

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.

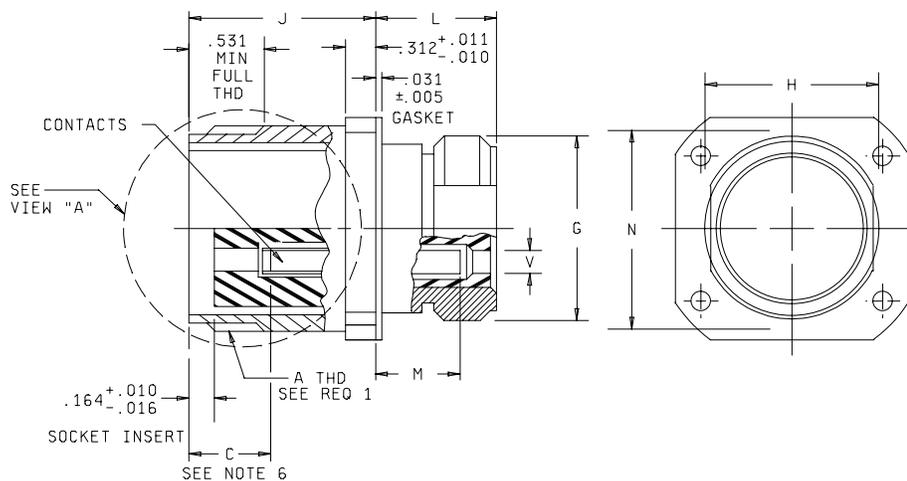


FIGURE 1. Receptacle.

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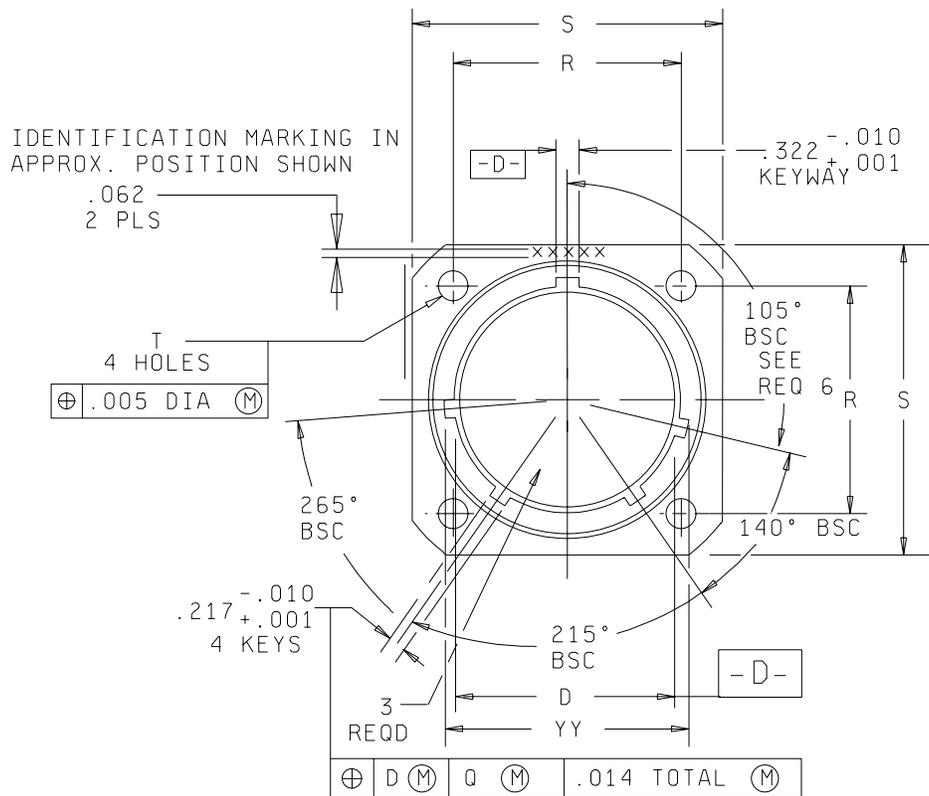
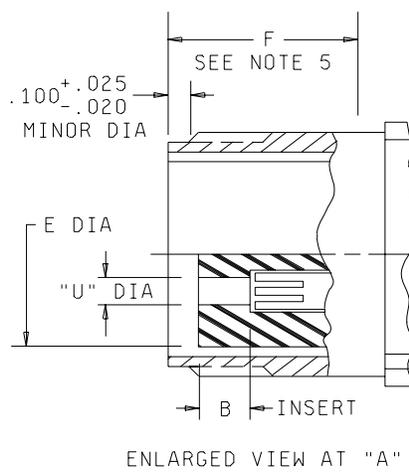


FIGURE 1. Receptacle – Continued.

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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).

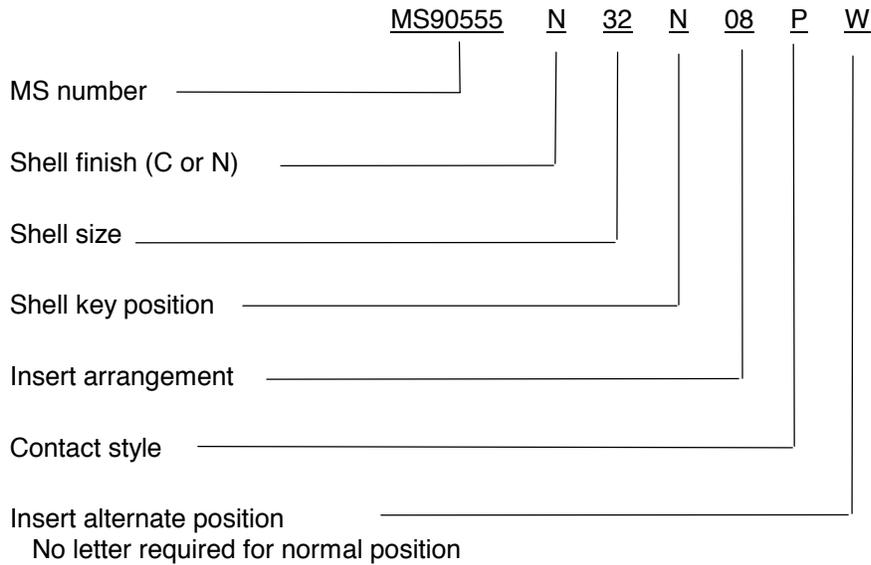
Normal keyway position: See figure 1.

Alternate keyway position: See figure 2.

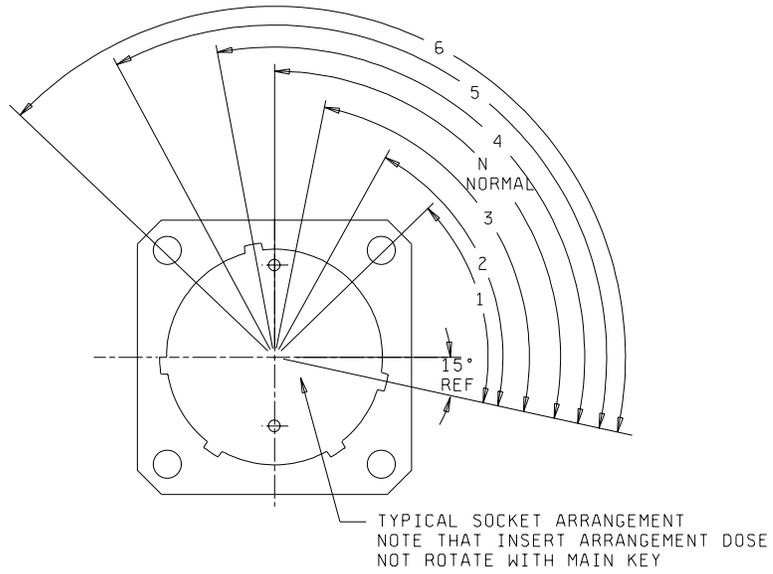
Insert arrangements: See MS90565 thru MS90567, MS14054, MS14055, and MS14057.

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  
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(Project 5935-4514)

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3. DOCUMENT TITLE <b>Connector, Receptacle, Electrical, Wall Mounting, Class L (Power Source Receptacle)</b>			
4. NATURE OF CHANGE ( <i>Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.</i> )			
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