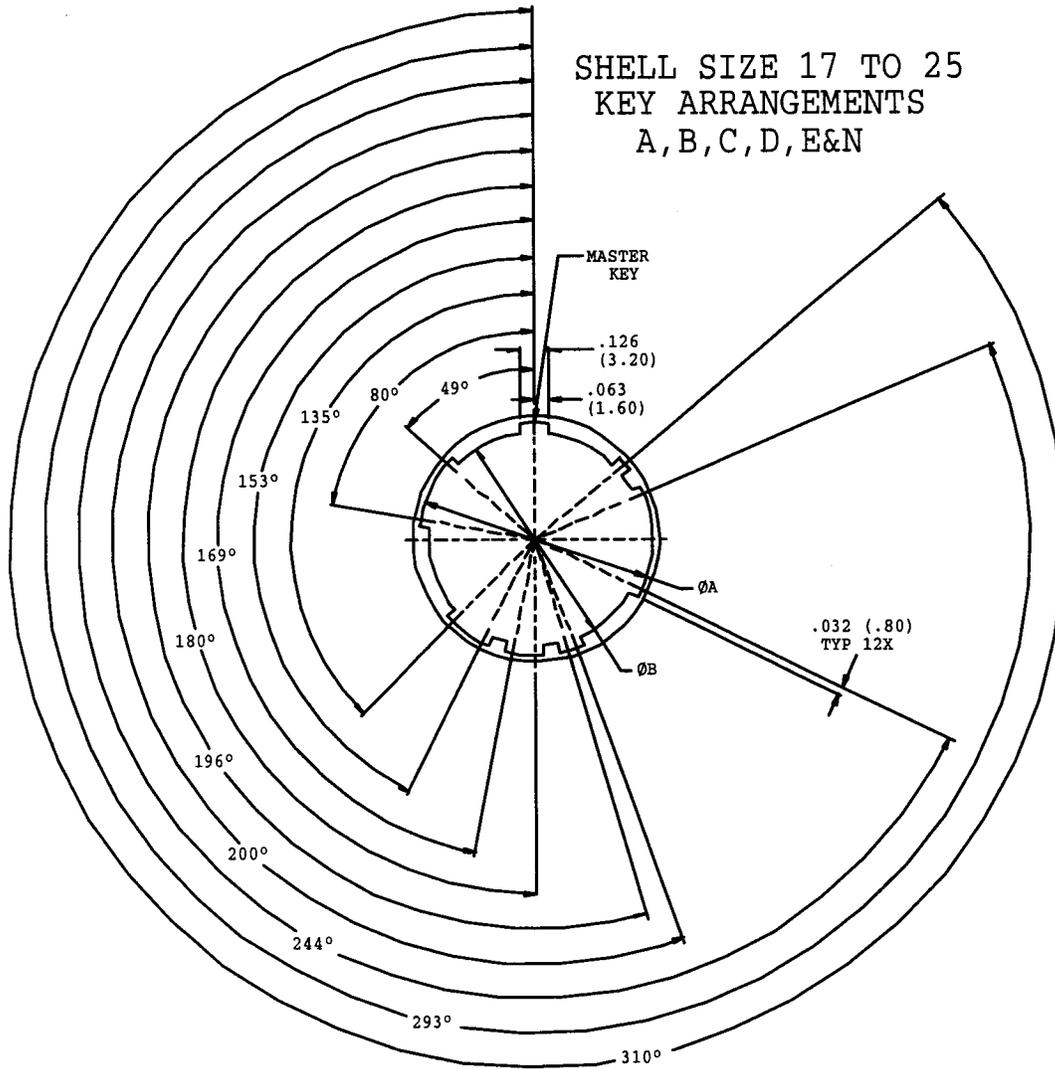
FIGURE 3. Receptacle, classes F, G, J, K, M, R, S, W, and X.



Metric dimensions (mm) are indicated in parentheses.

Shell size	A DIA	B DIA
11	.620 (15.74)	.572 (14.54)
13	.769 (19.52)	.684 (17.38)
15	.894 (22.70)	.809 (20.54)

FIGURE 4. Receptacle, classes F,G,J, K, M, R, S, W, and X.



Metric dimensions (mm) are indicated in parentheses.

Shell size	A DIA	B DIA
17	1.019 (25.88)	.934 (23.72)
19	1.123 (28.52)	1.039 (26.40)
21	1.249 (31.72)	1.165 (29.58)
23	1.374 (34.90)	1.289 (32.74)
25	1.498 (38.06)	1.414 (35.92)

FIGURE 5. Receptacle, classes F, G, J, K, M, R, S, W, and X.

MIL-DTL-38999/22E

Dimensions							
Shell size	Shell size code	A radius + .127 - .000	B + .000 - .127	P ± .20	PP ± .20	R1 (see note 4)	R2 (see note 5)
9	A	---	12.497	3.25	5.49	18.26	15.09
11	B	7.239	15.748	3.25	4.93	20.62	18.26
13	C	8.661	19.533	3.25	4.93	23.01	20.62
15	D	10.236	22.708	3.25	4.39	24.61	23.01
17	E	11.836	25.882	3.25	4.93	26.97	24.61
19	F	13.157	28.550	3.25	4.93	29.36	26.97
21	G	14.757	31.725	3.25	4.93	31.75	29.36
23	H	16.332	34.900	3.91	6.15	34.93	31.75
25	J	17.932	38.075	3.91	6.15	38.10	34.93

Dimensions						
Shell size	Shell size code	S ± .3	V + 0.00 - 0.13	V' + 1.4 - 0.0	W ± .3	W'
9	A	23.8	20.83	19.5	2.5	3.65/2.2
11	B	26.2	20.83	19.5	2.5	3.65/2.2
13	C	28.6	20.83	19.5	2.5	3.65/2.2
15	D	31.0	20.83	19.5	2.5	3.65/2.2
17	E	33.3	20.83	19.5	2.5	3.65/2.2
19	F	36.5	20.83	19.5	2.5	3.65/2.2
21	G	39.7	20.07	18.7	3.2	4.35/2.9
23	H	42.9	20.07	18.7	3.2	4.35/2.9
25	J	46.0	20.07	18.7	3.2	4.35/2.9

NOTES:

1. Dimensions are in millimeters.
2. Flange is solid.
3. Dummy receptacles are used when unmated plugs must be protected.
4. Dimensions required for intermountability with front or rear mounting series I.
5. Dimensions required for intermountability with front mounting series II.

FIGURE 5. Receptacle, classes F, G, J, K, M, R, S, W and X - Continued.

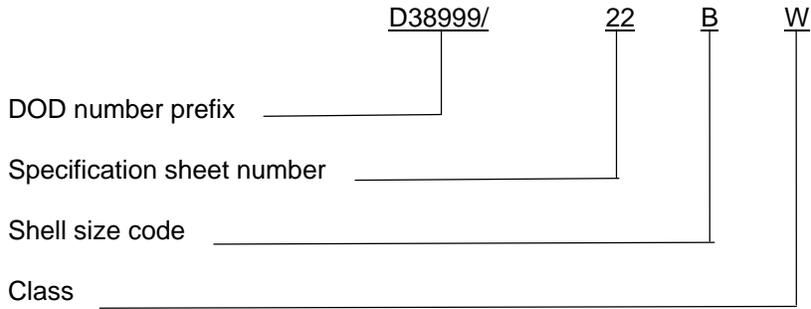
MIL-DTL-38999/22E

REQUIREMENTS:

Dimensions and configuration: See figures 1 thru 5. Interface dimensions shall conform to MIL-DTL-38999, except as noted.

This connector mates with MIL-DTL-38999/26, MIL-DTL-38999/29, MIL-DTL-38999/30, and MIL-DTL-38999/31.

Part or Identifying Number (PIN) example:



Class F is not for Navy use and is inactive for Air Force new design use.

Sealing Gasket Bonding: Sealing gasket shall be bonded to the shell to withstand all environments of MIL-DTL-38999 Series III without detaching from the shell.

NOTE: The term PIN is equivalent to the term (part number, identification number, and type designator) which was previously used in this specification.

QUALIFICATION:

Qualification shall consist of the dynamic salt spray test, altitude immersion, coupling torque, and visual and mechanical inspection as specified in MIL-DTL-38999, conducted on two samples of each shell size. For classes J and M also perform temperature cycling and hydrolytic stability.

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

- MIL-DTL-38999/26
- MIL-DTL-38999/29
- MIL-DTL-38999/30
- MIL-DTL-38999/31

MIL-DTL-38999/22E

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:  
DLA - CC

(Project 5935-4301-003)

Review activities:

Army - AR, MI  
Navy - EC, MC, OS  
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://www.dodssp.daps.mil>.