

INCH-POUND

MIL-DTL-83723/60E
w/AMENDMENT 1
26 August 2010
SUPERSEDING
MIL-DTL-83723/60E
29 June 2009

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, (CIRCULAR, ENVIRONMENT RESISTING),
PROTECTIVE COVERS, RECEPTACLES, (FOR MIL-DTL-26500 AND MIL-DTL-83723,
SERIES III, CLASSES A, M, R, T, W AND Z)

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-83723.

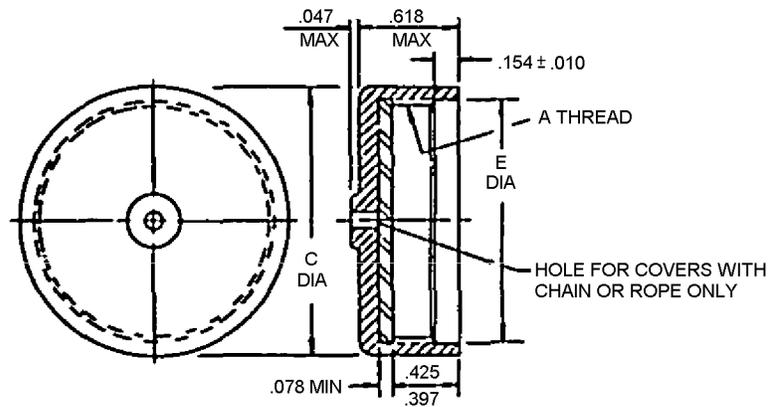
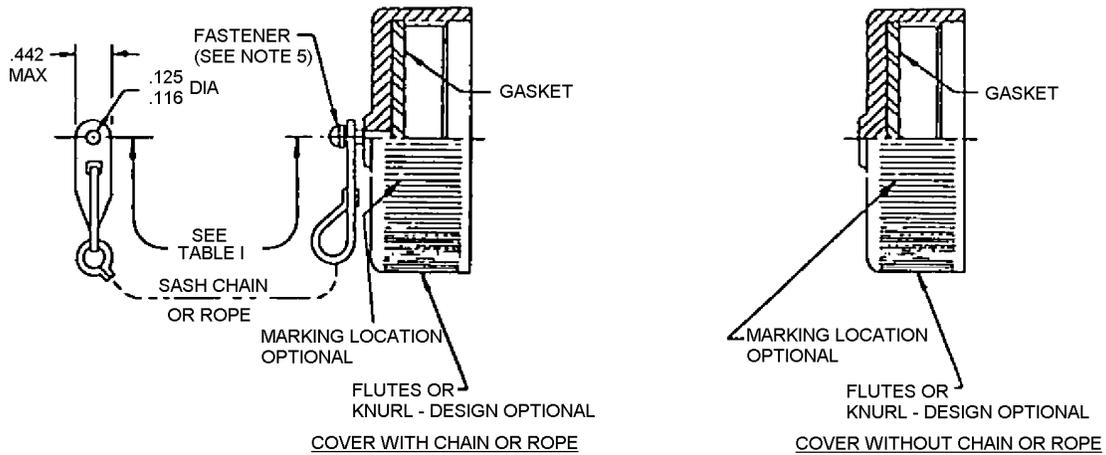


FIGURE 1. Protective cover, receptacles, threaded coupling M83723/60-1.

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| Inches | mm | Inches | mm | Inches | mm |
|--------|------|--------|-------|--------|--------|
| .005 | 0.13 | .125 | 3.18 | .618 | 15.70 |
| .010 | 0.25 | .154 | 3.91 | 4.750 | 120.65 |
| .047 | 1.19 | .397 | 6.35 | 5.250 | 133.35 |
| .078 | 1.98 | .425 | 10.80 | | |
| .116 | 2.95 | .442 | 11.23 | | |

| Shell size | A UNEF-2B coupling thread | C dia max | E dia counterbore min |
|------------|---------------------------|---------------|-----------------------|
| 8 | .5625-24 | .776 (19.71) | .583 (14.81) |
| 10 | .6875-24 | .906 (23.01) | .707 (17.96) |
| 12 | .8750-20 | 1.078 (27.38) | .895 (22.73) |
| 14 | .9375-20 | 1.141 (28.98) | .957 (24.31) |
| 16 | 1.0625-18 | 1.266 (32.16) | 1.084 (27.53) |
| 18 | 1.1875-18 | 1.375 (34.93) | 1.209 (30.71) |
| 20 | 1.3125-18 | 1.510 (38.35) | 1.334 (33.88) |
| 22 | 1.4375-18 | 1.625 (41.28) | 1.459 (37.06) |
| 24 | 1.5625-18 | 1.760 (44.70) | 1.584 (40.23) |

FIGURE 1. Protective cover, receptacles, threaded coupling M83723/60-1 - Continued.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Metric equivalents are in parentheses.
4. Unless otherwise specified, tolerances shall be $\pm .005$ (.13 mm) for three place decimals.
5. The method of attachment is optional. The fastener shall not become loose or be damaged when subjected to a straight axial pull of 5 lb minimum on the chain or rope. The chain or rope shall rotate freely on the fastener.
6. These parts are intended for use as protective covers for MIL-DTL-83723, series III, and MIL-DTL-26500 threaded coupling connector receptacles.

FIGURE 1. Protective cover, receptacles, threaded coupling M83723/60-1 - Continued.

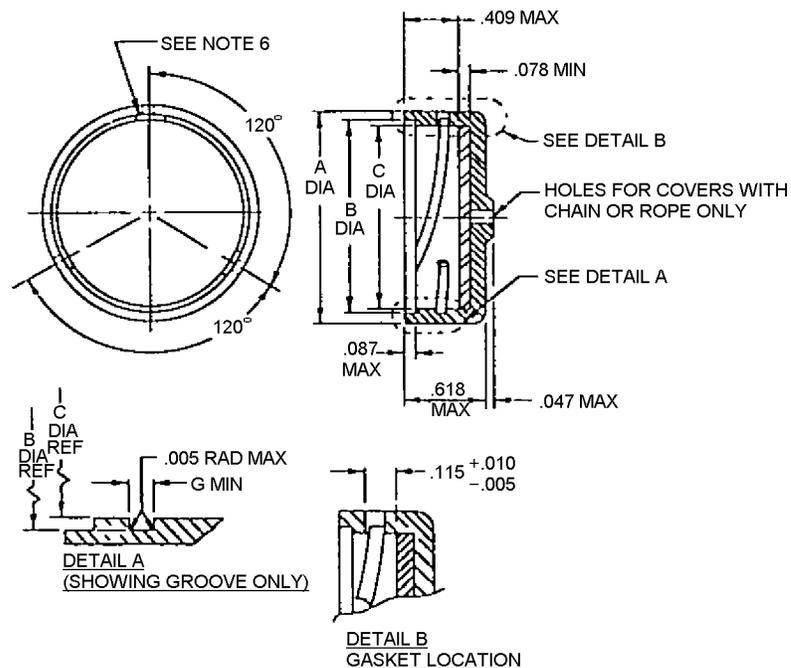
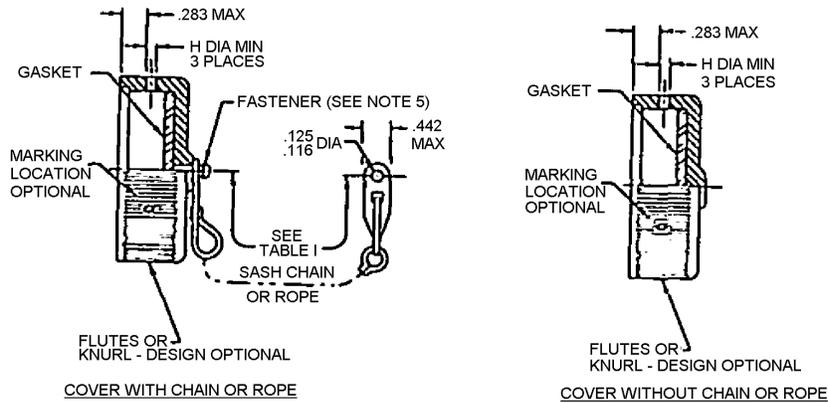


FIGURE 2. Protective cover, receptacles, bayonet coupling M83723/60-2.

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| Inches | mm | Inches | mm | Inches | mm | Inches | mm |
|--------|------|--------|------|--------|-------|--------|--------|
| .002 | 0.05 | .078 | 1.98 | .125 | 3.18 | .442 | 11.23 |
| .005 | 0.13 | .087 | 2.21 | .281 | 7.14 | .618 | 15.70 |
| .010 | 0.25 | .115 | 2.92 | .283 | 7.19 | 4.750 | 120.65 |
| .047 | 1.19 | .116 | 2.95 | .409 | 10.40 | 5.250 | 133.35 |

| Shell size | A max outside diameter coupling | B dia min | C dia + .005 - .000 | G min | H dia min |
|------------|--|---------------|---------------------------|-------------|--------------|
| 8 | .776 (19.71) | .632 (16.05) | .540 (13.72) | .079 (2.01) | .079 (2.01) |
| 10 | .906 (23.01) | .760 (19.30) | .662 (16.81) | .094 (2.39) | .094 (2.39) |
| 12 | 1.078 (27.38) | .930 (23.62) | .832 (21.13) | .094 (2.39) | .094 (2.39) |
| 14 | 1.141 (28.98) | .999 (25.37) | .901 (22.89) | .094 (2.39) | .094 (2.39) |
| 16 | 1.266 (32.16) | 1.126 (28.60) | 1.028 (26.11) | .094 (2.39) | .094 (2.39) |
| 18 | 1.375 (34.93) | 1.232 (31.29) | 1.134 (28.80) | .094 (2.39) | .094 (2.39) |
| 20 | 1.510 (38.35) | 1.357 (34.47) | 1.261 (32.03) | .094 (2.39) | .094 (2.39) |
| 22 | 1.625 (41.28) | 1.482 (37.64) | 1.384 (35.15) | .094 (2.39) | .094 (2.39) |
| 24 | 1.760 (44.70) | 1.607 (40.82) | 1.511 (38.38) | .094 (2.39) | .094 (2.39) |

FIGURE 2. Protective cover, receptacles, bayonet coupling M83723/60-2 - Continued.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Metric equivalents are in parentheses.
4. Unless otherwise specified, tolerances shall be $\pm .005$ (.13 mm) for three place decimals.
5. The method of attachment is optional. The fastener shall not become loose or be damaged when subjected to a straight axial pull of 5 lb minimum on the chain or rope. The chain or rope shall rotate freely on the fastener.
6. Coupling assurance indicator shall be provided in accordance with MIL-DTL-83723.
7. These parts are intended for use as protective covers for MIL-DTL-83723, series III, and MIL-DTL-26500 bayonet coupling connector receptacles.

FIGURE 2. Protective cover, receptacles, bayonet coupling M83723/60-2 - Continued.

REQUIREMENTS:

Dimensions and configurations: See figures 1 and 2.

Materials:

- Cover – Aluminum alloy.
- Gasket – Silicone elastomer.
- Sash chain – Stainless steel, passivated, in accordance with RR-C-271, type II, class 3.
- Fastener – Stainless steel, passivated.
- Rope – Insulated, stainless steel, passivated, braided or stranded. Insulation shall withstand 200°C environment.

Gasket shall be bonded to cover or mechanically retained in cover.

The chain or rope shall rotate freely on the fastener.

Termination style: See table I.

TABLE I. Termination style.

| Letter designators | Chain and rope length |
|--------------------|--|
| C | with a chain length of 5.0 (127.00 mm) + .25 (6.35 mm) |
| N | without chain |
| R | with a rope length of 5.0 (127.00 mm) + .25 (6.35 mm) |
| P | with a chain length of 8.0 (203.20 mm) + .25 (6.35 mm) |
| T | with a rope length of 8.0 (203.20 mm) + .25 (6.35 mm) |

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Qualification:

Examination of product.
Coupling torque.
Humidity.
Salt spray (corrosion).

Cover chain or rope and fastener tensile strength:

The protective cover and chain or rope assembly shall be securely held and a tensile static load of 5 lb minimum shall be applied to the end of the chain or rope for 5 minutes in each direction as specified below:

- a. Axis of chain or rope at right angles to axis of fastener.
- b. Axis of chain or rope in same axis as fastener.

Group A sampling inspection. Sampling for group A inspection shall be as specified in table II.

TABLE II. Group A sampling plan.

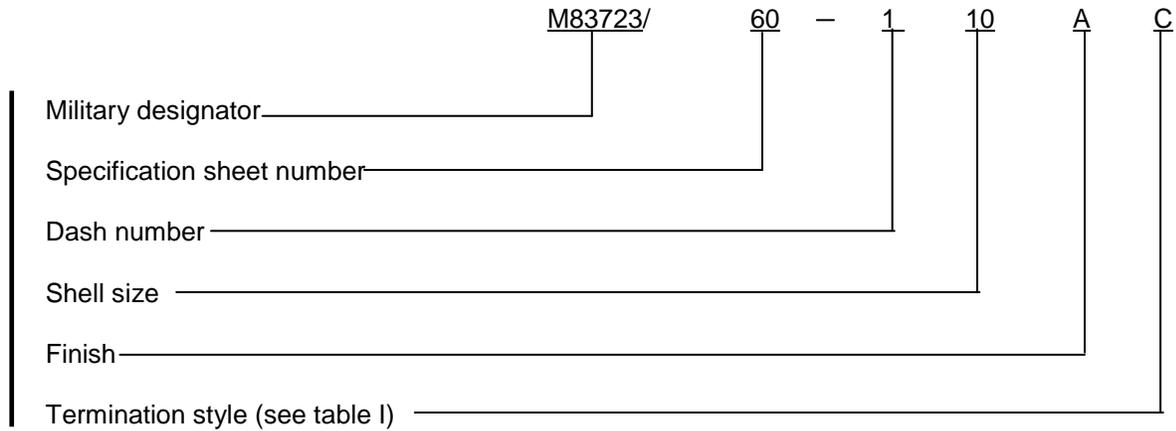
| Lot size | Sampling size |
|----------------|---------------|
| 1 to 13 | 100 percent |
| 14 to 150 | 13 units |
| 151 to 280 | 20 units |
| 281 to 500 | 29 units |
| 501 to 1,200 | 34 units |
| 1,201 to 3,200 | 42 units |
| 3,201 and up | 54 units |

Marking:

Part or Identifying Number (PIN): M83723/60-X (note: "X" represents the dash number from figure 1 or 2), shell size, and the applicable codes for finish and termination style.

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PIN example:



Supersession data: See table III.

TABLE III. Supersession data.

| Superseding PIN M83723/60-1 | Superseding PIN MS27294- |
|-----------------------------|--------------------------|
| 8AR | 7 |
| 10AR | 1 |
| 12AR | 2 |
| 14AR | 3 |
| 16AR | 4 |
| 18AR | 5 |
| 20AR | 8 |
| 22AR | 6 |
| 24AR | 9 |
| Superseding PIN M83723/60-2 | Superseding PIN MS27295- |
| 8AR | 7 |
| 10AR | 1 |
| 12AR | 2 |
| 14AR | 3 |
| 16AR | 4 |
| 18AR | 5 |
| 20AR | 8 |
| 22AR | 6 |
| 24AR | 9 |

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 notation.

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Referenced documents. In addition to MIL-DTL-83723, this document references the following:

RR-C-271
MIL-DTL-26500

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - AS
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

Review activities:
Army - AR, MI
Navy - EC
Air Force - 19, 99

(Project 5935-2010-156)

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>.