

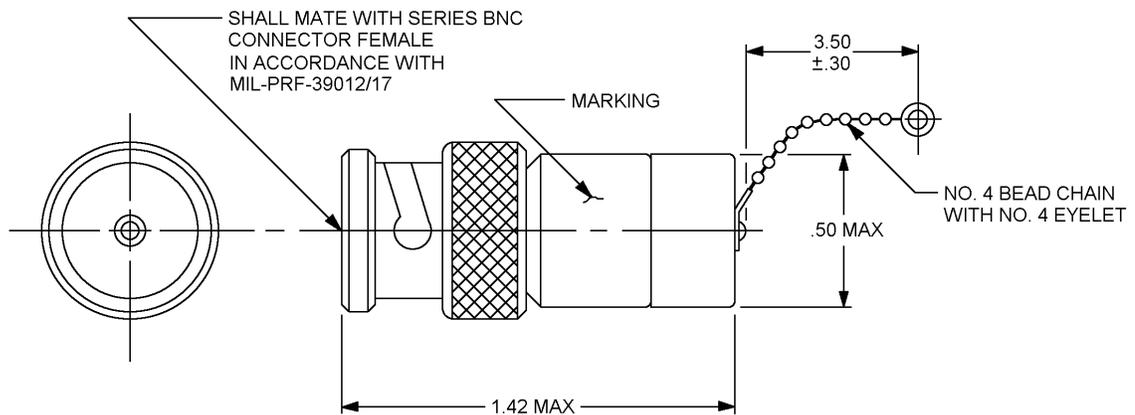
INCH-POUND

MIL-DTL-39030/7A
w/AMENDMENT 1
10 July 2015
SUPERSEDING
MIL-DTL-39030/7A
14 April 2003

DETAIL SPECIFICATION SHEET
DUMMY LOADS, ELECTRICAL, COAXIAL,
TYPE III (BNC), LOW POWER

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-39030.



| Inches | mm |
|--------|------|
| .30 | 7.6 |
| .50 | 12.7 |
| 1.42 | 36.1 |
| 3.50 | 88.9 |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Part or Identifying Number (PIN).

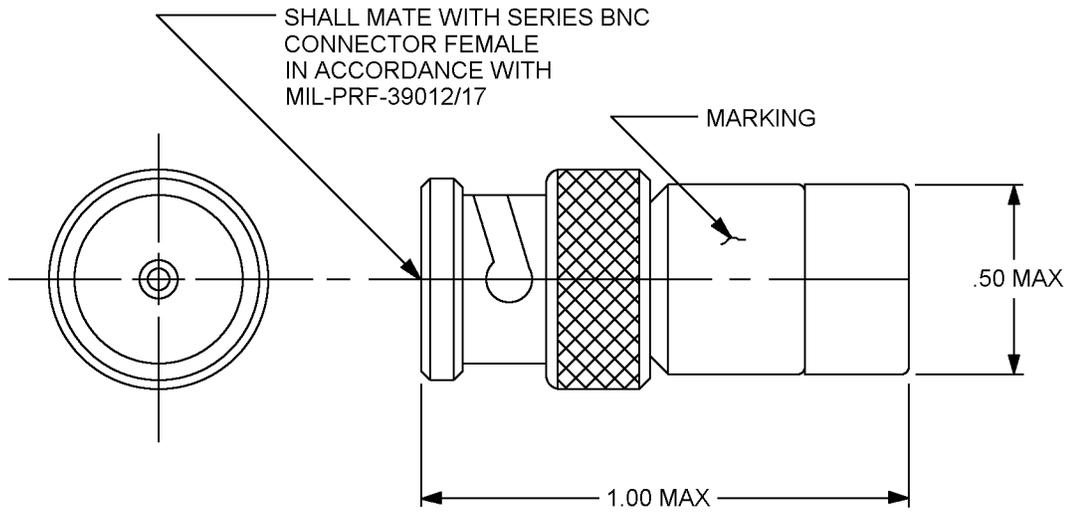
FIGURE 1. Dimensions and configuration, PINs M39030/7-01, -02, -03, and -04.

AMSC N/A

FSC 5985



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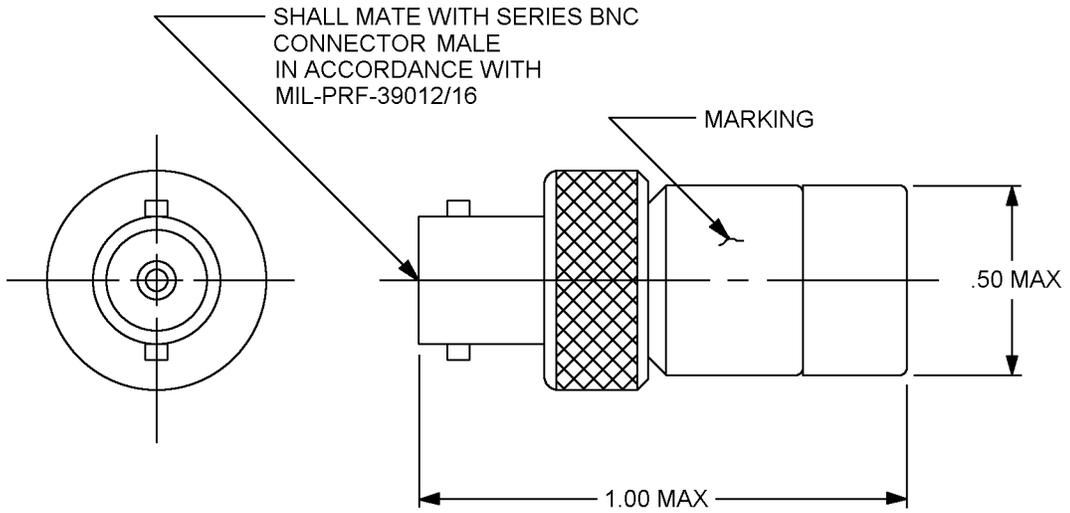


| Inches | mm |
|--------|------|
| .50 | 12.7 |
| 1.00 | 25.4 |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 2. Dimensions and configuration, PIN M39030/7-05.



| Inches | mm |
|--------|------|
| .50 | 12.7 |
| 1.00 | 25.4 |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 3. Dimensions and configuration, PIN M39030/7-06.

TABLE I. Dash numbers and characteristics.

| Dash number | Operating frequency (GHz) | VSWR (max) | Power handling capability (max) | | Nominal characteristic impedance (ohms) | Weight (max) (oz) | Finish of body and connector | Figure number |
|-------------|---------------------------|------------|---------------------------------|----------------|---|-------------------|--|---------------|
| | | | Average (watts) | Peak (watts) | | | | |
| 01 | DC to .25 | 1.10:1 | .5 | 1.0K | 75 | 1.1 | Gold plated in accordance with ASTM B488, type II class 1.27 | 1 |
| 02 | DC to .25 | 1.10:1 | .5 | 1.0K | 93 | 1.1 | Gold plated in accordance with ASTM B488, type II class 1.27 | 1 |
| 03 | DC to .25 | 1.10:1 | .5 | 1.0K | 100 | 1.1 | Gold plated in accordance with ASTM B488, type II class 1.27 | 1 |
| 04 | DC to .25 | 1.10:1 | .5 | 1.0K | 600 | 1.1 | Gold plated in accordance with ASTM B488, type II class 1.27 | 1 |
| 05 | DC to 2.5 | 1.15:1 | 2.0 <u>1/</u> | 1.0K <u>1/</u> | 50 | 1.0 | Nickel plated in accordance with SAE-AMS-QQ-N-290 | 2 |
| 06 | DC to 2.5 | 1.15:1 | 2.0 <u>1/</u> | 1.0K <u>1/</u> | 50 | 1.0 | Nickel plated in accordance with SAE-AMS-QQ-N-290 | 3 |

1/ Power input is derated linearly from 100 percent at +25°C to 50 percent at +85°C and from 50 percent at +85°C to 25 percent at +125°C.

REQUIREMENTS:

Dimensions and configurations: See figures 1 thru 3.

Electrical characteristics: See table I.

Materials:

Body and connector: Corrosion-resistant steel in accordance with ASTM A484/A484M or ASTM A582/A582M (dash numbers 01 thru 04) or brass in accordance with ASTM B121/B121M, ASTM B36/B36M, ASTM B16/B16M and ASTM B124/B124M (dash numbers 05 and 06).

Finish: See table I.

Contact pin and contact socket: Beryllium copper in accordance with ASTM B196/B196M, ASTM B197/B197M and ASTM B194.

Finish: Gold plated mating surface for all series. The socket contact shall be plated to a minimum of 50 micro inches (1.27µm) of gold in accordance with ASTM B488, type II, grade C class 1.27, over 50 micro inches (1.27 µm) minimum of nickel in accordance with SAE-AMS-QQ-N-290, class 1, including the I.D., measured at a depth of .040 inches minimum. The plating on non-significant surfaces in the I.D. shall be of sufficient thickness to ensure plating continuity and uniform utility and protection. This plating may consist of an under plate only. A silver under plate shall not be permitted.

Bead chain and lug: Corrosion-resistant steel or plastic.

Weight: See table I.

Ambient temperature range:

Operating:

Dash numbers 01 thru 04: -25°C to +105°C.
Dash numbers 05 and 06: -55°C to +125°C.

Non-operating (storage):

Dash numbers 01 thru 04: -25°C to +105°C.
Dash numbers 05 and 06: -55°C to +125°C.

PIN: M39030/7-(dash number from table I).

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-39030, this document references the following:

| | |
|------------------|------------------|
| MIL-PRF-39012/17 | ASTM B124/B124M |
| MIL-PRF-39012/16 | ASTM B194 |
| ASTM A484/A484M | ASTM B196/B196M |
| ASTM A582/A582M | ASTM B197/B197M |
| ASTM B121/B121M | ASTM B488 |
| ASTM B36/B36M | SAE-AMS-QQ-N-290 |
| ASTM B16/B16M | |

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

(Project 5985-2015-020)

Review activities:
Army - AV, MI
Navy - AS, MC, OS, SH
Air Force - 11, 19, 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 information above using the ASSIST Online database at <https://assist.dla.mil>.