

INCH-POUND

MS3181G
 25 July 2012
 SUPERSEDING
 MS3181F
 8 July 1980

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.

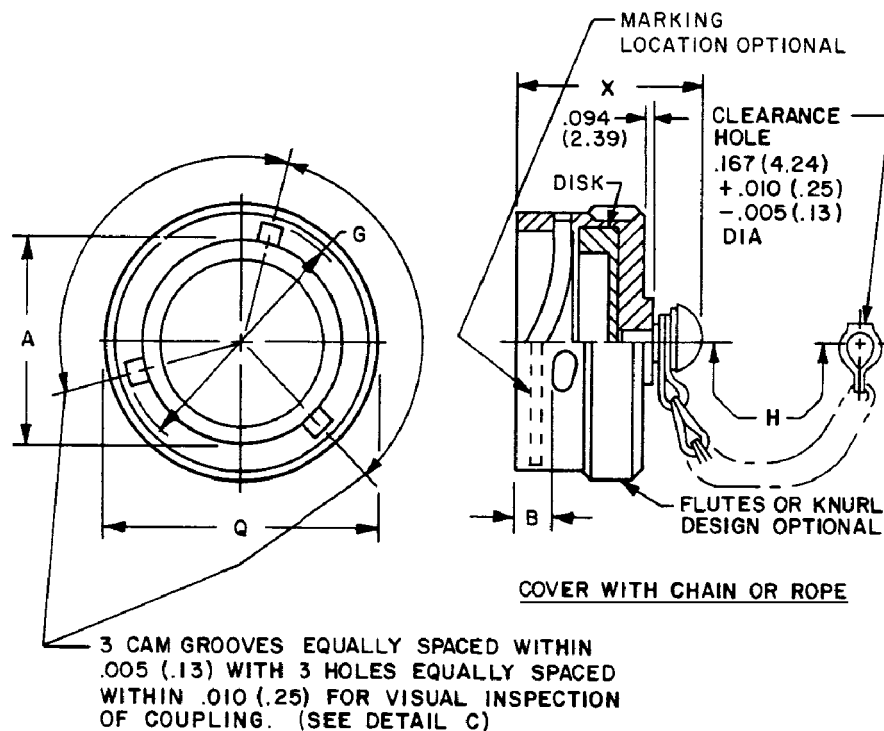


FIGURE 1. Protective cover, receptacle, all classes.

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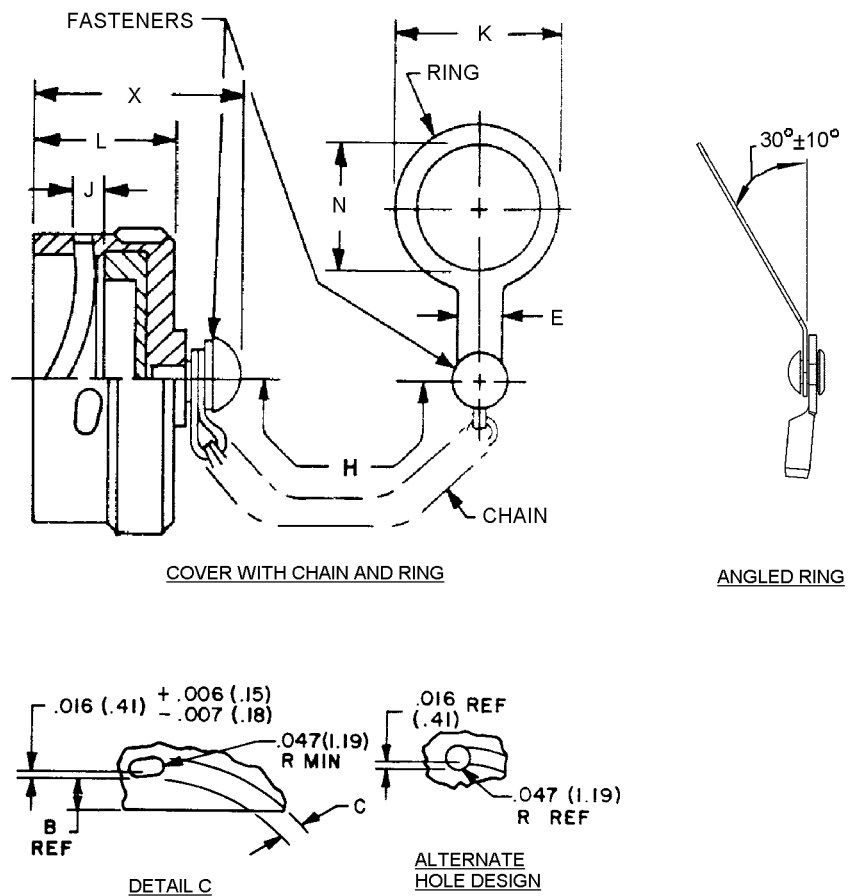


FIGURE 1. Protective cover, receptacle, all classes – Continued.

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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.

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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 (15.81)		
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 (46.02)	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.

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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.

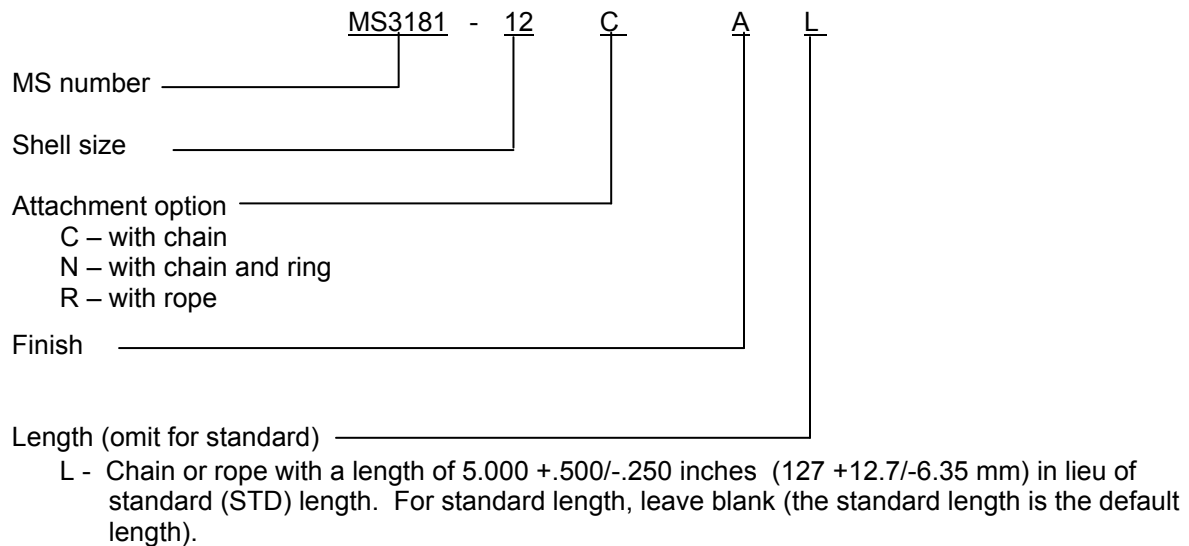
QUALIFICATION: Qualification and requalification requirements shall be in accordance with MIL-DTL-26482, series 1 and 2 connectors.

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.

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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-26482, this document references the following:

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

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA – CC

(Project 5935-2011-026)

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>.