

INCH-POUND

MS3181G  
w/AMENDMENT 1  
30 August 2013  
SUPERSEDING  
MS3181G  
25 July 2012

## DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL CIRCULAR, COVER, PROTECTIVE, RECEPTACLE,  
MIL-DTL-26482 SERIES 1 AND 2, BAYONET COUPLING

Reactivated after 25 July 2012 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-26482.

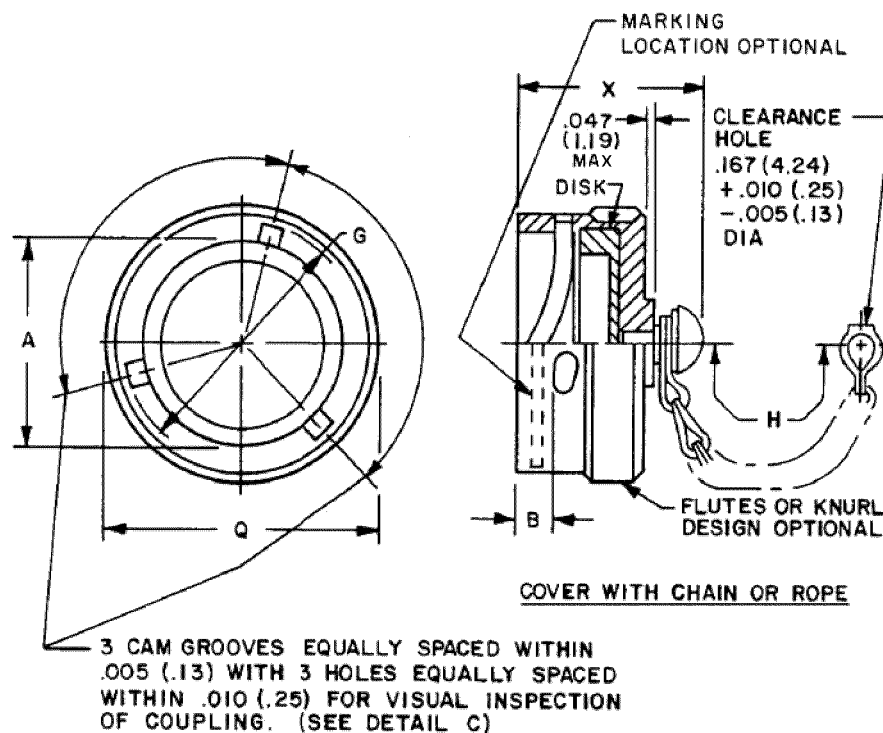


FIGURE 1. Protective cover, receptacle, all classes.

MS3181G  
w/AMENDMENT 1

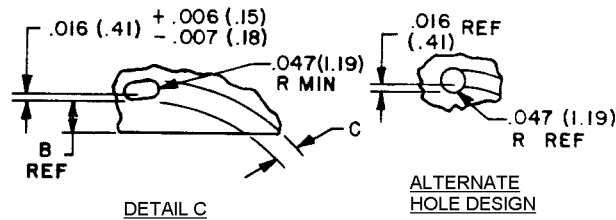
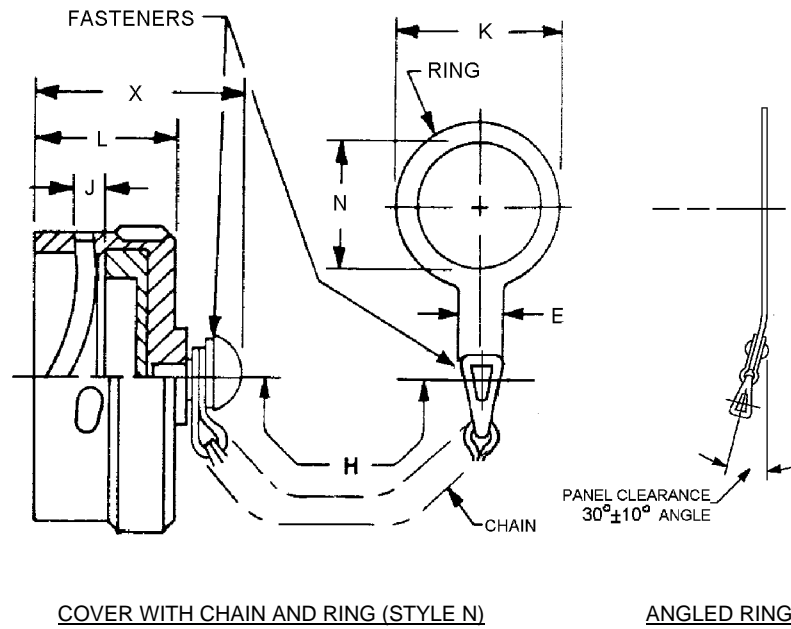


FIGURE 1. Protective cover, receptacle, all classes – Continued.

MS3181G  
w/AMENDMENT 1

Shell size	A inside dia (ID)  +.005 -.001  (+0.13 - 0.03)	B max bay lock loc.	C bay groove width +.016 / -.001 (+0.41 / -0.03)	G inside dia (ID) slots +.005 -.006  (+0.13 - 0.15)
8	.481 (12.22)	.149 (3.78)	.090 (2.29)	.576 (14.63)
10	.602 (15.29)			.697 (17.70)
12	.761 (19.33)			.871 (22.12)
14	.885 (22.48)			.995 (25.27)
16	1.010 (25.65)			1.120 (28.45)
18	1.136 (28.85)			1.245 (31.62)
20	1.260 (32.00)		.089/.153 (2.26 / 3.89)	1.370 (34.80)
22	1.385 (35.18)			1.495 (37.97)
24	1.510 (38.35)	.087 (2.21)	.137 (3.48)	1.624 (41.25)

FIGURE 1. Protective cover, receptacle, all classes – Continued.

MS3181G  
w/AMENDMENT 1

Shell size	H  +.500 -.250  (+12.70 - 6.35)  std chain / rope length	J  +.010 -.015  (+0.25 - 0.38)  disk (gasket) loc.	L  max length	Q  dia max overall	X  max length overall	K  outside dia (OD) max  ring	E  min   ring throat	N  inside dia (ID) min  ring		
8	3.000 (76.20)	.115 (2.92)	.562 (14.27)	.734 (18.64)	.844 (21.44)	.812 (22.62)	.234 (5.94)	.578 (14.68)		
10				.859 (21.82)		1.000 (25.40)		.703 (17.86)		
12	3.500 (88.90)			1.000 (25.40)		1.188 (30.18)		.891 (22.63)		
14				1.125 (28.58)		1.438 (36.53)		1.016 (25.81)		
16				1.250 (31.75)		1.562 (39.67)		1.141 (28.98)		
18				1.375 (34.92)		1.688 (42.88)		1.266 (32.16)		
20				4.000 (101.60)		1.500 (38.10)		1.872 (47.55)	1.391 (35.33)	
22	1.625 (41.28)					1.938 (49.23)		1.516 (38.51)		
24	.147 (3.73)					.602 (15.29)		1.750 (44.45)	.875 (22.22)	2.062 (52.37)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents (in parentheses) are given for information only.
- 3 True position (TP) tolerances specified are in accordance with ASME Y14.5.
4. Interchangeability dimensions shall be in accordance with MIL-DTL-26482.

FIGURE 1. Protective cover, receptacle, all classes – Continued.

# MS3181G w/AMENDMENT 1

## REQUIREMENTS:

Dimensions and configuration: See figure 1.

The chain or rope shall rotate freely on the fastener.

## Materials:

- a. Cover - aluminum alloy.
- b. Cover, bayonet pins - stainless steel, passivated.
- c. Chain - stainless steel, passivated in accordance with RR-C-271, type II, class 3.
- d. Disk (gasket) - silicone elastomer.
- e. Fasteners - stainless steel, passivated.
- f. Ring - stainless steel, passivated, .030 inches (0.76 mm) maximum thickness.
- g. Rope - 7 strand stainless steel, passivated.

Finish Designators (class E is superseded by class L):

- A - series 2, hard anodic, non-conductive in accordance with MIL-A-8625, type III, .0008 inch (0.020 mm) minimum thickness.
- L - series 2, electroless nickel, conductive, in accordance with MIL-DTL-26482.
- D - series 1 and 2, pure electrodeposited aluminum, conductive, in accordance with MIL-DTL-26482.
- T - series 1 and 2, nickel fluorocarbon polymer, conductive, in accordance with MIL-DTL-26482.
- W - series 1 and 2, cadmium, conductive (500 hr dynamic salt spray in accordance with MIL-DTL-26482.
- K - series 1 and 2, zinc-nickel, conductive, in accordance with MIL-DTL-26482.

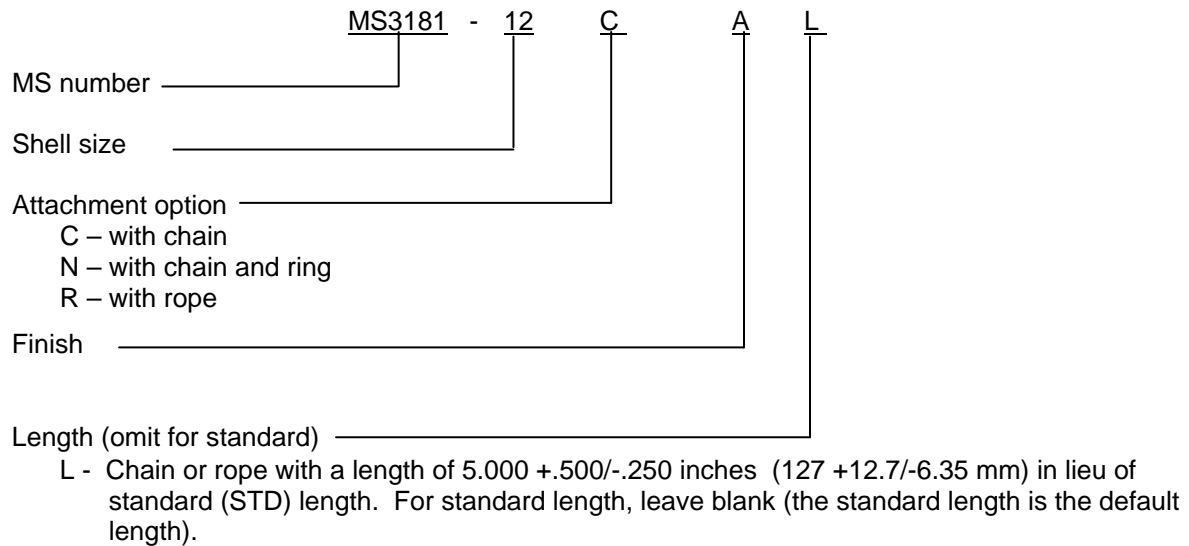
QUALIFICATION: Qualification and requalification requirements shall be in accordance with MIL-DTL-26482, series 1 and 2 connectors.

Connector mating: This protective cover mates with all MIL-DTL-26482, series 1 and 2 connector receptacles.

Intermateability dimensions shall be in accordance with MIL-DTL-26482.

MS3181G  
w/AMENDMENT 1

Part or Identifying Number (PIN) example:



**Change effectivity.** Unless otherwise specified by the qualifying activity, all changes from the previous revision of this specification sheet shall become effective within 90 days of the date of publication of the latest revision. If unable to implement changes within the 90 day time period, the manufacturer or value added distributor shall notify the qualifying activity. The qualifying activity shall determine if an extension may be granted.

**Disposition of stock.** Unless otherwise specified by the qualifying activity and coordinated with the preparing activity, qualified manufacturers and their selling agents or distributors may continue to ship protective covers that include flat rings for style N (in lieu of angled rings) in accordance with the previous revision of the specification for a period of 6 months from the date of the latest revision. DLA storage stocks may continue to issue product manufactured in accordance with the previous revision until DLA storage stocks are depleted of protective covers that include flat rings.

**Amendment Notations.** The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

**Referenced documents.** In addition to MIL-DTL-26482, this document references the following:

MIL-A-8625  
RR-C-271  
ASME Y14.5

MS3181G  
w/AMENDMENT 1

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA – CC

(Project 5935-2013-163)

Review activities:

Army – AV, CR4  
Navy – EC, SH  
Air Force – 99

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.dla.mil>.