

INCH-POUND

MS27478G  
 13 April 2012  
 SUPERSEDING  
 MS27478F  
 12 July 2002

## DETAIL SPECIFICATION SHEET

CONNECTORS, RECEPTACLE, ELECTRICAL, SOLDER  
 MOUNTING, SOLDER TYPE, HERMETIC SEAL, SERIES II

Reactivated after 24 May 2004 and may be used  
 for new and existing designs and acquisitions.

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.

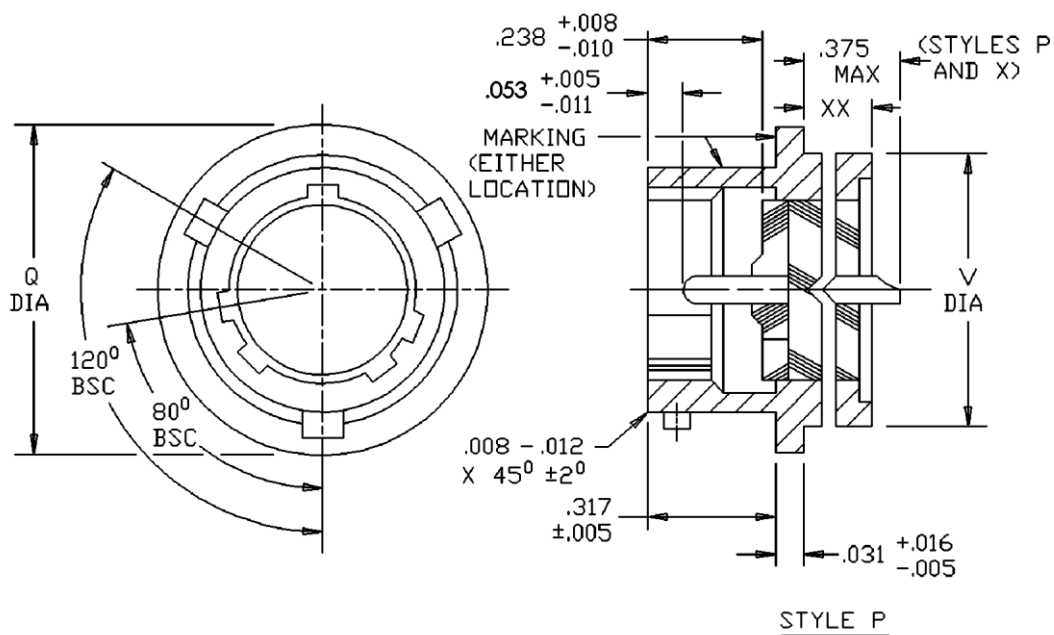
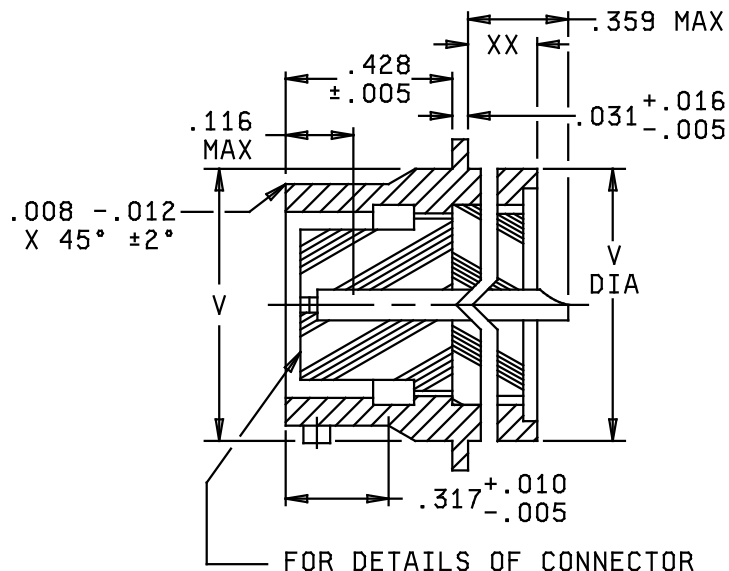


FIGURE 1. Receptacle, class Y.

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FOR DETAILS OF CONNECTOR FRONT END CONFIGURATION SEE PROCUREMENT SPECIFICATION

STYLE S

Shell size	Q +.011 -.010 dia	V +.001 -.005 dia	XX max
8	.687	.562	.125
10	.797	.672	
12	.906	.781	
14	1.031	.906	
16	1.156	1.031	
18	1.281	1.156	
20	1.375	1.250	
22	1.500	1.375	.156
24	1.625	1.500	

FIGURE 1. Receptacle, class Y – Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.016	0.41	.359	9.12	.906	23.01
.003	0.08	.031	0.79	.375	9.53	1.031	26.19
.005	0.13	.053	1.35	.428	10.87	1.156	29.36
.007	0.18	.116	2.95	.562	14.27	1.250	31.75
.008	0.20	.125	3.18	.672	17.07	1.281	32.54
.010	0.25	.156	3.96	.687	17.45	1.375	34.93
.011	0.28	.238	6.05	.781	19.84	1.500	38.10
.012	0.30	.317	8.05	.797	20.24	1.625	41.28

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. For main keyway polarization and keyway positions, see MIL-DTL-38999.

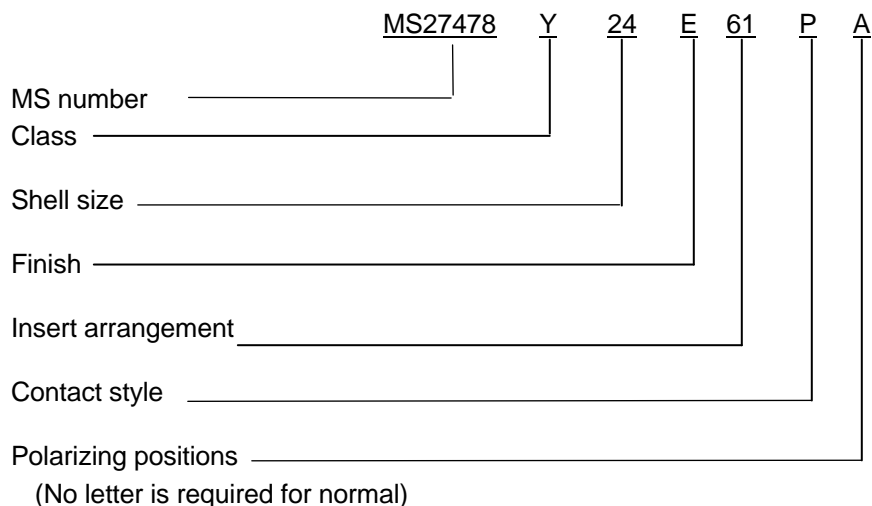
FIGURE 1. Receptacle, class Y – Continued.

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## REQUIREMENTS:

Dimensions and configuration: See figure 1. Interface dimensions shall conform to MIL-DTL-38999.  
 This receptacle mates with MS27473, MS27480, MS27484 and MS27500.  
 Insert arrangements: See MIL-STD-1560.

Part or Identifying Number (PIN) example:



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.

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

MIL-STD-1560  
 MS27473  
 MS27480  
 MS27484  
 MS27500

## CONCLUDING MATERIAL

## Custodians:

Army – CR  
 Navy – AS  
 Air Force - 85  
 DLA – CC

## Preparing activity:

DLA – CC

(Project: 5935-2012-038)

## Review activities:

Army – AR, MI  
 Navy – EC, MC, OS  
 Air Force – 19, 99  
 DLA – IS

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 <https://assist.daps.dla.mil>.