



**DEFENSE LOGISTICS AGENCY**  
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IN REPLY  
REFER TO

DSCC-VAI (William Carpenter/DSN 850-0573/(614)-692-0573)

September 29, 2004

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of MS27399, Connector, Electrical, Style S, Rack and Panel, Miniature,  
Closed Entry, project number 5935-4767-000.

The initial drafts for this subject document, dated 29 September 2004, is now available for viewing and downloading from the DSCC-VA Web site:

<http://www.dsccl.dla.mil/programs/milspec/>

The major changes to this document include changing the format of the document into slash sheet format and adding how to construct the Part or Identifying Number (PIN).

Concurrence or comments are required at this Center within 45 days from the date of this letter. Late comments will be held for the next coordination of the document. 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 custodians of this office, as applicable, in sufficient time to allow for consolidating the department reply.

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/signed/

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VSC Michael Jones  
VQP Richard Marbias  
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NOTE: This draft, dated 29 September 2004 prepared by DLA-CC, has not been approved and is subject to modification. DO NOT USE PRIOR TO APPROVAL. (PROJECT 5935-4767-000)

INCH-POUND

MS27399A  
 DRAFT  
 SUPERSEDING  
 MS27399  
 15 June 1965

DETAIL SPECIFICATION SHEET

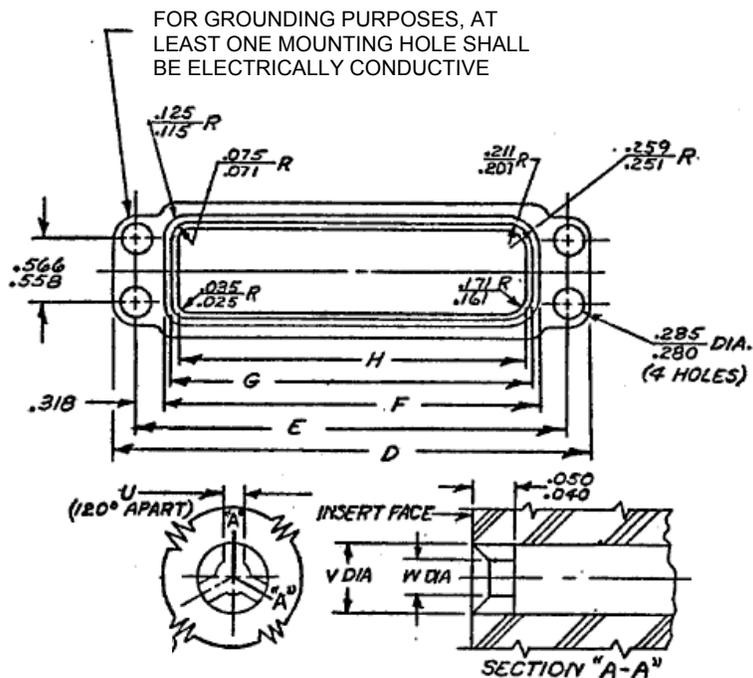
CONNECTORS, ELECTRICAL, STYLE S,  
 RACK AND PANEL, MINIATURE, CLOSED ENTRY

Inactive for new design after 8 June 1999.

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-26518.

The Qualified Products List (QPL) associated with this inactive for new design specification will be maintained until acquisition of the product is no longer required, where upon the specification and QPL will be canceled.

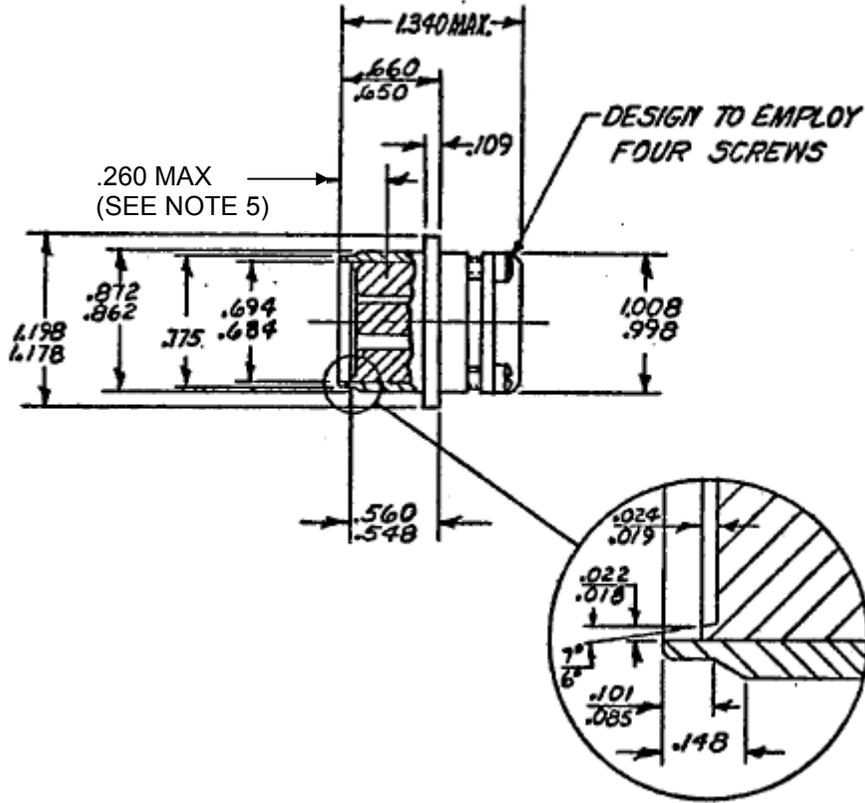


Style S (socket insert)

Environment Resistant (R) Plugs

FIGURE 1. Connector dimensions and configurations.

MS27399A



Shell size	D ±.005	E ±.004	F ±.005	G	H ±.005
A	4.296	3.875	3.239	3.147	3.061
B	2.866	2.445	1.809	1.717	1.631
C	2.421	2.000	1.380	1.288	1.202

Contact pocket dimensions														
DIM	Contact size													
	20		16		12		8		4		Shielded			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	No. 1		No. 2	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
U	.017	.020	.028	.031	.034	.038	.040	.044	.040	.044	.034	.038	.040	.044
V	.110	.113	.145	.148	.192	.196	.283	.287	.368	.372	.192	.196	.283	.287
W	.048	.062	.082	.086	.129	.133	.224	.228	.308	.312	.129	.133	.224	.228

FIGURE 1. Connector dimensions and configurations - Continued.

MS27399A

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.017	0.43	.085	2.16	.251	6.38	.872	22.15
.018	0.46	.086	2.18	.259	6.58	.998	25.35
.019	0.48	.101	2.57	.280	7.11	1.008	25.60
.020	0.51	.109	2.77	.283	7.19	1.178	29.92
.022	0.56	.110	2.79	.285	7.24	1.198	30.43
.024	0.61	.113	2.87	.287	7.29	1.202	30.53
.025	0.64	.115	2.92	.308	7.82	1.288	32.72
.028	0.71	.125	3.18	.312	7.92	1.340	34.04
.031	0.79	.129	3.28	.318	8.08	1.380	35.05
.034	0.86	.133	3.38	.368	9.35	1.631	41.43
.035	0.89	.145	3.68	.372	9.45	1.717	43.61
.038	0.97	.148	3.76	.548	13.92	1.809	45.95
.040	1.02	.161	4.09	.558	14.17	2.000	50.80
.044	1.12	.171	4.34	.560	14.22	2.421	61.49
.048	1.22	.192	4.88	.566	14.38	2.445	62.10
.050	1.27	.196	4.99	.650	16.51	2.866	72.80
.062	1.57	.207	5.26	.660	16.76	3.061	77.75
.071	1.80	.211	5.36	.684	17.37	3.147	79.93
.075	1.91	.224	5.69	.694	17.63	3.239	82.27
.082	2.08	.228	5.79	.775	19.69	3.875	98.43
				.862	21.89	4.296	109.12

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are  $\pm 0.003$  inch (0.08 mm).
4. For insert arrangements see MS24288.
5. Distance between end of shell and point at which a gage pin, having the same basic diameter as the mating contact and a square face, engages socket contact spring.

FIGURE 1. Connector dimensions and configurations - Continued.

MS27399A

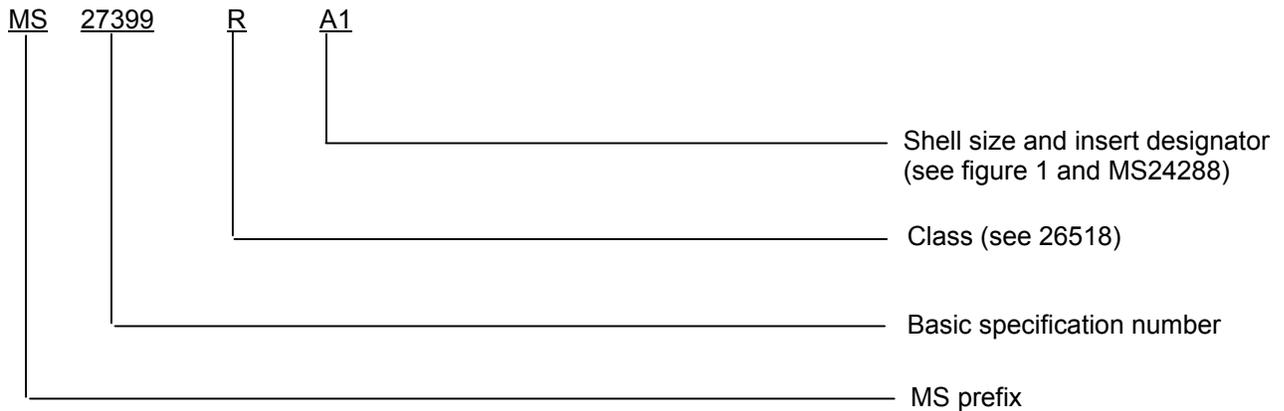
REQUIREMENTS:

Dimensions and configuration see figure 1.

Materials shall be in accordance with MIL-DTL-26518.

For mating and mounting details see MS24287 and MS24288.

Part or Identifying Number (PIN):



Referenced documents: In addition to MIL-DTL-26518 this document references the following:

- MS24287
- MS24288

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.

CONCLUDING MATERIAL

Custodians:  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5935-4767-000)

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 [www.dodssp.daps.mil](http://www.dodssp.daps.mil).

<b>PROJECT NUMBER</b> 5935-4764-000	<b>COMPILATION OF COMMENTS</b>		(DOD use only) <b>COMMENT NUMBER</b>
<b>DOCUMENT NUMBER</b> MS27399A	<b>COMMENTOR (NAME OR CODE)</b>		<input type="checkbox"/> <b>MFR</b> <input type="checkbox"/> <b>USER</b> <input type="checkbox"/> <b>IND ASSOC</b>
<b>DOD USE ONLY</b>	<b>DEPT</b>	<input type="checkbox"/> <b>ARMY</b> <input type="checkbox"/> <b>NAVY</b> <input type="checkbox"/> <b>AF</b> <input type="checkbox"/> <b>DLA</b> <input type="checkbox"/> <b>NSA</b> <input type="checkbox"/> <b>CNDN</b> <input type="checkbox"/> <b>NASA</b>	<input type="checkbox"/> <b>ESSENTIAL</b> <input type="checkbox"/> <b>SUGGESTED</b>
<b>RECOMMENDED DISPOSITION OF COMMENTS</b>	<input type="checkbox"/> <b>ACCEPTANCE</b> <input type="checkbox"/> <b>NON-ACCEPTANCE-SEE REASON</b> <input type="checkbox"/> <b>WITHDRAW</b> <input type="checkbox"/> <b>MODIFY</b> <input type="checkbox"/> <b>DISCUSS</b>		
<b>FINAL DISPOSITION OF COMMENTS</b>	<input type="checkbox"/> <b>ACCEPTED</b> <input type="checkbox"/> <b>NON-ACCEPTED</b> <input type="checkbox"/> <b>WITHDRAWN</b> <input type="checkbox"/> <b>MODIFIED</b>		

DSCC FORM 155B

<b>PROJECT NUMBER</b> 5935-4767-000	<b>COMPILATION OF COMMENTS</b>		(DOD use only) <b>COMMENT NUMBER</b>
<b>DOCUMENT NUMBER</b> MS27399A	<b>COMMENTOR (NAME OR CODE)</b> _____		<input type="checkbox"/> <b>MFR</b> <input type="checkbox"/> <b>USER</b> <input type="checkbox"/> <b>IND ASSOC</b>
<b>DOD USE ONLY</b>	<b>DEPT</b>	<input type="checkbox"/> <b>ARMY</b> <input type="checkbox"/> <b>NAVY</b> <input type="checkbox"/> <b>AF</b> <input type="checkbox"/> <b>DLA</b> <input type="checkbox"/> <b>NSA</b> <input type="checkbox"/> <b>CNDN</b> <input type="checkbox"/> <b>NASA</b>	<input type="checkbox"/> <b>ESSENTIAL</b> <input type="checkbox"/> <b>SUGGESTED</b>
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