

INCH-POUND

MS90558E
3 January 2003
 SUPERSEDING
 MS90558D
 24 February 1976

DETAIL SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL, WALL MOUNTING, (WITH COUPLING RING) CLASS L, (EQUIPMENT RECEPTACLE)

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 and MIL-C-22992.

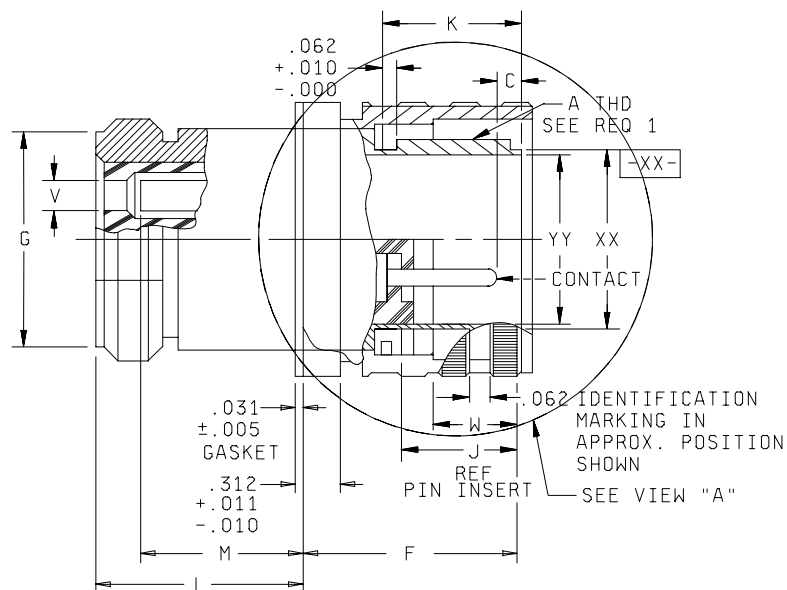


FIGURE 1. Receptacle.

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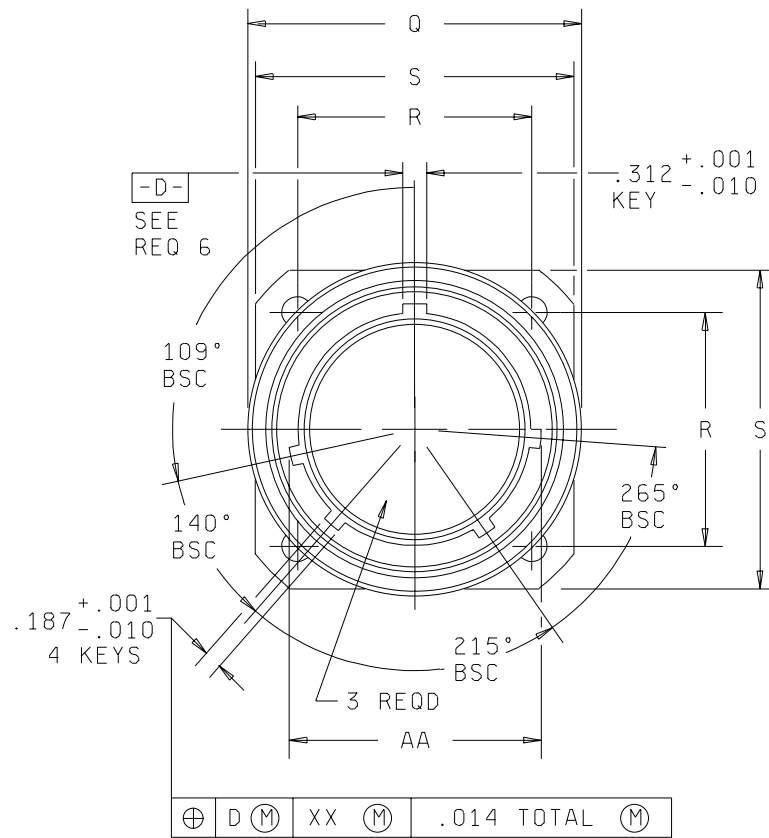


FIGURE 1. Receptacle - Continued.

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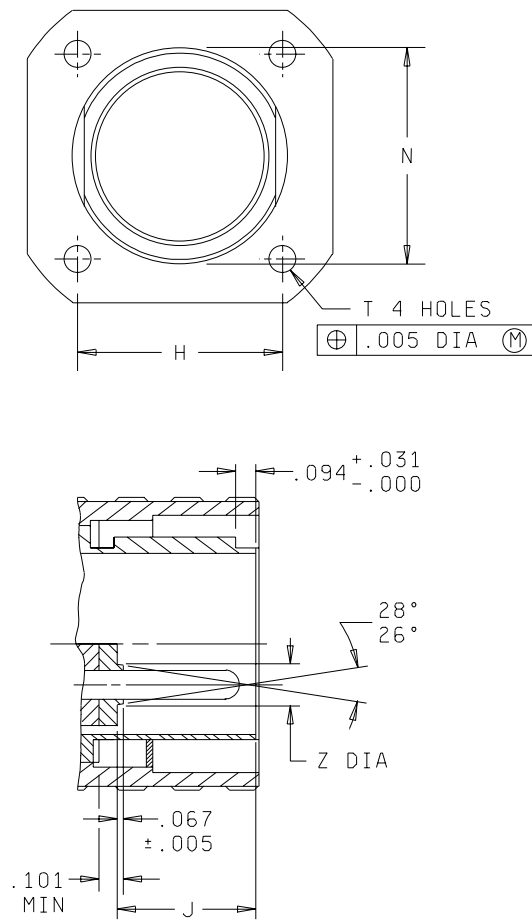


FIGURE 1. Receptacle - Continued.

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CONTACT SIZE	Z dia	V dia wire sealing range
4 / 0	.614 / .624	.700 / .790
2 / 0	.520 / .530	.530 / .655
1 / 0-1	.471 / .481	.457 / .585
4	.339 / .349	.356 / .430
6	.292 / .302	.300 / .360

Shell Size	C ± .047			F + .016 - .000	J ± .016	K ± .005	W ± .031
	PHASE	NEUTRAL	GROUND				
28	.196	.078	.078	2.639	1.370	1.557	1.062
32	.196	.078	.078	2.639	1.370	1.557	1.062
44	.196	.078	.547	2.998	1.589	1.776	1.281
48	.196	.078	.547	2.998	1.589	1.776	1.281
52	.196	.078	.547	2.998	1.589	1.776	1.281

FIGURE 1. Receptacle - Continued.

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Shell Size	A THREAD CLASS 2B	G dia + .006 - .010	H + .001 - .010	L \pm .031	M \pm .047	N + .011 - .020	Q dia max
28	2.000-.1428P-.2857L	1.938	1.812	.959	.328	2.000	2.312
32	2.250-.1428P-.2857L	2.188	2.062	.959	.328	2.250	2.562
44	3.000-.1428P-.2857L	3.062	2.812	1.021	.390	3.125	3.531
48	3.250-.1428P-.2857L	3.312	3.062	1.021	.390	3.375	3.781
52	3.500-.1428P-.2857L	3.562	3.312	1.021	.390	3.625	4.016

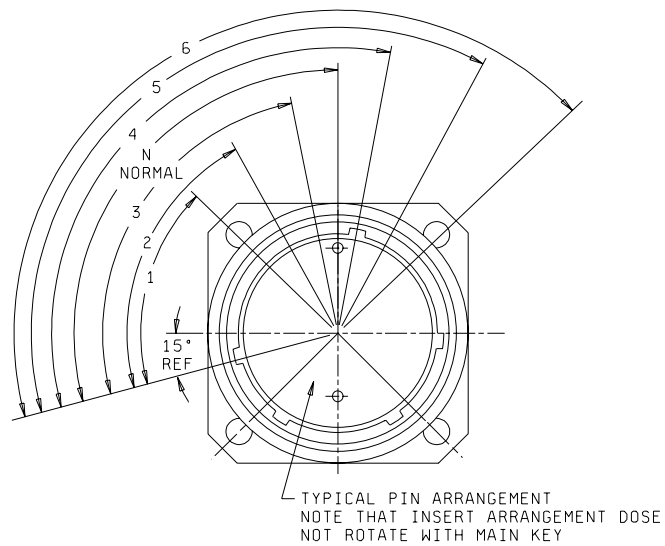
ShellSize	R (BSC)	S + .021 - .020	T \pm .005	AA dia + .006 - .005	XX dia + .001 - .010	YY dia + .010 - .001
28	1.844	2.375	.177	1.672	1.522	1.370
32	2.062	2.625	.209	1.922	1.772	1.620
44	2.812	3.375	.281	2.672	2.522	2.296
48	3.000	3.625	.281	2.891	2.725	2.551
52	3.156	3.875	.281	3.141	2.975	2.801

NOTES:

1. Dimensions are in inches. Unless otherwise specified tolerance is \pm .016
2. For protective cover see standard MS90564.

FIGURE 1. Receptacle - Continued.

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Nongrounding assemblies: finish N

Shell size	Shell main key positions
	2 wire
	28 V DC
28	N (105°)
32	N (105°)
44	N (105°)
48	N (105°)
52	N (105°)

FIGURE 1. Receptacle - Continued.

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GROUNDING ASSEMBLIES: FINISH C

Shell Size	Shell main key positions						
	60 Hz & 400 Hz (see note 1)						
	1 Ø		3 Ø			3 Ø (see note 2)	
	2 wire		3 wire	4 wire			3 wire
	120 V	240V	120/240 V	120/208 V	240/416 V	277/480 V	450/480 V
28	4 (120°)	5 (135°)	4 (120°)	4 (120°)	5 (135°)	6 (150°)	-----
32	4 (120°)	5 (135°)	4 (120°)	4 (120°)	5 (135°)	6 (150°)	-----
44	4 (120°)	-----	4 (120°)	4 (120°)	5 (135°)	6 (150°)	1 (60°)
48	-----	-----	4 (120°)	4 (120°)	5 (135°)	6 (150°)	-----
52	-----	-----	4 (120°)	4 (120°)	5 (135°)	6 (150°)	-----

NOTES:

1. Discrimination of 60 Hz & 400 Hz assemblies is accomplished by alternate positioning of inserts. See applicable insert drawing for keying.
2. For Navy ground support equipment use only. Arrangement 44-51, 44-52 and 44-56 are not applicable.
3. Shell main key positions 2 and 3 not used.

FIGURE 1. Receptacle - Continued.

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REQUIREMENTS:

Mates with plugs shown on standard MS90557

The part number shall include the size, finish, shell alternate position.

Inserts and contacts are removable.

For final installation contacts will be assembled in all insert holes.

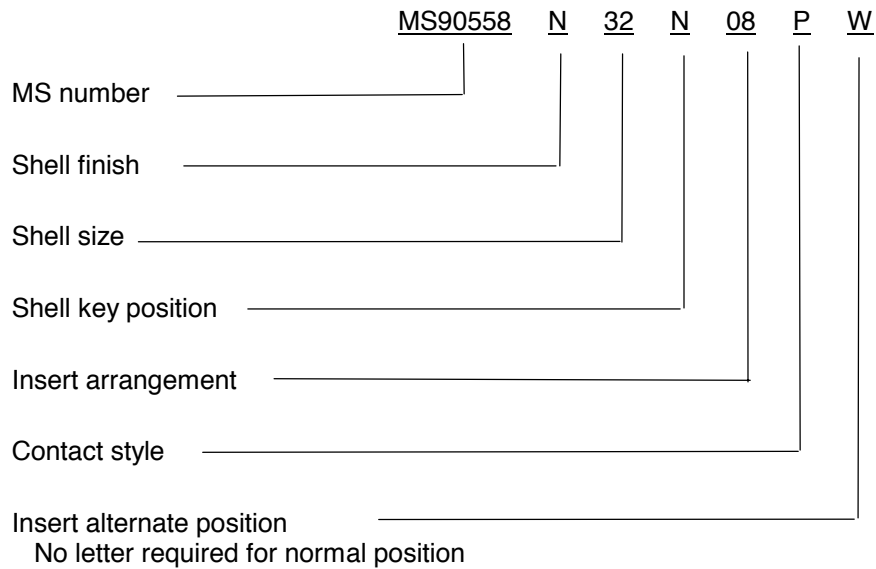
Shell and nut finish shall be designated by the letter C (conductive) or N (non-conductive).

Normal key position. For alternate key positions see page 5.

For insert arrangement see standards MS 90565 thru MS 90567, MS14054, MS14055, and MS14057.

Covers per MS90564 shall be supplied with connector.

Part or Identifying Number (PIN) example:



CONCLUDING MATERIAL

Custodians:

Army – CR

Navy – EC

Air Force – 11

DLA – CC

Preparing activity

DAL – CC

Review activities:

Army – AR, MI

Navy – AS, CG, MC, OS

Air Force – 19, 80

(Project 5935–4419–007)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL			
<p align="center">INSTRUCTIONS</p> <p>1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.</p> <p>2. The submitter of this form must complete blocks 4, 5, 6, and 7, and send to preparing activity.</p> <p>3 The preparing activity must provide a reply within 30 days from receipt of the form.</p> <p>NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.</p>			
I RECOMMEND A CHANGE:		1. DOCUMENT NUMBER MS90558E	2. DOCUMENT DATE (YYYYMMDD) 2003/01/03
3. DOCUMENT TITLE Connector, Receptacle, Electrical, Wall Mounting (With coupling Ring), Class L (Equipment Receptacle)			
4. NATURE OF CHANGE <i>(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)</i>			
5. REASON FOR RECOMMENDATION			
6. SUBMITTER			
a. NAME <i>(Last, First, Middle Initial)</i>		b. ORGANIZATION	
c. ADDRESS <i>(Include zip code)</i>	d. TELEPHONE <i>(Include Area Code)</i> (1) Commercial (2) DSN <i>(if applicable)</i>		7. DATE SUBMITTED (YYYYMMDD)
8. PREPARING ACTIVITY			
a. NAME Defense Logistics Agency Defense Supply Center, Columbus		b. TELEPHONE <i>(Include Area Code)</i> (1) Commercial 614-692-0565 (2) DSN 850-0565	
c. ADDRESS <i>(Include Zip Code)</i> DSCC-VAI 3990 E. Broad St. Columbus, Ohio 43213		IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Standardization Program Office (DLSC-LM) 8725 John J. Kingman Road, Suite 2533 Fort Belvoir, Virginia 22060-6621 Telephone (703) 767-6888 DSN 427-6888	