

INCH-POUND

MS90555E
 3 January 2003
 SUPERSEDING
 MS90555D
 24 February 1976

MILITARY SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL, WALL MOUNTING,
 CLASS L (POWER SOURCE 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.

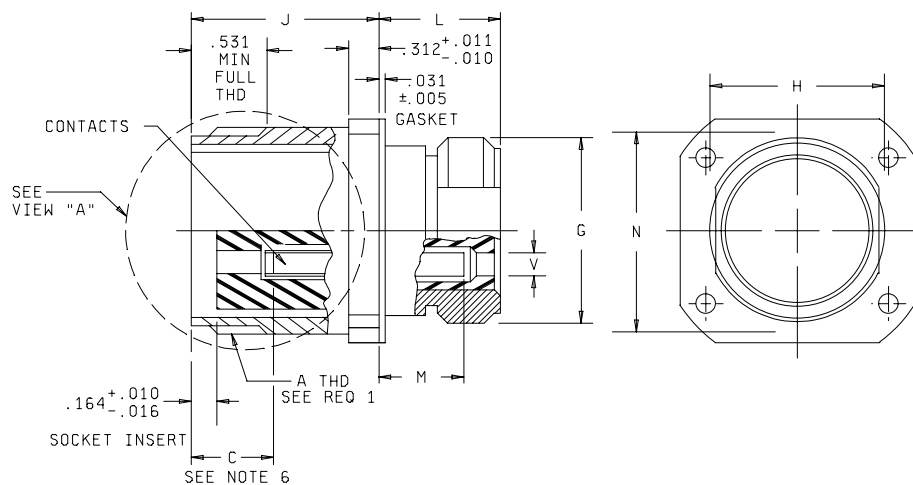
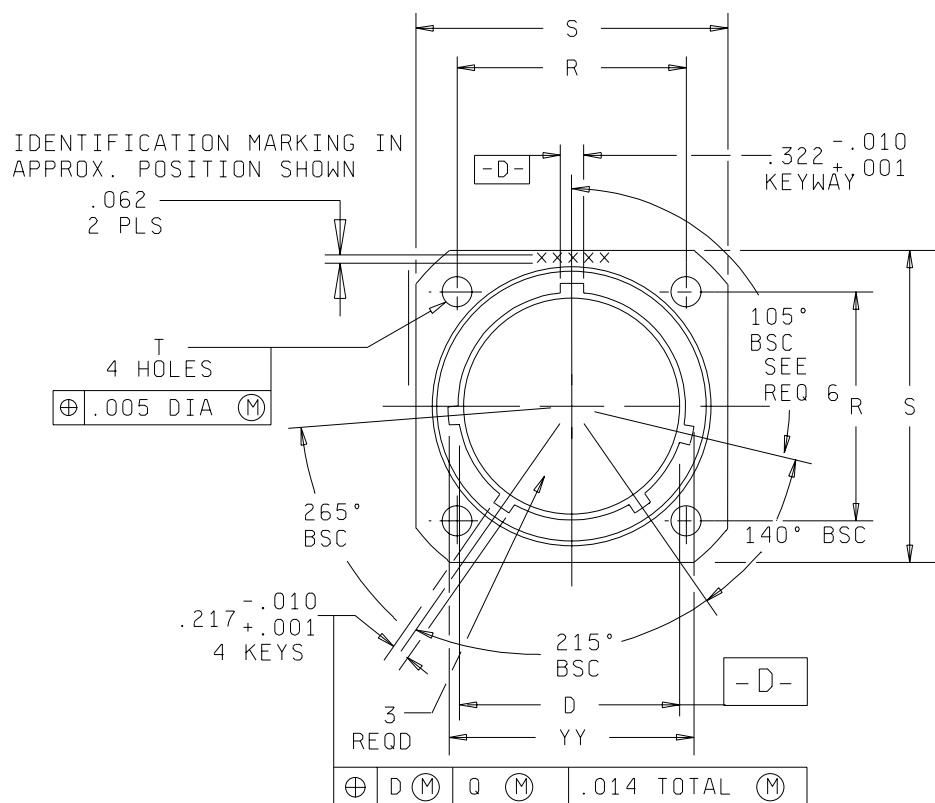
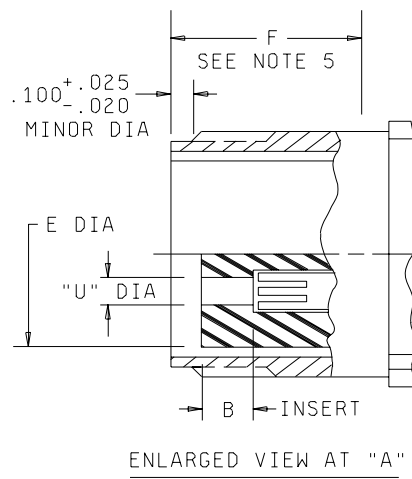


FIGURE 1. Receptacle.

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FIGURE 1. Receptacle – Continued.

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Contact size	U dia	V dia Wire sealing range
4 / 0	.510 / .515	.700 / .790
2 / 0	.416 / .421	.530 / .655
1 / 0 – 1	.367 / .372	.457 / .585
4	.235 / .240	.356 / .430
6	.188 / .193	.300 / .360

FIGURE 1. Receptacle – Continued.

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Shell Size	A thread Class 2A	B + .020 - .010		C max		D dia + .005 - .010	E dia max	F ± .005
		Phase & neutral	Ground	Phase & neutral	Ground			
28	2.000-1428P-2857L	.523	.523	.913	.913	1.538	1.281	1.514
32	2.250-1428P-2857L	.523	.523	.913	.913	1.788	1.562	1.514
44	3.000-1428P-2857L	.742	.273	1.138	.663	2.545	2.239	1.733
48	3.250-1428P-2857L	.742	.273	1.156	.663	2.755	2.494	1.733
52	3.500-1428P-2857L	.742	.273	1.156	.663	3.005	2.744	1.733

Shell Size	G dia + .006 - .010	H + .001 - .010	J + .016 - .000	L ± .031	M ± .047	N dia + .011 - .020	R (BSC)	S + .021 - .020	T ± .005	YY dia + .010 - .006
28	1.938	1.812	2.188	1.376	.750	2.000	1.844	2.375	.177	1.692
32	2.188	2.062	2.188	1.376	.750	2.250	2.062	2.625	.209	1.942
44	3.062	2.812	2.532	1.438	.812	3.125	2.812	3.375	.281	2.692
48	3.312	3.062	2.532	1.438	.812	3.375	3.000	3.625	.281	2.911
52	3.582	3.312	2.532	1.438	.812	3.625	3.156	3.875	.281	3.161

NOTES:

1. Dimensions are in inches. Unless otherwise specified, tolerance is ± .016.
2. For protective cover, see standard MS90563.
3. F dimension from the front of the shell to the shoulder.
4. This is a depth at which a square ended gauge pin of the same basic diameter as the mating pin, first engages the spring of the socket contact.

FIGURE 1. Receptacle – Continued.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

Mating: This receptacle mates with MS90556 plugs.

Inserts and contacts: Removable.

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

Shell and nut finish: C (conductive) or N (nonconductive).

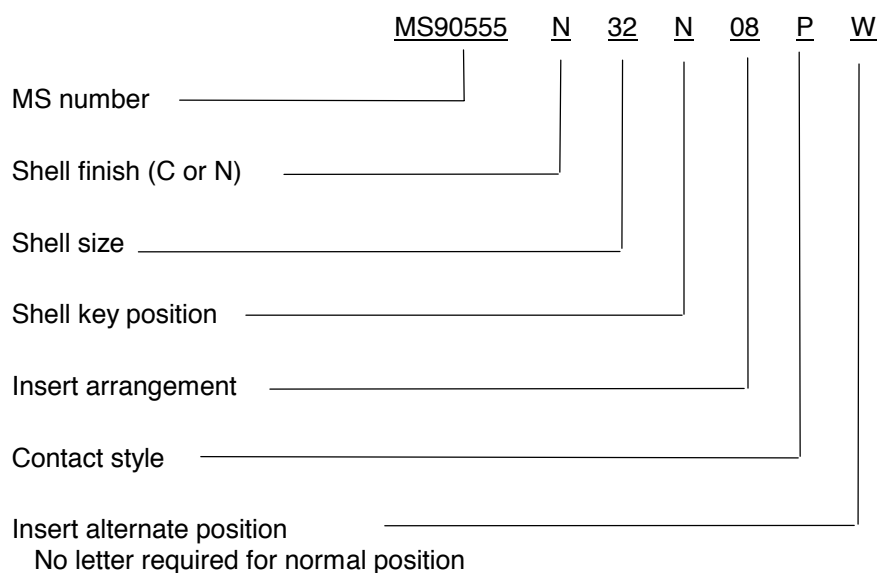
Normal keyway position: See figure 1.

Alternate keyway position: See figure 2.

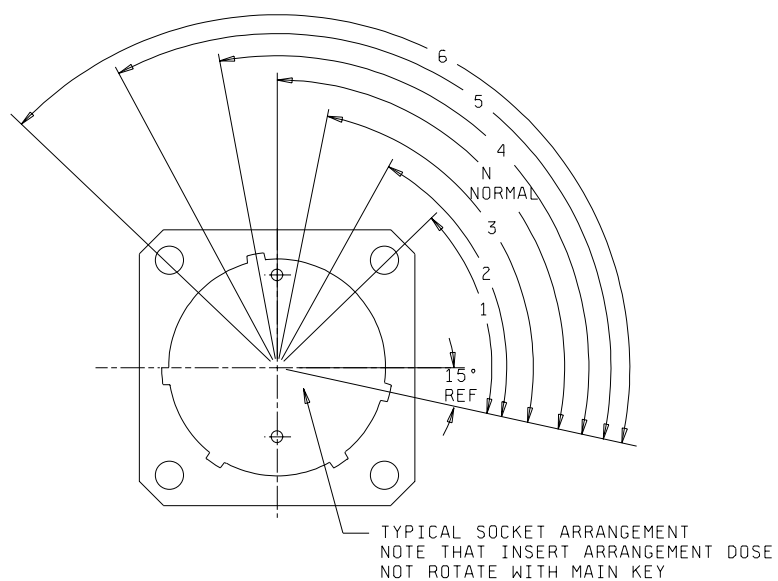
Insert arrangements: See MS90565 thru MS90567, MS14054, MS14055, and MS14057.

Cover: In accordance with MS 90563, shall be supplied with the connector.

Part or Identifying Number (PIN) example:



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Finish N (nongrounding assemblies)

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 2 Alternate key position.

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Finish C (nongrounding assemblies)

Shell size	Shell main key position						
	1Ø			3Ø			3Ø (see note 2)
	2 wire		3 wire	4 wire			3 wire
	120 V	240 V	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 and 400 Hz assemblies is accomplished by alternate positioning of inserts. See applicable insert drawing for keying.
2. For Navy ground support equipment use only. Arrangements 44-51, 44-52 & 44-56 are not applicable.
3. Shell main key positions 2 and 3 are not used.

FIGURE 2. Alternate key position - Continued.

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

Review activities:

Army - MI
 Navy - AS, CG, MC, OS
 Air Force - 19

(Project 5935-4514)

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I RECOMMEND A CHANGE:		1. DOCUMENT NUMBER MS90555E	2. DOCUMENT DATE (YYYYMMDD) 2003/01/03
3. DOCUMENT TITLE Connector, Receptacle, Electrical, Wall Mounting, Class L (Power Source 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)
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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	