

INCH-POUND

MS27510G

12 July 2002

SUPERSEDING

MS27510F

31 March 1988

DETAIL SPECIFICATION SHEET

COVERS, PROTECTIVE, ELECTRICAL, CONNECTOR
PLUG, BAYONET COUPLING, SERIES II

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-DTL-38999.

Inactive for new design

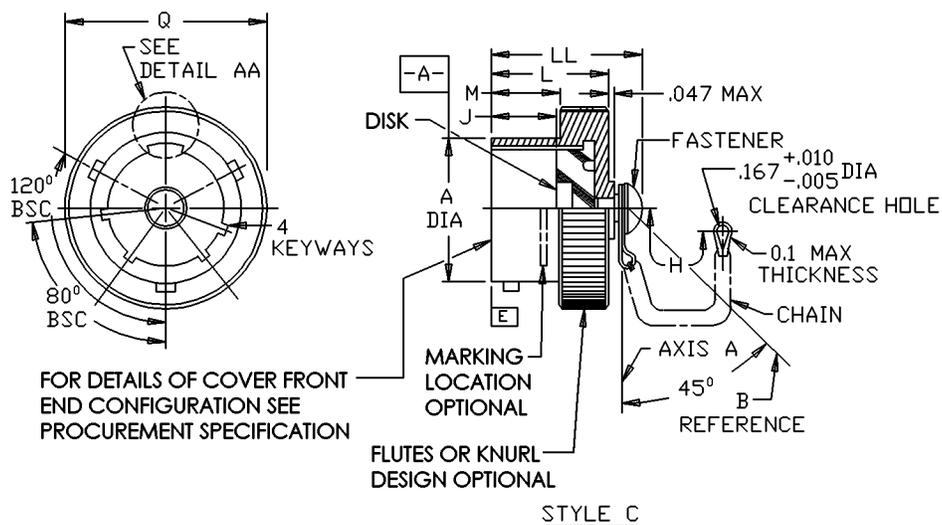
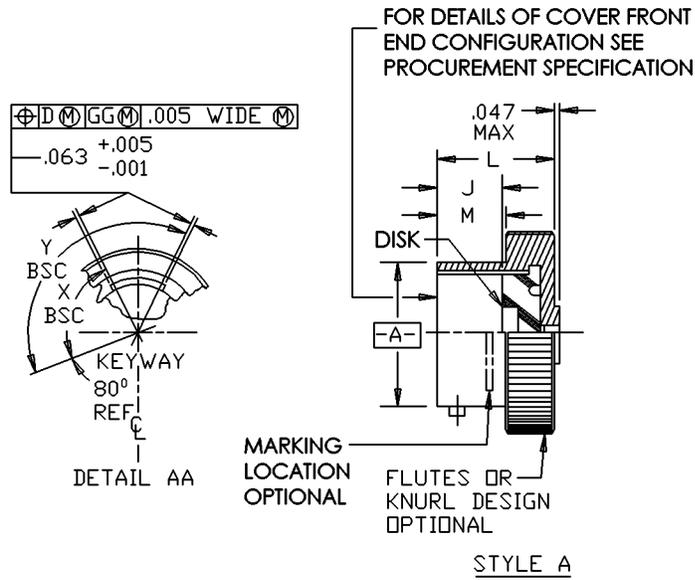


FIGURE 1. Cover.

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Shell size	A dia +.001 -.005	H +.500 -.250 standard chain length	J +.010 -.015	L max	M min	Q max dia	X BSC degree	Y BSC degree	LL max
8	.473	3.0	.222	.57	.31	.72	82°	118°	.82
10	.590					.85	72°	128°	
12	.750	1.00				68°	132°		
14	.875	1.13				66°	134°		
16	1.000	1.25				70°	130°		
18	1.125								
20	1.250	1.50				74°	126°		
22	1.375	1.63							
24	1.500	1.75							

FIGURE 1. Cover – Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	.03	.473	12.01	1.00	25.4	1.75	44.4
.005	.13	.500	12.70	1.125	28.58	3.0	76.2
.010	.25	.57	14.5	1.13	28.7	3.5	88.9
.015	.38	.59	15.0	1.25	31.8	4.0	101.6
.047	1.19	.72	18.3	1.375	34.92	5.0	127.0
.063	1.60	.75	19.0	1.38	35.1	6.0	152.4
.167	4.24	.82	20.8	1.50	38.1	7.0	177.8
.222	5.64	.85	21.6	1.63	41.4		
.250	6.35	.875	22.22				
.31	7.90						

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Finish: See MIL-DTL-38999.
4. BSC dimensions apply at maximum material condition (MMC).
5. The gauge features for GG shall be .004 inch (0.10 mm) smaller than MMC size at basic location.
6. Not for space born applications.

FIGURE 1. Cover – Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.
Interface dimensions shall conform to MIL-DTL-38999.

Material:

- Cap - Impact extruded or machined aluminum alloy.
- Disk - Silicone or fluorosilicone elastomer.
- Chain - Stainless steel, passivated, conforming to RR-C-271, type II, class 3.
- Fastener - Stainless steel, passivated.

Mating connectors: MIL-DTL-38999, series II plugs and MIL-C-27599, series II plugs.
The protective cover and chain assembly shall withstand a static tensile load of 35 pounds applied along the B reference line for 5 minutes.
Fastener tensile strength: Both axial and longitudinal directions shall be 25 pounds. The load shall be applied to the end of the chain.

Qualification:

- Examination of product.
- Mating and unmating forces.
- Humidity.
- Salt spray (corrosion).
- Fastener tensile strength (see requirement).
- Altitude immersion.

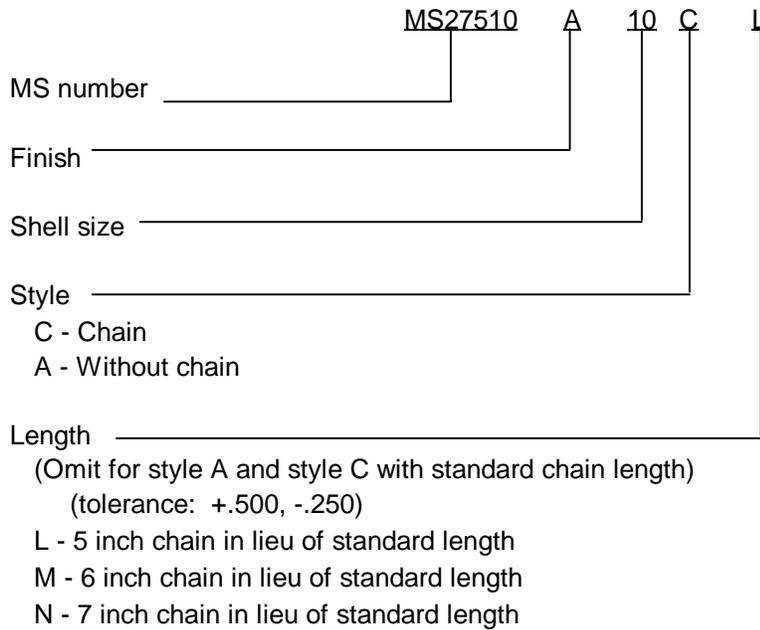
Group A sampling inspection. 100% inspection is not applicable. Sampling inspection shall be in accordance with table I:

TABLE I. Group A sampling plan.

Lot size	Sample size
1 to 13	100 percent
14 to 150	13 units
151 to 280	20 units
281 to 500	29 units
501 to 1,200	34 units
1,201 to 3,200	42 units

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Part or Identifying Number (PIN) example:



CONCLUDING MATERIAL

Custodians:

- Army – CR
- Navy – AS
- Air Force – 11
- DLA – CC

Preparing activity:

DLA – CC

(Project 5935–4382)

Review activities:

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