

INCH-POUND

MIL-DTL-83723/61F  
w/AMENDMENT 3  
1 February 2024  
SUPERSEDING  
MIL-DTL-83723/61F  
w/AMENDMENT 2  
22 July 2015

## DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, (CIRCULAR, ENVIRONMENT RESISTING),  
DUMMY STOWAGE 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.

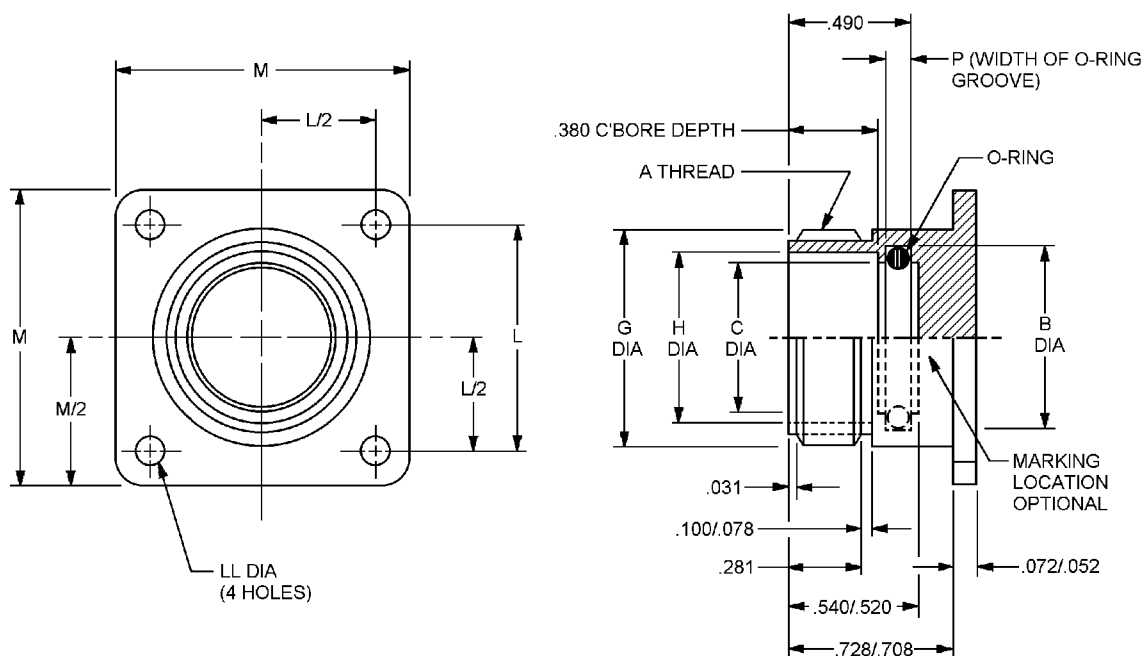


FIGURE 1. Dummy connector, receptacle, threaded coupling M83723/61-1.



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| Shell size | A<br>UNEF-2A<br>coupling<br>thread | B<br>dia<br>± .005 | C<br>dia<br>+.005<br>-.000 | G<br>dia<br>max  | H dia<br>+.005-<br>.000 | L<br>CL –CL<br>+.000 -<br>.009 | LL<br>dia mtg<br>hole<br>+.000<br>-.009 | M<br>length<br>side | P<br>+.000<br>-.005 |
|------------|------------------------------------|--------------------|----------------------------|------------------|-------------------------|--------------------------------|-----------------------------------------|---------------------|---------------------|
| 08         | .5625-24                           | .505<br>(12.83)    | .428<br>(10.87)            | .561<br>(14.25)  | .475<br>(12.07)         | .594<br>(15.09)                | .125<br>(3.18)                          | .812<br>(20.62)     | .076<br>(1.93)      |
| 10         | .6875-24                           | .636<br>(16.15)    | .530<br>(13.46)            | .696<br>(17.68)  | .576<br>(14.63)         | .719<br>(18.26)                | .125<br>(3.18)                          | .937<br>(23.80)     | .089<br>(2.26)      |
| 12         | .8750-20                           | .806<br>(20.47)    | .700<br>(17.78)            | .875<br>(22.23)  | .746<br>(18.95)         | .812<br>(20.62)                | .125<br>(3.18)                          | 1.031<br>(26.19)    | .089<br>(2.26)      |
| 14         | .9375-20                           | .875<br>(22.23)    | .769<br>(19.53)            | .935<br>(23.75)  | .815<br>(20.70)         | .906<br>(23.01)                | .125<br>(3.18)                          | 1.125<br>(28.58)    | .089<br>(2.26)      |
| 16         | 1.0625-18                          | 1.002<br>(25.45)   | .896<br>(22.76)            | 1.062<br>(26.97) | .942<br>(23.93)         | .969<br>(24.61)                | .125<br>(3.18)                          | 1.250<br>(31.75)    | .089<br>(2.26)      |
| 18         | 1.1875-18                          | 1.108<br>(28.14)   | 1.002<br>(25.45)           | 1.187<br>(30.15) | 1.048<br>(26.62)        | 1.062<br>(26.97)               | .125<br>(3.18)                          | 1.343<br>(34.11)    | .089<br>(2.26)      |
| 20         | 1.3125-18                          | 1.233<br>(31.32)   | 1.127<br>(28.63)           | 1.312<br>(33.32) | 1.171<br>(29.74)        | 1.156<br>(29.36)               | .125<br>(3.18)                          | 1.437<br>(36.50)    | .089<br>(2.26)      |
| 22         | 1.4375-18                          | 1.358<br>(34.49)   | 1.252<br>(31.80)           | 1.437<br>(36.50) | 1.297<br>(32.94)        | 1.250<br>(31.75)               | .125<br>(3.18)                          | 1.562<br>(39.67)    | .089<br>(2.26)      |
| 24         | 1.5625-18                          | 1.483<br>(37.67)   | 1.377<br>(34.98)           | 1.562<br>(39.67) | 1.420<br>(36.07)        | 1.375<br>(34.93)               | .154<br>(3.91)                          | 1.703<br>(43.26)    | .089<br>(2.26)      |

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 ± .005 (0.13 mm) for three place decimals.
5. These parts are intended for use as dummy stowage receptacles for MIL-DTL-83723, series III, and MIL-DTL-26500 threaded coupling connector plugs.

FIGURE 1. Dummy connector, receptacles, threaded coupling M83723/61-1 - Continued.

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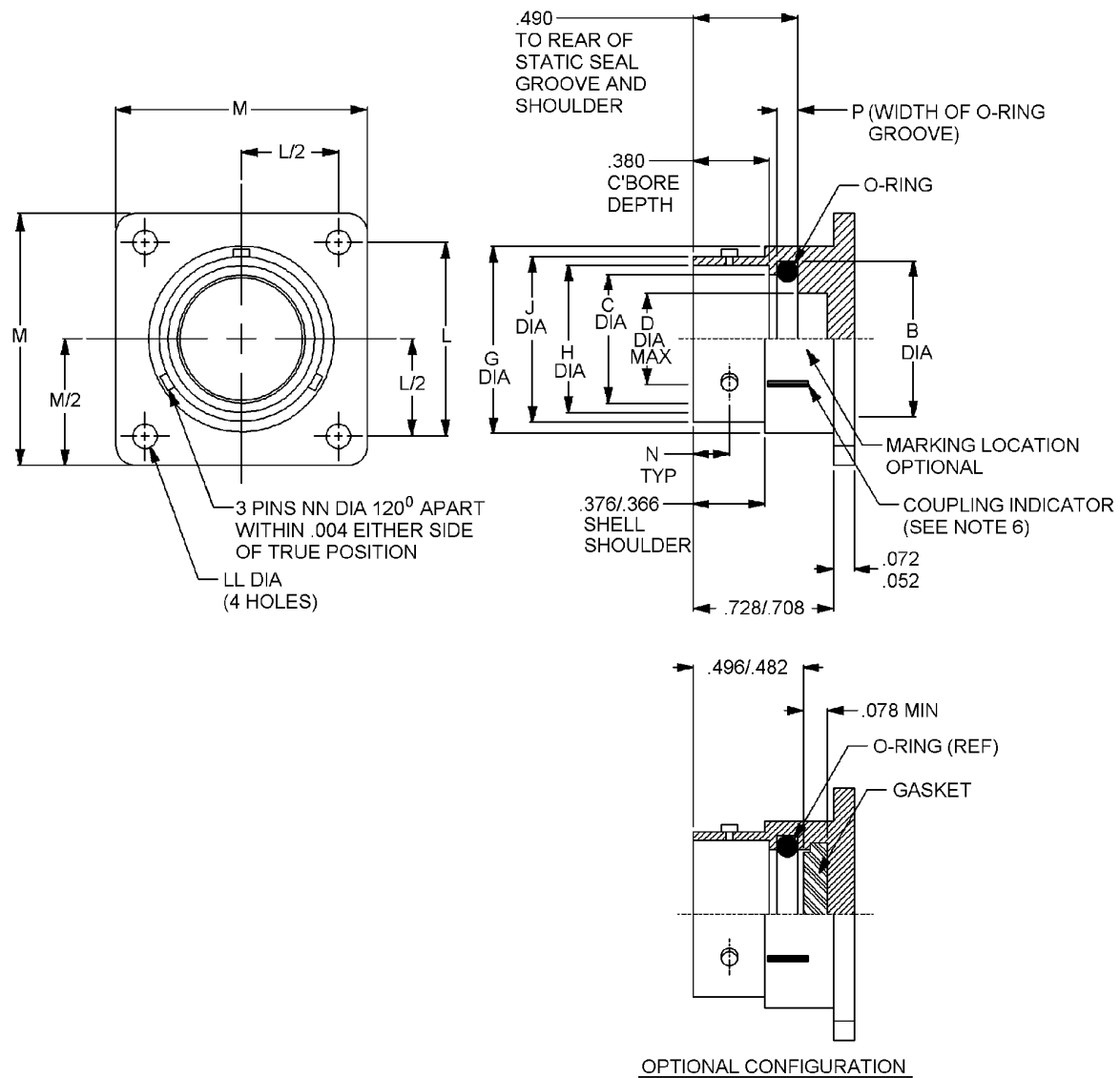


FIGURE 2. Dummy connector, receptacles, bayonet coupling M83723/61-2.

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| Shell size | B dia<br>min<br>± .005 | C dia<br>+ .005 /<br>- .000 | D<br>dia<br>max  | G<br>dia<br>max  | H<br>dia<br>min  | J dia<br>+ .000 /<br>- .005 | L<br>CL – CL<br>mounting<br>hole |
|------------|------------------------|-----------------------------|------------------|------------------|------------------|-----------------------------|----------------------------------|
| 08         | .508<br>(12.90)        | .428<br>(10.87)             | .352<br>(8.94)   | .561<br>(14.25)  | .475<br>(12.07)  | .536<br>(13.61)             | .594<br>(15.09)                  |
| 10         | .636<br>(16.15)        | .530<br>(13.46)             | .428<br>(10.87)  | .696<br>(17.68)  | .576<br>(14.63)  | .659<br>(16.74)             | .719<br>(18.26)                  |
| 12         | .806<br>(20.47)        | .700<br>(17.78)             | .598<br>(15.19)  | .875<br>(22.23)  | .746<br>(18.95)  | .829<br>(21.06)             | .812<br>(20.62)                  |
| 14         | .875<br>(22.23)        | .769<br>(19.53)             | .667<br>(16.94)  | .935<br>(23.75)  | .815<br>(20.70)  | .898<br>(22.81)             | .906<br>(23.01)                  |
| 16         | 1.002<br>(25.45)       | .896<br>(22.76)             | .794<br>(20.17)  | 1.062<br>(26.97) | .942<br>(23.93)  | 1.025<br>(26.04)            | .969<br>(24.61)                  |
| 18         | 1.108<br>(28.14)       | 1.002<br>(25.45)            | .900<br>(22.86)  | 1.187<br>(30.15) | 1.048<br>(26.62) | 1.131<br>(28.73)            | 1.062<br>(26.97)                 |
| 20         | 1.233<br>(31.32)       | 1.127<br>(28.63)            | 1.025<br>(26.04) | 1.312<br>(33.32) | 1.171<br>(29.74) | 1.256<br>(31.90)            | 1.156<br>(29.36)                 |
| 22         | 1.358<br>(34.49)       | 1.252<br>(31.80)            | 1.150<br>(29.21) | 1.437<br>(36.50) | 1.297<br>(32.94) | 1.381<br>(35.08)            | 1.250<br>(31.75)                 |
| 24         | 1.483<br>(37.67)       | 1.377<br>(34.98)            | 1.275<br>(32.39) | 1.562<br>(39.67) | 1.420<br>(36.07) | 1.506<br>(38.25)            | 1.375<br>(34.93)                 |

| Shell size | LL dia<br>mounting hole<br>+.000 / - .009 | M<br>length<br>side | N<br>+.000<br>-.004 | NN<br>+.000<br>-.003 | P<br>+.000<br>-.005 |
|------------|-------------------------------------------|---------------------|---------------------|----------------------|---------------------|
| 08         | .125<br>(3.18)                            | .812<br>(20.62)     | .101<br>(2.57)      | .078<br>(1.98)       | .076<br>(1.93)      |
| 10         | .125<br>(3.18)                            | .937<br>(23.80)     | .094<br>(2.39)      | .093<br>(2.36)       | .089<br>(2.26)      |
| 12         | .125<br>(3.18)                            | 1.031<br>(26.19)    | .094<br>(2.39)      | .093<br>(2.36)       | .089<br>(2.26)      |
| 14         | .125<br>(3.18)                            | 1.125<br>(28.58)    | .094<br>(2.39)      | .093<br>(2.36)       | .089<br>(2.26)      |
| 16         | .125<br>(3.18)                            | 1.250<br>(31.75)    | .094<br>(2.39)      | .093<br>(2.36)       | .089<br>(2.26)      |
| 18         | .125<br>(3.18)                            | 1.343<br>(34.11)    | .094<br>(2.39)      | .093<br>(2.36)       | .089<br>(2.26)      |
| 20         | .125<br>(3.18)                            | 1.437<br>(36.50)    | .094<br>(2.39)      | .093<br>(2.36)       | .089<br>(2.26)      |
| 22         | .125<br>(3.18)                            | 1.562<br>(39.67)    | .094<br>(2.39)      | .093<br>(2.36)       | .089<br>(2.26)      |
| 24         | .154<br>(3.91)                            | 1.703<br>(43.26)    | .094<br>(2.39)      | .093<br>(2.36)       | .089<br>(2.26)      |

FIGURE 2. Dummy connector, receptacles, bayonet coupling M83723/61-2 - 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  $\pm .005$  (0.13 mm) for three place decimals.
5. These parts are intended for use as dummy stowage receptacles for MIL-DTL-83723, series III, and MIL-DTL-26500 bayonet coupled connector plugs.
6. Coupling assurance indicator shall be provided in accordance with MIL-DTL-83723.

FIGURE 2. Dummy connector, receptacles, bayonet coupling M83723/61-2 - Continued.

REQUIREMENTS:

Dimensions and configurations: See figures 1 and 2.

Materials:

Shell – Impact extruded or machined aluminum alloy.

Gasket - Silicone or fluorosilicone elastomer.

O-ring – Silicone elastomer.

Gasket shall be bonded to or mechanically retained in receptacle.

All diameters shall be concentric with each other within .015 (0.38mm) TIR.

All diameters in the same plane shall be concentric with each other within .004 (0.10mm) TIR.

Coupling assurance indicator shall be provided in accordance with MIL-DTL-83723.

Qualification:

Examination of product.

Coupling torque.

Humidity.

Salt spray (corrosion).

Marking:

Part or Identifying Number (PIN): M83723/61 – X (where “X” represents the dash number from figure 1 or 2), shell size, and the applicable finish code.

PIN example:

|  |                |                            |   |          |           |          |
|--|----------------|----------------------------|---|----------|-----------|----------|
|  | <u>M83723/</u> | <u>61</u>                  | – | <u>1</u> | <u>08</u> | <u>A</u> |
|  | <u>M83723/</u> | Military designator        |   |          |           |          |
|  | <u>61</u>      | Specification sheet number |   |          |           |          |
|  | <u>1</u>       | Dash number                |   |          |           |          |
|  |                | (Threaded coupling: -1 )   |   |          |           |          |
|  |                | (Bayonet coupling: -2 )    |   |          |           |          |
|  | <u>08</u>      | Shell size                 |   |          |           |          |
|  | <u>A</u>       | Finish                     |   |          |           |          |

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Supersession data: See table I.

TABLE I. Supersession data.

| Superseding PIN<br>M83723/61-1 | Superseded PIN<br>MS27296 |
|--------------------------------|---------------------------|
| 8AR, 08AR                      | 7                         |
| 10AR                           | 1                         |
| 12AR                           | 2                         |
| 14AR                           | 3                         |
| 16AR                           | 4                         |
| 18AR                           | 5                         |
| 20AR                           | 8                         |
| 22AR                           | 6                         |
| 24AR                           | 9                         |
| Superseding PIN<br>M83723/61-2 | Superseded PIN<br>MS27297 |
| 8AR, 08AR                      | 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.

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

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

(Project 5935-2024-070)

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>.