

METRIC

MIL-DTL-38999/51
22 May 2003

DETAIL SPECIFICATION SHEET

CONNECTOR, ELECTRICAL CIRCULAR, COVER,
PROTECTIVE, PLUG, MIL-DTL-38999 SERIES IV

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.

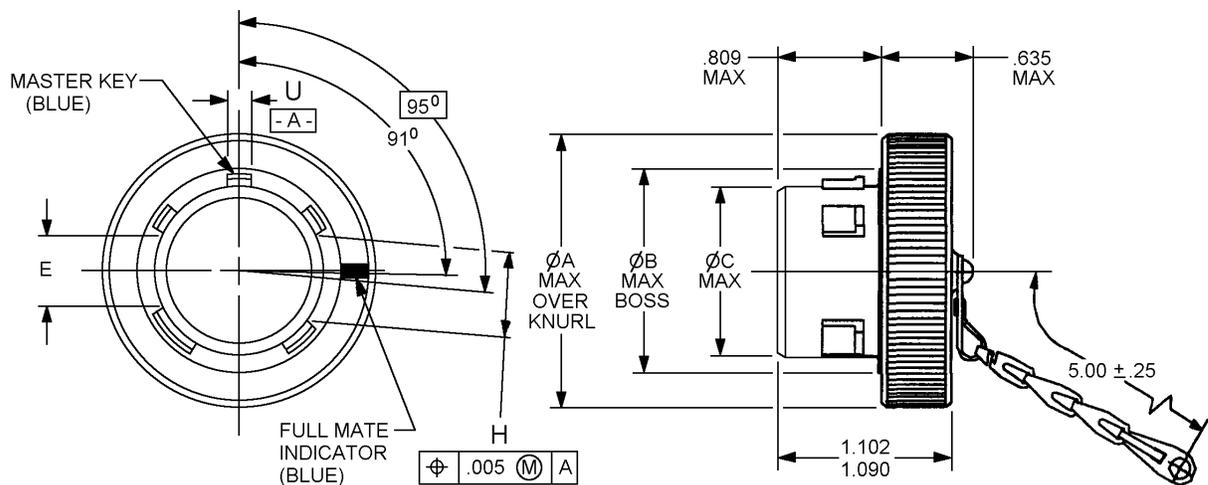
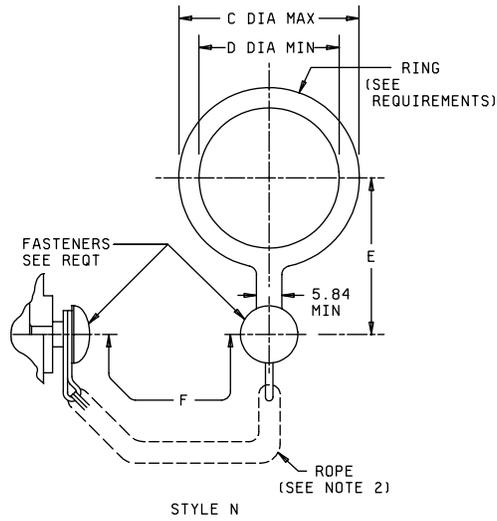


FIGURE 1. Protective cover, receptacle, all classes.



Dimensions						
Shell size	Φ A max	Φ B max	Φ C max	E	H	U max
11	1.380	.793	.509 .503	.242 .233	.509 .503	.065
13	1.570	.919	.634 .628	.289 .279	.634 .628	
15	1.660	1.044	.759 .753	.350 .340	.759 .753	.085
17	1.790	1.170	.885 .879	.393 .384	.885 .879	
19	1.920	1.294	1.009 1.003	.451 .441	1.009 1.003	.105
21	2.060	1.419	1.134 1.128	.493 .484	1.134 1.128	
23	2.250	1.544	1.259 1.253	.554 .545	1.259 1.253	.125
25	2.380	1.669	1.384 1.378	.597 .588	1.384 1.378	

NOTES:

1. Dimensions are in millimeters, except "A threads" which are in inches.
2. Method of attachment to cover and or ring is optional.

FIGURE 1. Protective cover, plug, all classes - Continued

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Material:

Cover - Classes C, F, G, R, W and X: Impact extruded or machined aluminum alloy.
Classes H, K, N, S and Y: Corrosion resistant steel.
Classes J and M: High performance resin in accordance with MIL-DTL-38999.
(Class F is inactive for new design.)

Gasket - Silicone elastomer.

Ring - Corrosion resistant steel, passivated, 1.020 maximum thickness.

Rope - Insulated stainless steel, passivated.
Insulation shall withstand 200°C environment.

Fastener - Stainless steel, passivated.
Option: Aluminum integral to cover.

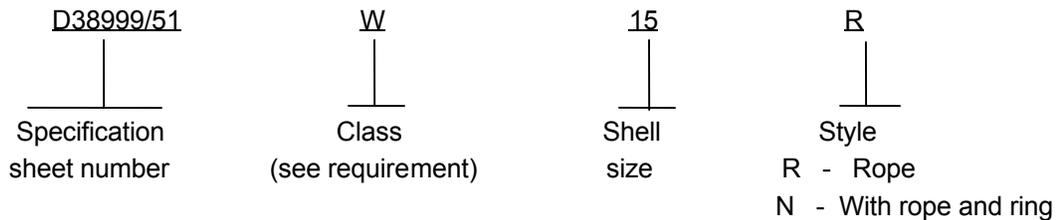
Mating connectors: MIL-DTL-38999, series IV.

Gasket shall be bonded to cover, or mechanically retained.

Rope shall rotate freely on fastener.

Fastener tensile strength: Both axial and longitudinal directions shall be 25 pounds. The load shall be applied to the end of the rope.

Part or Identifying Number (PIN) example:



Qualification:

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

For classes J and M also perform temperature cycling and hydrolytic stability.

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5935-4570)

Review activities:

- Army - MI
- Navy - EC, MC, OS
- Air Force - 19, 99