

**INCH-POUND**

**MIL-STD-348B**  
**17 August 2014**  
**SUPERSEDING**  
**MIL-STD-348A**  
**20 April 1988**

# **DEPARTMENT OF DEFENSE**

## **INTERFACE STANDARD**

**RADIO FREQUENCY CONNECTOR INTERFACES FOR**

**MIL-DTL-3643, MIL-DTL-3650, MIL-DTL-3655, MIL-DTL-25516,  
MIL-PRF-31031, MIL-PRF-39012, MIL-PRF-49142, MIL-PRF-55339, MIL-DTL-83517**



**AMSC N/A**

**FSC 5935**

MIL-STD-348B

FORWARD

1. This Defense standard is approved for use by all Departments and Agencies of the Department of Defense (DoD).
2. Comments, suggestions, or questions on this document should be addressed to: DLA Land and Maritime, ATTN: VAI, P.O. Box 3990, Columbus, Ohio 43218-3990 or by email to [RFConnectors@dsc.dla.mil](mailto:RFConnectors@dsc.dla.mil). Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil>.

## MIL-STD-348B

## CONTENTS

|  | <u>Page</u> |
|--|-------------|
| 1. SCOPE   | 1           |
| 1.1 Scope  | 1           |
| 1.2 Purpose  | 1           |
| 2. APPLICABLE DOCUMENTS  | 1           |
| 2.1 General  | 1           |
| 2.2 Government documents   | 1           |
| 2.2.1 Specifications, standards and handbooks                    | 1           |
| 2.3 Order of precedence  | 3           |
| 3. DEFINITIONS   | 3           |
| 3.1 Acquisition Management System Control (AMSC)                 | 3           |
| 3.2 Acquisition Streaming and Standardization Information System | 3           |
| 3.3 Department of Defense (DoD) Standard                         | 3           |
| 3.4 Inch-pound document  | 3           |
| 3.5 Interface standard   | 4           |
| 4. GENERAL REQUIREMENTS  | 4           |
| 5. REQUIREMENTS  | 4           |
| 5.1 Gauge tests  | 4           |
| 5.2 Marking  | 4           |
| 5.3 Drawing notes  | 4           |
| 5.4 Change effectivity   | 4           |
| 5.5 Disposition of stock   | 4           |
| 6. NOTES   | 5           |
| 6.1 Intended use   | 5           |
| 6.2 Acquisition requirements                                     | 5           |
| 6.3 Patent notice  | 5           |
| 6.4 Cross reference  | 5           |
| 6.5 Subject term (key word) listing                              | 6           |
| 6.6 Changes from previous issue                                  | 6           |

## MIL-STD-348B

## FIGURES

| <u>FIGURE NUMBER</u>   | <u>PAGE</u> |
|--|-------------|
| 101-1. Interface, series TWTNC, coupling nut                 | 7           |
| 101-2. Interface, series TWTNC, no coupling nut              | 9           |
| 102-1. Interface, series TWBNC, with coupling nut            | 11          |
| 102-2. Interface, series TWBNC, coupling nut                 | 13          |
| 102-3. Interface, series TWBNC, without coupling nut         | 14          |
| 103-1. Interface, series TWSMC, with coupling nut            | 16          |
| 103-2. Interface, series TWSMC, without coupling nut         | 18          |
| 104-1. Interface, series TWSMB, with coupling mechanism      | 20          |
| 104-2. Interface, series TWSMB, without coupling mechanism   | 22          |
| 201-1. Interface, series TRB, pin contact                    | 25          |
| 201-2. Interface, series TRB, socket contact                 | 27          |
| 202-1. Interface, series TRT, pin contact                    | 29          |
| 202-2. Interface, series TRT, socket contact                 | 31          |
| 301-1. Interface, series BNC, pin contact                    | 34          |
| 301-2. Interface, series BNC, socket contact                 | 36          |
| 302-1. Interface, series C, pin contact                      | 38          |
| 302-2. Interface, series C, socket contact                   | 40          |
| 303-1. Interface, series MHV, pin contact                    | 42          |
| 303-2. Interface, series MHV, socket contact                 | 44          |
| 304-1. Interface, series N, pin contact                      | 46          |
| 304-2. Interface, series N, socket contact                   | 48          |
| 305-1. Interface, series QL, pin contact                     | 50          |
| 305-2. Interface, series QL, socket contact                  | 51          |
| 306-1. Interface, series QM, pin contact                     | 53          |
| 306-2. Interface, series QM, socket contact                  | 54          |
| 307-1. Interface, series QNC, pin contact                    | 56          |
| 307-2. Interface, series QNC, socket contact                 | 58          |
| 308-1. Interface, series QSC, pin contact                    | 60          |
| 308-2. Interface, series QSC, socket contact                 | 62          |
| 309-1. Interface, series SC, pin contact                     | 64          |
| 309-2. Interface, series SC, socket contact                  | 66          |
| 310-1. Interface, series SMA, pin contact                    | 68          |
| 310-2. Interface, series SMA, socket contact                 | 70          |
| 310-3. Interface, series SMA, no contact                     | 72          |
| 311-1. Interface, series SMB, pin contact                    | 73          |
| 311-2. Interface, series SMB, socket contact                 | 74          |
| 312-1. Interface, series SMC, pin contact                    | 76          |
| 312-2. Interface, series SMC, socket contact                 | 78          |
| 313-1. Interface, series TNC, pin contact                    | 80          |
| 313-2. Interface, series TNC, socket contact                 | 82          |
| 313-3. Interface, series TNCA, pin contact, air interface    | 84          |
| 313-4. Interface, series TNCA, socket contact, air interface | 86          |
| 314-1. Interface, series SHV, pin contact                    | 88          |
| 314-2. Interface, series SHV, socket contact                 | 90          |

## MIL-STD-348B

## FIGURES

| <u>FIGURE NUMBER</u>   | <u>PAGE</u> |
|--|-------------|
| 315-1. Interface, series LC, pin contact                             | 92          |
| 315-2. Interface, series LC, socket contact, full dielectric         | 93          |
| 315-3. Interface, series LC, pin contact (TBD)                       | 95          |
| 315-4. Interface, series LC, socket contact.                         | 96          |
| 315-5. Interface, series LC, pin contact (TBD)                       | 98          |
| 315-6. Interface, series LC, socket contact                          | 99          |
| 316-1. Interface, coaxial, pin contact, environment resistant        | 101         |
| 316-2. Interface, coaxial, socket contact, environment resistant     | 102         |
| 316-3. Interface, coaxial, socket, contact, environment resistant    | 103         |
| 316-4. Interface, coaxial, pin, contact, environment resistant       | 104         |
| 317-1. Interface, series HN, pin contact                             | 105         |
| 317-2. Interface, series HN, socket contact                          | 107         |
| 318-1. Interface, series LT, without contact                         | 109         |
| 318-2. Interface, series LT, socket contact                          | 111         |
| 319-1. Interface, series SSMA, pin contact                           | 113         |
| 319-2. Interface, series SSMA, socket contact                        | 114         |
| 320-1. Interface, series SSMB, pin contact                           | 115         |
| 320-2. Interface, series SSMB, socket contact                        | 117         |
| 321-1. Interface, series BMA, pin contact                            | 118         |
| 321-2. Interface, series BMA, socket contact                         | 119         |
| 322-1. Interface, series BMB, pin contact                            | 120         |
| 322-2. Interface, series BMB, socket contact                         | 122         |
| 323-1. Interface, series SMK, pin contact                            | 124         |
| 323-2. Interface, series SMK, socket contact                         | 125         |
| 324-1. Interface, series 2.4 mm, pin contact                         | 127         |
| 324-2. Interface, series 2.4 mm, socket contact                      | 129         |
| 324-3. Interface, series 2.4 mm, without contact                     | 131         |
| 325-1. Interface, series BMZ, pin contact                            | 132         |
| 325-2. Interface, series BMZ, socket contact                         | 134         |
| 326-1. Interface, series SMP, socket contact (uncabled connector)    | 136         |
| 326-1a. Interface, series SMP, socket contact (cabled connector)     | 137         |
| 326-2. Interface, series SMP, pin contact, full detent               | 138         |
| 326-3. Interface, series SMP, pin contact, limited detent            | 140         |
| 326-4. Interface, series SMP, pin contact, smooth bore               | 142         |
| 326-5. Interface, series SMP, pin contact, catchers mit              | 144         |
| 327-1. Interface, series DBA, pin contact                            | 146         |
| 327-2. Interface, series DBA, socket contact                         | 148         |
| 328-1. Interface, series SMPM, socket contact                        | 150         |
| 328-2. Interface, series SMPM, pin contact, full detent interface    | 151         |
| 328-3. Interface, series SMPM, pin contact, smooth bore interface    | 152         |
| 329-1. Interface, series TK, pin contact, slotted outer conductor    | 153         |
| 329-1a. Interface, series TK, pin contact, unslotted outer conductor | 154         |
| 329-2. Interface, series TK, socket contact                          | 156         |
| 330-1. Interface, series BNC, socket contact, 75 ohm                 | 157         |
| 330-2. Interface, series BNC, pin contact, 75 ohm                    | 159         |
| 331-1. Interface, series N, socket contact, 75 ohm                   | 161         |
| 331-2. Interface, series N, pin contact, 75 ohm                      | 162         |

## MIL-STD-348B

## FIGURES

| <u>FIGURE NUMBER</u> |   | <u>PAGE</u> |
|----------------------|---|-------------|
| 332-1.               | Interface, series TNC, socket contact, 75 ohm         | 163         |
| 332-2.               | Interface, series TNC, pin contact, 75 ohm            | 164         |
| 401-1.               | Interface, test connector, series C, pin contact      | 166         |
| 401-2.               | Interface, test connector, series C, socket contact   | 168         |
| 401-3.               | Interface, mated test connector, series C             | 170         |
| 402-1.               | Interface, test connector, series N, pin contact      | 171         |
| 402-2.               | Interface, test connector, series N, socket contact   | 173         |
| 402-3.               | Interface, mated test connector, series N             | 175         |
| 403-1.               | Interface, test connector, series SC, pin contact     | 176         |
| 403-2.               | Interface, test connector, series SC, socket contact  | 178         |
| 403-3.               | Interface, mated test connector, series SC            | 180         |
| 404-1.               | Interface, test connector, series BNC, pin contact    | 181         |
| 404-2.               | Interface, test connector, series BNC, socket contact | 183         |
| 404-3.               | Interface, mated test connector, series BNC           | 185         |
| 405-1.               | Interface, test connector, series SMA, pin contact    | 186         |
| 405-2.               | Interface, test connector, series SMA, socket contact | 188         |
| 405-3.               | Interface, mated test connector, series SMA           | 190         |
| 406-1.               | Interface, test connector, series TNC, pin contact    | 191         |
| 406-2.               | Interface, test connector, series TNC, socket contact | 193         |
| 406-3.               | Interface, mated test connector, series TNC           | 195         |
| 407-1.               | Interface, test connector, series SMB, pin contact    | 196         |
| 407-2.               | Interface, test connector, series SMB, socket contact | 198         |
| 407-3.               | Interface, mated test connector, series SMB           | 200         |
| 408-1.               | Interface, test connector, series SMC, pin contact    | 201         |
| 408-2.               | Interface, test connector, series SMC, socket contact | 203         |
| 408-3.               | Interface, mated test connector, series SMC           | 205         |
| 409-1.               | Interface, test connector, series QNC, pin contact    | 206         |
| 409-2.               | Interface, test connector, series QNC, socket contact | 208         |
| 409-3.               | Gap of mated standard test connector, series QNC      | 210         |
| 410-1.               | Interface, test connector, series QSC, pin contact    | 211         |
| 410-2.               | Interface, test connector, series QSC, socket contact | 213         |
| 410-3.               | Gap of mated standard test connector, series QSC      | 215         |

## MIL-STD-348B

## 1. SCOPE

1.1 Scope. This standard specifies the dimensional requirements for radio frequency connector interfaces referenced in MIL-DTL-3643, MIL-DTL-3650, MIL-STD-3655, MIL-DTL-25516, MIL-PRF-31031, MIL-PRF-39012, MIL-PRF-49142, MIL-PRF-55339 and MIL-DTL-83517.

1.2 Purpose. The purpose of this standard is to standardize Radio Frequency connector interfaces and to ensure the inclusion of essential design requirements.

## 2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3, 4, or 5 of this standard. This section does not include documents cited in other sections of this standard or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections 3, 4, or 5 of this standard, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards and handbooks. The following specifications, standards and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

## DEPARTMENT OF DEFENSE SPECIFICATIONS

|                 |   |  |
|-----------------|---|--|
| MIL-DTL-3643    | - | Connectors, Coaxial, Radio Frequency, Series HN, and Associated Fittings, General Specification For  |
| MIL-DTL-3650    | - | Connectors, Coaxial, Radio Frequency, Series LC  |
| MIL-DTL-3655    | - | Connectors, Plug and Receptacle, Electrical (Coaxial, Series Twin), and Associated Fittings, General Specification For Connector, Receptacle, Electrical, Class I (Coaxial, Series Twin, TWTNC, Jam Nut Mounted) |
| MIL-DTL-3655/13 | - | Connector, Receptacle, Electrical, Class I (Coaxial, Series Twin, TWTNC, Jam Nut Mounted)  |
| MIL-DTL-3655/14 | - | Connector, Plug, Electrical, Class I (Coaxial, Series Twin, TWTNC)   |
| MIL-DTL-3655/15 | - | Connector, Plug, Electrical, Class I (Coaxial, Series Twin, TWBNC)   |
| MIL-DTL-3655/16 | - | Connector, Receptacle, Electrical, Class I (Coaxial, Series Twin, TWBNC)   |
| MIL-DTL-3655/17 | - | Connector, Plug, Electrical, Class I (Coaxial, Series Twin, TWTNC, Right Angle)  |

## MIL-STD-348B

- MIL-DTL-25516 - Connectors, Electrical, Miniature, Coaxial, Environment Resistant Type, General Specification For
- MIL-PRF-31031 - Connectors, Electrical, Plugs and Receptacles, Coaxial, Radio Frequency, High Reliability, For Flexible and Semirigid Cables, General Specification For
- MIL-PRF-39012 - Connectors, Coaxial, Radio Frequency, General Specification For
- MIL-PRF-39012/1 - Connectors, Plug, Electrical, Coaxial, Radio Frequency, (Series N (Cabled), Pin Contact, Class 2)
- MIL-PRF-39012/2 - Connectors, Plugs and Receptacles, Electrical, Coaxial, Radio Frequency, (Series N (Cabled), Flange Mounted, Socket Contact, Class 2)
- MIL-PRF-39012/6 - Connectors, Plug, Electrical, Coaxial, Radio Frequency, (Series C, (Cabled), Male, Class 2)
- MIL-PRF-39012/7 - Connectors, Receptacle, Electrical, Coaxial, Radio Frequency, Series SMB (Cabled, Pin Contact, Jamnut Mounted, Rear Mounted, Class 2)
- MIL-PRF-39012/16 - Connectors, Plugs, Electrical, Coaxial Radio Frequency, (Series BNC (Cabled), Pin Contact, Class 2)
- MIL-PRF-39012/17 - Connectors, Plugs, Electrical, Coaxial, Radio Frequency, (Series BNC, (Cabled), Socket Contact, Class 2)
- MIL-PRF-39012/26 - Connectors, Plugs, Electrical, Coaxial Radio Frequency, (Series TNC (Cabled), Pin Contact, Class 2)
- MIL-PRF-39012/28 - Connectors, Receptacles, Electrical, Coaxial, Radio Frequency, (Series TNC, (Cabled), Socket Contact, Jam Nut Mounted, Class 2)
- MIL-PRF-39012/40 - Connectors, Receptacle, Electrical, Coaxial, Radio Frequency (Series SC (Cabled), Socket Contact, Jam Nut, Rear Mounted, Class 2)
- MIL-PRF-39012/67 - Connectors, Plugs, Electrical, Coaxial, Radio Frequency, Series SMB (Cabled, Socket Contact, Class 2)
- MIL-PRF-39012/68 - Connectors, Plugs, Electrical, Coaxial, Radio Frequency, Series SMB (Cabled, Pin Contact, Class 2)
- MIL-PRF-39012/73 - Connectors, Plugs, Electrical, Coaxial, Radio Frequency, Series SMC (Cabled, Socket Contact, Class 2)
- MIL-PRF-39012/74 - Connectors, Plugs, Electrical, Coaxial, Radio Frequency, Series SMC (Cabled, Pin Contact, Class 2)



## MIL-STD-348B

- MIL-PRF-39012/92 - Connectors, Plu, Electrical, Coaxial, Radio Frequency, Series SMA (Cabled, Class 2, Without Contact, .141 Semirigid Cable)
- MIL-PRF-39012/100 - Connectors, Plug, Electrical, Coaxial, Radio Frequency, High Voltage (Series MHV (Cabled), Pin Contact, Class 2)
- MIL-PRF-49142 - Connector, Triaxial, Radio Frequency, General Specification For
- MIL-PRF-55339 - Adapters, Connectors, Coaxial, Radio Frequency, (Between Series and Within Series), General Specification For
- MIL-DTL-83517 - Connector, Coaxial, Radio Frequency For Coaxial, Strip or Microstrip Transmission Line

## DEPARTMENT OF DEFENSE STANDARD

- MIL-STD-1373 - Screw-Thread, Modified, 60 Degree Stub, Double.

(Copies of these documents are available online at <https://assist.dla.mil/quicksearch/>.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

### 3. DEFINITIONS

3.1 Acquisition Management Systems Control (AMSC) Number. A control number assigned by the cognizant data management approval authority listed in SD-1, which indicates that a data item description (DID) or a defense specification or standard that cites DIDs has been cleared for use by the DoD.

3.2 Acquisition Streamlining and Standardization Information System (ASSIST). The official database containing information about standardization documents used in the DoD. ASSIST also provides electronic access to government documents included in the database over the Internet. ASSIST can be accessed at <https://assist.dla.mil/quicksearch/>.

3.3 Department of Defense (DoD) Standard. A standard used to satisfy primarily multiple, military-unique applications. There are five types of DoD standards: interface standards, design criteria standards, manufacturing process standards, standard practices, and test method standards.

## MIL-STD-348B

3.4 Inch-pound document. A document having measurement requirements given in rounded, rational, inch-pound units. The magnitudes are meaningful and practical (for example, 1 ounce, not 28.3495 grams). Inch-pound documents are developed for items to interface or operate with other inch-pound items. NOTE: Documents in which magnitudes expressed in metric units (as a result of mathematical conversion from rounded, rational, inch-pound units) are given first as preferred units with the rounded, rational inch-pound units given in parentheses or in a non-preferred position are still inch-pound documents.

3.5 Interface standard. A standard that specifies the physical, functional, or military operational environment interface characteristics of systems, subsystems, equipment, assemblies, components, items, or parts to permit interchangeability, interconnection, interoperability, compatibility, or communications.

4. GENERAL REQUIREMENTS. The interfaces specified herein shall work in conjunction with the following associated defense specifications to achieve the specified performance required.

MIL-DTL-3643, MIL-DTL-3650, MIL-DTL-3655, MIL-DTL-26616, MIL-PRF-31031, MIL-PRF-39012, MIL-PRF-49142, MIL-PRF-55339, MIL-DTL-83517 and MIL-STD-1373.

## 5. REQUIREMENTS

5.1 Gauge tests. Applicable gauge tests shall be as specified in the associated connector specification sheet.

5.2 Marking. Not applicable.

5.3 Drawing notes. Unless otherwise specified, the following information is applicable to all figures of this defense standard.

- a. Dimensions are in inches unless a specific metric interface is specified.
- b. Metric equivalents are given for information only.
- c. All undimensioned, pictorial configurations are for reference purposes only.
- d. Applicable to section 400 only. The construction, material, and finish of the standard socket connector shall result in satisfactory electrical and mechanical performance and provide the following minimum life cycles when mated with the same series pin standard test connector.

| <u>Series</u> | <u>Life cycles</u> |
|---------------|--------------------|
| C, N, SC, TNC | 10,000             |
| BNC           | 5,000              |
| SMA, SMB, SMC | 2,000              |

- e. Applicable to section 400 only. Dimensions shown are for the standard test connector only.

5.4 Change effectivity. Unless otherwise specified in the interface figure, all changes from the preceding issue of MIL-STD-348A will become effective 12 months from the date of this standard.

## MIL-STD-348B

5.5 Disposition of stock. Unless otherwise specified in the interface figure, qualified manufacturers and their selling agents or distributors may ship from stock connectors which were manufactured in accordance with the preceding issue of MIL-STD-348A for a period of 30 months from the date of this standard.

### 6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. This standard is intended for use by all manufacturers of connectors and components utilizing connector interfaces. The interfaces detailed within this document have been coordinated and accepted by all military services and are deemed United States standards for radio frequency connector interfaces.

6.2 Acquisition requirements. Acquisition documents should specify the following:  
a. Title, number, and date of this specification.

6.3 Patent notice. The Government has a royalty-free license under the following listed patents for the benefit of manufacturers of the item either for the Government or for use in equipment to be delivered to the Government. U.S. patent number 4,426,127 applies to the series BMA, 4,358,174 applies to series BMB interfaces.

U.S. patent number 4,426,127

U.S. patent number 4,358,174

6.4 Subject term (key word) listing.

RF  
Interconnection device

6.5 Changes from the 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.

MIL-STD-348B

SECTION 100

Interface Dimensions for MIL-DTL-3655

|             |              |
|-------------|--------------|
| Section 101 | Series TWTNC |
| Section 102 | Series TWBNC |
| Section 103 | Series TWSMC |
| Section 104 | Series TWSMB |

MIL-STD-348B

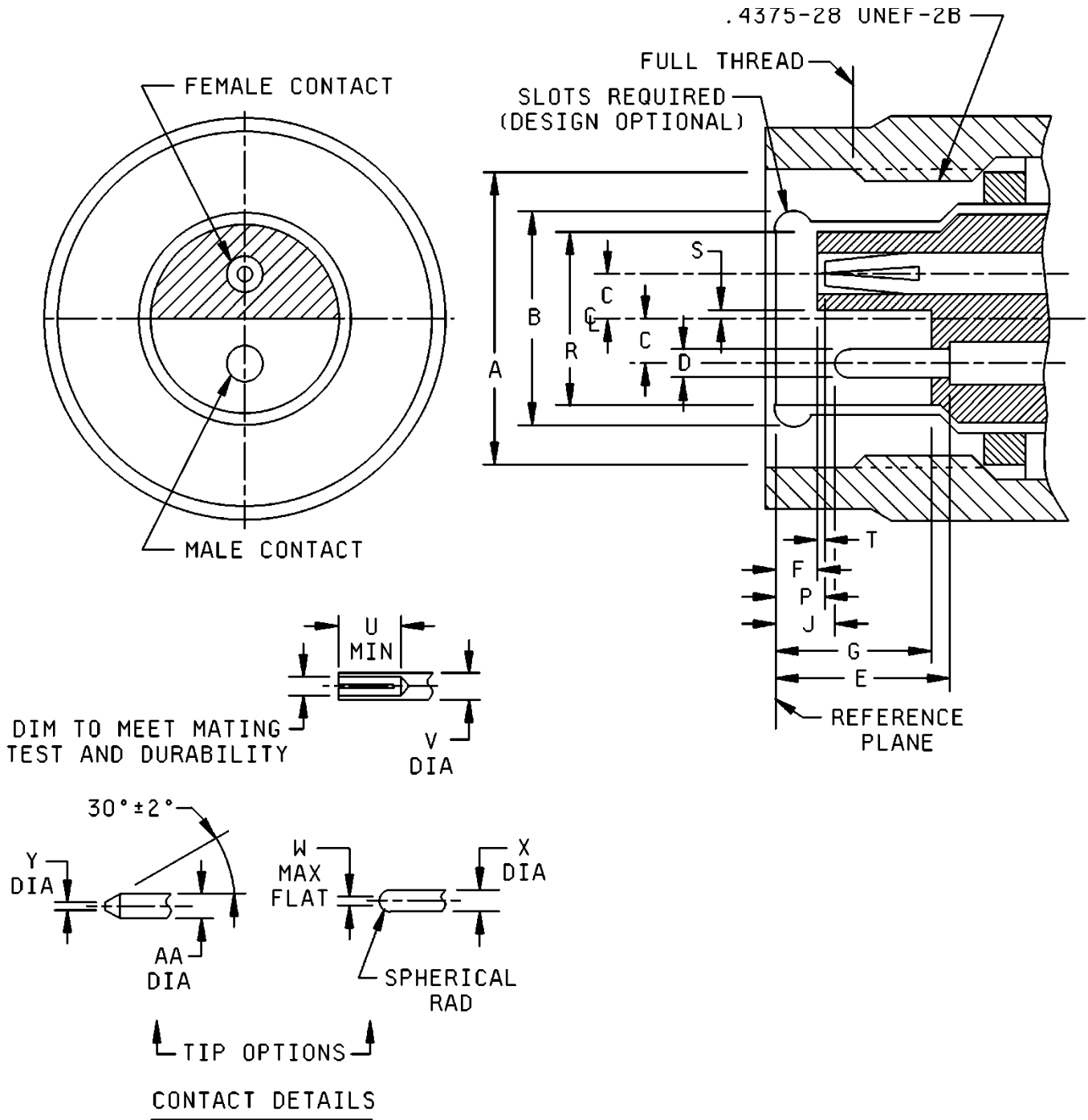


FIGURE 101-1. Interface, series TWTNC, coupling nut.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)  |             |
|-------------------|--------------|-------------|
|                   | Minimum      | Maximum     |
| A                 | .440 (11.18) | -----       |
| B                 | Mating test  |             |
| C                 | .062 (1.57)  | .064 (1.63) |
| D                 | .037 (0.94)  | .039 (0.99) |
| E                 | .228 (5.79)  | .260 (6.60) |
| F                 | .028 (0.71)  | .042 (1.07) |
| G                 | .206 (5.23)  | .228 (5.79) |
| J                 | .035 (0.89)  | .065 (1.65) |
| P                 | .032 (0.81)  | .062 (1.57) |
| R                 | .264 (6.71)  | -----       |
| S                 | .001 (0.03)  | .004 (0.10) |
| T                 | .000 (0.00)  | -----       |
| U                 | .180 (4.57)  | -----       |
| V                 | .061 (1.55)  | .064 (1.63) |
| W                 | -----        | .015 (0.38) |
| X                 | .037 (0.94)  | .039 (0.99) |
| Y                 | .010 (0.25)  | .015 (0.38) |
| AA                | .037 (0.94)  | .039 (0.99) |

## NOTES:

1. Three holes equally spaced, .027 (0.69 mm) minimum diameter for safety wiring. Location on coupling nut optional.
2. This interface shall meet the gauge requirements as specified in MIL-DTL-3655/14.
3. Dimensions are in inches.
4. Metric equivalents are for information only.

FIGURE 101-1. Interface, series TWTNC, coupling nut – Continued.

MIL-STD-348B

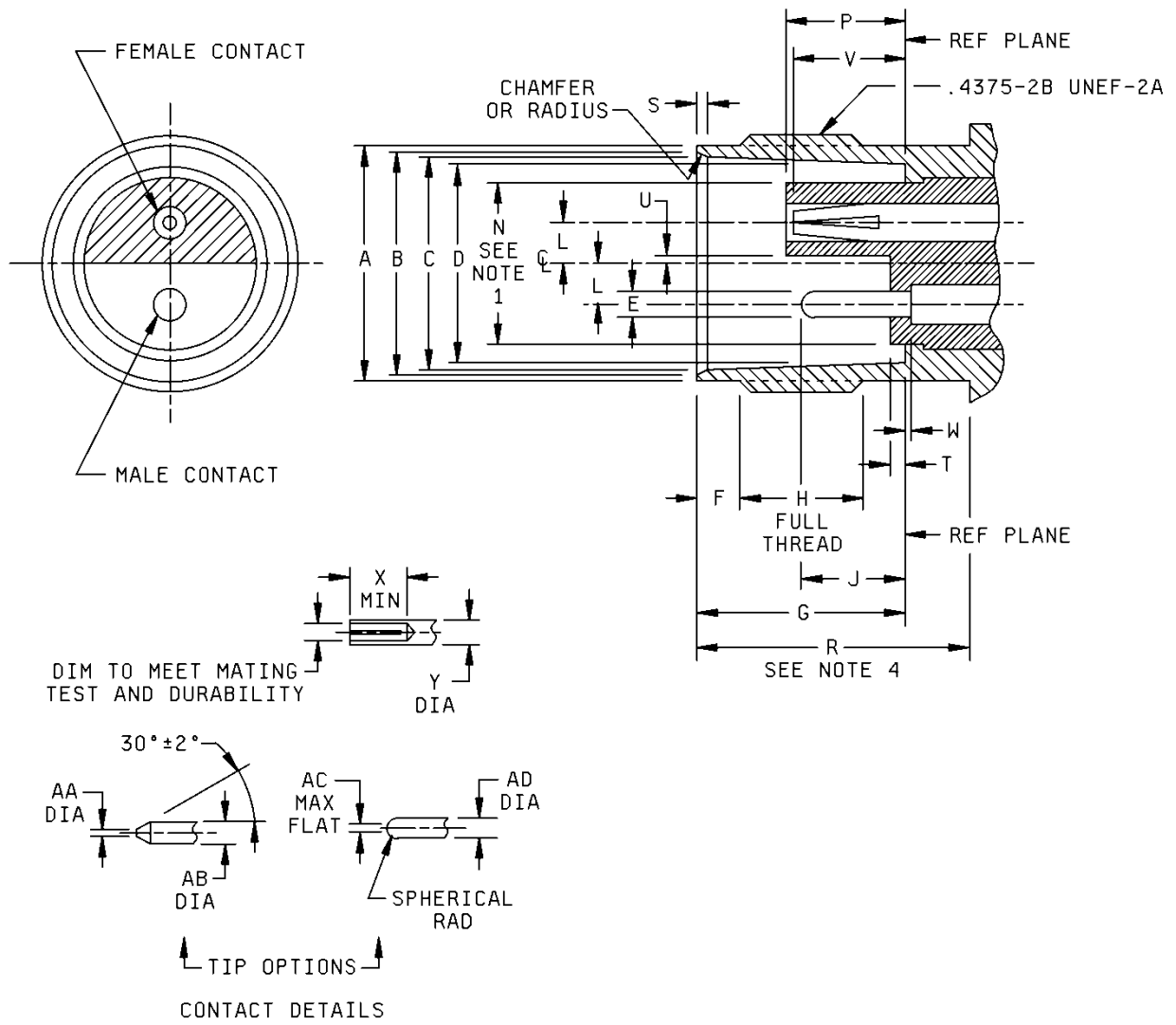


FIGURE 101-2. Interface, series TWTNC, no coupling nut.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)  |             |
|-------------------|--------------|-------------|
|                   | Minimum      | Maximum     |
| A                 | .378 (9.60)  | .381 (9.68) |
| B                 | .345 (8.76)  | .356 (9.04) |
| C                 | .327 (8.31)  | .336 (8.53) |
| D                 | .319 (8.10)  | .321 (8.15) |
| E                 | .037 (0.94)  | .039 (0.99) |
| F                 | .068 (1.73)  | .088 (2.24) |
| G                 | .329 (8.36)  | .333 (8.46) |
| H                 | .187 (4.75)  | -----       |
| J                 | .171 (4.34)  | .200 (5.08) |
| L                 | .062 (1.57)  | .064 (1.63) |
| N                 | -----        | .262 (6.65) |
| P                 | .188 (4.78)  | .206 (5.23) |
| R                 | .415 (10.54) | -----       |
| S                 | .015 (0.38)  | .030 (0.76) |
| T                 | .000 (0.00)  | .028 (0.71) |
| U                 | .001 (0.03)  | .004 (0.10) |
| V                 | .170 (4.32)  | .200 (5.08) |
| W                 | .000 (0.00)  | .040 (1.02) |
| X                 | .180 (4.57)  | -----       |
| Y                 | .061 (1.55)  | .064 (1.63) |
| AA                | .010 (0.25)  | .015 (0.38) |
| AB                | .037 (0.94)  | .039 (0.99) |
| AC                | -----        | .015 (0.38) |
| AD                | .037 (0.94)  | .039 (0.99) |

## NOTES:

1. N dimension applies to portion of dielectric protruding beyond reference plane.
2. Contacts, insulator, and mounting flat shall be oriented within  $\pm 3^\circ$  of orientation shown.
3. This interface shall meet the gauge requirements as specified in MIL-DTL-3655/13.
4. Clearance for mating connector coupling nut.
5. Dimensions are in inches.
6. Metric equivalents are for information only.

FIGURE 101-2. Interface, series TWTNC, no coupling nut – Continued.



MIL-STD-348B

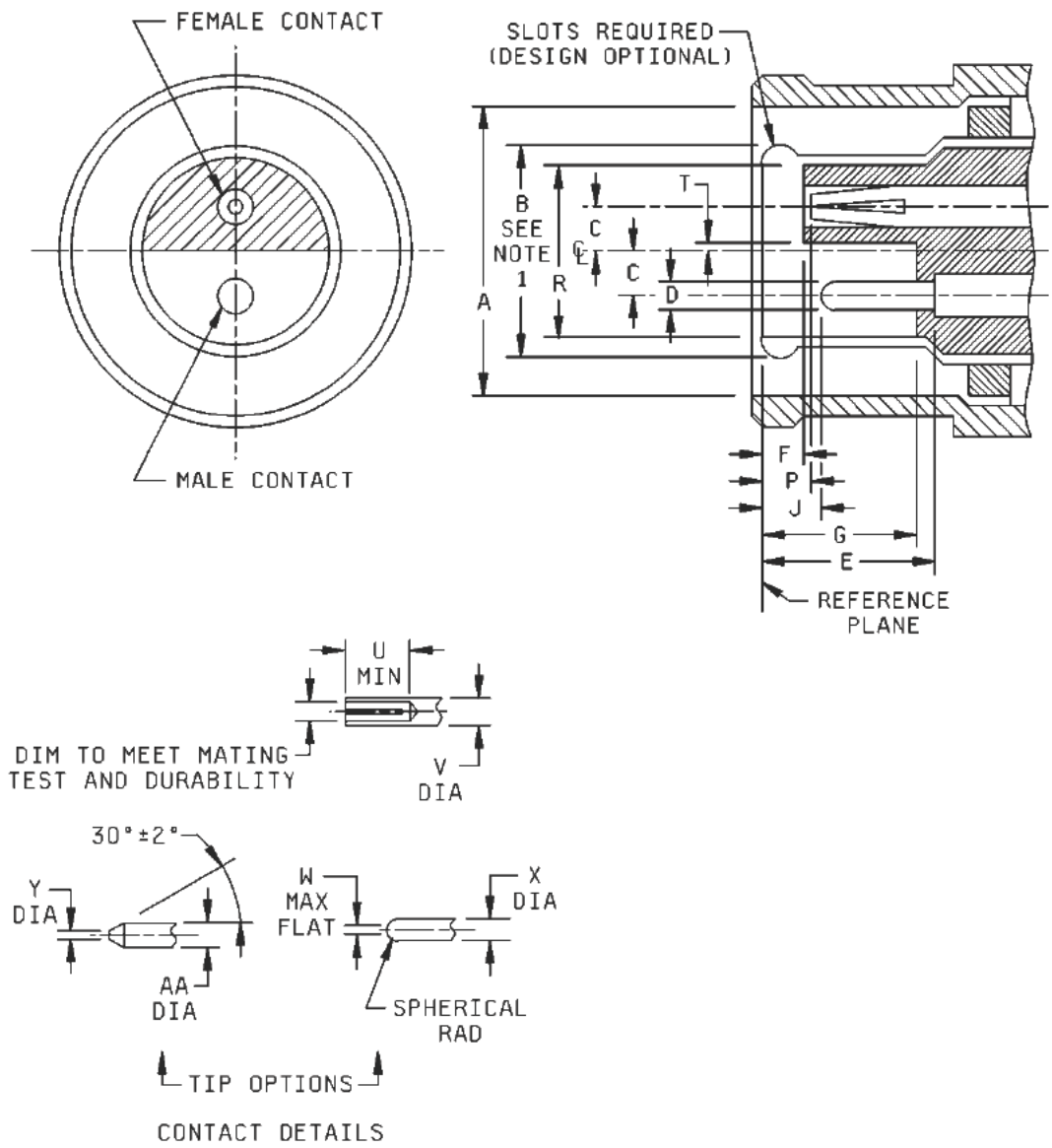


FIGURE 102.1. Interface, series TWBNC, with coupling nut.

## MIL-STD-348B

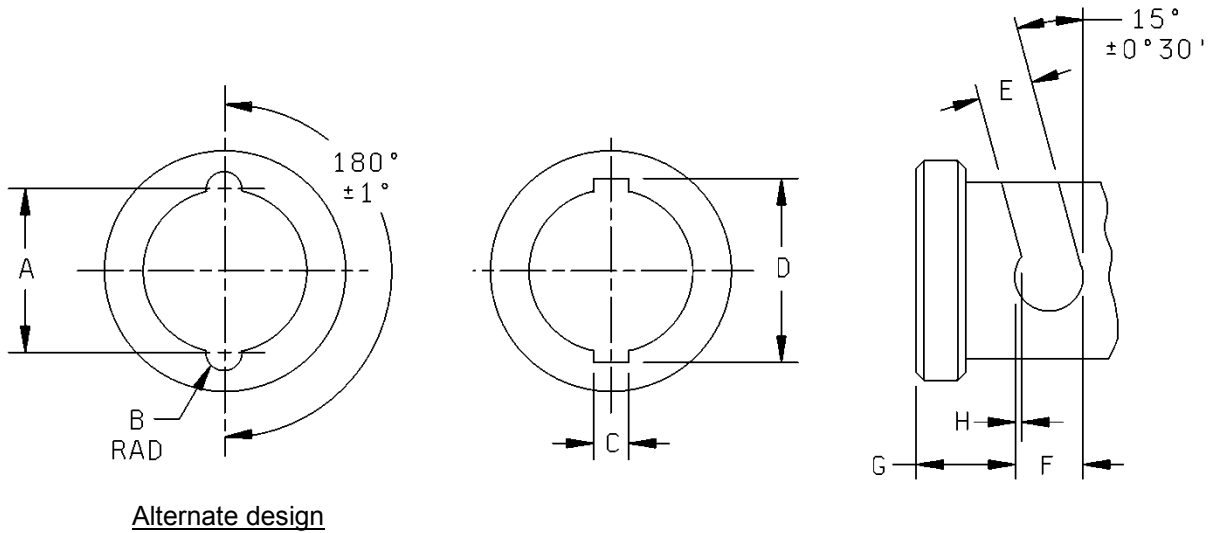
| Dimension<br>Ltr. | Inches (mm) |             |
|-------------------|-------------|-------------|
|                   | Minimum     | Maximum     |
| A                 | .385 (9.78) | .390 (9.91) |
| B                 | Mating test |             |
| C                 | .062 (1.57) | .064 (1.63) |
| D                 | .037 (0.94) | .039 (0.99) |
| E                 | .228 (5.79) | .260 (6.60) |
| F                 | .028 (0.71) | .042 (1.07) |
| G                 | .206 (5.23) | .228 (5.79) |
| J                 | .035 (0.89) | .065 (1.65) |
| P                 | .032 (0.81) | .062 (1.57) |
| R                 | .264 (6.71) | -----       |
| T                 | .001 (0.03) | .004 (0.10) |
| U                 | .180 (4.57) | -----       |
| V                 | .061 (1.55) | .064 (1.63) |
| W                 | -----       | .015 (0.38) |
| X                 | .037 (0.94) | .039 (0.99) |
| Y                 | .010 (0.25) | .015 (0.38) |
| AA                | .037 (0.94) | .039 (0.99) |

## NOTES:

1. Flare to meet gauge test.
2. This interface shall meet the gauge requirements as specified in MIL-DTL-3655/15.
3. Dimensions are in inches.
4. Metric equivalents are for information only.

FIGURE 102-1. Interface, series TWBNC, with coupling nut – Continued.

## MIL-STD-348B



| Dimension<br>Ltr. | Inches (mm)  |              |
|-------------------|--------------|--------------|
|                   | Minimum      | Maximum      |
| A                 | .394 (10.01) | .400 (10.16) |
| B                 | .045 (1.14)  | .049 (1.24)  |
| C                 | .091 (2.31)  | .097 (2.46)  |
| D                 | .463 (11.76) | .473 (12.01) |
| E                 | .091 (2.31)  | .097 (2.46)  |
| F                 | .124 (3.15)  | -----        |
| G                 | .180 (4.57)  | .184 (4.67)  |
| H                 | .018 (0.46)  | .022 (0.56)  |

## NOTES:

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

FIGURE 102-2. Interface, series TWBNC, coupling nut.

MIL-STD-348B

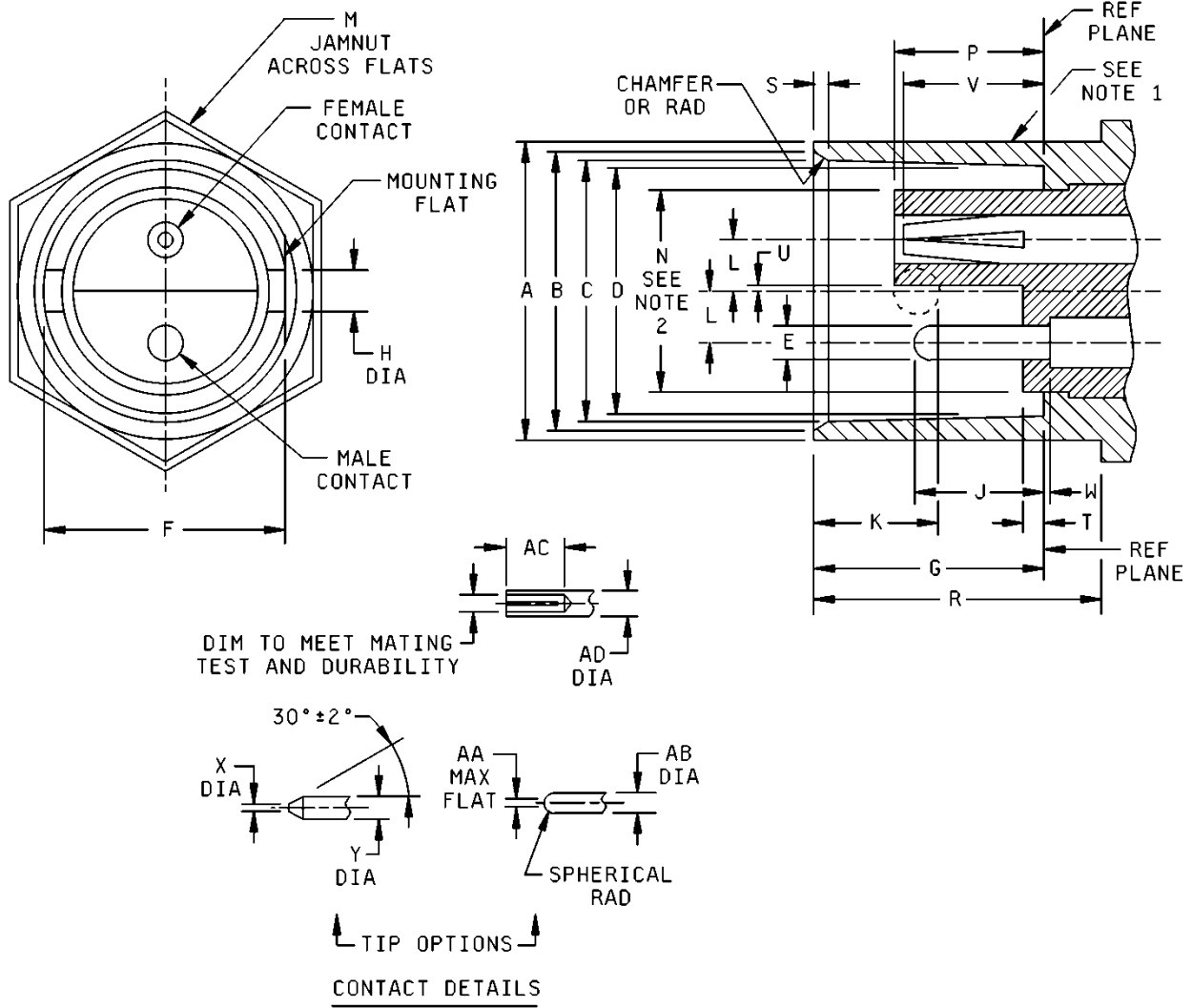


FIGURE 102-3. Interface, series TWBNC, without coupling nut.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)  |              |
|-------------------|--------------|--------------|
|                   | Minimum      | Maximum      |
| A                 | .378 (9.60)  | .381 (9.68)  |
| B                 | .345 (8.76)  | .356 (9.04)  |
| C                 | .327 (8.31)  | .336 (8.53)  |
| D                 | .319 (8.10)  | .321 (8.15)  |
| E                 | .037 (0.94)  | .039 (0.99)  |
| F                 | .432 (10.97) | .436 (11.07) |
| G                 | .329 (8.36)  | .333 (8.46)  |
| H                 | .075 (1.91)  | .081 (2.06)  |
| J                 | .171 (4.34)  | .200 (5.08)  |
| K                 | .204 (5.18)  | .208 (5.28)  |
| L                 | .062 (1.57)  | .064 (1.63)  |
| M                 | .620 (15.75) | .630 (16.00) |
| N                 | -----        | .262 (6.65)  |
| P                 | .188 (4.78)  | .206 (5.23)  |
| R<br>See note 6   | .415 (10.54) | -----        |
| S                 | .015 (0.38)  | .030 (0.76)  |
| T                 | 0 (.00)      | .028 (0.71)  |
| U                 | .001 (0.03)  | .004 (0.10)  |
| V                 | .170 (4.32)  | .200 (5.08)  |
| W                 | 0 (.00)      | .040 (1.02)  |
| X                 | .010 (0.25)  | .015 (0.38)  |
| Y                 | .037 (0.94)  | .039 (0.99)  |
| AA                | -----        | .015 (0.38)  |
| AB                | .037 (0.94)  | .039 (0.99)  |
| AC                | .180 (4.57)  | -----        |
| AD                | .061 (1.55)  | .064 (1.62)  |

## NOTES:

1. Concave depression .100 x .005 deep between studs permitted.
2. N dimension applies to portion of dielectric protruding beyond reference plane.
3. Bayonet studs and plane of contacts shall be within  $\pm 3^\circ$  of orientation shown.
4. Contacts, insulator and mounting flat shall be oriented within  $\pm 3^\circ$  of orientation shown.
5. This interface shall meet the gauge requirements as specified in MIL-DTL-3655/16.
6. Clearance for mating connector coupling nut.
7. Dimensions are in inches.
8. Metric equivalents are for information only.

FIGURE 102-3. Interface, series TWBNC, without coupling nut - Continued.

MIL-STD-348B

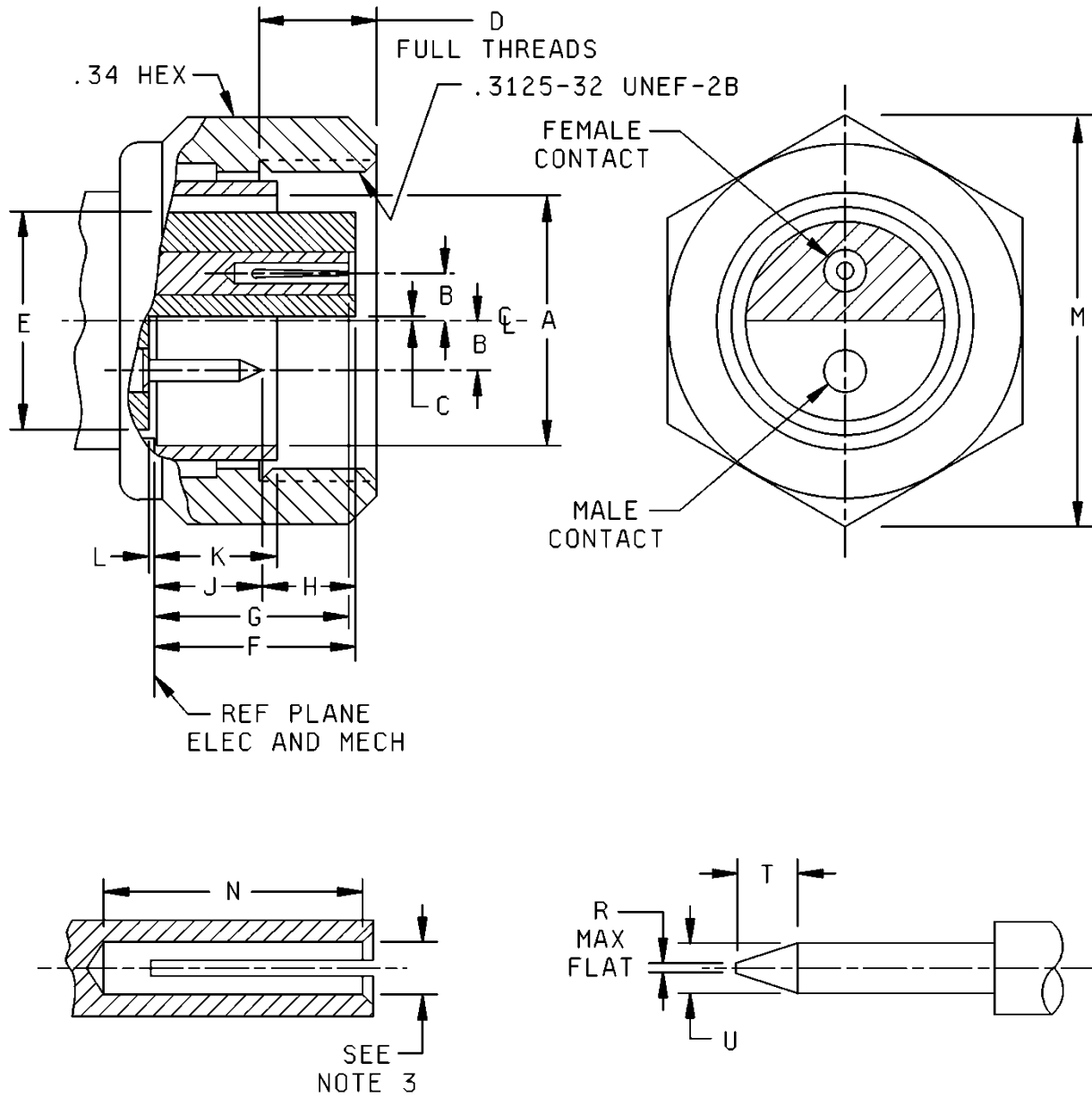


FIGURE 103-1. Interface, series TWSMC, with coupling nut.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)           |               |
|-------------------|-----------------------|---------------|
|                   | Minimum               | Maximum       |
| A (dia.)          | .246 (6.25)           | -----         |
| B                 | .0465 (1.181)         | .0485 (1.232) |
| C                 | .003 (0.08)           | -----         |
| D                 | .110 (2.79)           | -----         |
| E                 | -----                 | .209 (5.31)   |
| F                 | -----                 | .199 (5.05)   |
| G                 | -----                 | .199 (5.05)   |
| H                 | .096 (2.44) Reference |               |
| J                 | -----                 | .105 (2.67)   |
| K                 | -----                 | .122 (3.10)   |
| L                 | .000 (0.00)           | -----         |
| M                 | -----                 | .320 (8.13)   |
| N                 | .110 (2.79)           | -----         |
| R                 | -----                 | .010 (0.25)   |
| T                 | .010 (0.25)           | -----         |
| U (dia.)          | .019 (0.48)           | .021 (0.53)   |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-DTL-3655/18.
2. Thread gauge must go .234 (5.94 mm) minimum from reference plane.
3. Dimensions to meet the mechanical and electrical performance requirements of specification when mated with pin specified herein.
4. Dimensions are in inches.
5. Metric equivalents are for information only.

FIGURE 103-1. Interface, series TWSMC, with coupling nut - Continued.

MIL-STD-348B

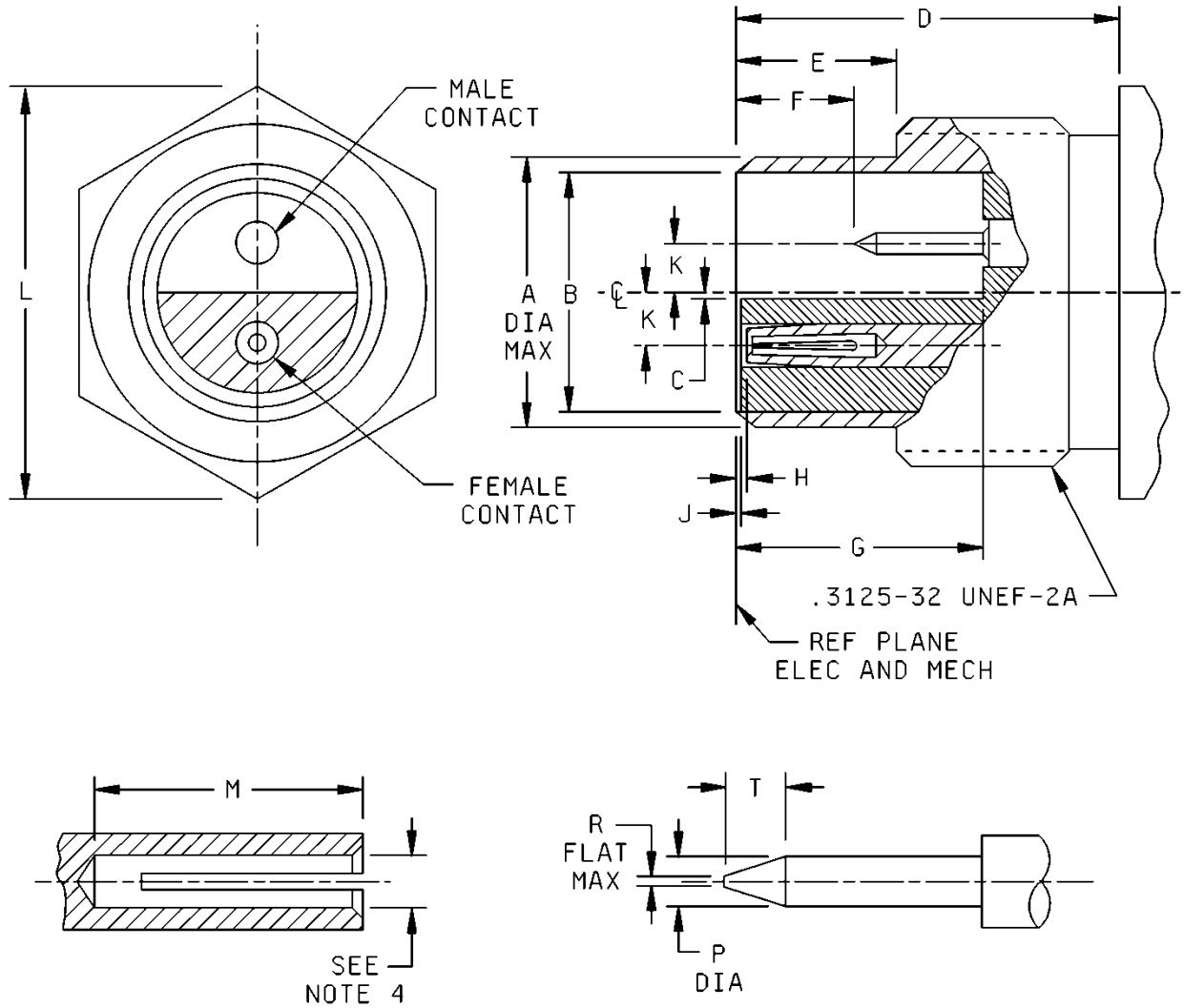


FIGURE 103-2. Interface, series TWSMC, without coupling nut.



## MIL-STD-348B

| Dimension<br>Ltr.         | Inches (mm)   |               |
|---------------------------|---------------|---------------|
|                           | Minimum       | Maximum       |
| A                         | -----         | .245 (6.22)   |
| B                         | .210 (5.33)   | -----         |
| C                         | .003 (0.08)   | -----         |
| D<br>See notes<br>2 and 3 | .234 (5.94)   | -----         |
| E                         | .128 (3.25)   |               |
| F                         | .096 (2.44)   |               |
| G                         | .200 (5.08)   | -----         |
| H                         | .000 (0.00)   | .015 (0.38)   |
| J                         | .000 (0.00)   | -----         |
| K                         | .0465 (1.181) | .0485 (1.232) |
| L                         | -----         | .320 (8.13)   |
| M                         | .110 (2.79)   | -----         |
| P (dia.)                  | .019 (0.48)   | .021 (0.53)   |
| R                         | -----         | .010 (0.25)   |
| T                         | .010 (0.25)   | -----         |

## NOTES:

1. This interface shall meet mating requirements as specified in MIL-DTL-3655/19.
2. Thread gauge must go .234 (5.94 mm) minimum from reference plane.
3. Clearance for mating connector coupling nut.
4. Dimensions to meet the mechanical and electrical performance requirements when mated to pin specified herein.
5. Dimensions are in inches.
6. Metric equivalents are for information only.

FIGURE 103-2. Interface, series TWSMC, without coupling nut - Continued.

MIL-STD-348B

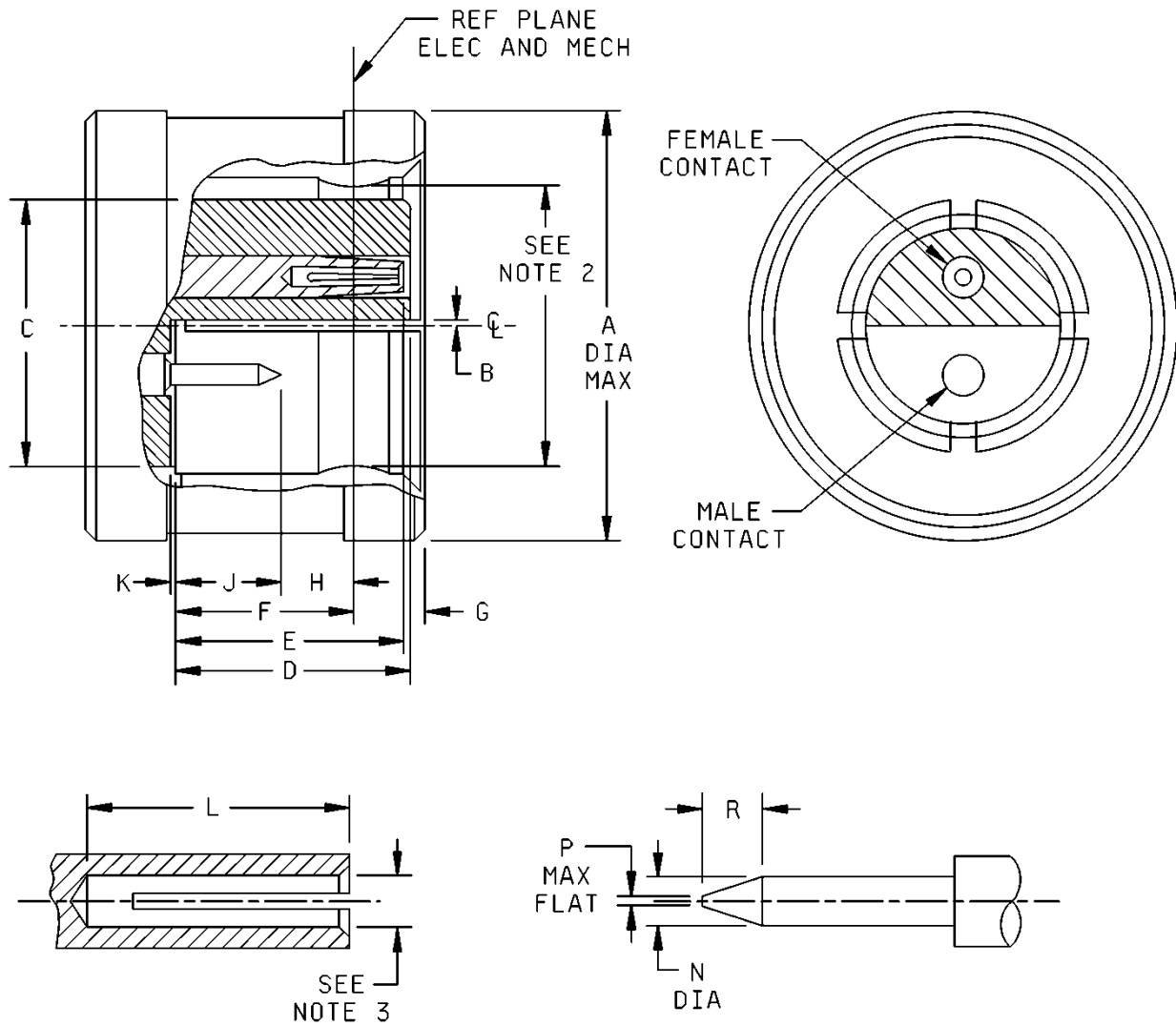


FIGURE 104-1. Interface, series TW-SMB, with coupling mechanism.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm) |             |
|-------------------|-------------|-------------|
|                   | Minimum     | Maximum     |
| A                 | -----       | .370 (9.40) |
| B                 | .003 (0.08) | -----       |
| C                 | -----       | .209 (5.31) |
| D                 | -----       | .199 (5.05) |
| E                 | -----       | .199 (5.05) |
| F                 | .141 (3.58) | -----       |
| G                 | -----       | .064 (1.63) |
| H                 | -----       | .038 (0.97) |
| J                 | -----       | .105 (2.67) |
| K                 | .000 (0.00) | -----       |
| L                 | .110 (2.79) | -----       |
| N                 | .019 (0.48) | .021 (0.53) |
| P                 | -----       | .010 (0.25) |
| R                 | .010 (0.25) | -----       |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-DTL-3655/20.
2. This interface shall meet the force to engage/disengage as specified in MIL-DTL-3655/20.
3. ID to meet mating characteristics and connector durability when mated with pin specified herein.
4. Dimensions are in inches.
5. Metric equivalents are for information only.

FIGURE 104-1. Interface, series TWSMB, with coupling mechanism - Continued.

MIL-STD-348B

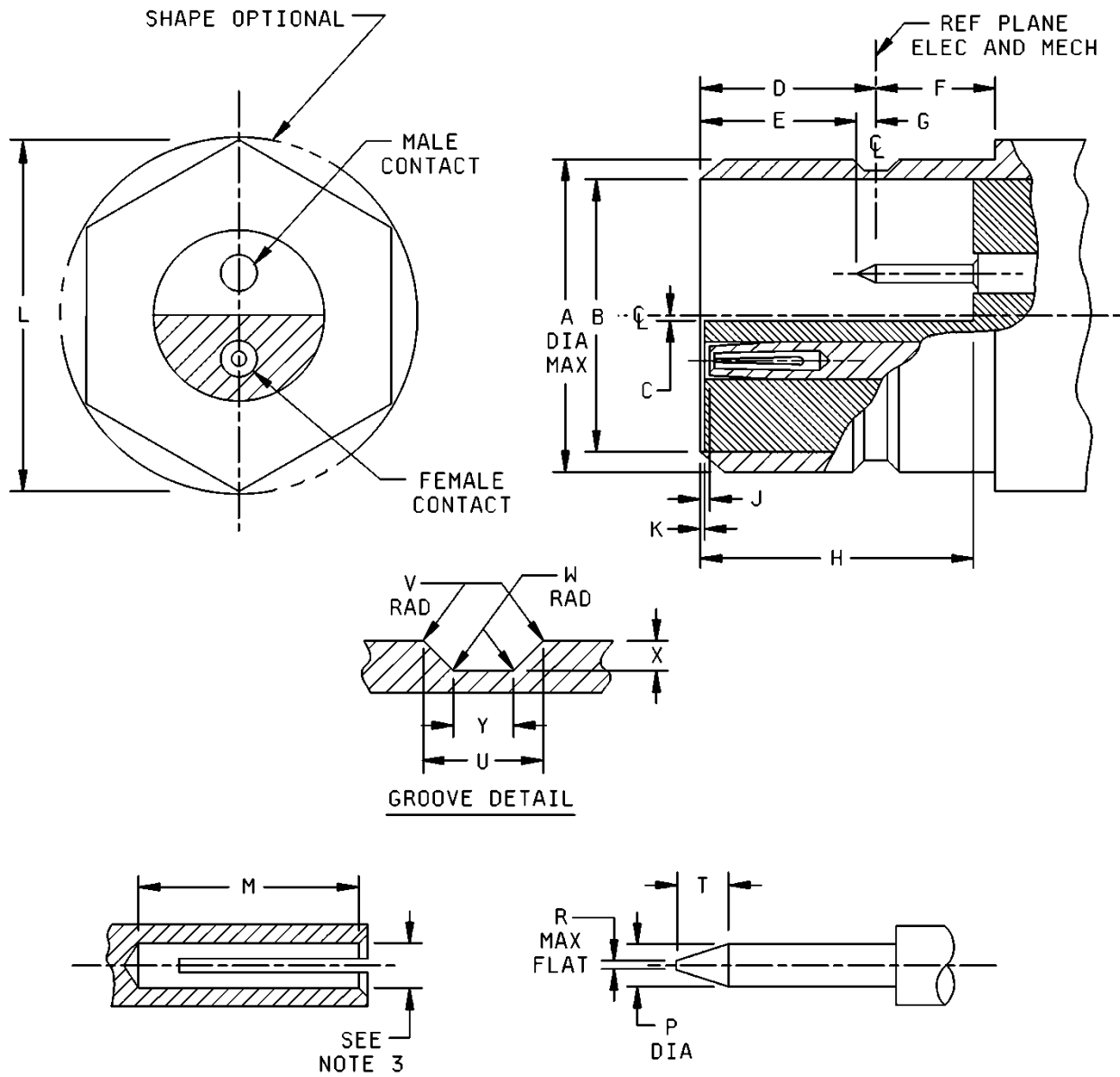


FIGURE 104-2. Interface, series TWSMB, without coupling mechanism.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm) |                  |
|-------------------|-------------|------------------|
|                   | Minimum     | Maximum          |
| A                 | -----       | .245 (6.22)      |
| B                 | .210 (5.33) | -----            |
| C                 | .003 (0.08) | -----            |
| D                 | .131 (3.33) | .141 (3.58)      |
| E                 | .096 (2.44) | -----            |
| F<br>See note 2   | .065 (1.65) | -----            |
| G                 | -----       | .045 (1.14) Ref. |
| H                 | .200 (5.08) | -----            |
| J                 | .000 (0.00) | .015 (0.38)      |
| K                 | .000 (0.00) | -----            |
| L                 | -----       | .320 (8.13)      |
| M                 | .110 (2.79) | -----            |
| P                 | .019 (0.48) | .021 (0.53)      |
| R                 | -----       | .010 (0.25)      |
| T                 | .010 (0.25) | -----            |
| U                 | .027 (0.69) | .037 (0.94)      |
| V                 | .002 (0.05) | .006 (0.15)      |
| W                 | -----       | .005 (0.13)      |
| X                 | .006 (0.15) | .010 (0.25)      |
| Y                 | .011 (0.28) | .015 (0.38)      |

## NOTES:

1. This interface shall meet the mating requirements as specified in MIL-DTL-3655/21.
2. Clearance for mating connector coupling nut.
3. ID to meet mating characteristics and connector durability when mated with pin specified herein.
4. Dimensions are in inches.
5. Metric equivalents are for information only.

FIGURE 104-2. Interface, series TWSMB, without coupling mechanism - Continued.

MIL-STD-348B

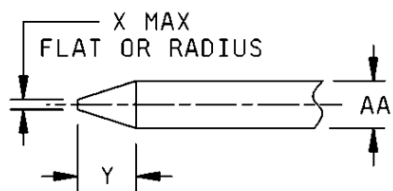
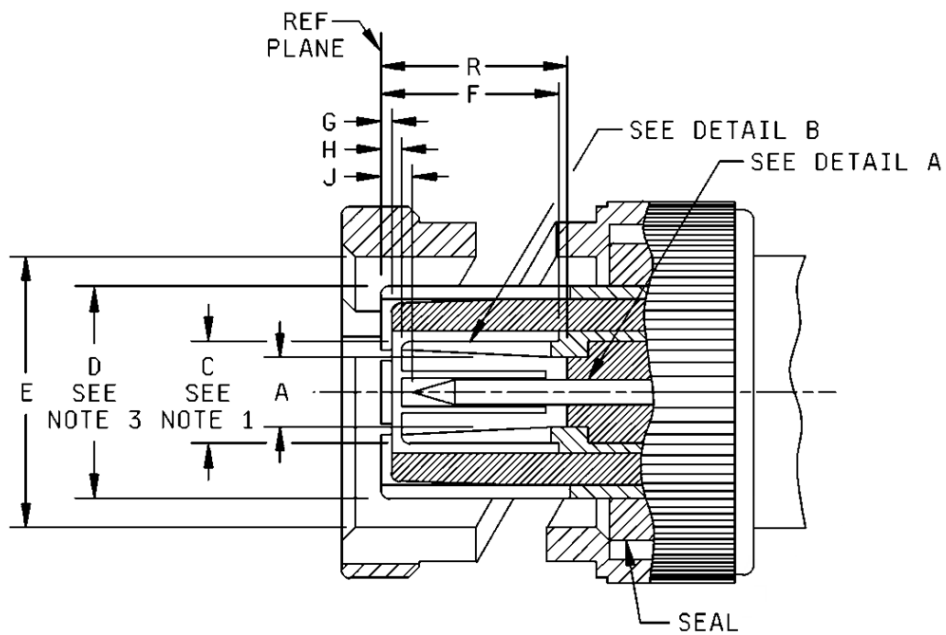
SECTION 200

Interface Dimensions for MIL-DTL-49142

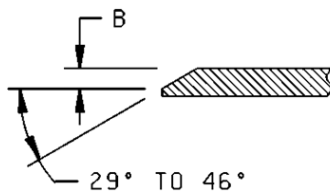
Section 201  
Section 202

Series TRB  
Series TRT

MIL-STD-348B



CENTER CONDUCTOR  
DETAIL A



INTERMEDIATE CONDUCTOR  
DETAIL B

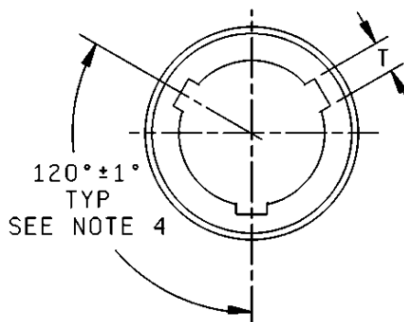
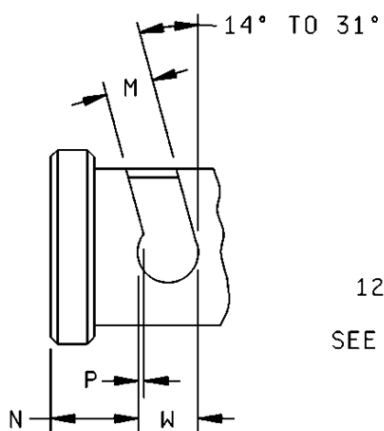


FIGURE 201-1. Interface, series TRB, pin contact.

## MIL-STD-348B

| Ltr. | Inches (mm) |             |
|------|-------------|-------------|
|      | Min.        | Max.        |
| A    | .123 (3.12) | -----       |
| B    | .005 (0.13) | .010 (0.25) |
| C    | See note 1  |             |
| D    |             |             |
| E    | .385 (9.78) | .390 (9.91) |
| F    | .213 (5.41) | .242 (6.15) |
| G    | .001 (0.03) | -----       |
| H    | .007 (0.18) | .033 (0.84) |
| J    | .008 (0.20) | .042 (1.07) |
| M    | .091 (2.31) | .097 (2.46) |
| N    | .180 (4.57) | .184 (4.67) |
| P    | .018 (0.46) | .022 (0.56) |
| R    | .213 (5.41) | -----       |
| T    | .091 (2.31) | .097 (2.46) |
| W    | .124 (3.15) | -----       |
| X    | -----       | .010 (0.25) |
| Y    | .041 (1.04) | .061 (1.55) |
| AA   | .037 (0.94) | .039 (0.99) |

## NOTES:

1. Flared to meet mating characteristic test.
2. Metric equivalents are given in parentheses or tabulated.
3. This interface shall meet the gauge requirements of MIL-PRF-49142.
4. Standard polarization, see MIL-PRF-49142 for other options.
5. Dimensions are in inches.
6. Metric equivalents are for information only.

FIGURE 201-1. Interface, series TRB, pin contact - Continued.



MIL-STD-348B

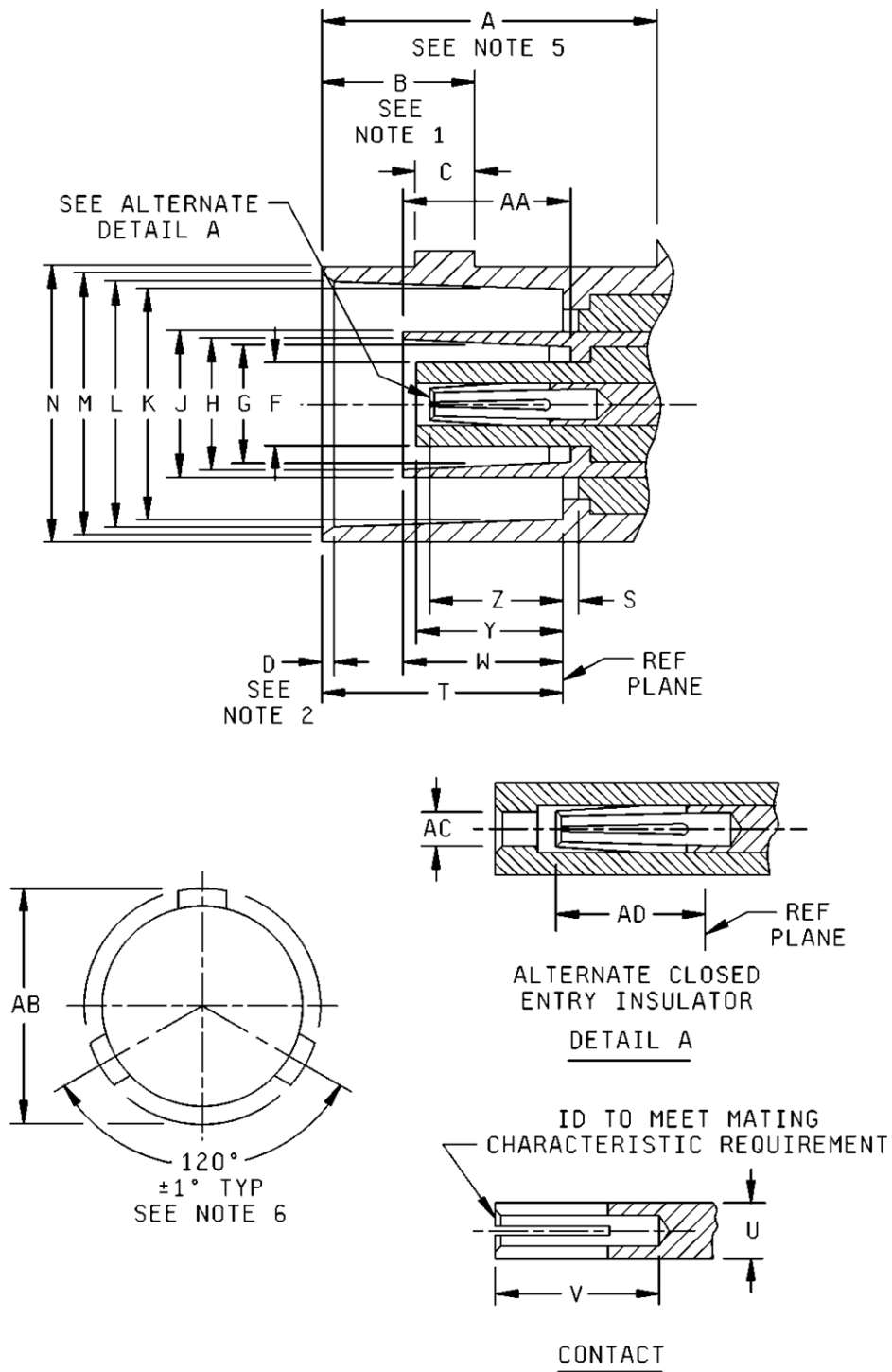


FIGURE 201-2. Interface, series TRB, socket contact.

## MIL-STD-348B

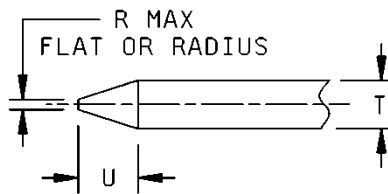
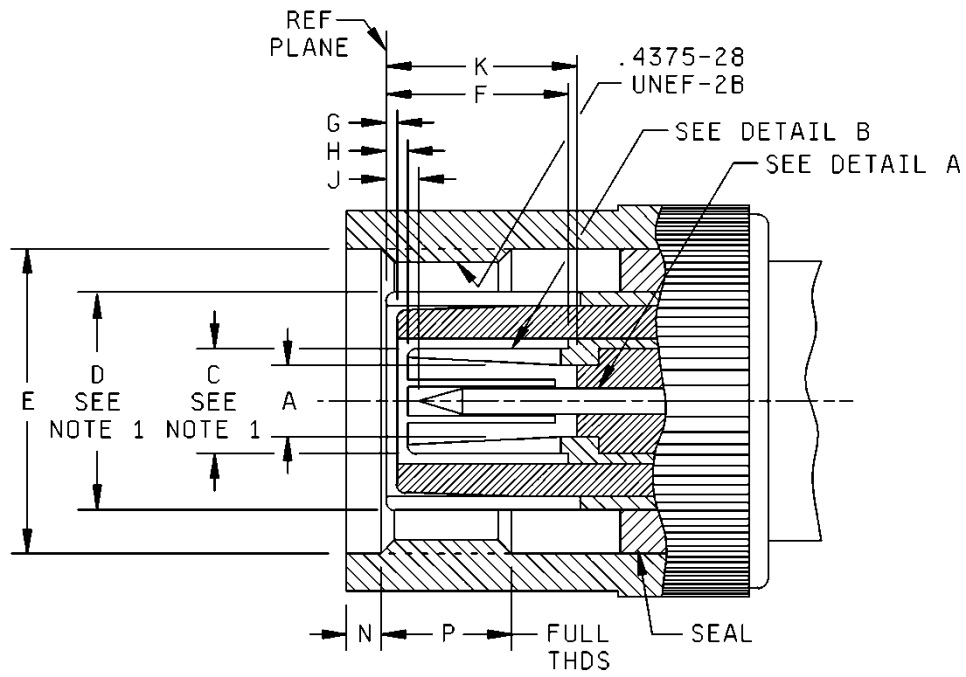
| Ltr. | Inches (millimeters) |              |
|------|----------------------|--------------|
|      | Minimum              | Maximum      |
| A    | .414 (10.52)         | -----        |
| B    | .204 (5.18)          | .208 (5.28)  |
| C    | .075 (1.91)          | .081 (2.06)  |
| D    | .015 (0.38)          | .030 (0.76)  |
| F    | .117 (2.97)          | .122 (3.10)  |
| G    | .169 (4.29)          | .171 (4.34)  |
| H    | .178 (4.52)          | .182 (4.62)  |
| J    | .195 (4.95)          | .199 (5.05)  |
| K    | .319 (8.10)          | .321 (8.15)  |
| L    | .327 (8.31)          | .333 (8.46)  |
| M    | .346 (8.79)          | .356 (9.04)  |
| N    | .378 (9.60)          | .382 (9.70)  |
| S    | .001 (0.03)          | -----        |
| T    | .327 (8.31)          | .335 (8.51)  |
| U    | .062 (1.57)          | .064 (1.63)  |
| V    | .200 (5.08)          | -----        |
| W    | .187 (4.75)          | .213 (5.41)  |
| Y    | -----                | .213 (5.41)  |
| Z    | .165 (4.19)          | .203 (5.16)  |
| AA   | .206 (5.23)          | .213 (5.41)  |
| AB   | .432 (10.97)         | .436 (11.07) |
| AC   | .040 (1.02)          | .043 (1.09)  |
| AD   | .133 (3.38)          | .165 (4.19)  |

## NOTES:

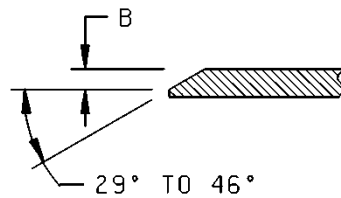
1. .005 (0.13 mm) flat permissible to meet dimension B.
2. Chamfer or radius.
3. Metric equivalents are in parentheses or tabulated.
4. This interface shall meet the gauge requirements of MIL-PRF-49142.
5. Clearance for mating connector coupling nut.
6. Standard polarization, see MIL-PRF-49142 for other options.
7. Dimensions are in inches.
8. Metric equivalents are for information only.

FIGURE 201-2. Interface, series TRB, socket contact – Continued.

MIL-STD-348B



CENTER CONDUCTOR  
DETAIL A



INTERMEDIATE CONDUCTOR  
DETAIL B

FIGURE 202-1. Interface, series TRT, pin contact.

## MIL-STD-348B

| Ltr. | Inches (mm)  |             |
|------|--------------|-------------|
|      | Min.         | Max.        |
| A    | .123 (3.12)  | -----       |
| B    | .005 (0.13)  | .010 (0.25) |
| C    | See note 1   |             |
| D    |              |             |
| E    | .440 (11.18) | -----       |
| F    | .213 (5.41)  | .242 (6.15) |
| G    | .001 (0.03)  | -----       |
| H    | .007 (0.18)  | .033 (0.84) |
| J    | .008 (0.20)  | .042 (1.07) |
| K    | .213 (5.41)  | -----       |
| N    | .063 (1.60)  | -----       |
| P    | .156 (3.96)  | -----       |
| R    | -----        | .010 (0.25) |
| T    | .037 (0.94)  | .039 (0.99) |
| U    | .041 (1.04)  | .061 (1.55) |

## NOTES:

1. Flared to meet mating characteristic test.
2. Metric equivalents are in parentheses or tabulated.
3. This interface shall meet the gauge requirements of MIL-PRF-49142.
4. Dimensions are in inches.
5. Metric equivalents are for information only.

FIGURE 202-1. Interface, series TRT, pin contact - Continued.

MIL-STD-348B

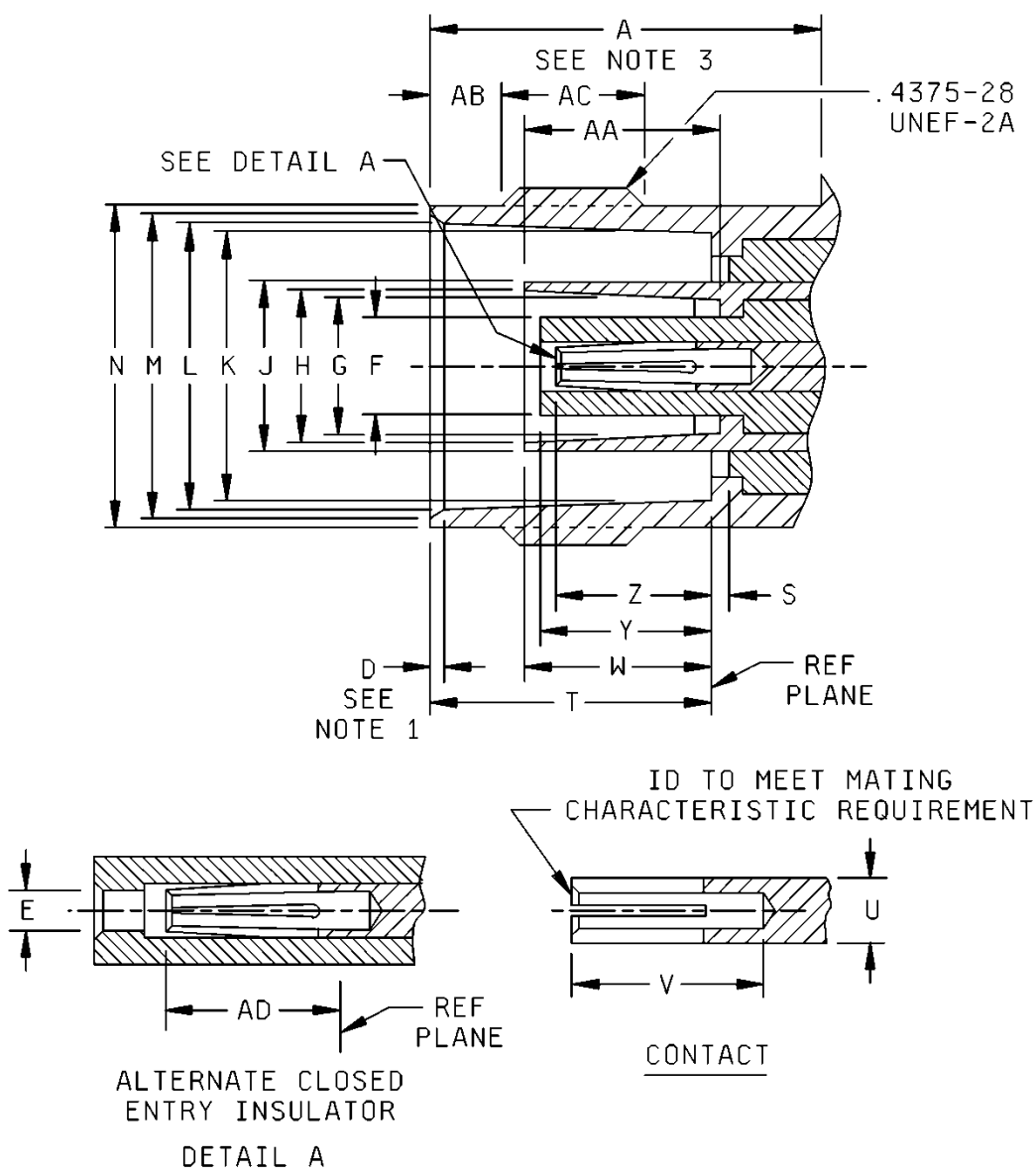


FIGURE 202-2. Interface, series TRT, socket contact.

## MIL-STD-348B

| Ltr. | Inches (millimeter) |             |
|------|---------------------|-------------|
|      | Min.                | Max.        |
| A    | .414 (10.52)        | -----       |
| D    | .015 (0.38)         | .030 (0.76) |
| E    | .040 (1.02)         | .043 (1.09) |
| F    | .117 (2.97)         | .122 (3.10) |
| G    | .169 (4.29)         | .171 (4.34) |
| H    | .178 (4.52)         | .182 (4.62) |
| J    | .195 (4.95)         | .199 (5.05) |
| K    | .319 (8.10)         | .321 (8.15) |
| L    | .327 (8.31)         | .333 (8.46) |
| M    | .346 (8.79)         | .356 (9.04) |
| N    | .378 (9.60)         | .382 (9.70) |
| S    | .001 (0.03)         | -----       |
| T    | .327 (8.31)         | .335 (8.51) |
| U    | .062 (1.57)         | .064 (1.63) |
| V    | .200 (5.08)         | -----       |
| W    | .187 (4.75)         | .213 (5.41) |
| Y    | -----               | .213 (5.41) |
| Z    | .165 (4.19)         | .203 (5.16) |
| AA   | .206 (5.23)         | .213 (5.41) |
| AB   | .068 (1.73)         | .088 (2.24) |
| AC   | .187 (4.75)         | -----       |
| AD   | .133 (3.38)         | .165 (4.19) |

## NOTES:

1. Chamfer or radius.
2. This interface shall meet the gauge requirements of MIL-PRF-49142.
3. Clearance for mating connector coupling nut.
4. Dimensions are in inches.
5. Metric equivalents are for information only.

FIGURE 202-2. Interface, series TRT, socket contact – Continued.

MIL-STD-348B

SECTION 300

Interface Dimensions for MIL-DTL-3643, MIL-DTL-3650, MIL-DTL-39012, MIL-DTL-55339 and MIL-DTL-83517

|             |                              |
|-------------|------------------------------|
| Section 301 | Series BNC                   |
| Section 302 | Series C                     |
| Section 303 | Series MHV                   |
| Section 304 | Series N                     |
| Section 305 | Series QL                    |
| Section 306 | Series QM                    |
| Section 307 | Series QNC                   |
| Section 308 | Series QSC                   |
| Section 309 | Series SC                    |
| Section 310 | Series SMA                   |
| Section 311 | Series SMB                   |
| Section 312 | Series SMC                   |
| Section 313 | Series TNC                   |
| Section 313 | Series TNCA                  |
| Section 314 | Series SHV                   |
| Section 315 | Series LC                    |
| Section 316 | Series Environment resistant |
| Section 317 | Series HN                    |
| Section 318 | Series LT                    |
| Section 319 | Series SSMA                  |
| Section 320 | Series SSMB                  |
| Section 321 | Series BMA                   |
| Section 322 | Series BMB                   |
| Section 323 | Series SMK                   |
| Section 324 | Series 2.4 mm                |
| Section 325 | Series BMZ                   |
| Section 326 | Series SMP                   |
| Section 327 | Series DBA                   |
| Section 328 | Series SMPM                  |
| Section 329 | Series TK                    |
| Section 330 | Series BNC                   |
| Section 331 | Series N                     |
| Section 332 | Series TNC                   |

MIL-STD-348B

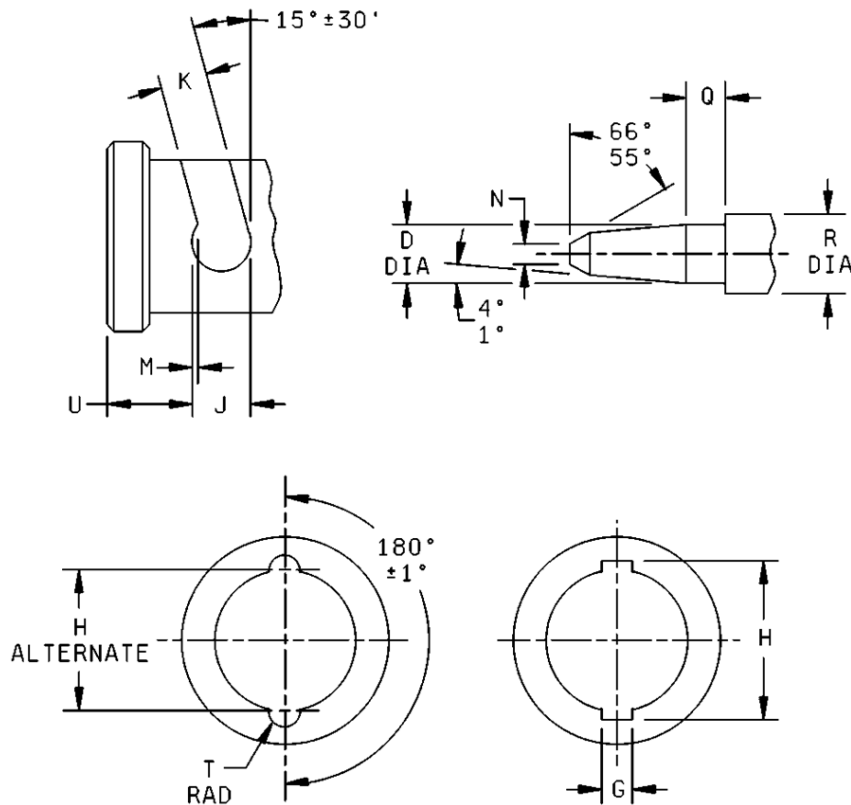
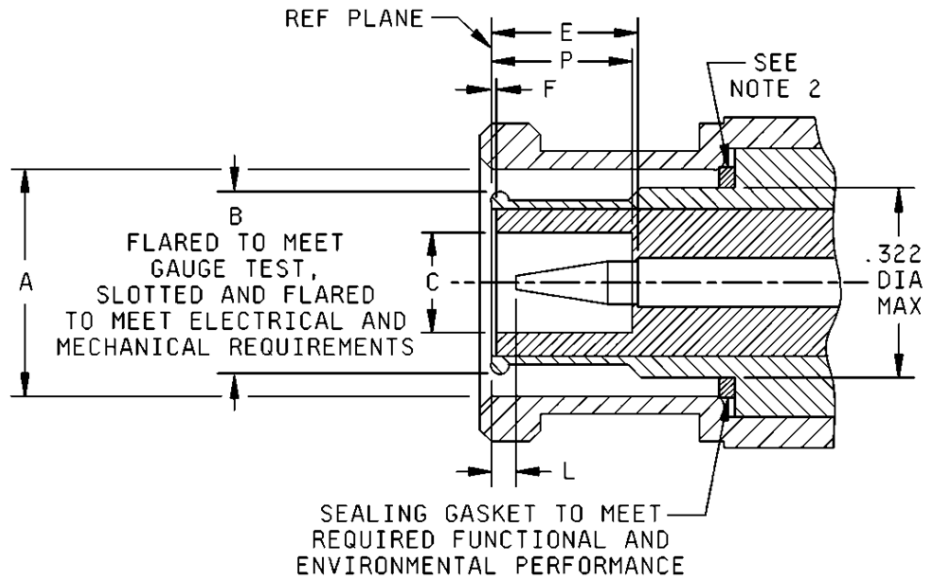


FIGURE 301-1. Interface, series BNC, pin contact.



## MIL-STD-348B

| Dim.<br>Ltr.   | Inches (mm)  |              |
|----------------|--------------|--------------|
|                | Minimum      | Maximum      |
| A              | .385 (9.78)  | .390 (9.91)  |
| B              | Gauge test   |              |
| C              | .190 (4.83)  | -----        |
| D              | .052 (1.32)  | .054 (1.37)  |
| E              | .210 (5.33)  | .230 (5.84)  |
| F              | .006 (0.15)  | -----        |
| G              | .091 (2.31)  | .097 (2.46)  |
| H              | .463 (11.76) | .473 (12.01) |
| H<br>Alternate | .394 (10.01) | .400 (10.16) |
| J              | .124 (3.15)  | -----        |
| K              | .091 (2.31)  | .097 (2.46)  |
| L              | .003 (0.08)  | -----        |
| M              | .018 (0.46)  | .022 (0.56)  |
| N              | -----        | .025 (0.64)  |
| P              | .208 (5.28)  | .228 (5.79)  |
| Q              | .078 (1.98)  | -----        |
| R              | .081 (2.06)  | .087 (2.21)  |
| T              | .045 (1.14)  | .049 (1.24)  |
| U              | .180 (4.57)  | .184 (4.67)  |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/16.
2. In the mated condition, the longitudinal force of the spring of the coupling mechanism shall exceed the pressure exerted by the sealing gasket by an amount necessary to insure butting of the outer contacts at the reference plane.

FIGURE 301-1. Interface, series BNC, pin contact – Continued.

MIL-STD-348B

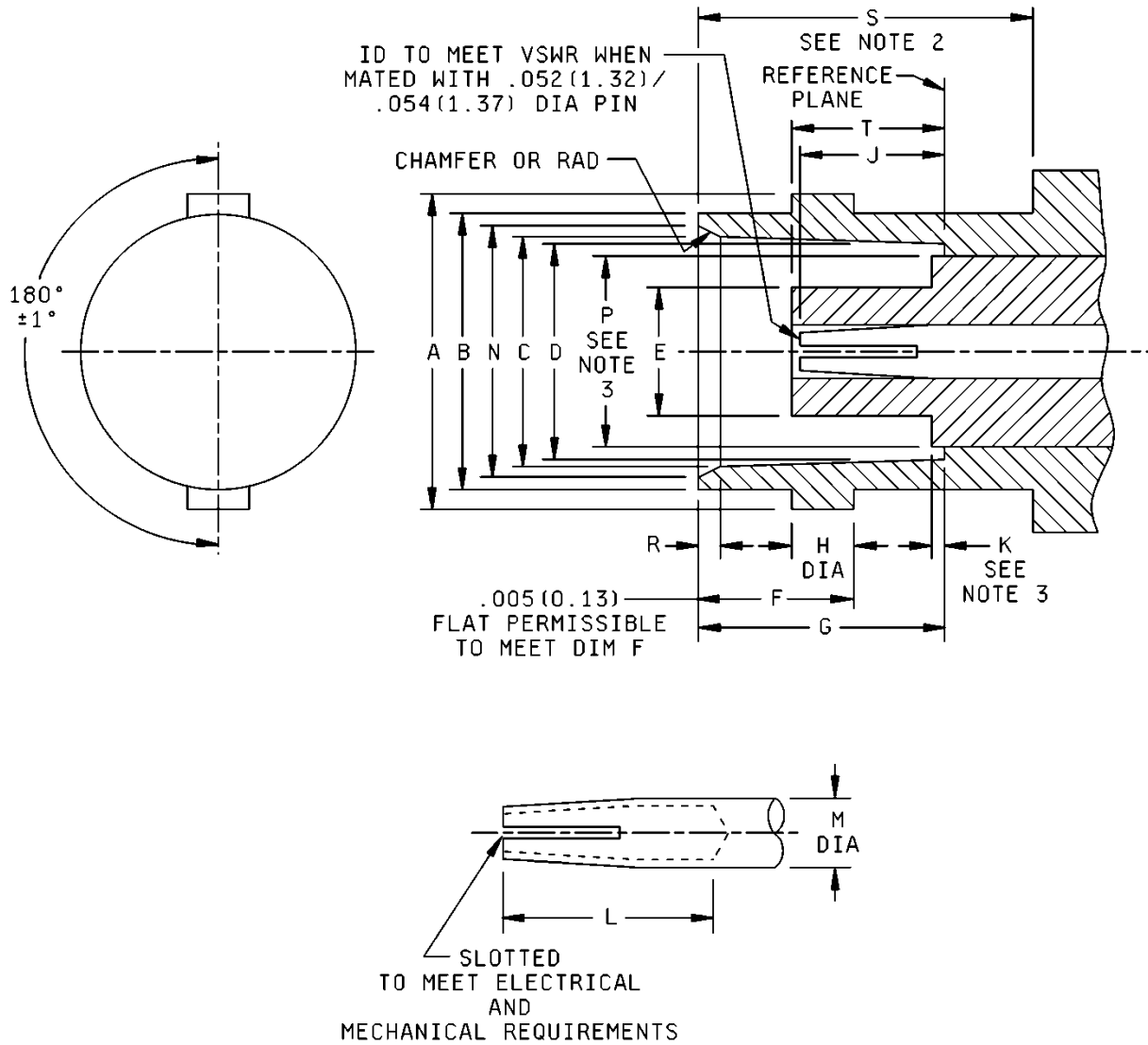


FIGURE 301-2. Interface, series BNC, socket contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Minimum      | Maximum      |
| A            | .432 (10.97) | .436 (11.07) |
| B            | .378 (9.60)  | .382 (9.70)  |
| C            | .327 (8.31)  | .333 (8.46)  |
| D            | .319 (8.10)  | .321 (8.15)  |
| E            | -----        | .186 (4.72)  |
| F            | .204 (5.18)  | .208 (5.28)  |
| G            | .327 (8.31)  | .335 (8.51)  |
| H            | .075 (1.91)  | .081 (2.06)  |
| J            | .186 (4.72)  | .206 (5.23)  |
| K            | -----        | .006 (0.15)  |
| L            | .195 (4.95)  | -----        |
| M            | .081 (2.06)  | .087 (2.21)  |
| N            | .346 (8.79)  | .356 (9.04)  |
| P            | -----        | .256 (6.50)  |
| R            | .015 (0.38)  | .030 (0.76)  |
| S            | .414 (10.52) | -----        |
| T            | .188 (4.78)  | .208 (5.28)  |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/17.
2. Clearance for mating connector coupling nut.
3. P dimension applies to that portion (if applicable) of dielectric which extends beyond reference plane by dimension K.

FIGURE 301-2. Interface, series BNC, socket contact - Continued.

MIL-STD-348B

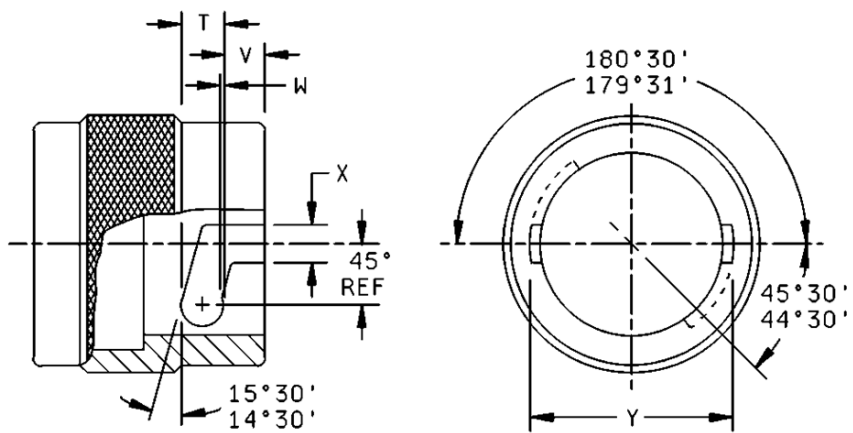
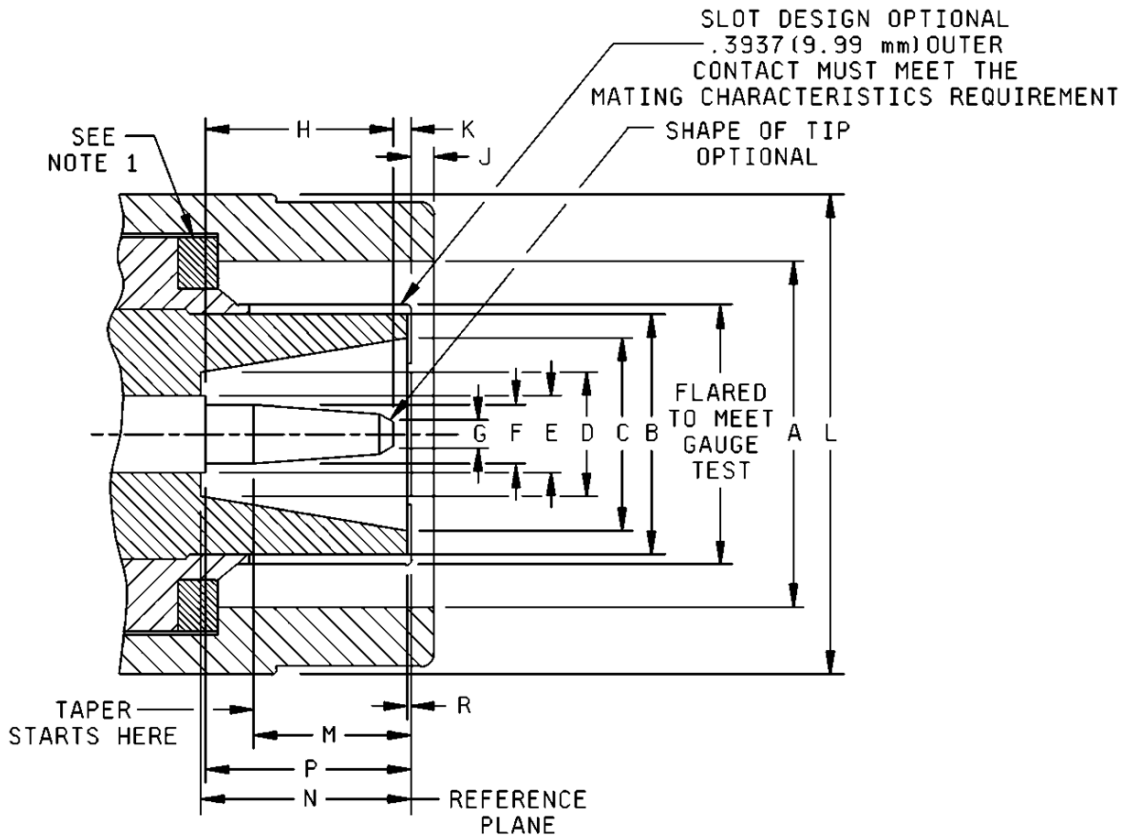


FIGURE 302-1. Interface, series C, pin contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Minimum      | Maximum      |
| A            | .543 (13.79) | .549 (13.94) |
| B            | .377 (9.58)  | -----        |
| C            | .276 (7.01)  | -----        |
| D            | .194 (4.93)  | -----        |
| E            | .119 (3.02)  | .124 (3.15)  |
| F            | .090 (2.29)  | .092 (2.34)  |
| G            | -----        | .050 (1.27)  |
| H            | .297 (7.54)  | .304 (7.72)  |
| J            | -----        | .085 (2.16)  |
| K            | .003 (0.08)  | .040 (1.02)  |
| L            | -----        | .781 (19.84) |
| M            | .191 (4.85)  | .251 (6.38)  |
| N            | .309 (7.85)  | -----        |
| P            | .307 (7.80)  | .337 (8.56)  |
| R            | .007 (0.18)  | -----        |
| T            | .131 (3.33)  | .141 (3.58)  |
| V            | .103 (2.62)  | .113 (2.87)  |
| W            | .010 (0.25)  | .016 (0.41)  |
| X            | .104 (2.64)  | .114 (2.90)  |
| Y            | .612 (15.54) | -----        |

## NOTES:

1. In the mated condition, the longitudinal force of the spring of the coupling mechanism shall exceed the pressure exerted by the sealing gasket by an amount necessary to insure butting of the outer contacts at the reference plane.
2. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/6.
3. The ID of the outer contact when inserted into a .411 inch (10.44 mm) maximum ring gauge shall be .377 inch (9.58 mm) minimum.

FIGURE 302-1. Interface, series C, pin contact - Continued.

MIL-STD-348B

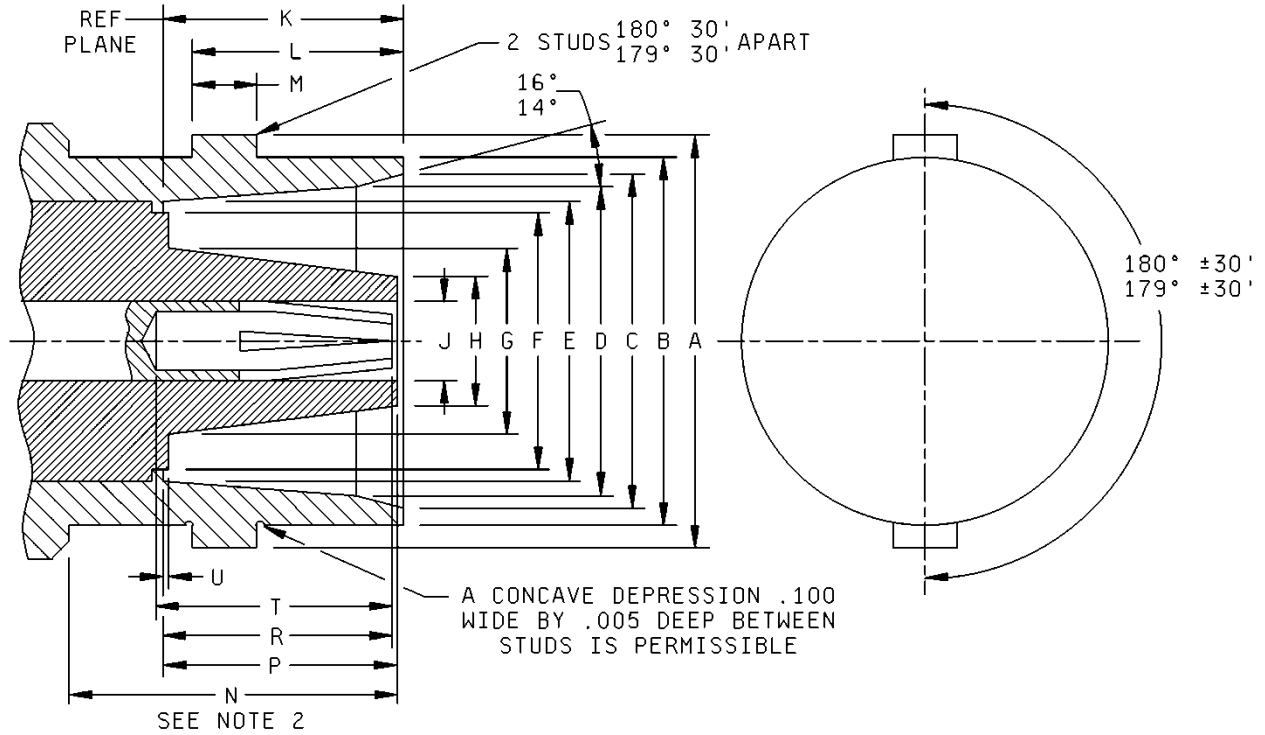


FIGURE 302-2. Interface, series C, socket contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Minimum      | Maximum      |
| A            | .590 (14.99) | .600 (15.24) |
| B            | .530 (13.46) | .540 (13.72) |
| C            | .485 (12.32) | .495 (12.57) |
| D            | .440 (11.18) | .450 (11.43) |
| E            | .411 (10.44) | .415 (10.54) |
| F            | -----        | .374 (9.50)  |
| G            | -----        | .272 (6.91)  |
| H            | -----        | .190 (4.83)  |
| J            | .119 (3.02)  | .124 (3.15)  |
| K            | .332 (8.43)  | .338 (8.59)  |
| L            | .307 (7.80)  | .313 (7.95)  |
| M dia.       | .088 (2.24)  | .098 (2.49)  |
| N            | .495 (12.57) | -----        |
| P            | -----        | .309 (7.85)  |
| R            | .273 (6.93)  | .303 (7.70)  |
| T            | .300 (7.62)  | -----        |
| U            | -----        | .007 (0.18)  |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/7.
2. Clearance for mating connector coupling nut.

FIGURE 302-2. Interface, series C, socket contact – Continued.

MIL-STD-348B

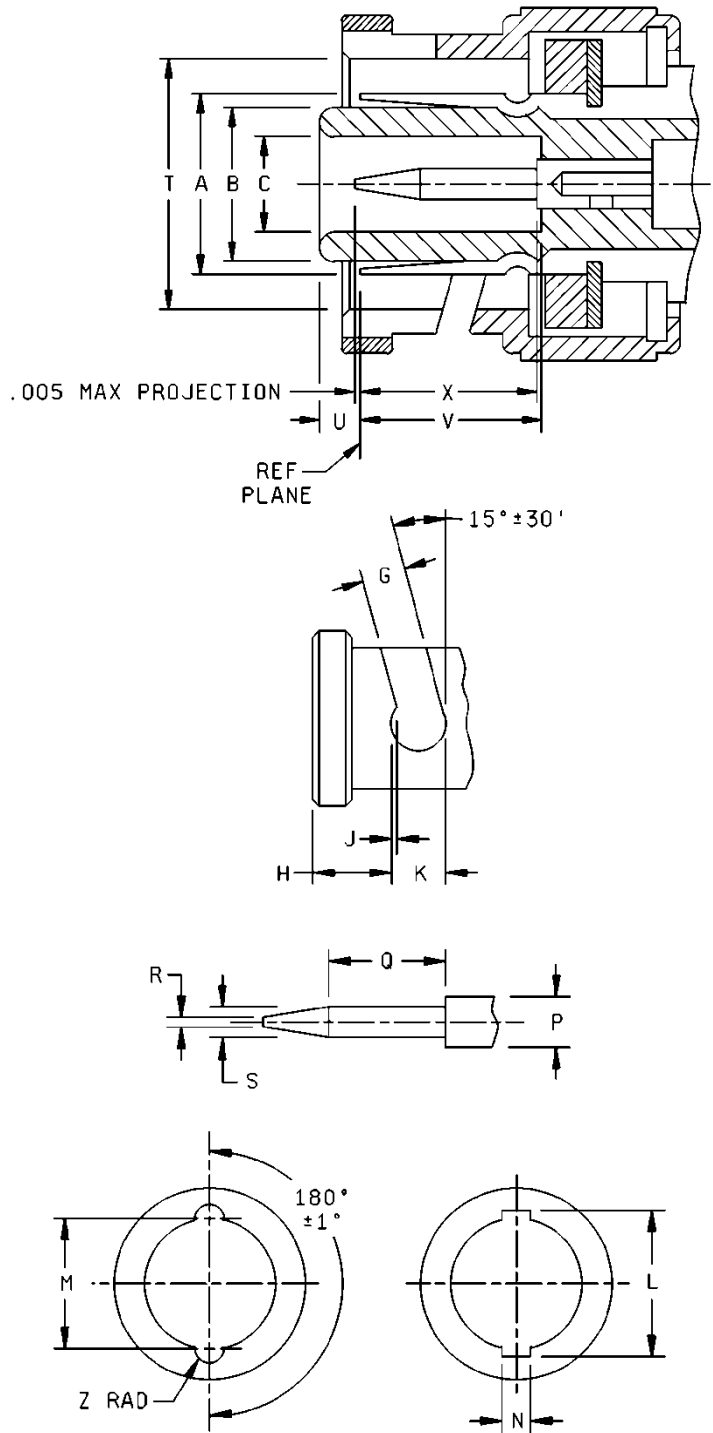


FIGURE 303-1. Interface, series MHV, pin contact.



## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | Gauge test   |              |
| B            | .278 (7.06)  | .282 (7.16)  |
| C            | .190 (4.83)  | .194 (4.93)  |
| G            | .091 (2.31)  | .097 (2.46)  |
| H            | .180 (4.57)  | .184 (4.67)  |
| J            | .018 (0.46)  | .022 (0.56)  |
| K            | .124 (3.15)  | -----        |
| L            | .463 (11.76) | .473 (12.01) |
| M            | .394 (10.01) | .400 (10.16) |
| N            | .091 (2.31)  | .097 (2.46)  |
| P            | .089 (2.26)  | .091 (2.31)  |
| Q            | .207 (5.26)  | -----        |
| R            | -----        | .025 (0.64)  |
| S            | .052 (1.32)  | .054 (1.37)  |
| T            | .385 (9.78)  | .390 (9.91)  |
| U            | -----        | .086 (2.18)  |
| V            | .302 (7.67)  | -----        |
| X            | .300 (7.62)  | -----        |
| Z            | .045 (1.14)  | .049 (1.24)  |

NOTE: This interface shall meet the gauge requirements as specified in MIL-PRF-39012/100.

FIGURE 303-1. Interface, series MHV, pin contact - Continued.

MIL-STD-348B

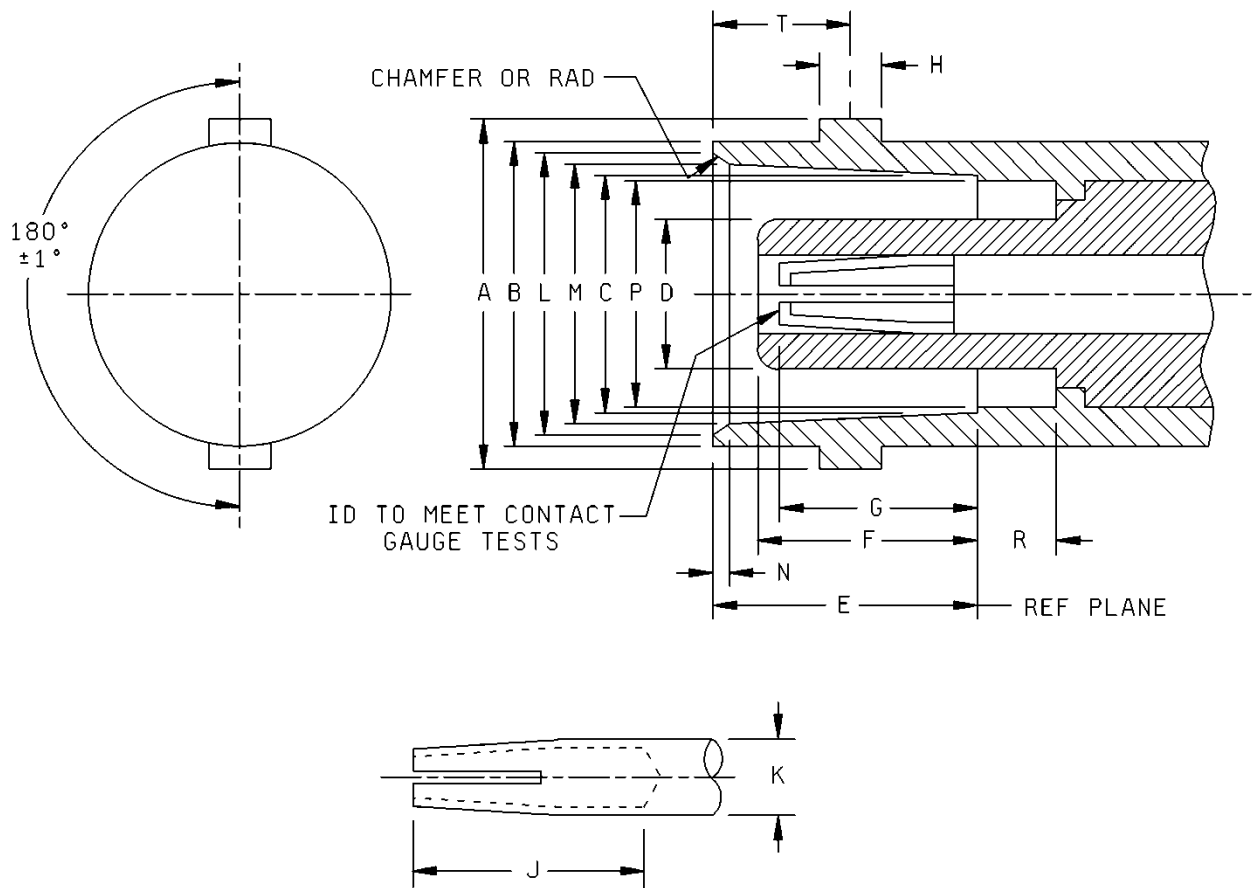


FIGURE 303-2. Interface, series MHV, socket contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | .432 (10.97) | .436 (11.07) |
| B            | .378 (9.60)  | .382 (9.70)  |
| C            | .319 (8.10)  | .321 (8.15)  |
| D            | -----        | .186 (4.72)  |
| E            | .327 (8.31)  | .335 (8.51)  |
| F            | .289 (7.34)  | .311 (7.90)  |
| G            | .253 (6.43)  | .280 (7.11)  |
| H            | .075 (1.91)  | .081 (2.06)  |
| J            | .270 (6.86)  | -----        |
| K            | .081 (2.06)  | .091 (2.31)  |
| L            | .346 (8.79)  | .356 (9.04)  |
| M            | .327 (8.31)  | .333 (8.46)  |
| N            | .015 (.38)   | .030 (0.76)  |
| P            | .284 (7.21)  | .290 (7.37)  |
| R            | .086 (2.18)  | -----        |
| T            | .165 (4.19)  | .169 (4.29)  |

FIGURE 303-2. Interface, series MHV, socket contact - Continued.

MIL-STD-348B

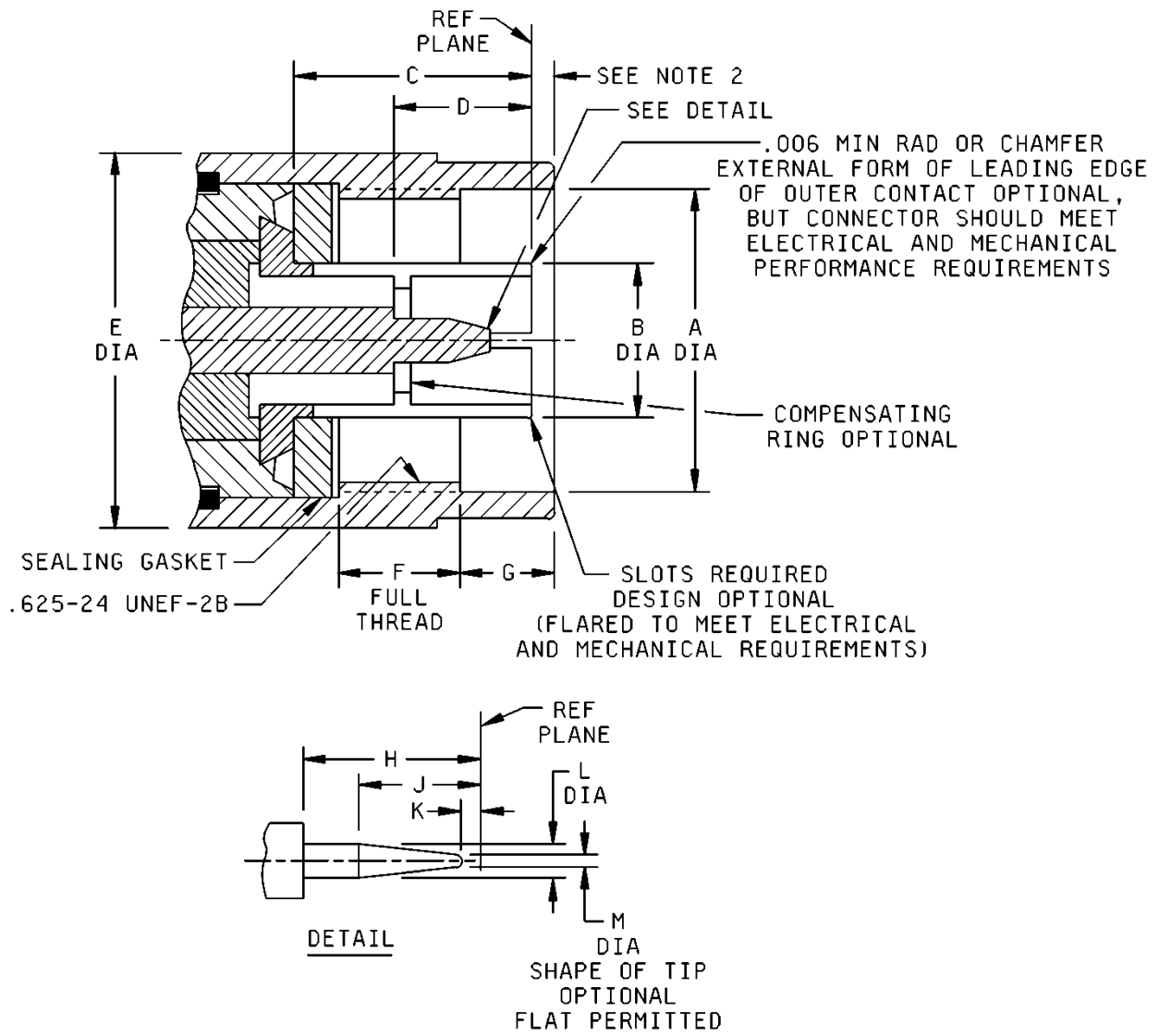


FIGURE 304-1. Interface, series N, pin contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A Dia.       | .630 (16.00) | -----        |
| B Dia.       | -----        | .330 (8.38)  |
| C            | .398 (10.11) | .412 (10.46) |
| D            | .210 (5.33)  | .230 (5.84)  |
| E Dia.       | -----        | .827 (21.01) |
| F            | .177 (4.50)  | -----        |
| G            | .158 (4.01)  | .168 (4.27)  |
| H            | .210 (5.33)  | -----        |
| J            | .110 (2.79)  | .140 (3.56)  |
| K            | .003 (.08)   | -----        |
| L            | .063 (1.60)  | .066 (1.68)  |
| M            | -----        | .010 (0.25)  |

## NOTE:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/1.
2. When nut is biased fully forward, the maximum dimension permitted is .060 inch (1.52 mm). When nut is biased fully back, the minimum dimension permitted is .016 inch (0.41 mm).

FIGURE 304-1. Interface, series N, pin contact - Continued.

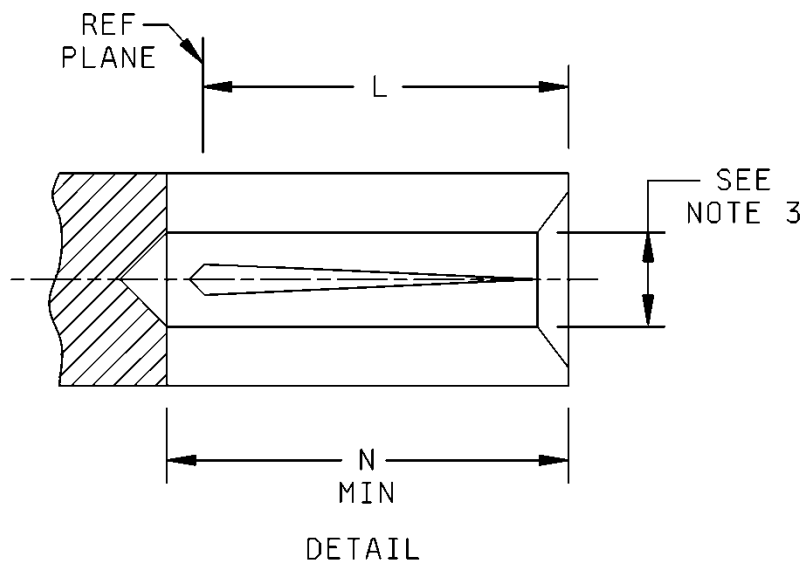
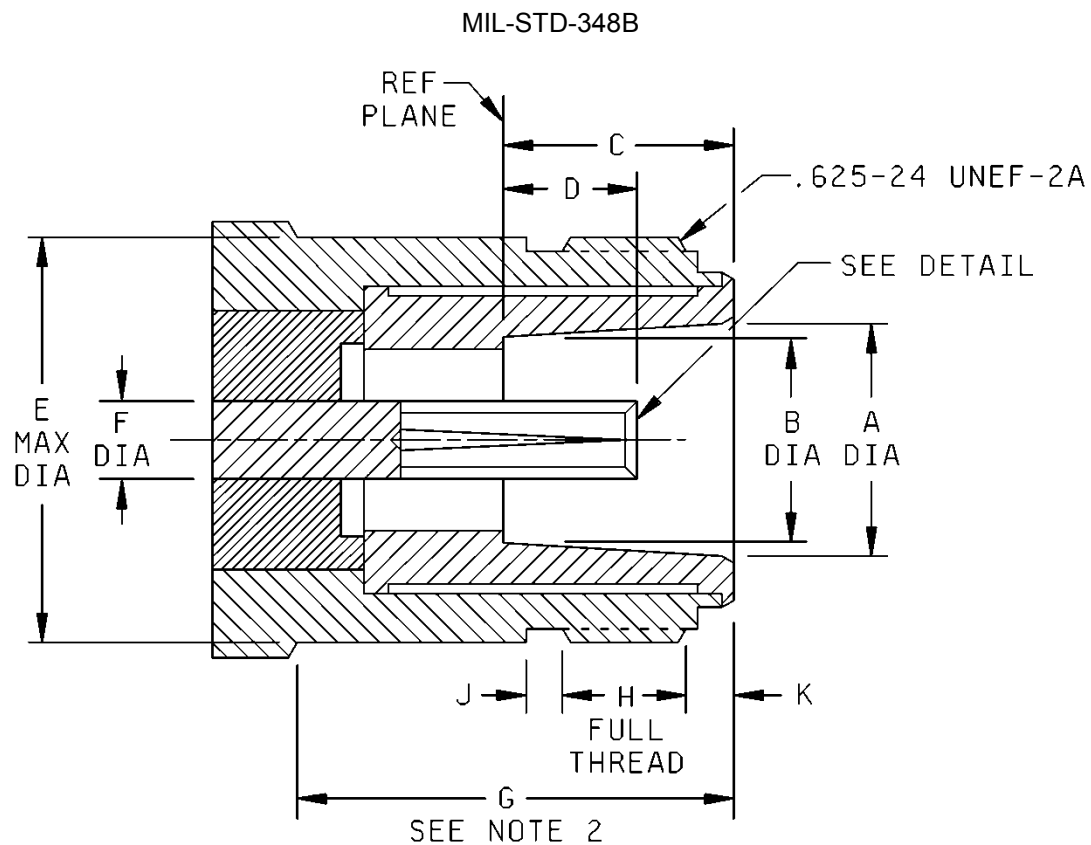


FIGURE 304-2. Interface, series N, socket contact.

## MIL-STD-348B

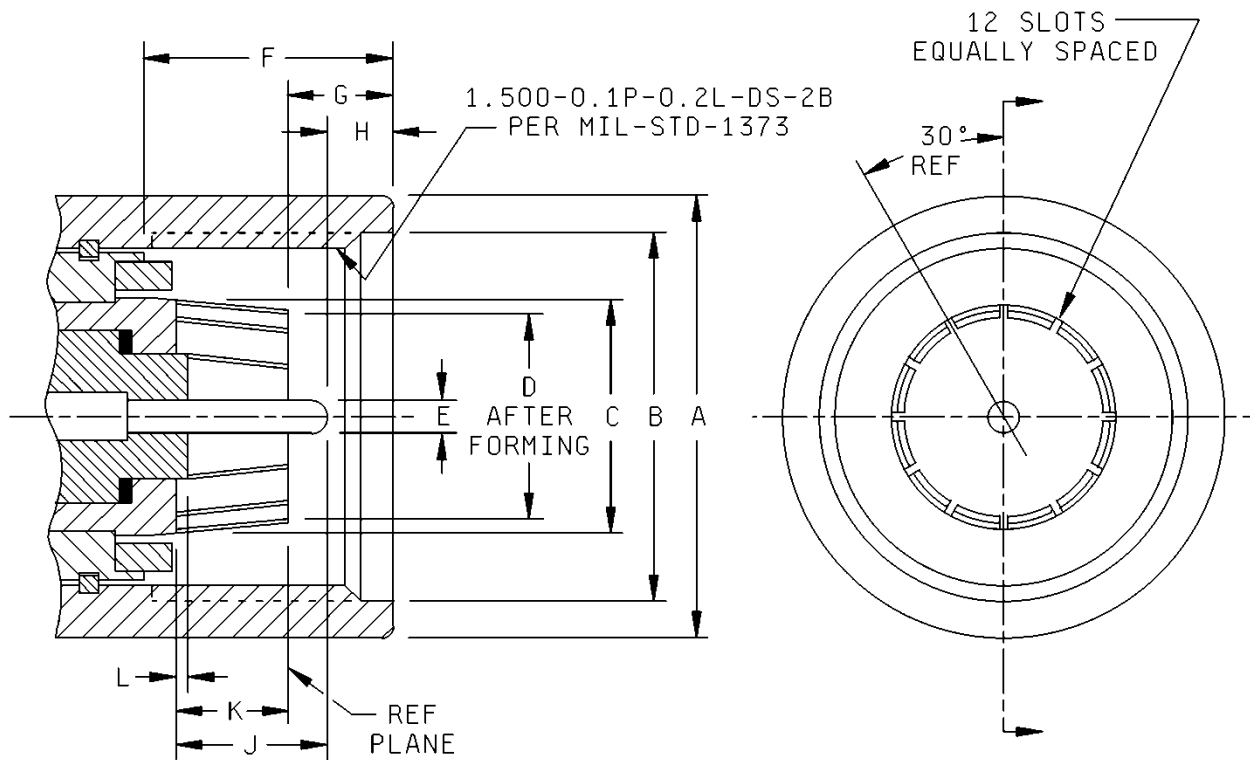
| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | .336 (8.53)  | .344 (8.74)  |
| B            | .316 (8.03)  | .320 (8.13)  |
| C            | .356 (9.04)  | .362 (9.19)  |
| D            | .187 (4.75)  | .207 (5.26)  |
| E            | -----        | .627 (15.93) |
| F            | .119 (3.02)  | .124 (3.15)  |
| G            | .422 (10.72) | -----        |
| H            | .172 (4.37)  | .220 (5.59)  |
| J            | .047 (1.19)  | .077 (1.96)  |
| K            | .047 (1.19)  | .077 (1.96)  |
| L            | .187 (4.75)  | .207 (5.26)  |
| N            | .210 (5.33)  | -----        |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/2.
2. Clearance for mating connector coupling nut.
3. To meet VSWR, mating characteristics, contact resistance and connector durability when mated with a .063/.066 diameter pin.

FIGURE 304-2. Interface, series N, socket contact - Continued.

## MIL-STD-348B



| Dim.<br>Ltr. | Inches (mm)   |               |
|--------------|---------------|---------------|
|              | Min.          | Max.          |
| A            | 1.740 (44.20) | 1.760 (44.70) |
| B            | 1.537 (39.04) | 1.543 (39.19) |
| C            | 1.060 (26.92) | 1.064 (27.03) |
| D            | .964 (24.49)  | .974 (24.74)  |
| E            | .194 (4.93)   | .196 (4.98)   |
| F            | .836 (21.23)  | .856 (21.74)  |
| G            | .372 (9.45)   | .392 (9.96)   |
| H            | .271 (6.88)   | .291 (7.39)   |
| J            | .551 (14.00)  | .571 (14.50)  |
| K            | .370 (9.40)   | .380 (9.65)   |
| L            | .001 (0.03)   | .013 (0.33)   |

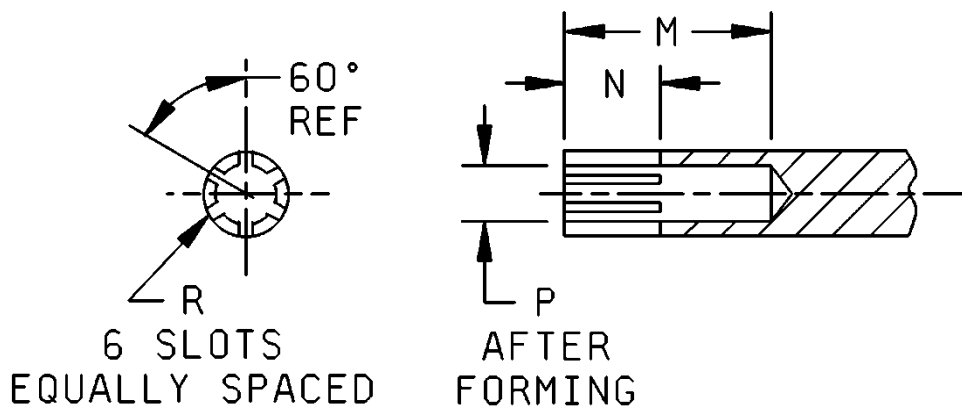
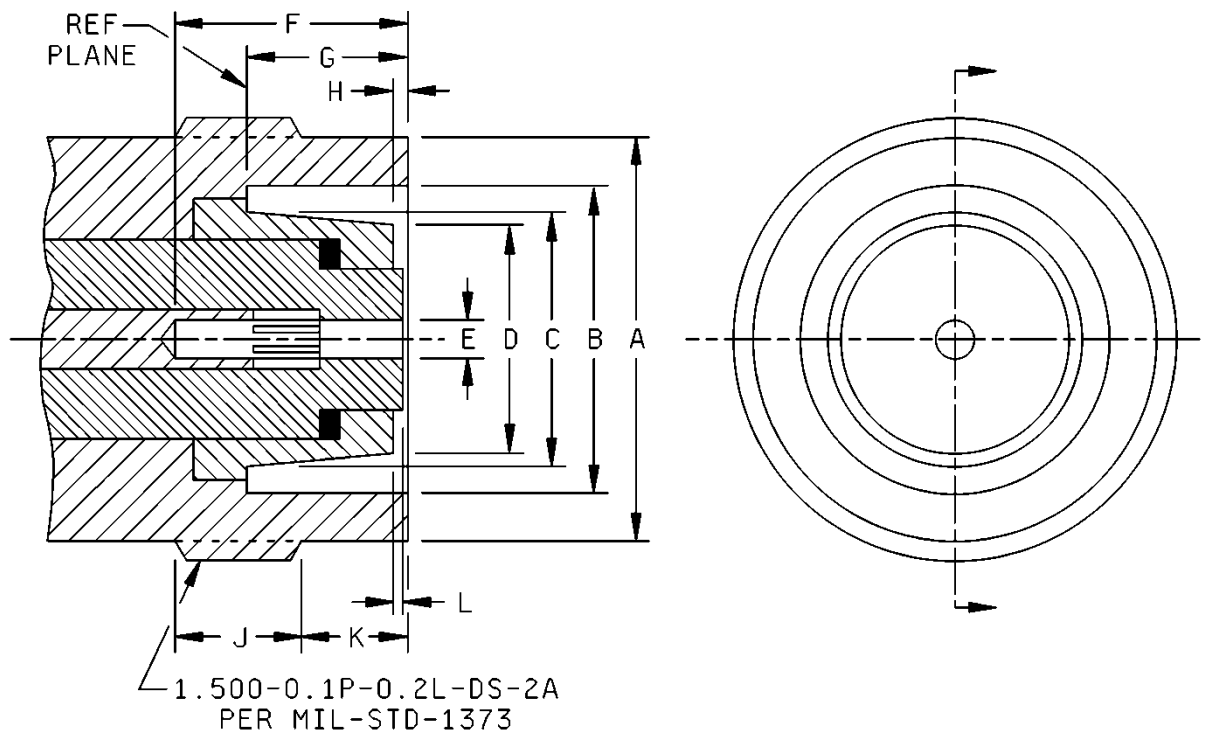
## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/44.

FIGURE 305-1. Interface, series QL, pin contact.



MIL-STD-348B



CENTER CONTACT DETAIL

FIGURE 305-2. Interface, series QL, socket contact.

## MIL-STD-348B

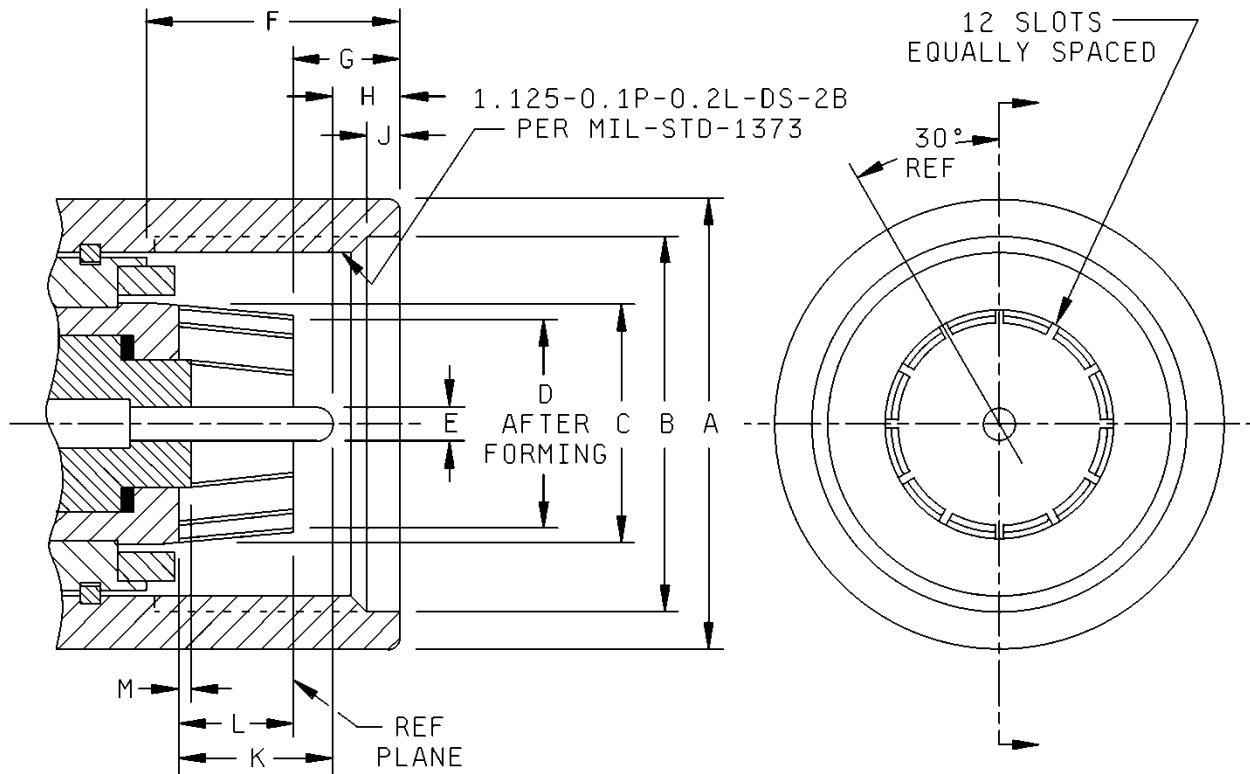
| Dim.<br>Ltr. | Inches (mm)           |               |
|--------------|-----------------------|---------------|
|              | Min.                  | Max.          |
| A            | 1.404 (35.66)         | 1.408 (35.76) |
| B            | 1.100 (27.94)         | 1.120 (28.45) |
| C            | 1.998 (50.75)         | 1.002 (25.45) |
| D            | .936 (23.77)          | .940 (23.88)  |
| E            | .191 (4.85)           | .195 (4.95)   |
| F            | .763 (19.38)          | .783 (19.89)  |
| G            | .465 (11.81)          | .485 (12.32)  |
| H            | .062 (1.57) Reference |               |
| J            | .302 (7.67)           | .322 (8.18)   |
| K            | .302 (7.67)           | .322 (8.18)   |
| L            | .001 (0.03)           | .013 (0.33)   |
| M            | .490 (12.45)          | .510 (12.95)  |
| N            | .240 (6.10)           | .260 (6.60)   |
| P            | .187 (4.75)           | .189 (4.80)   |
| R            | .014 (0.36)           | .018 (0.46)   |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/45.

FIGURE 305-2. Interface, series QL, socket contact - Continued.

## MIL-STD-348B



| Dim.<br>Ltr. | Inches (mm)   |               |
|--------------|---------------|---------------|
|              | Min.          | Max.          |
| A            | 1.365 (34.67) | 1.385 (35.18) |
| B            | 1.161 (29.49) | 1.167 (29.64) |
| C            | .701 (17.81)  | .705 (17.91)  |
| D            | .611 (15.52)  | .613 (15.57)  |
| E            | .105 (2.67)   | .107 (2.72)   |
| F            | .683 (17.35)  | .703 (17.86)  |
| G            | .258 (6.55)   | .278 (7.06)   |
| H            | .142 (3.61)   | .162 (4.11)   |
| J            | .147 (3.73)   | .167 (4.24)   |
| K            | .510 (12.95)  | .530 (13.46)  |
| L            | .339 (8.61)   | .349 (8.86)   |
| M            | .001 (0.03)   | .013 (0.33)   |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/48.

FIGURE 306-1. Interface, series QM, pin contact.

MIL-STD-348B

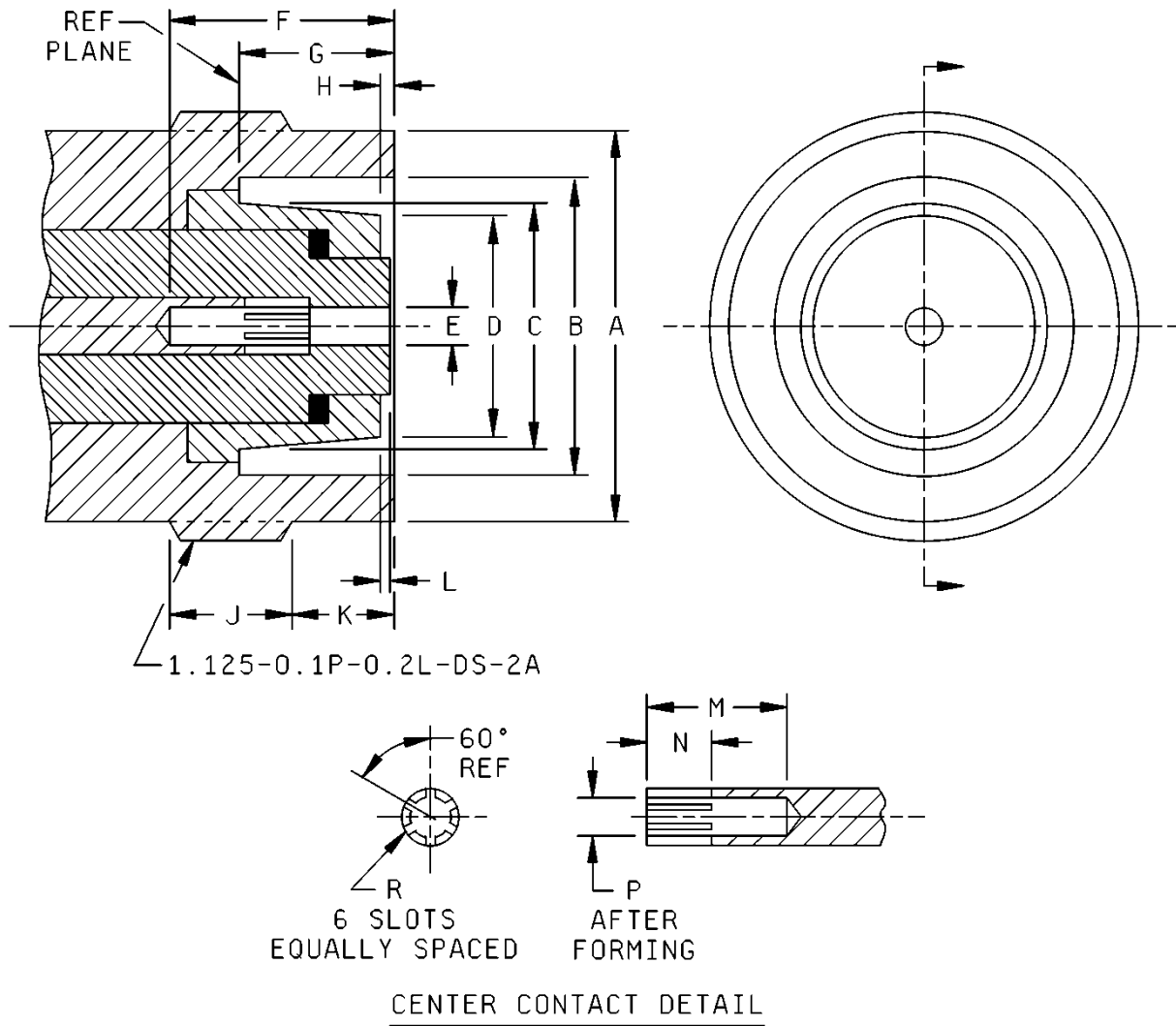


FIGURE 306-2. Interface, series QM, socket contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)   |               |
|--------------|---------------|---------------|
|              | Min.          | Max.          |
| A            | 1.029 (26.14) | 1.033 (26.24) |
| B            | .720 (18.29)  | .760 (19.30)  |
| C            | .639 (16.23)  | .643 (16.33)  |
| D            | .592 (15.04)  | .596 (15.14)  |
| E            | .100 (2.54)   | .104 (2.64)   |
| F            | .580 (14.73)  | .600 (15.24)  |
| G            | .411 (10.44)  | .431 (10.95)  |
| H            | .036 (0.91)   | .056 (1.42)   |
| J            | .302 (7.67)   | .322 (8.18)   |
| K            | .209 (5.31)   | .229 (5.82)   |
| L            | .001 (0.03)   | .013 (0.33)   |
| M            | .365 (9.27)   | .385 (9.78)   |
| N            | .165 (4.19)   | .185 (4.70)   |
| P            | .101 (2.57)   | .103 (2.62)   |
| R            | .008 (0.20)   | .012 (0.30)   |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/49.

FIGURE 306-2. Interface, series QM, socket contact - Continued.

MIL-STD-348B

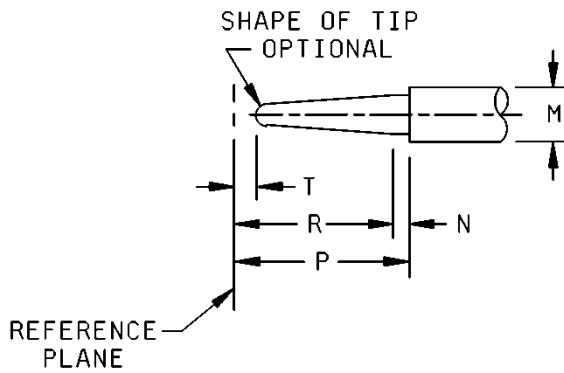
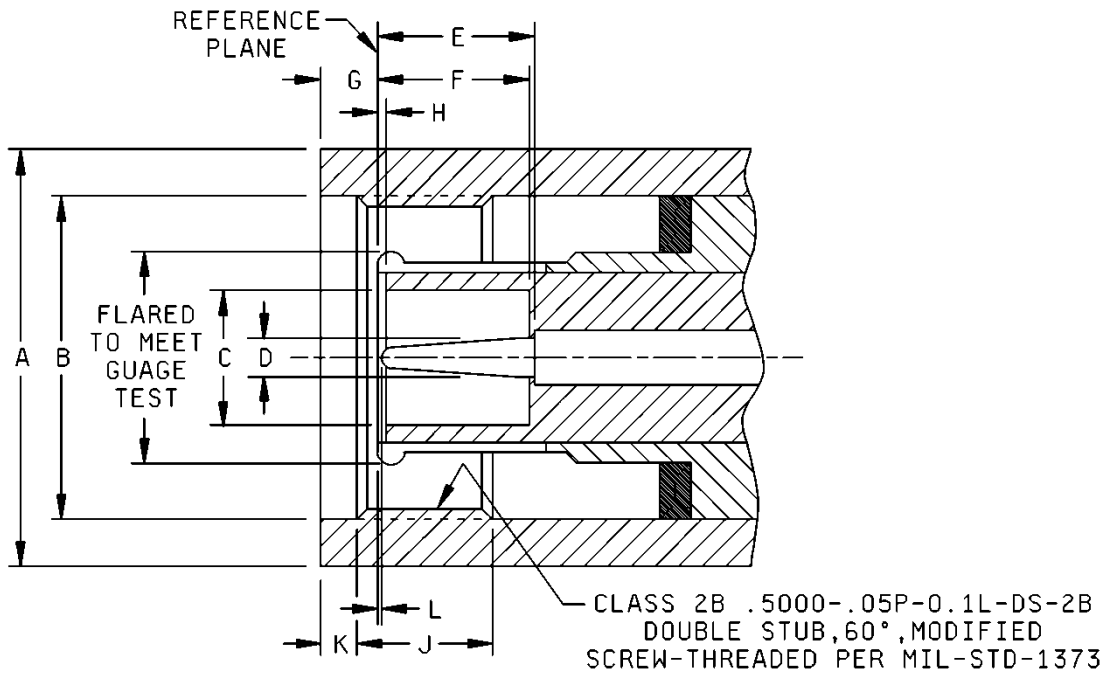


FIGURE 307-1. Interface, series QNC, pin contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | .640 (16.26) | .660 (16.76) |
| B            | .516 (13.11) | .519 (13.18) |
| C            | .190 (4.83)  | -----        |
| D            | .052 (1.32)  | .054 (1.37)  |
| E            | .210 (5.33)  | -----        |
| F            | .208 (5.28)  | -----        |
| G            | -----        | .140 (3.56)  |
| H            | .006 (0.15)  | -----        |
| J            | .271 (6.88)  | .291 (7.39)  |
| K            | .088 (2.24)  | .098 (2.49)  |
| L            | .003 (0.08)  | -----        |
| M            | .081 (2.06)  | .087 (2.21)  |
| N            | .003 (0.08)  | -----        |
| P            | .210 (5.33)  | -----        |
| R            | .120 (3.05)  | .155 (3.94)  |
| T            | .003 (0.08)  | -----        |

FIGURE 307-1. Interface, series QNC, pin contact - Continued.

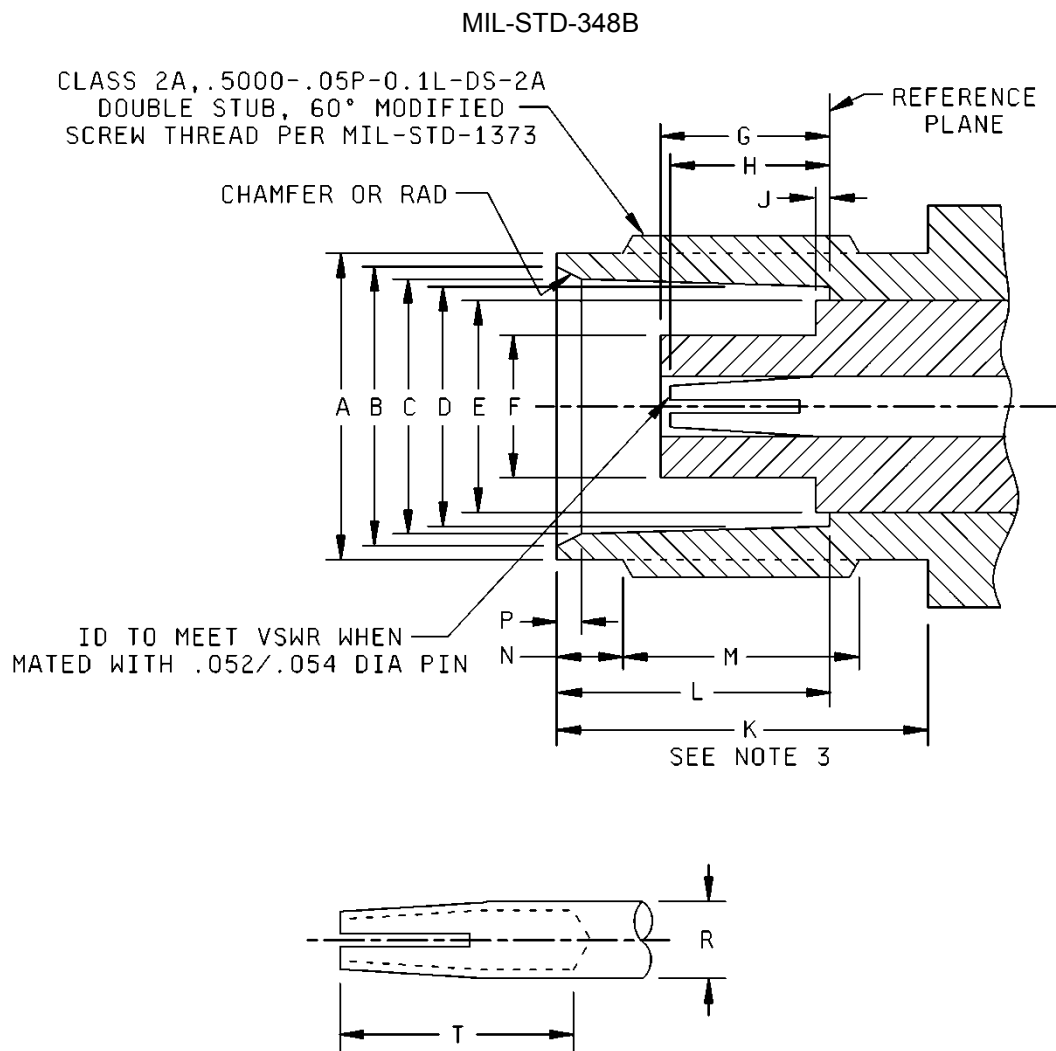


FIGURE 307-2. Interface, series QNC, socket contact.



## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | .446 (11.33) | .449 (11.40) |
| B            | .345 (8.76)  | .356 (9.04)  |
| C            | .327 (8.31)  | .333 (8.46)  |
| D            | .319 (8.10)  | .321 (8.15)  |
| E            | -----        | .256 (6.50)  |
| F            | -----        | .186 (4.72)  |
| G            | -----        | .208 (5.28)  |
| H            | -----        | .206 (5.23)  |
| J            | -----        | .006 (0.15)  |
| K            | -----        | .477 (12.12) |
| L            | .327 (8.31)  | .335 (8.51)  |
| M            | .271 (6.88)  | .291 (7.39)  |
| N            | .088 (2.24)  | .098 (2.49)  |
| P            | .015 (0.38)  | .030 (0.76)  |
| R            | .081 (2.06)  | .087 (2.21)  |
| T            | .195 (4.95)  | -----        |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/89.
2. The .256 dimension applies to that portion (if applicable) of the dielectric which protrudes beyond the metal shoulder (or reference plane) by dimension .006.
3. Clearance for mating connector coupling nut.

FIGURE 307-2. Interface, series QNC, socket contact - Continued.

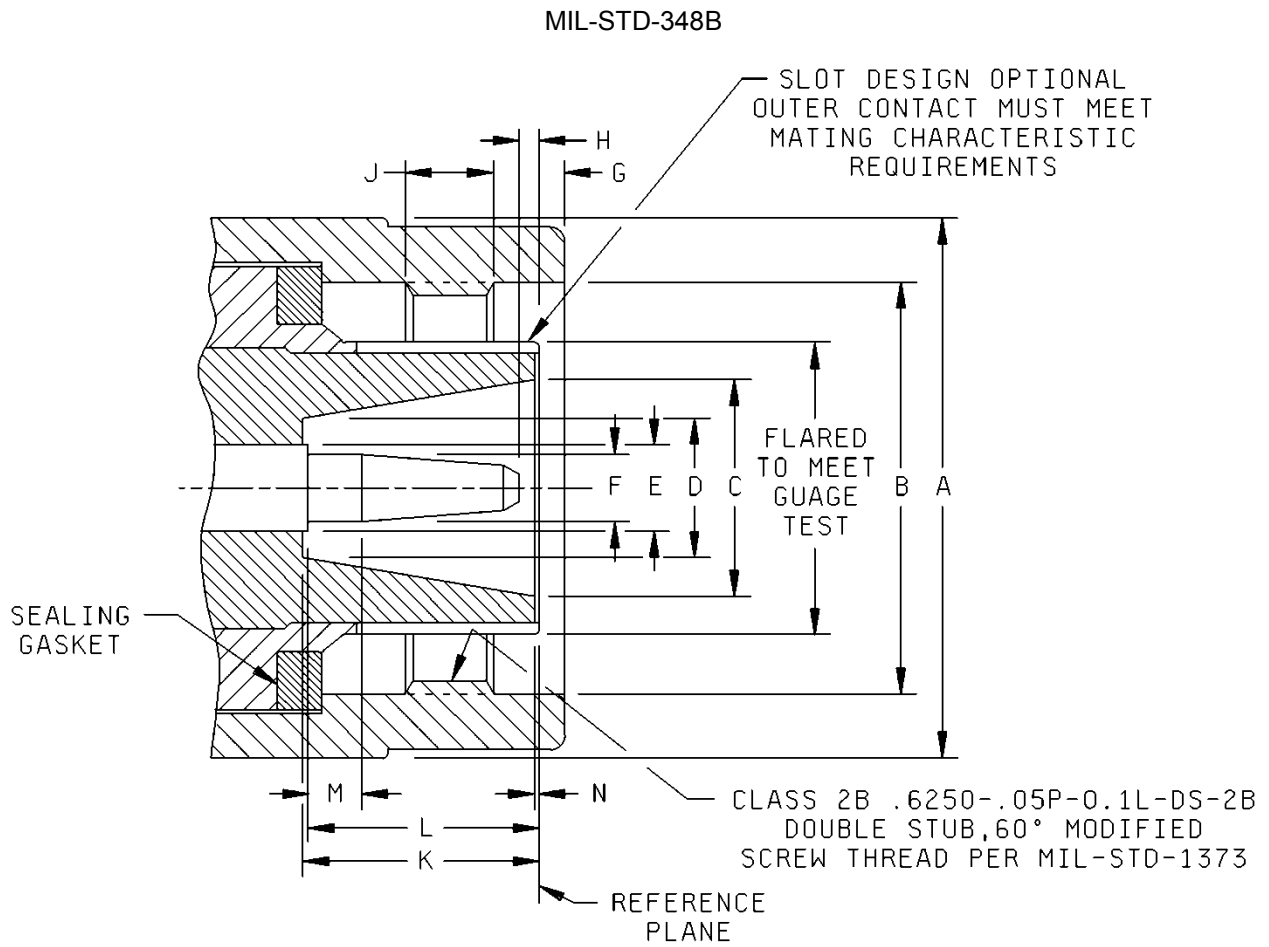


FIGURE 308-1. Interface, series QSC, pin contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | -----        | .781 (19.84) |
| B            | .642 (16.31) | .645 (16.38) |
| C            | .276 (7.01)  | -----        |
| D            | .194 (4.93)  | -----        |
| E            | .119 (3.02)  | .124 (3.15)  |
| F            | .090 (2.29)  | .092 (2.34)  |
| G            | .088 (2.24)  | .098 (2.49)  |
| H            | .003 (0.08)  | -----        |
| J            | .271 (6.88)  | .291 (7.39)  |
| K            | .309 (7.85)  | -----        |
| L            | .307 (7.80)  | .337 (8.56)  |
| M            | .093 (2.36)  | -----        |
| N            | .007 (0.18)  | -----        |

NOTE: This interface shall meet the gauge requirements as specified in MIL-PRF-39012/84.

FIGURE 308-1. Interface, series QSC, pin contact – Continued.

MIL-STD-348B

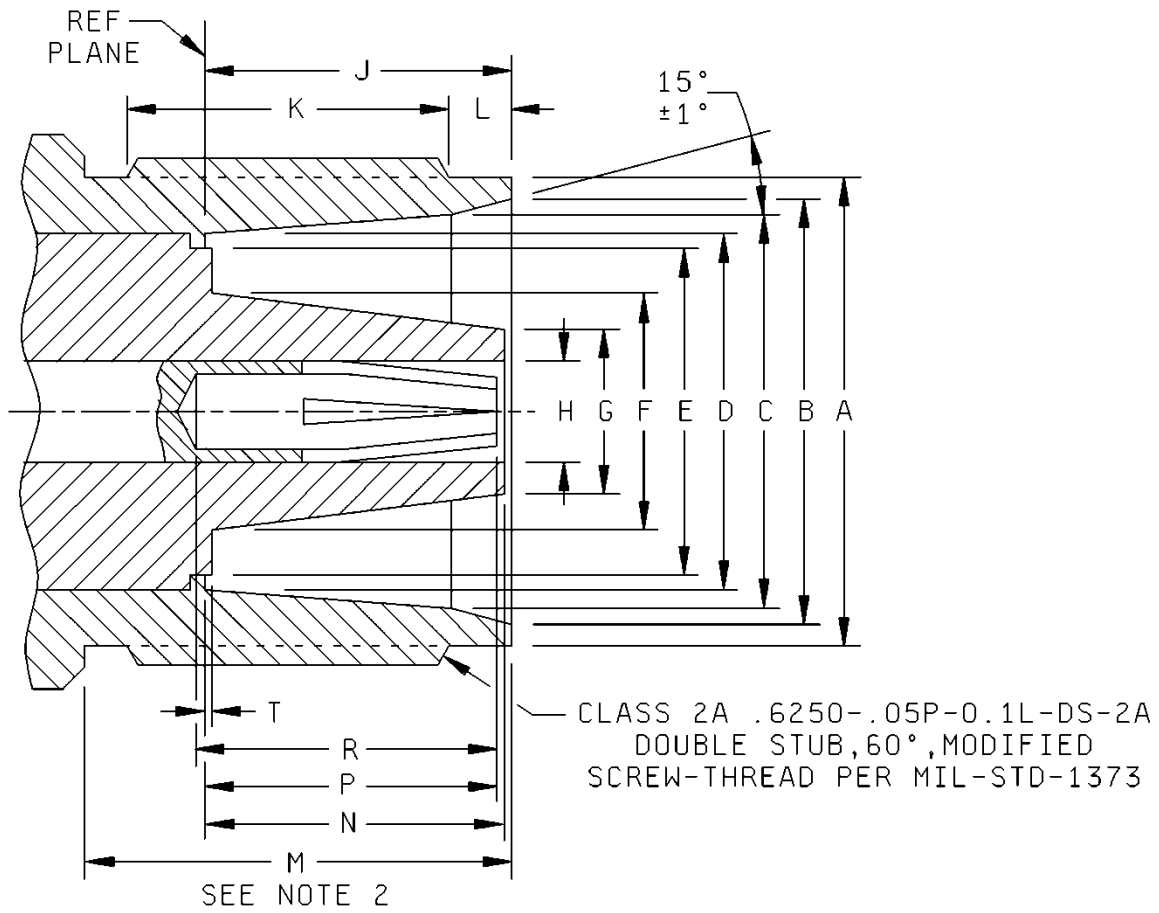


FIGURE 308-2. Interface, series QSC, socket contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | .571 (14.50) | .574 (14.58) |
| B            | .485 (12.32) | .495 (12.57) |
| C            | .440 (11.18) | .450 (11.43) |
| D            | .411 (10.44) | .416 (10.57) |
| E            | -----        | .374 (9.50)  |
| F            | -----        | .272 (6.91)  |
| G            | -----        | .190 (4.83)  |
| H            | .119 (3.02)  | .124 (3.15)  |
| J            | .332 (8.43)  | .338 (8.59)  |
| K            | .271 (6.88)  | .291 (7.39)  |
| L            | .088 (2.24)  | .098 (2.49)  |
| M            | .495 (12.57) | -----        |
| N            | -----        | .309 (7.85)  |
| P            | -----        | .303 (7.70)  |
| R            | -----        | .325 (8.26)  |
| T            | -----        | .007 (0.18)  |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/85.
2. Clearance for mating connector coupling nut.

FIGURE 308-2. Interface, series QSC, socket contact – Continued.

MIL-STD-348B

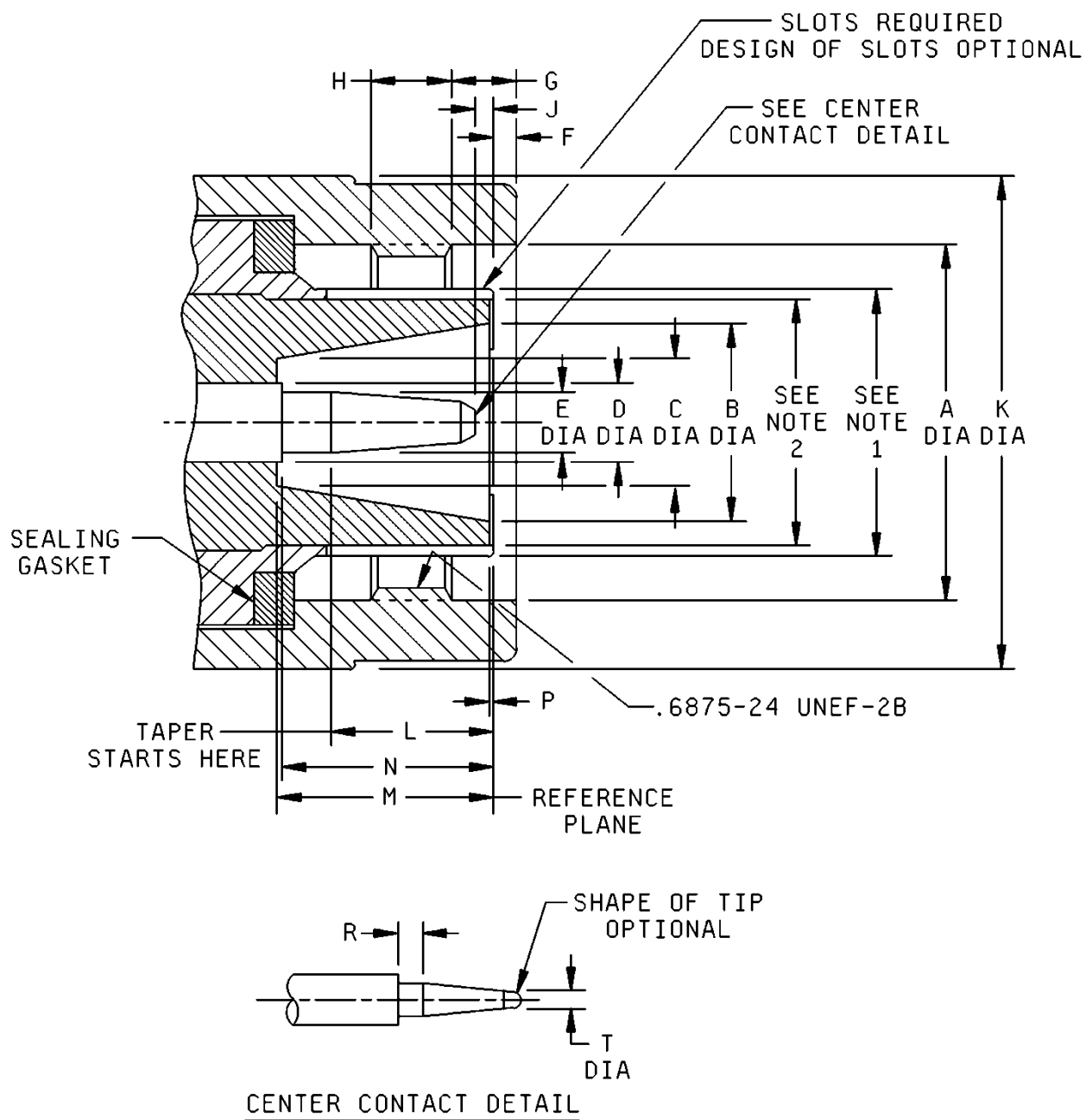


FIGURE 309-1. Interface, series SC, pin contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | .690 (14.99) | -----        |
| B            | .276 (7.01)  | -----        |
| C            | .194 (4.93)  | -----        |
| D            | .119 (3.02)  | .124 (3.15)  |
| E            | .090 (2.29)  | .092 (2.34)  |
| F            | .025 (.64)   | .085 (2.16)  |
| G            | .213 (5.41)  | .223 (5.66)  |
| H            | .250 (6.35)  | -----        |
| J            | .003 (0.08)  | .040 (1.02)  |
| K            | -----        | .828 (21.03) |
| L            | .191 (4.85)  | .251 (6.38)  |
| M            | .309 (7.85)  | -----        |
| N            | .307 (7.80)  | .337 (8.56)  |
| P            | .007 (0.18)  | -----        |
| R            | .093 (2.36)  | -----        |
| T            | -----        | .050 (1.27)  |

## NOTES:

1. This interface shall be flared to meet gauge requirements as specified in MIL-PRF-39012.
2. The ID of outer contact when inserted into a .411 inch (10.44 mm) maximum ring gauge shall be .377 inch (9.58 mm) minimum.

FIGURE 309-1. Interface, series SC, pin contact - Continued.

MIL-STD-348B

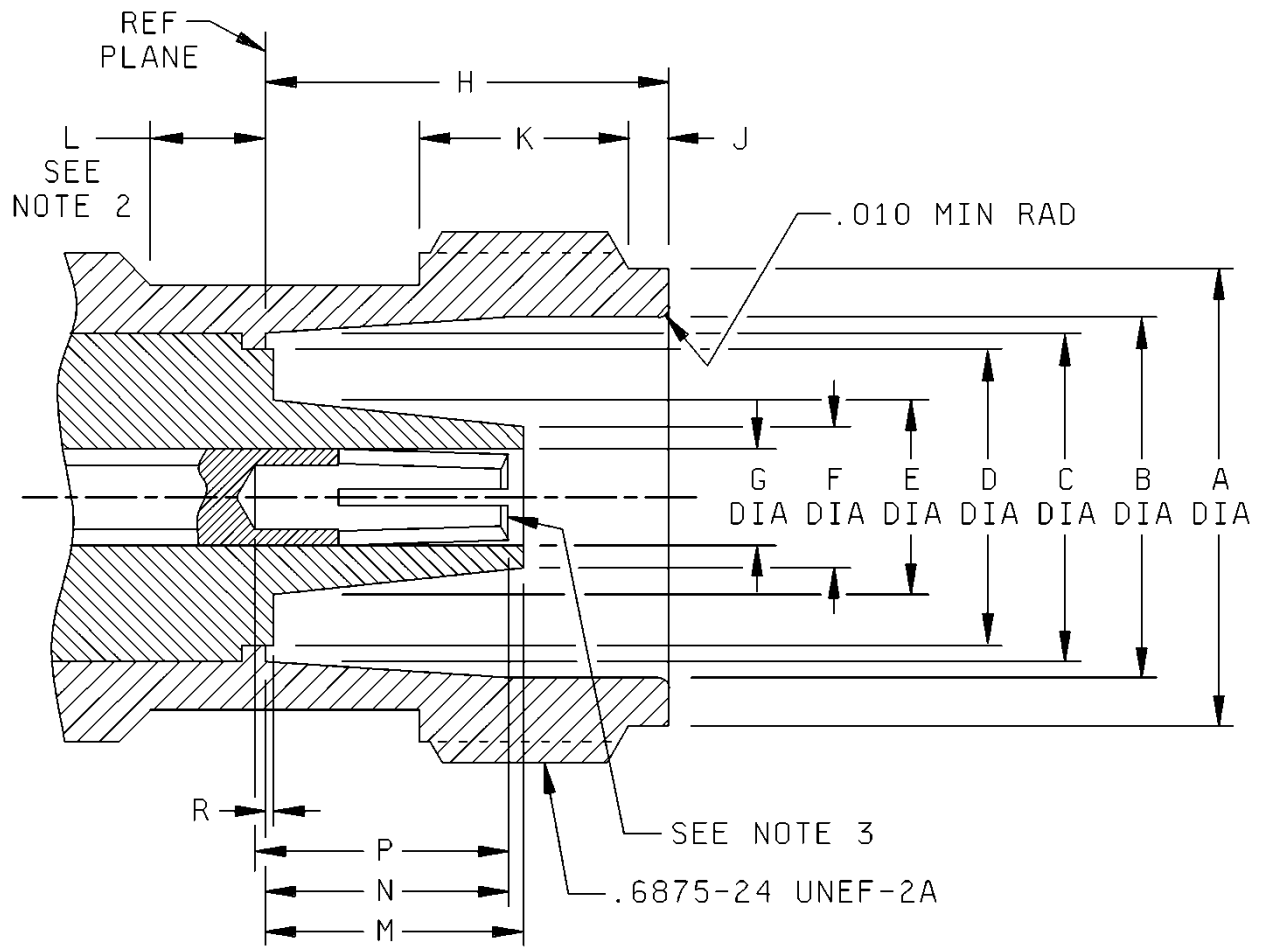


FIGURE 309-2. Interface, series SC, socket contact.



## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | -----        | .630 (16.00) |
| B            | .482 (12.24) | .498 (12.65) |
| C            | .411 (10.44) | .415 (10.54) |
| D            | -----        | .374 (9.50)  |
| E            | -----        | .272 (6.91)  |
| F            | -----        | .190 (4.83)  |
| G            | .119 (3.02)  | .124 (3.15)  |
| H            | .491 (12.47) | .495 (12.57) |
| J            | .047 (1.19)  | .077 (1.96)  |
| K            | .250 (6.35)  | -----        |
| L            | .140 (3.56)  | -----        |
| M            | -----        | .309 (7.85)  |
| N            | .273 (6.93)  | .303 (7.70)  |
| P            | .300 (7.62)  | -----        |
| R            | -----        | .007 (0.18)  |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/40.
2. Clearance for mating connector coupling nut.
3. Interface shall meet the mechanical and electrical performance requirements when mated with a .090 (2.29 mm)/.092 (2.34 mm) male pin.

FIGURE 309-2. Interface, series SC, socket contact – Continued.

MIL-STD-348B

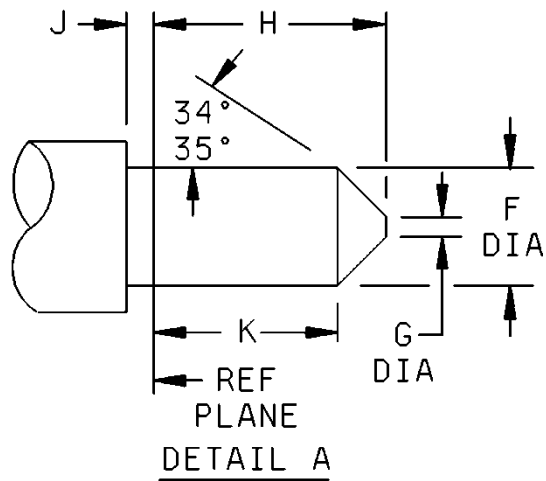
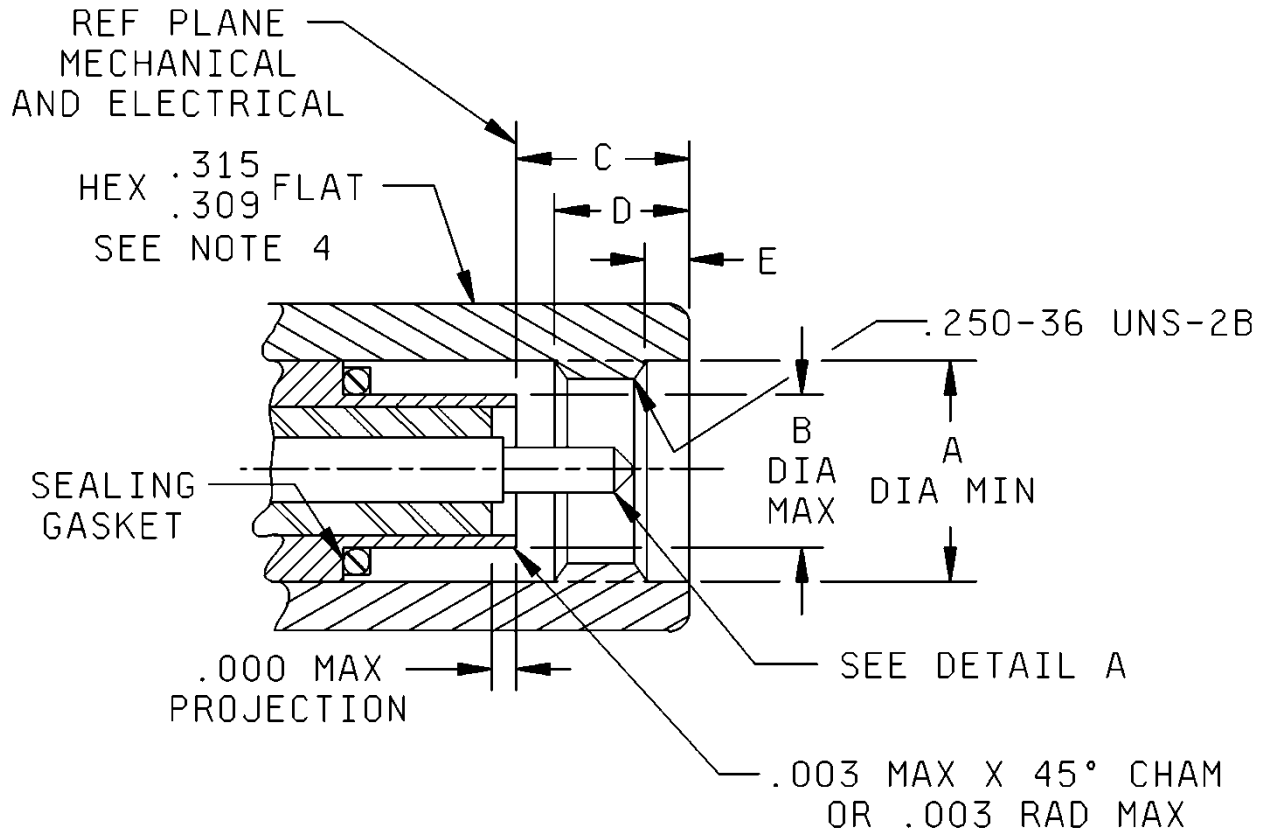


FIGURE 310-1. Interface, series SMA, pin contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | .255 (6.48)  | -----        |
| B            | -----        | .1808 (4.59) |
| C            | -----        | .135 (3.43)  |
| D            | .130 (3.30)  | -----        |
| E            | .015 (0.38)  | .045 (1.14)  |
| F            | .0355 (0.90) | .0370 (0.94) |
| G            | -----        | .012 (0.30)  |
| H            | -----        | .100 (2.54)  |
| J            | .000 (0.00)  | -----        |
| K            | .050 (1.27)  | -----        |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Connector interfaces (after mating) shall be kept free from dust and moisture.
4. May extend throughout the full length of the coupling nut.

FIGURE 310-1. Interface, series SMA, pin contact - Continued.

MIL-STD-348B

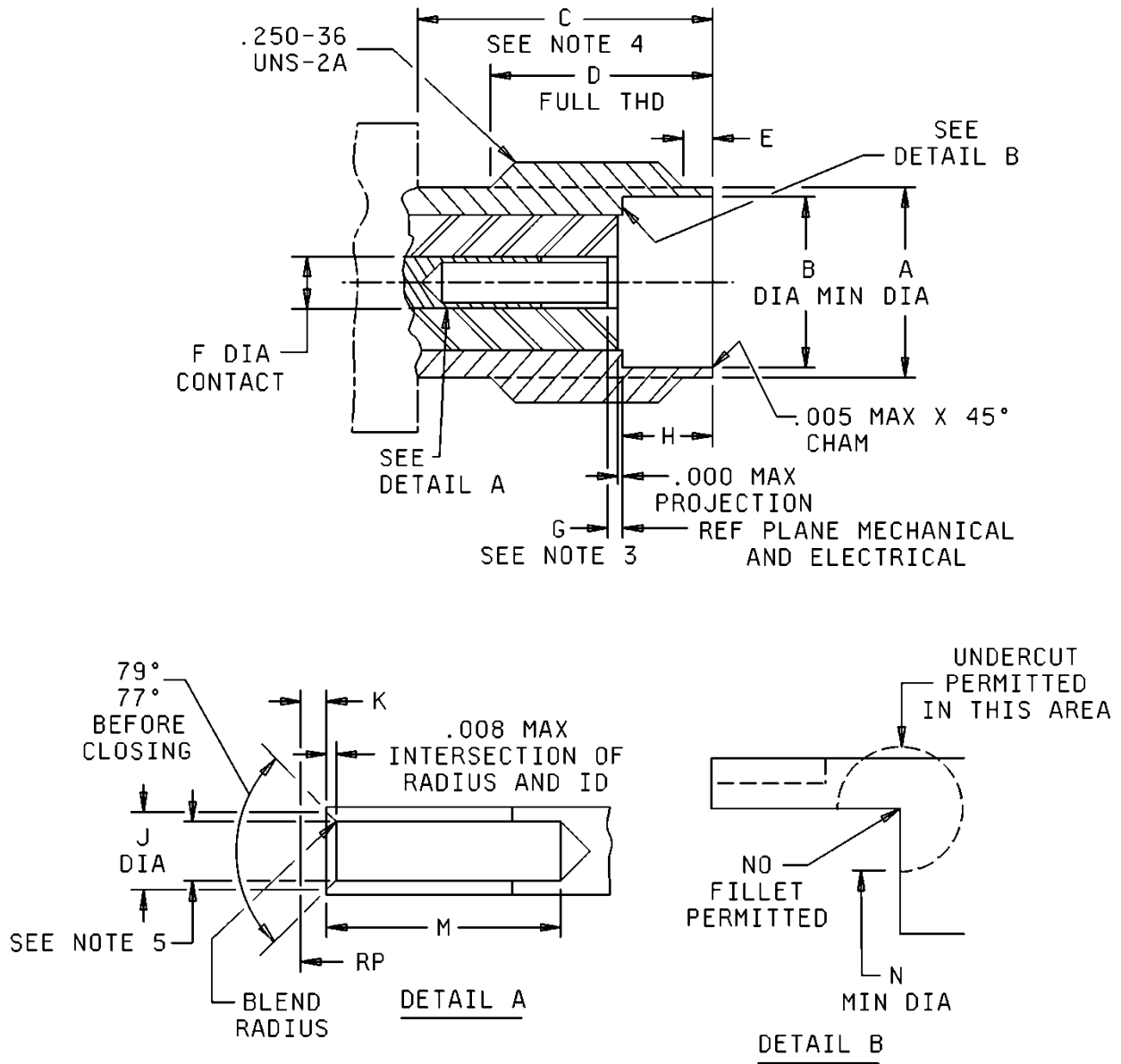


FIGURE 310-2. Interface, series SMA, socket contact.

## MIL-STD-348B

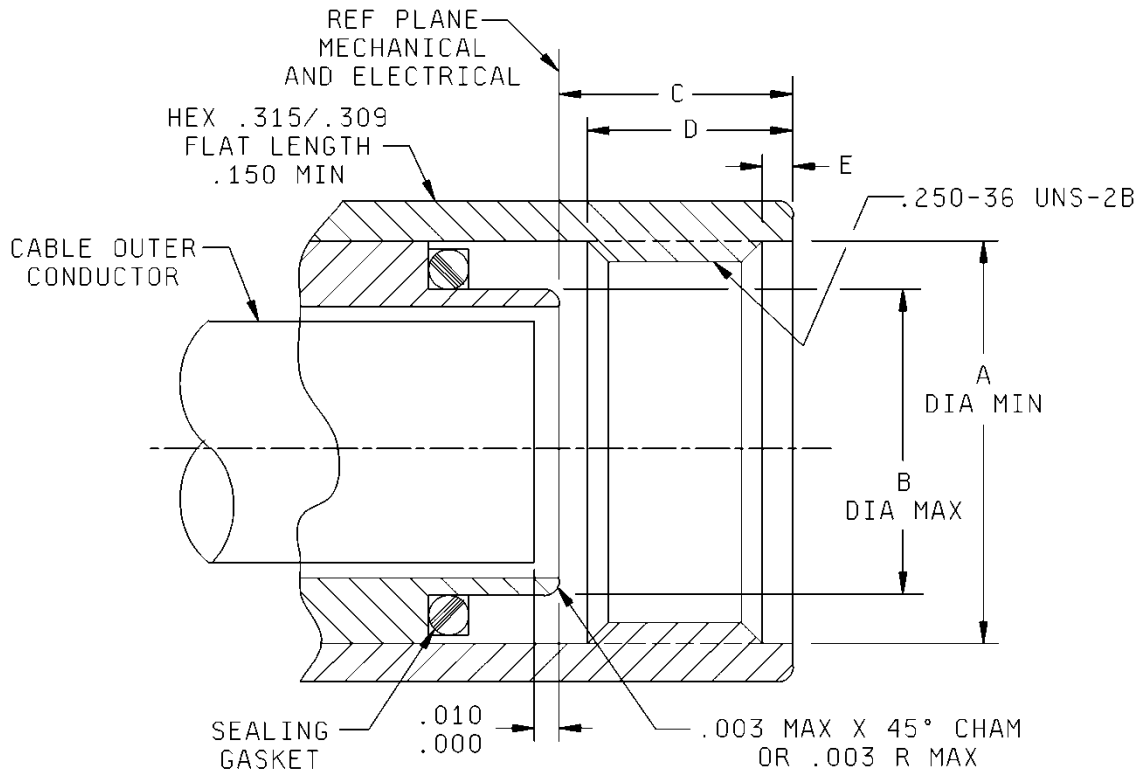
| Dim.<br>Ltr. | Inches (mm)  |             |
|--------------|--------------|-------------|
|              | Min.         | Max.        |
| A            | .208 (5.28)  | .216 (5.49) |
| B            | .1810 (4.60) | -----       |
| C            | .218 (5.54)  | -----       |
| D            | .170 (4.32)  | -----       |
| E            | .015 (0.38)  | .045 (1.14) |
| F            | .049 (1.24)  | .051 (1.30) |
| G            | .000 (0.00)  | .010 (0.25) |
| H            | .074 (1.88)  | .078 (1.98) |
| J            | .043 (1.09)  | .047 (1.19) |
| K            | .000 (0.00)  | .010 (0.25) |
| M            | .105 (2.67)  | -----       |
| N            | .168 (4.27)  | -----       |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are for information only.
3. Previously qualified parts using a .030 inch (0.76) maximum contact recession are not acceptable for Government use. Caution should be exercised to determine whether a .030 recession design is being used during maintenance and part replacement.
4. Clearance for mating connector coupling nut.
5. Dimension to meet VSWR, mating characteristics, and connector durability when mated with a  $+.0355/-0.0370$  inch diameter pin.

FIGURE 310-2. Interface, series SMA, socket contact - Continued.

## MIL-STD-348B



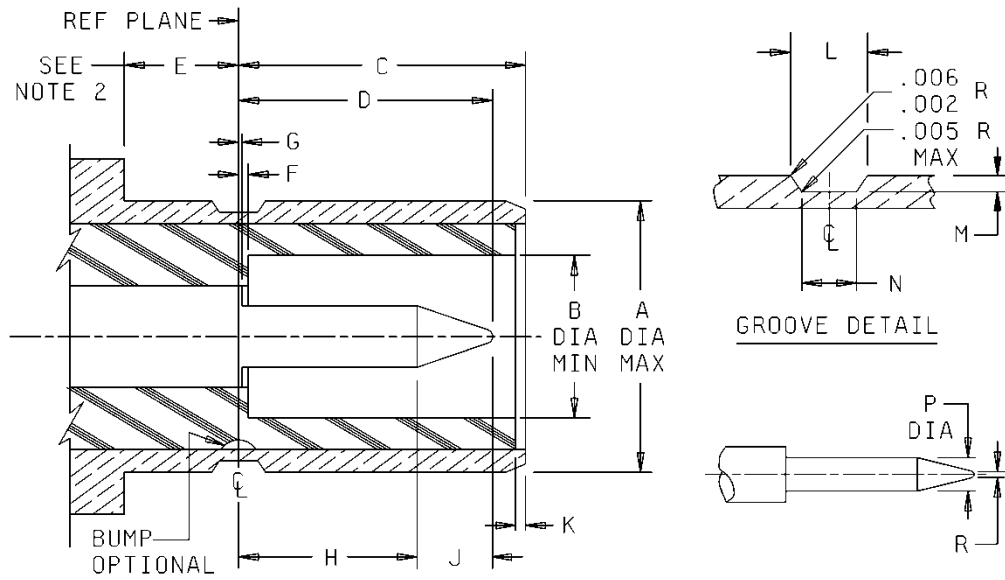
| Dim.<br>Ltr. | Inches (mm) |              |
|--------------|-------------|--------------|
|              | Min.        | Max.         |
| A            | .255 (6.48) | -----        |
| B            | -----       | .1808 (4.59) |
| C            | -----       | .135 (3.43)  |
| D            | .130 (3.30) | -----        |
| E            | .015 (0.38) | .045 (1.14)  |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Reference MIL-PRF-39012/92 for cable stripping dimensions.

FIGURE 310-3. Interface, series SMA, no contact.

## MIL-STD-348B



| Dim.<br>Ltr. | Inches (mm) |             |
|--------------|-------------|-------------|
|              | Min.        | Max.        |
| A            | -----       | .146 (3.71) |
| B            | .082 (2.08) | -----       |
| C            | .131 (3.33) | .141 (3.58) |
| D            | .094 (2.39) | .117 (2.97) |
| E            | .065 (1.65) | -----       |
| F            | -----       | .007 (0.18) |
| G            | -----       | .007 (0.18) |
| H            | .052 (1.32) | -----       |
| J            | .010 (0.25) | -----       |
| K            | .000 (0.00) | -----       |
| L            | .027 (0.69) | .037 (0.94) |
| M            | .006 (0.15) | .010 (0.25) |
| N            | .011 (0.28) | .015 (0.38) |
| P            | .019 (0.48) | .021 (0.53) |
| R            | -----       | .010 (0.25) |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/68.
2. Clearance for mating connector coupling nut.

FIGURE 311-1. Interface, series SMB, pin contact.

MIL-STD-348B

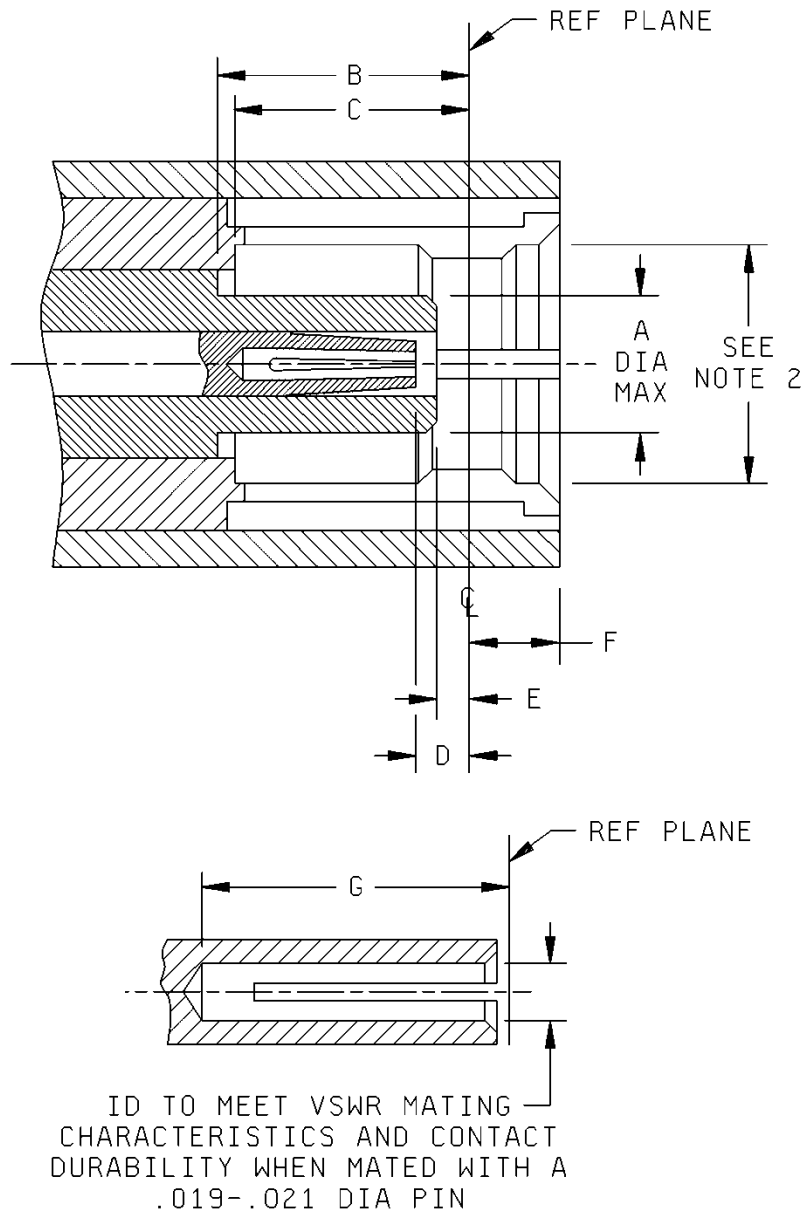


FIGURE 311-2. Interface, series SMB, socket contact.



## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm) |             |
|--------------|-------------|-------------|
|              | Min.        | Max.        |
| A            | -----       | .081 (2.06) |
| B            | .141 (3.58) | -----       |
| C            | .141 (3.58) | -----       |
| D            | .007 (0.18) | .037 (0.94) |
| E            | .007 (0.18) | -----       |
| F            | -----       | .064 (1.63) |
| G            | .117 (2.97) | -----       |

## NOTES:

1. Method of slotting of inner contact optional.
2. Must meet the longitudinal force requirements of force to engage and disengage when mated with its mating gauge.
3. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/67.

FIGURE 311-2. Interface, series SMB, socket contact - Continued.

MIL-STD-348B

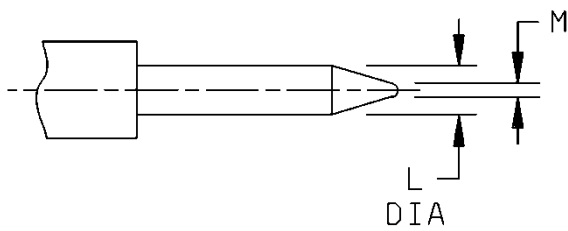
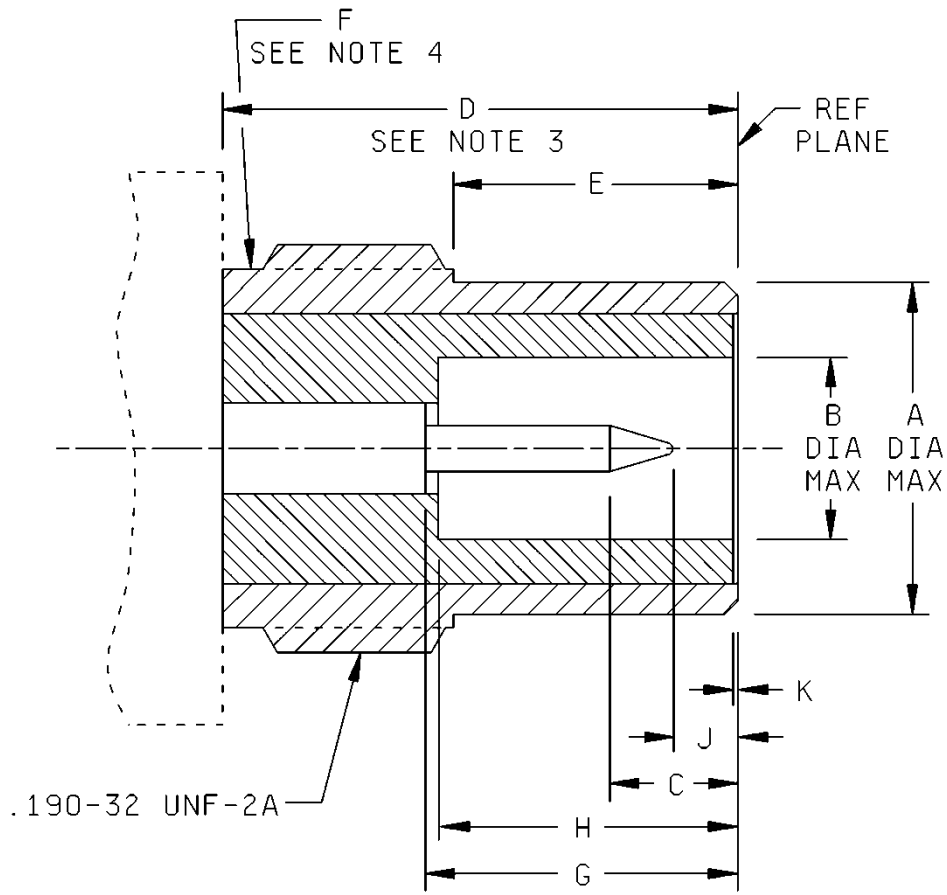


FIGURE 312-1. Interface, series SMC, pin contact.

## MIL-STD-348B

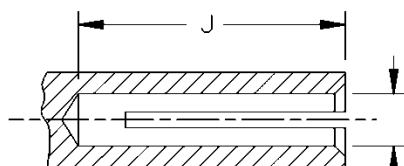
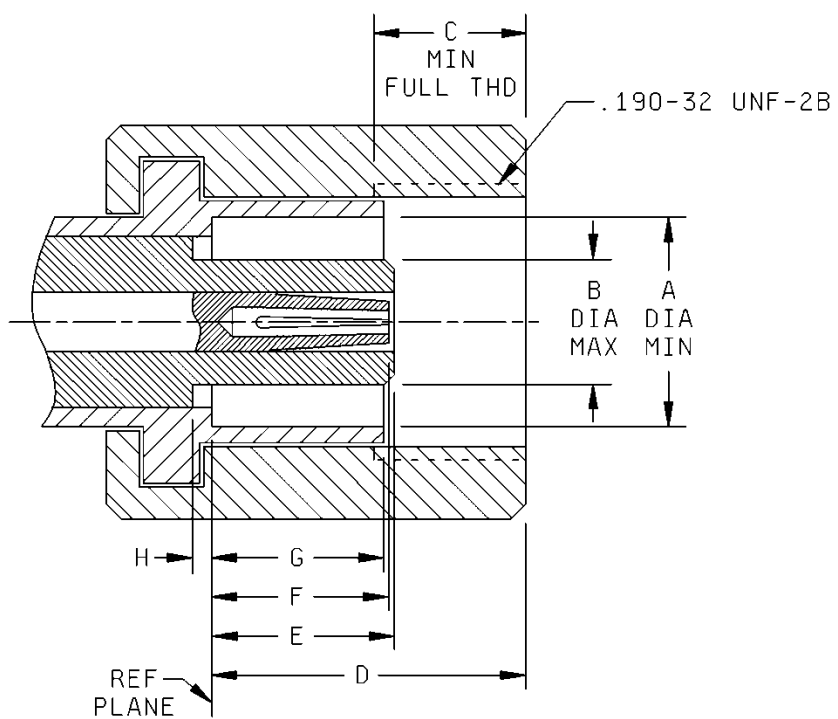
| Dim.<br>Ltr. | Inches (mm) |             |
|--------------|-------------|-------------|
|              | Min.        | Max.        |
| A            | -----       | .146 (3.71) |
| B            | .082 (2.08) | -----       |
| C            | -----       | .084 (2.13) |
| D            | .234 (5.94) | -----       |
| E            | .123 (3.12) | .133 (3.38) |
| F            | -----       | .040 (1.02) |
| G            | .134 (3.40) | -----       |
| H            | .134 (3.40) | -----       |
| J            | .024 (0.61) | -----       |
| K            | .000 (0.00) | -----       |
| L            | .019 (0.48) | .021 (0.53) |
| M            | -----       | .010 (0.25) |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/74.
2. Thread gauge must go .234 inch minimum from reference plane.
3. Clearance for mating connector coupling nut.
4. With undercut to root diameter.

FIGURE 312-1. Interface, series SMC, pin contact – Continued.

MIL-STD-348B



ID TO MEET VSWR MATING CHARACTERISTICS AND CONTACT DURABILITY WHEN MATED WITH A .019-.021 DIA PIN

FIGURE 312-2. Interface, series SMC, socket contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm) |             |
|--------------|-------------|-------------|
|              | Min.        | Max.        |
| A            | .147 (3.73) | -----       |
| B            | -----       | .081 (2.06) |
| C            | .110 (2.79) | -----       |
| D            | -----       | .233 (5.92) |
| E            | -----       | .134 (3.40) |
| F            | -----       | .134 (3.40) |
| G            | -----       | .122 (3.10) |
| H            | .000 (0.00) | -----       |
| J            | .110 (2.79) | -----       |

## NOTES:

1. Method of slotting of inner contact optional.
2. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/73.

FIGURE 312-2. Interface, series SMC, socket contact – Continued.

MIL-STD-348B

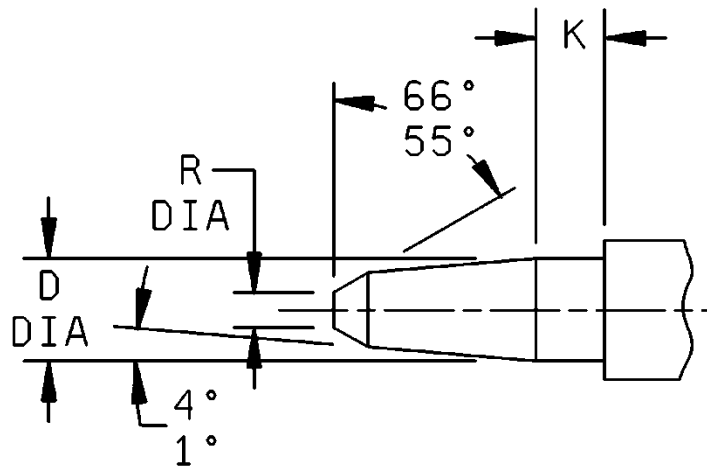
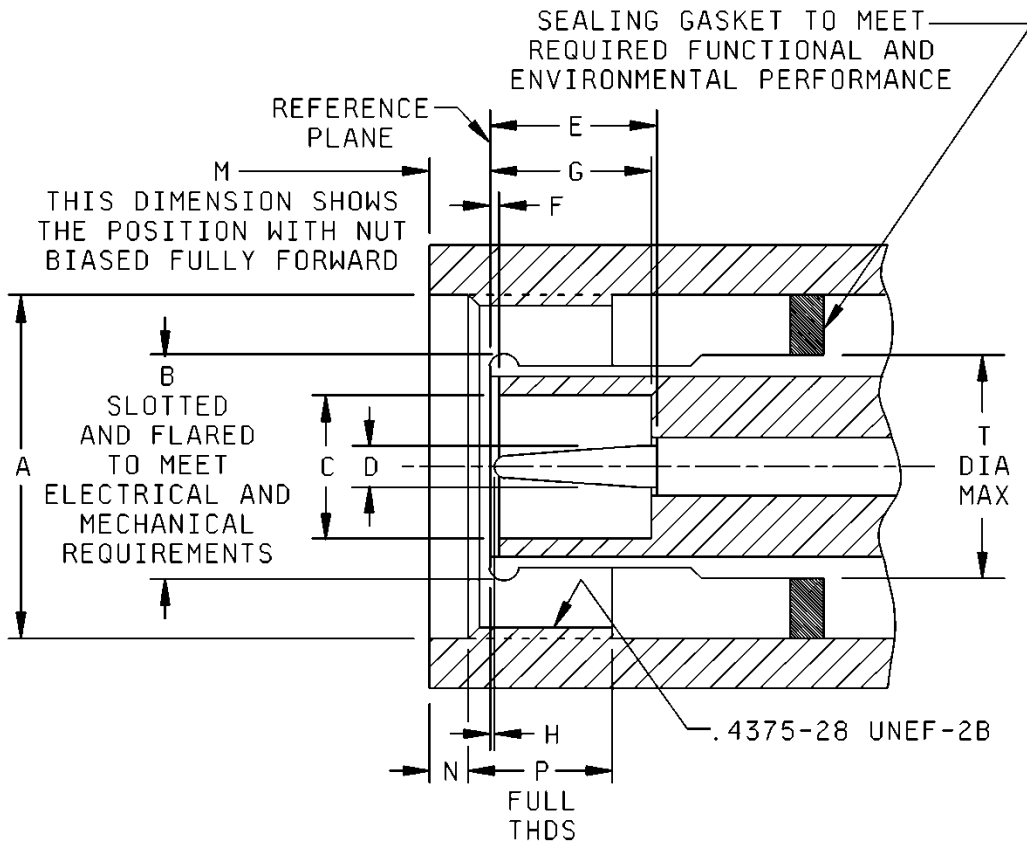


FIGURE 313-1. Interface, series TNC, pin contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |             |
|--------------|--------------|-------------|
|              | Min.         | Max.        |
| A            | .440 (11.18) | -----       |
| B            | Gauge test   |             |
| C            | .190 (4.83)  | -----       |
| D            | .052 (1.32)  | .054 (1.37) |
| E            | .210 (5.33)  | .230 (5.84) |
| F            | .006 (0.15)  | -----       |
| G            | .208 (5.28)  | .228 (5.79) |
| H            | .003 (0.08)  | .040 (1.02) |
| K            | .078 (1.98)  | -----       |
| M            | -----        | .078 (1.98) |
| N            | .063 (1.60)  | -----       |
| P            | .156 (3.96)  | -----       |
| R            | -----        | .025 (0.64) |
| T            | -----        | .322 (8.18) |

## NOTE:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/26.

FIGURE 313-1. Interface, series TNC, pin contact – Continued.

MIL-STD-348B

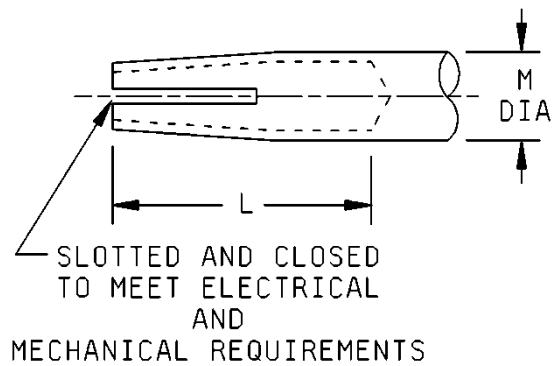
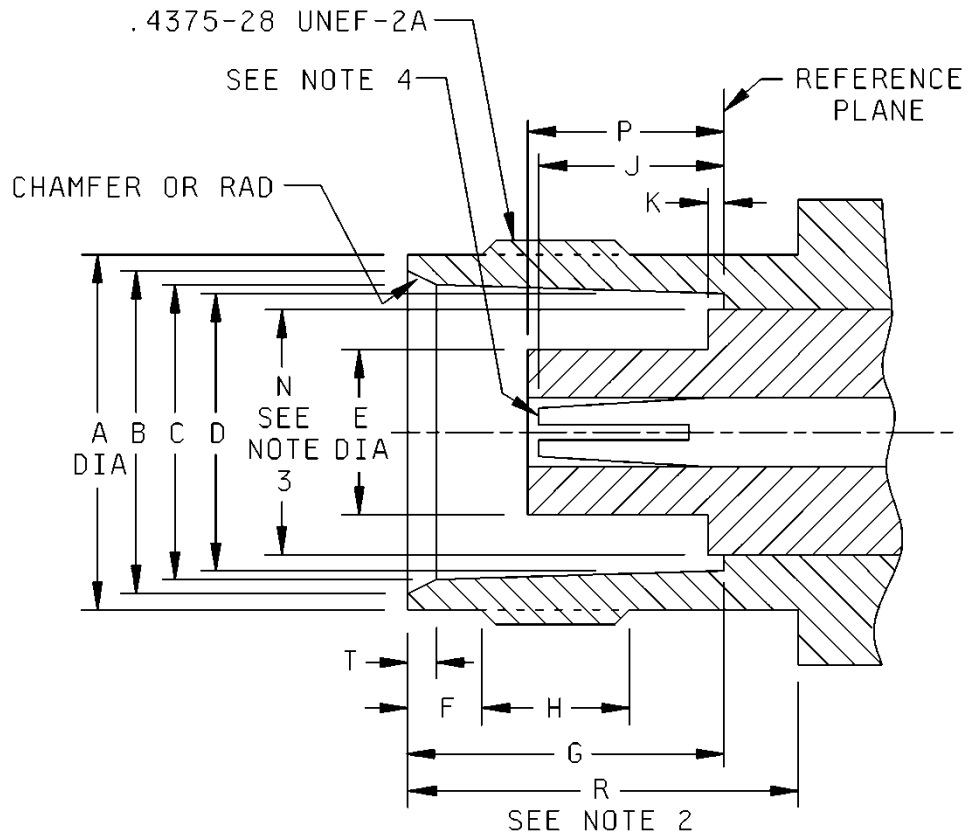


FIGURE 313-2. Interface, series TNC, socket contact.



## MIL-STD-348B

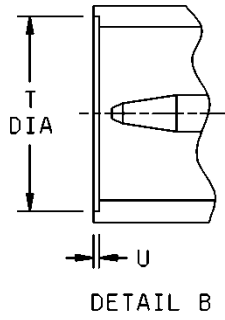
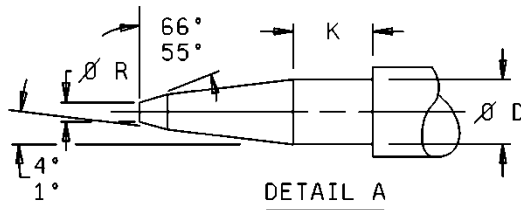
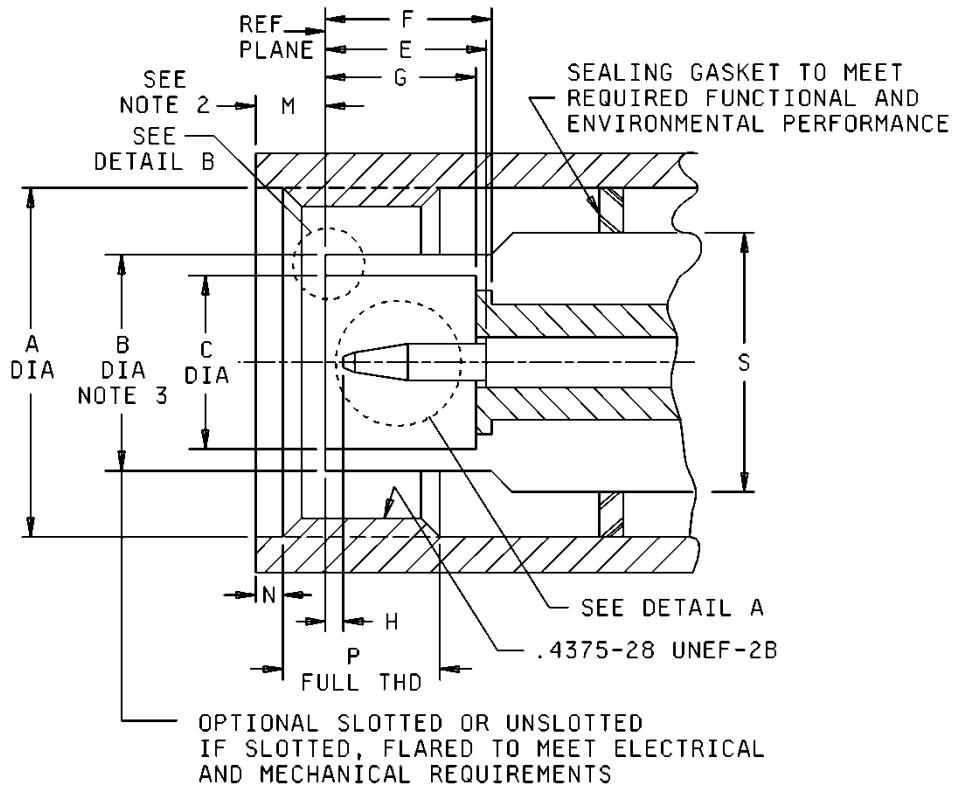
| Dim.<br>Ltr. | Inches (mm)  |             |
|--------------|--------------|-------------|
|              | Min.         | Max.        |
| A            | .378 (9.60)  | .381 (9.68) |
| B            | .346 (8.79)  | .356 (9.04) |
| C            | .327 (8.31)  | .333 (8.46) |
| D            | .319 (8.10)  | .321 (8.15) |
| E            | -----        | .186 (4.72) |
| F            | .068 (1.73)  | .088 (2.24) |
| G            | .327 (8.31)  | .335 (8.51) |
| H            | .187 (4.75)  | -----       |
| J            | .186 (4.72)  | .206 (5.23) |
| K            | -----        | .006 (0.15) |
| L            | .195 (4.95)  | -----       |
| M            | .081 (2.06)  | .087 (2.21) |
| N            | -----        | .256 (6.50) |
| P            | .188 (4.78)  | .208 (5.28) |
| R            | .414 (10.52) | -----       |
| T            | .015 (0.38)  | .030 (0.76) |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/28.
2. Clearance for mating connector coupling nut.
3. Dimension applies to that portion (if applicable) of the dielectric which protrudes beyond the metal shoulder (or reference plane) by dimension K.
4. ID to meet VSWR when mated with .052 inch (1.32 mm)/.054 (1.37 mm) diameter pin.

FIGURE 313-2. Interface, series TNC, socket contact – Continued.

MIL-STD-348B



OPTIONAL UNSLOTTED  
WITH COUNTERBORE

FIGURE 313-3. Interface, series TNCA, pin contact, air interface.

## MIL-STD-348B

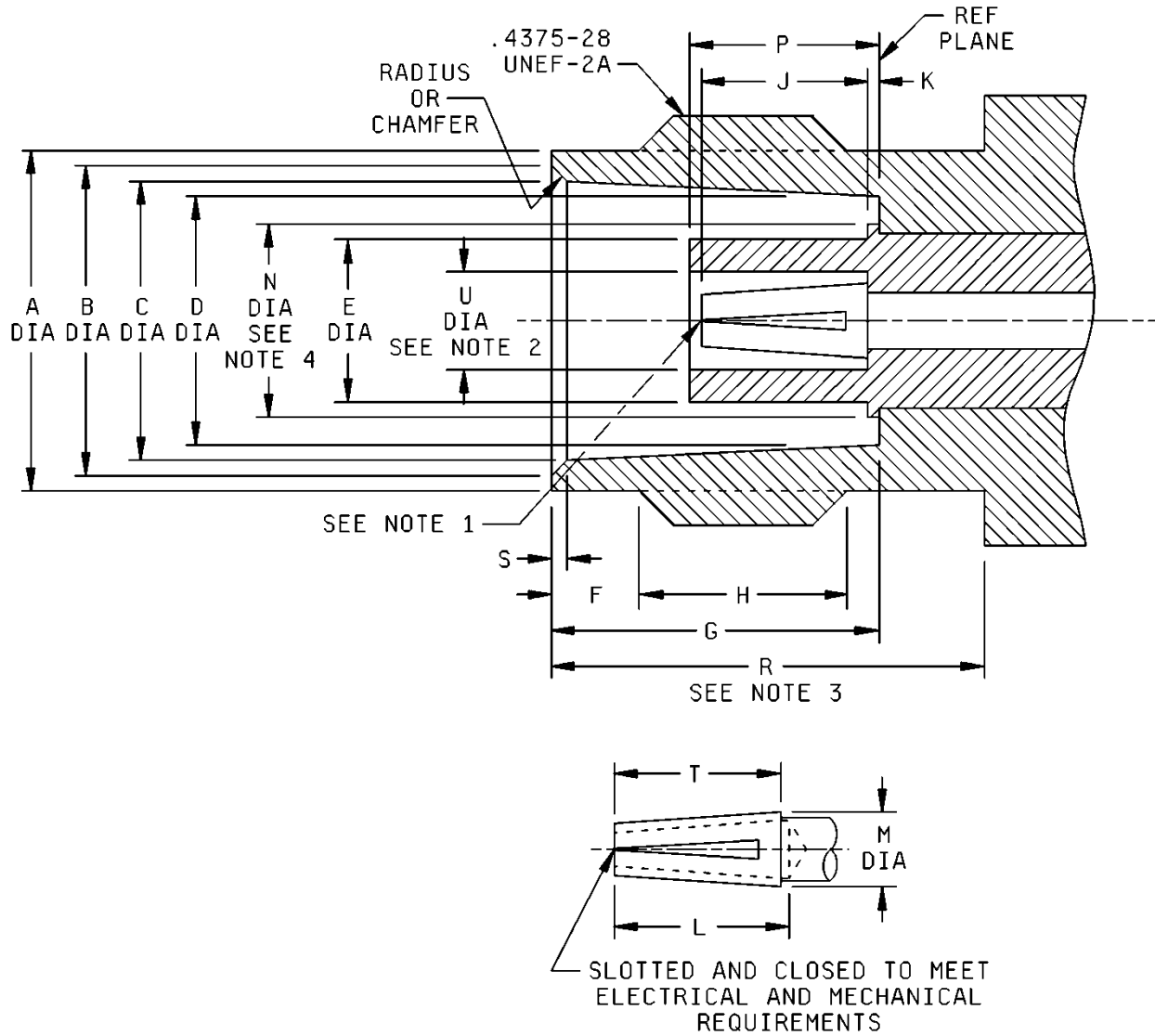
| Dim.<br>Ltr. | Inches (mm)   |               |
|--------------|---------------|---------------|
|              | Min.          | Max.          |
| A            | .440 (11.18)  | -----         |
| B            | .314 (7.98)   | .318 (8.08)   |
| C            | .238 (6.05)   | .242 (6.15)   |
| D            | .052 (1.32)   | .054 (1.37)   |
| E            | .208 (5.28)   | -----         |
| F            | .212 (5.38)   | -----         |
| G            | .208 (5.28)   | -----         |
| H            | .003 (0.08)   | .040 (1.02)   |
| K            | .078 (1.98)   | -----         |
| M            | -----         | .078 (1.98)   |
| N            | .063 (1.60)   | -----         |
| P            | .156 (3.96)   | -----         |
| R            | -----         | .025 (0.64)   |
| S            | -----         | .322 (8.18)   |
| T            | .275 (6.98)   | .277 (7.03)   |
| U            | .0060 (0.152) | .0090 (0.229) |

## NOTES:

1. Three holes .027 inch (0.69) minimum diameter equally spaced for safety wiring when required. Location on coupling nut is optional.
2. Dimension with nut bias fully forward.
3. B dimension applies to unslotted version. Slotted designs must meet gauge test, B dimension will not apply.

FIGURE 313-3. Interface, series TNCA, pin contact, air interface – Continued.

## MIL-STD-348B

FIGURE 313-4. Interface, series TNCA, socket contact, air interface.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |             |
|--------------|--------------|-------------|
|              | Min.         | Max.        |
| A            | .378 (9.60)  | .381 (9.68) |
| B            | .346 (8.79)  | .356 (9.04) |
| C            | .327 (8.31)  | .333 (8.38) |
| D            | .319 (8.10)  | .321 (8.15) |
| E            | .182 (4.62)  | .186 (4.72) |
| F            | .068 (1.73)  | .088 (2.24) |
| G            | .327 (8.31)  | .335 (8.51) |
| H            | .187 (4.75)  | -----       |
| J            | .198 (5.03)  | .208 (5.28) |
| K            | -----        | .006 (0.15) |
| L            | .195 (4.95)  | -----       |
| M            | .084 (2.13)  | .087 (2.21) |
| N            | -----        | .230 (5.84) |
| P            | .198 (5.03)  | .208 (5.28) |
| R            | .414 (10.52) | -----       |
| S            | .015 (0.38)  | .030 (0.76) |
| T            | .180 (4.57)  | .196 (4.98) |
| U            | -----        | .092 (2.34) |

## NOTES:

1. ID to meet VSWR when mated with .052 (1.32 mm) .054 (1.37 mm) diameter pin.
2. Diameter is ID of dielectric.
3. Clearance for mating connector coupling nut.
4. Applies to portion of dielectric which protrudes beyond metal shoulder (reference plane).

FIGURE 313-4. Interface, series TNCA, socket contact, air interface – Continued.

MIL-STD-348B

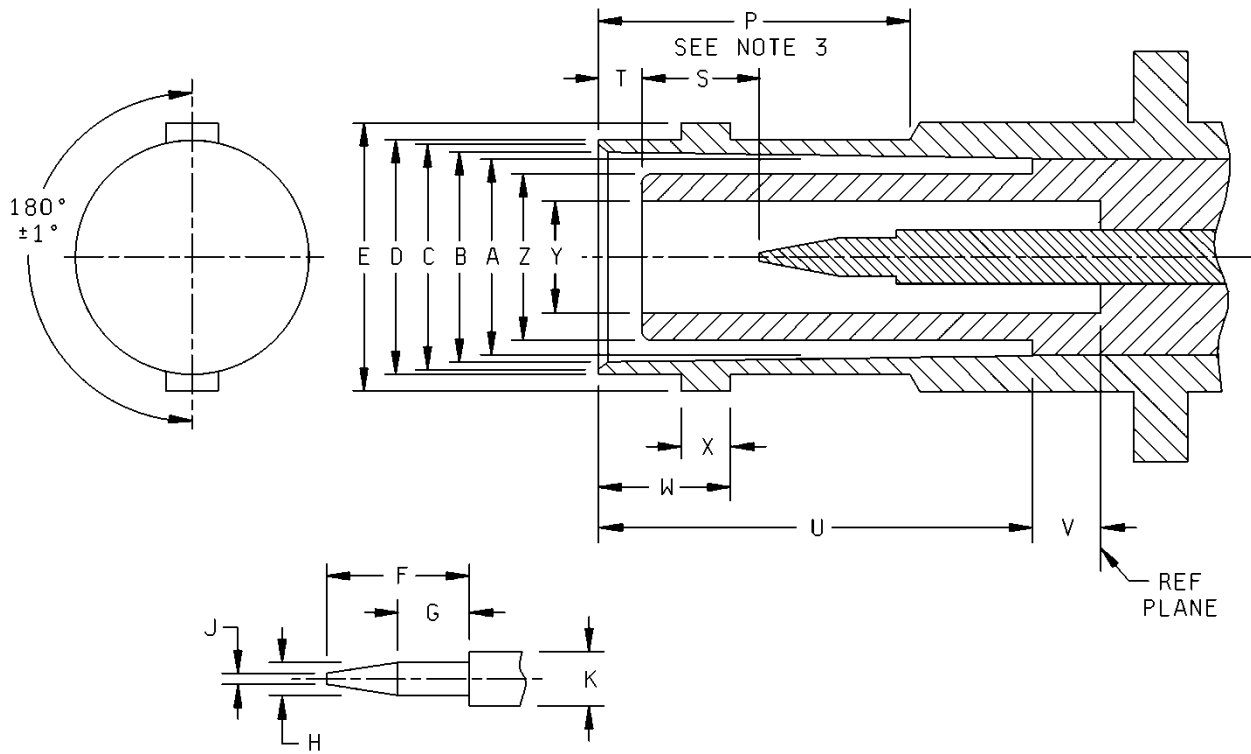


FIGURE 314-1. Interface, series SHV, pin contact.

## MIL-STD-348B

| Dim.<br>Ltr. | Inches (mm)  |              |
|--------------|--------------|--------------|
|              | Min.         | Max.         |
| A            | .319 (8.10)  | .321 (8.15)  |
| B            | .328 (8.33)  | .333 (8.46)  |
| C            | .347 (8.81)  | .357 (9.07)  |
| D            | .378 (9.60)  | .382 (9.70)  |
| E            | .432 (10.97) | .436 (11.07) |
| F            | .207 (5.26)  | .214 (5.44)  |
| G            | .130 (3.30)  | -----        |
| H            | .052 (1.32)  | .054 (1.37)  |
| J            | .015 (0.38)  | .025 (0.64)  |
| K            | .081 (2.06)  | .083 (2.11)  |
| P            | .427 (10.85) | -----        |
| S            | .188 (4.78)  | .208 (5.28)  |
| T            | .061 (1.55)  | .078 (1.98)  |
| U            | .626 (15.90) | .630 (16.00) |
| V            | .064 (1.63)  | .086 (2.18)  |
| W            | .204 (5.18)  | .208 (5.28)  |
| X            | .075 (1.91)  | .081 (2.06)  |
| Y            | .190 (4.83)  | .196 (4.98)  |
| Z            | -----        | .260 (6.60)  |

## NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-PRF-39012/107.
2. .005 inch (0.13 mm) flat permissible to meet dimension W.
3. Clearance for meeting connector coupling nut.

FIGURE 314-1. Interface, series SHV, pin contact – Continued.

MIL-STD-348B

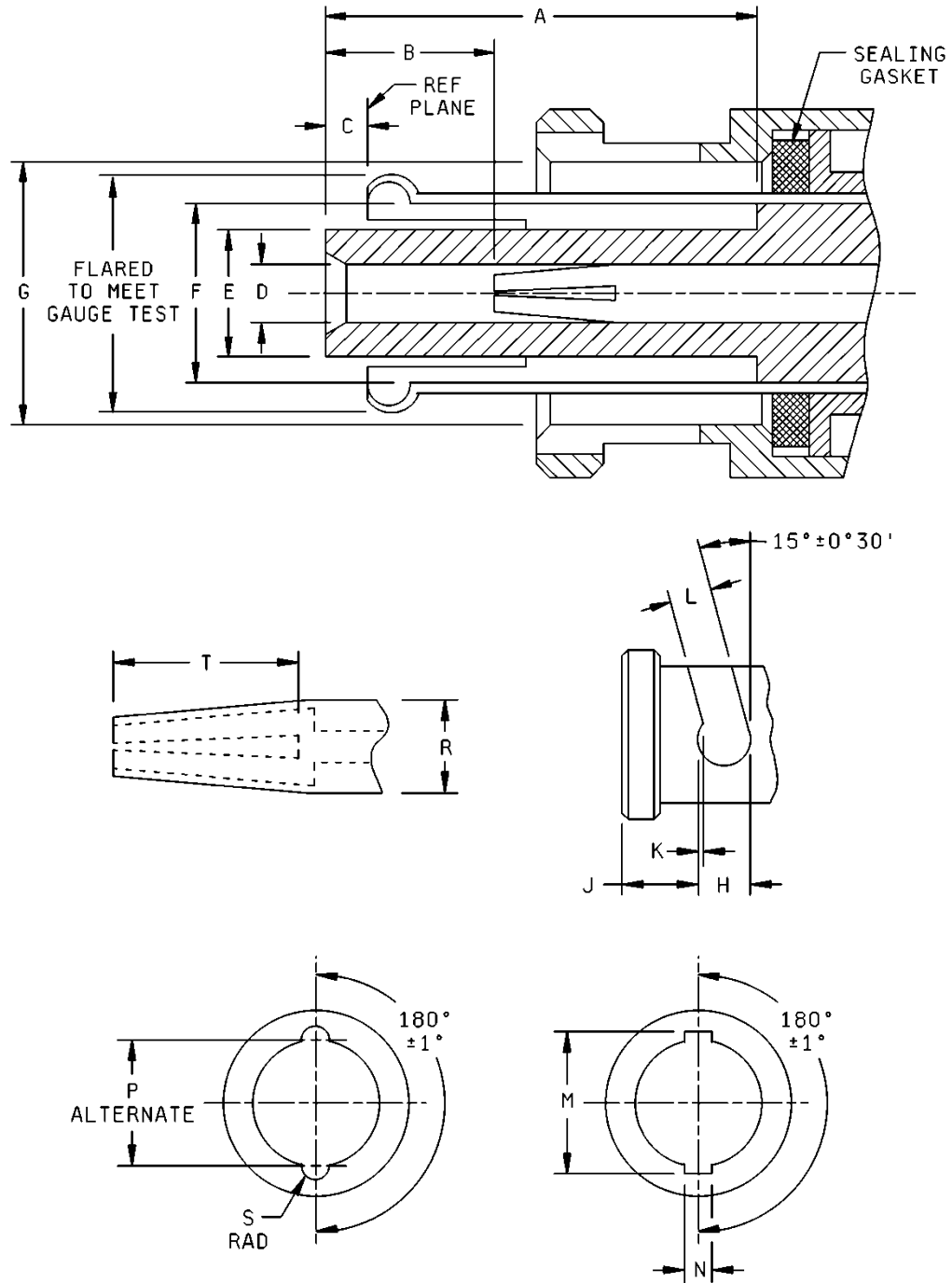


FIGURE 314-2. Interface, series SHV, socket contact.



## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)  |              |
|-------------------|--------------|--------------|
|                   | Minimum      | Maximum      |
| A                 | .628 (15.95) | .632 (16.05) |
| B                 | .238 (6.05)  | .262 (6.65)  |
| C                 | .046 (1.17)  | .064 (1.63)  |
| D                 | .082 (2.08)  | -----        |
| E                 | .180 (4.57)  | .186 (4.72)  |
| F                 | .264 (6.71)  | -----        |
| G                 | .385 (9.78)  | .390 (9.91)  |
| H                 | .124 (3.15)  | -----        |
| J                 | .180 (4.57)  | .184 (4.67)  |
| K                 | .018 (0.46)  | .022 (0.56)  |
| L                 | .091 (2.31)  | .097 (2.46)  |
| M                 | .463 (11.76) | .473 (12.01) |
| N                 | .091 (2.31)  | .094 (2.39)  |
| P                 | .394 (10.01) | .400 (10.16) |
| R                 | .081 (2.06)  | .083 (2.11)  |
| S                 | .045 (1.14)  | .049 (1.24)  |
| T                 | .214 (5.44)  | -----        |

NOTE: This interface shall meet the gauge requirements as specified MIL-PRF-39012/106.

FIGURE 314-2. Interface, series SHV, socket contact – Continued.

MIL-STD-348B

INTERFACE DIMENSIONS FOR MIL-DTL-3650

(To be established)

FIGURE 315-1. Interface, series LC, pin contact.

MIL-STD-348B

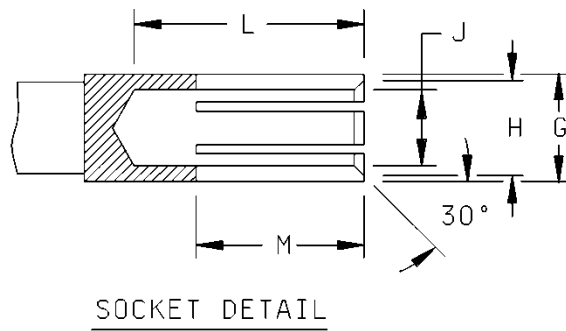
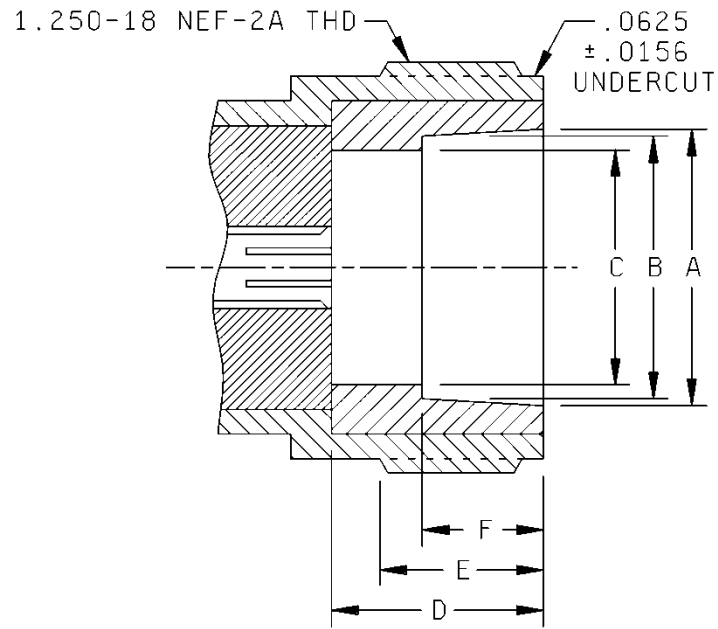


FIGURE 315-2. Interface, series LC, socket contact, full dielectric,

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)  |              |
|-------------------|--------------|--------------|
|                   | Minimum      | Maximum      |
| A                 | .806 (20.47) | .814 (20.68) |
| B                 | .788 (20.02) | .790 (19.81) |
| C                 | .693 (17.60) | .697 (17.70) |
| D                 | .623 (15.82) | .627 (15.93) |
| E                 | .484 (12.29) | .516 (13.11) |
| F                 | .373 (9.47)  | .377 (9.58)  |
| G                 | .227 (5.77)  | .229 (5.82)  |
| H                 | .212 (5.38)  | .220 (5.59)  |
| J                 | .202 (5.13)  | -----        |
| L                 | .557 (14.15) | -----        |
| M                 | .250 (6.35)  | -----        |

NOTE. Dimensions J and M to be slotted to meet mechanical and electrical performance requirements.

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. This interface shall meet the gauge requirements as specified in MIL-DTL-3650.

FIGURE 315-2. Interface, series LC, socket contact, full dielectric – Continued.

MIL-STD-348B

INTERFACE DIMENSIONS TO BE ESTABLISHED

FIGURE 315-3. Interface, series LC, pin contact.

MIL-STD-348B

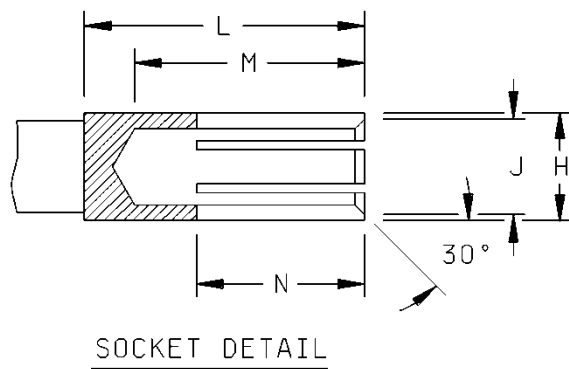
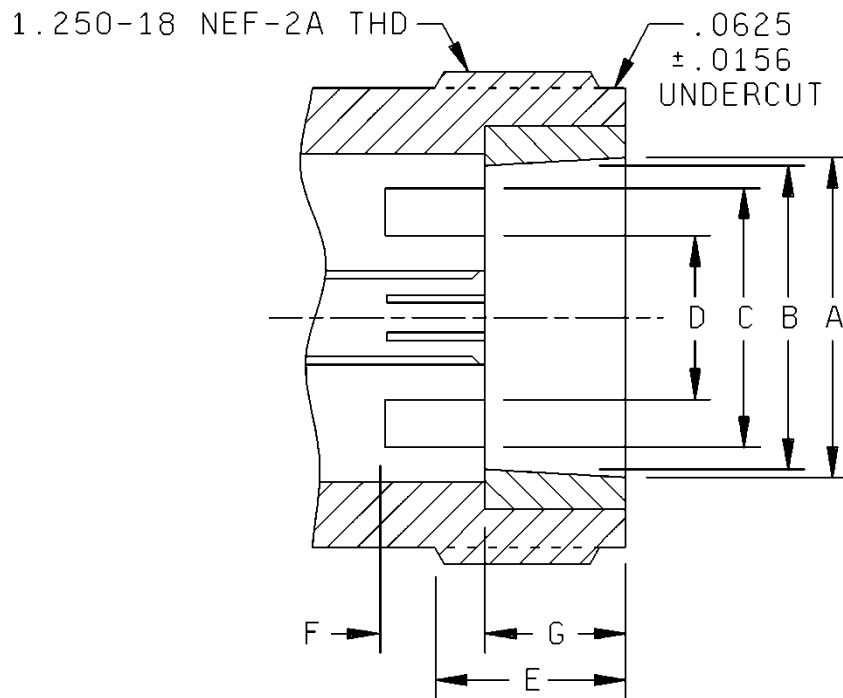


FIGURE 315-4. Interface, series LC, socket contact.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)  |              |
|-------------------|--------------|--------------|
|                   | Minimum      | Maximum      |
| A                 | .806 (20.47) | .814 (20.68) |
| B                 | .788 (20.02) | .790 (20.07) |
| C                 | .691 (17.55) | .699 (17.75) |
| D                 | .433 (11.00) | .441 (11.20) |
| E                 | .484 (12.34) | .516 (13.11) |
| F                 | .248 (6.30)  | .252 (6.40)  |
| G                 | .373 (9.47)  | .377 (9.58)  |
| H                 | .227 (5.77)  | .229 (5.82)  |
| J                 | .212 (5.38)  | .220 (5.59)  |
| L                 | .750 (19.05) | -----        |
| M                 | .557 (14.15) | -----        |
| N                 | .250 (6.35)  | -----        |

NOTE. Dimensions J and M contact to be slotted to meet mechanical and electrical performance requirements.

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. This interface shall meet the gauge requirements of MIL-DTL-3650.

FIGURE 315-4. Interface, series LC, socket contact – Continued.

MIL-STD-348B

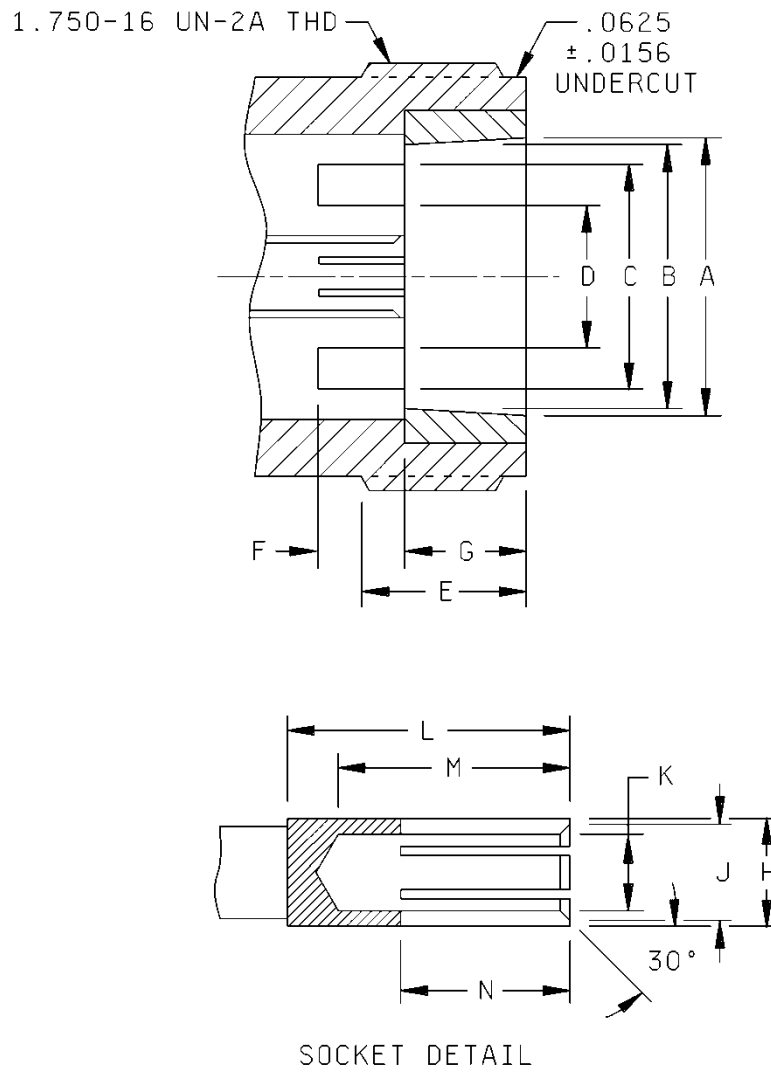
INTERFACE DIMENSIONS FOR MIL-DTL-3650

To be established

FIGURE 315-5. Interface, Series LC, Pin Contact.



MIL-STD-348B



NOTES:

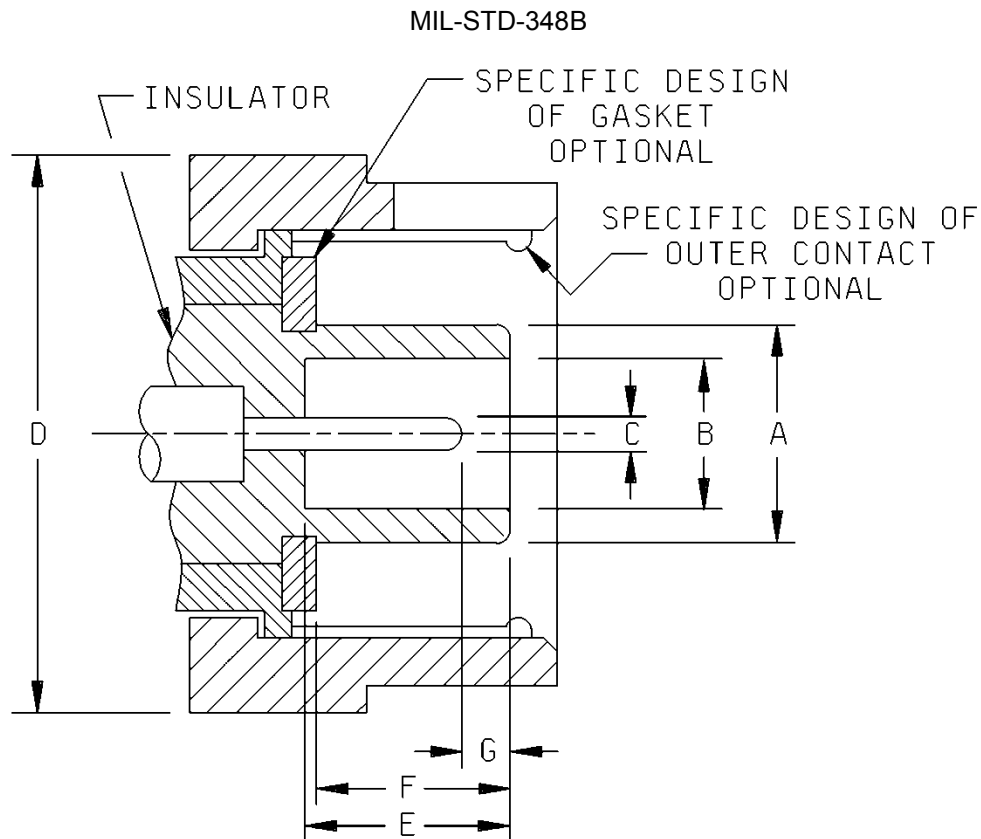
1. Dimensions are in inches.
2. Metric equivalents are for reference purposes only.
3. The interface shall meet the gauge requirements as specified in MIL-DTL-3650.

FIGURE 315-6. Interface, Series LC, Socket Contact.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)   |               |
|-------------------|---------------|---------------|
|                   | Minimum       | Maximum       |
| A                 | 1.083 (27.51) | 1.093 (27.76) |
| B                 | 1.054 (26.77) | 1.056 (26.82) |
| C                 | .926 (23.52)  | .934 (23.72)  |
| D                 | .621 (15.77)  | .629 (15.98)  |
| E                 | .609 (15.47)  | .641 (16.28)  |
| F                 | .373 (9.47)   | .377 (9.57)   |
| G                 | .373 (9.47)   | .377 (9.57)   |
| H                 | .304 (7.72)   | .306 (7.77)   |
| J                 | .289 (7.34)   | .297 (7.54)   |
| K                 | .271 (6.88)   |               |
| L                 | .750 (19.05)  |               |
| M                 | .562 (14.27)  |               |
| N                 | .250 (6.35)   |               |

FIGURE 315-6. Interface, Series LC, Socket Contact – Continued.



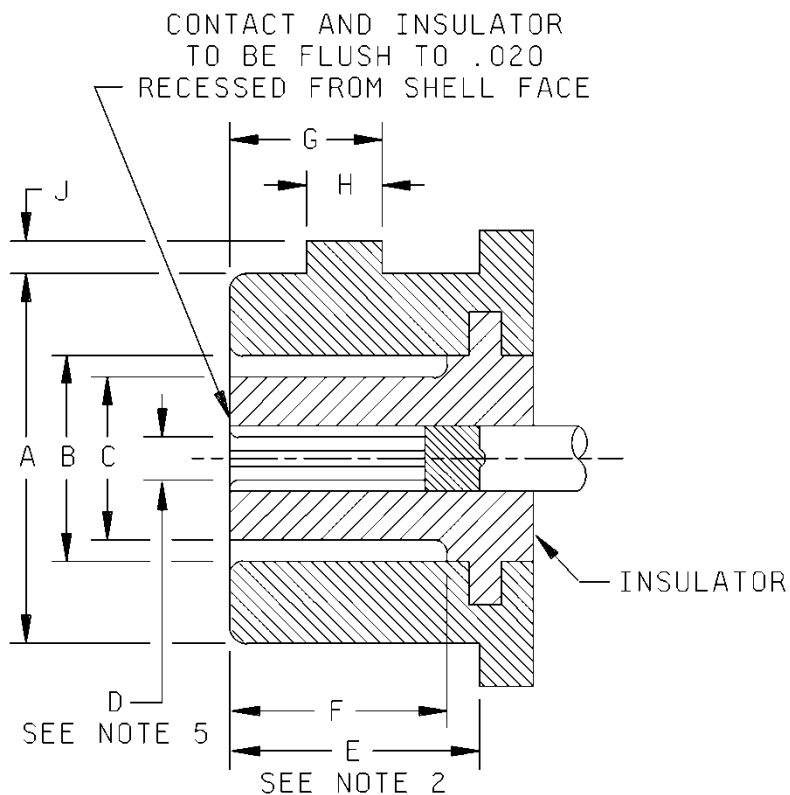
| Dimension<br>Ltr. | Inches (mm) |              |
|-------------------|-------------|--------------|
|                   | Minimum     | Maximum      |
| A                 | -----       | .196 (4.98)  |
| B                 | .130 (3.30) | -----        |
| C                 | .037 (0.94) | .039 (0.99)  |
| D                 | -----       | .450 (11.43) |
| E                 | .170 (4.32) | -----        |
| F                 | .130 (3.30) | .160 (4.06)  |
| G                 | .000 (0.00) | .040 (1.02)  |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. This interface shall meet the gauge requirements as specified in MIL-DTL-25516.

FIGURE 316-1. Interface, coaxial, pin contact, environment resistant.

## MIL-STD-348B



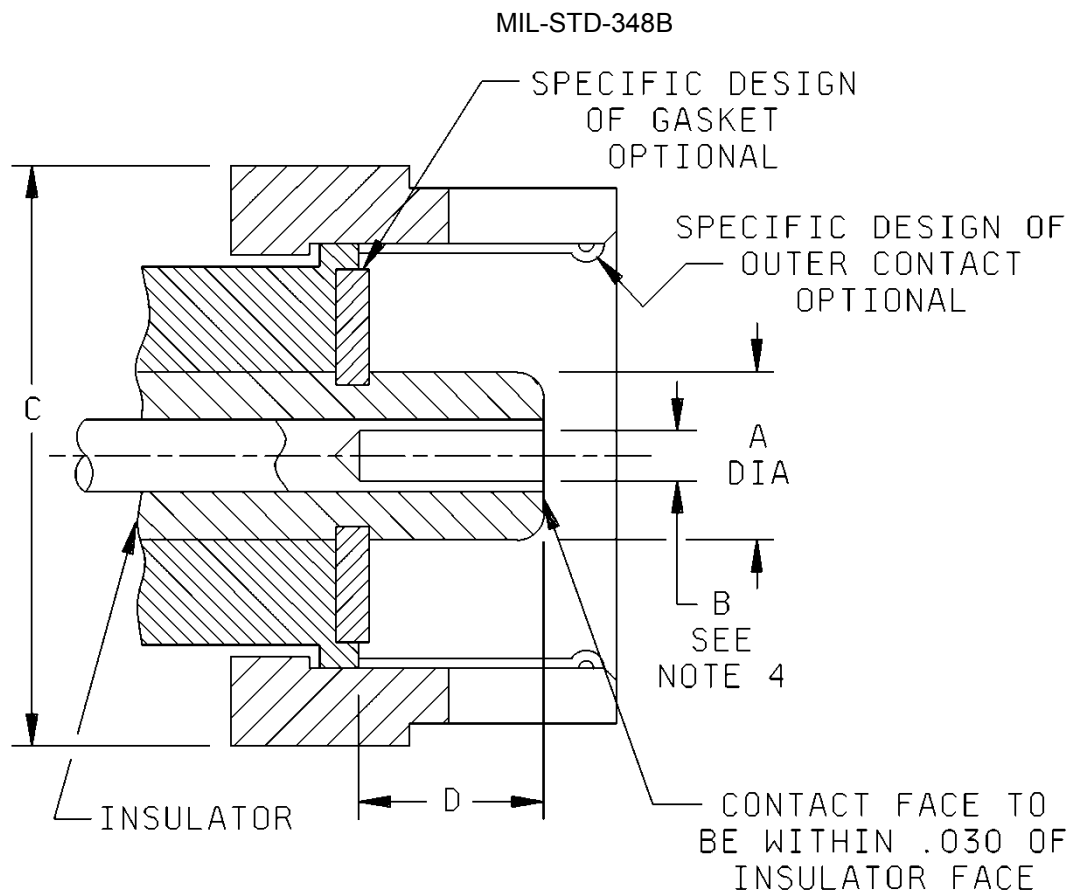
## RECEPTACLE WITH SOCKET CONTACT

| Dimension<br>Ltr. | Inches (mm) |         |
|-------------------|-------------|---------|
|                   | Minimum     | Maximum |
| A DIA.            | .286 REF    | -----   |
| B                 | .196        | -----   |
| C                 | -----       | .128    |
| D                 | .041        | .043    |
| E                 | .250        | -----   |
| F                 | .180        | -----   |
| G                 | .151 REF    | -----   |
| H lug             | .055 REF    | -----   |
| J                 | .027 TYP    |         |

## NOTES:

1. Dimensions are in inches.
2. Clearance for mating connector coupling nut.
3. Metric equivalents are given for information only.
4. This interface shall meet the gauge requirements as specified in MIL-DTL-25516.
5. .170 inch (4.32 mm) minimum deep.

FIGURE 316-2. Interface, coaxial, socket contact, environment resistant.



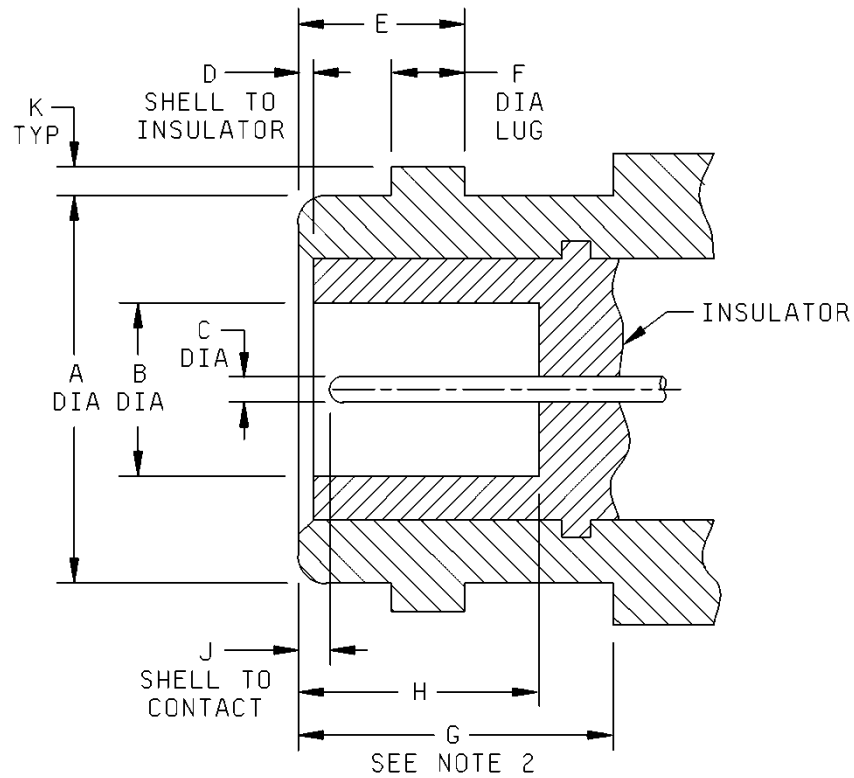
| Dimension<br>Ltr. | Inches (mm) |         |
|-------------------|-------------|---------|
|                   | Minimum     | Maximum |
| A                 | -----       | .128    |
| B                 | .041        | .043    |
| C                 | -----       | .450    |
| D                 | .130        | .160    |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. This interface shall meet the gauge requirements as specified in MIL-DTL-25516.
4. .170 inch (4.32 mm) minimum deep.

FIGURE 316-3. Interface, coaxial, socket contact, environment resistant.

MIL-STD-348B



RECEPTACLE WITH PIN CONTACT

| Dimension<br>Ltr. | Inches (mm)         |             |
|-------------------|---------------------|-------------|
|                   | Minimum             | Maximum     |
| A                 | .286 (7.26) REF     | -----       |
| B                 | .130 (3.30)         | -----       |
| C                 | .037 (0.94)         | .039 (0.99) |
| D                 | .000 (0.00)         | .020 (0.51) |
| E                 | .151 (3.84) REF     | -----       |
| F                 | .055 (1.40) REF     | -----       |
| G                 | .250 (6.35)         | -----       |
| H                 | .180 (4.57)         | -----       |
| J                 | .000 (0.00)         | .040 (1.02) |
| K                 | .027 (0.69) Typical |             |

NOTES:

1. This interface shall meet the gauge requirements as specified in MIL-DTL-25516.
2. Clearance for mating connector coupling nut.
3. Dimensions are inches.
4. Metric equivalents are given for information only.

FIGURE 316-4. Interface, coaxial, pin contact, environment resistant.

MIL-STD-348B

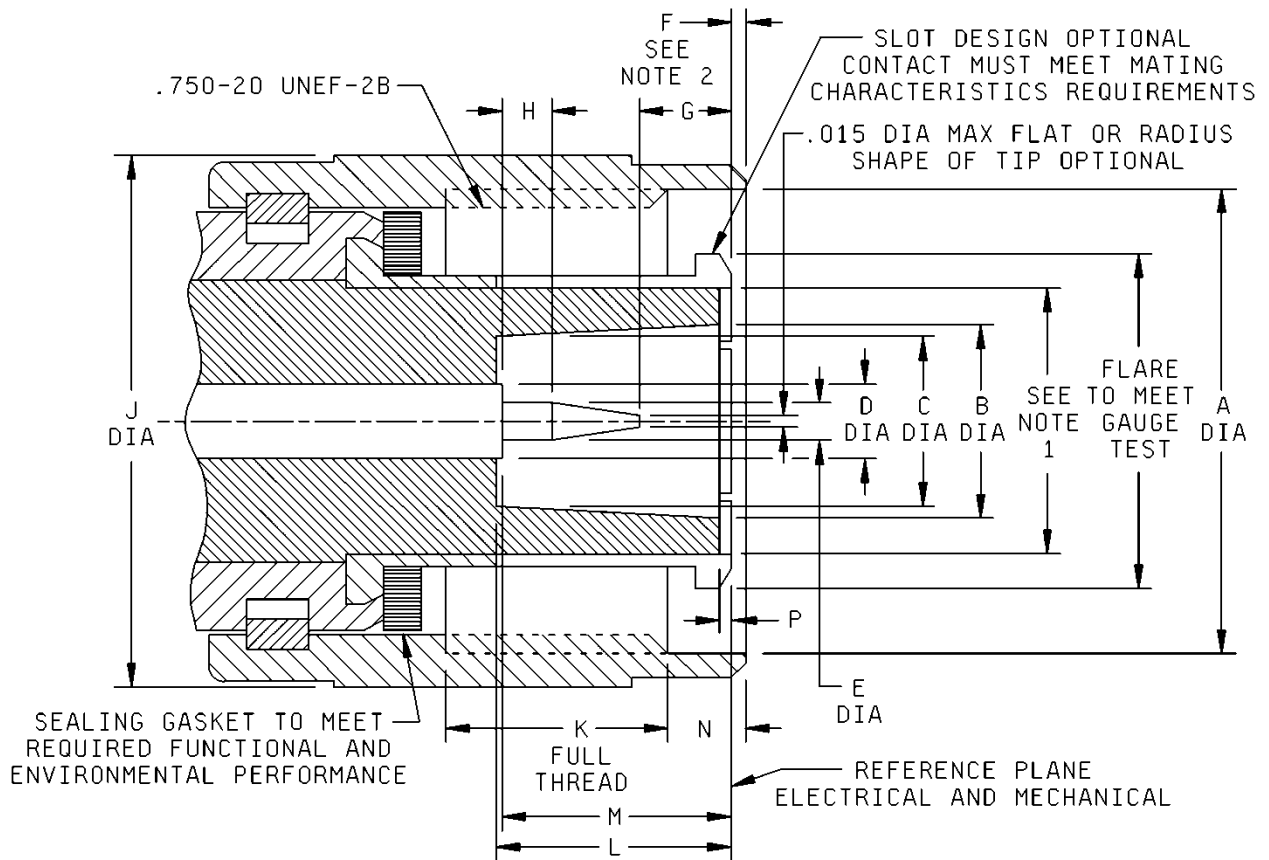


FIGURE 317-1. Interface, series HN, pin contact.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)  |              |
|-------------------|--------------|--------------|
|                   | Minimum      | Maximum      |
| A                 | .760 (19.30) | -----        |
| B                 | .289 (7.34)  | -----        |
| C                 | .263 (6.68)  | -----        |
| D                 | -----        | .132 (3.35)  |
| E                 | .062 (1.57)  | .066 (1.68)  |
| F                 | -----        | .058 (1.47)  |
| G                 | .138 (3.51)  | -----        |
| H                 | .120 (3.05)  | -----        |
| J                 | -----        | .925 (23.50) |
| K                 | .403 (10.24) | -----        |
| L                 | .368 (9.35)  | -----        |
| M                 | .356 (9.04)  | .388 (9.86)  |
| N                 | .100 (2.54)  | -----        |
| P                 | .005 (0.13)  | -----        |

## NOTE:

1. ID of outer contact when inserted into a .548 inch (13.92 mm) maximum diameter ring gauge shall be .432 inch (10.97 mm) minimum.
2. With nut biased in forward position.

FIGURE 317-1. Interface, series HN, pin contact – Continued.



MIL-STD-348B

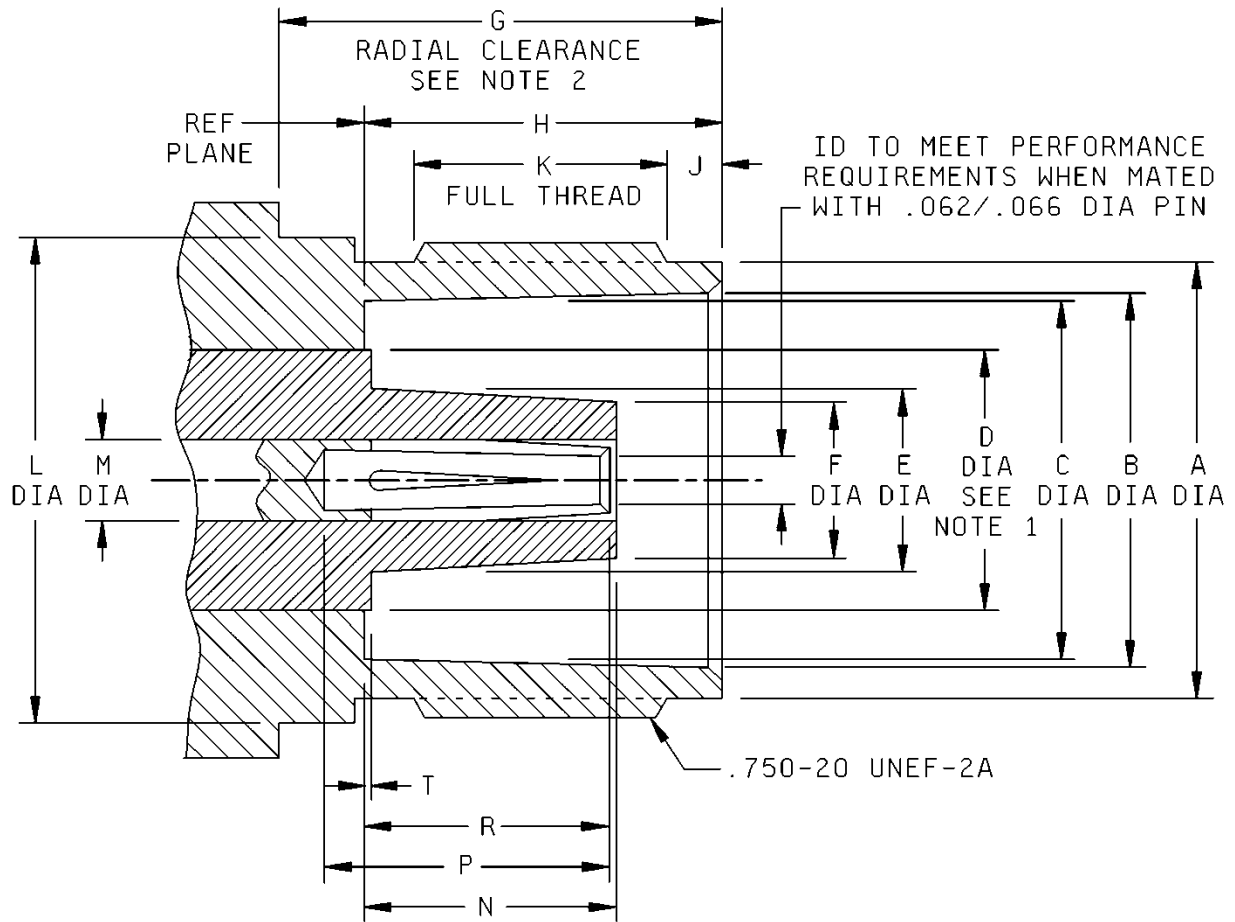


FIGURE 317-2. Interface, series HN, socket contact.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)  |              |
|-------------------|--------------|--------------|
|                   | Minimum      | Maximum      |
| A                 | .662 (16.81) | .683 (17.35) |
| B                 | .571 (14.50) | .578 (14.68) |
| C                 | .548 (13.92) | .553 (14.05) |
| D                 | -----        | .430 (10.92) |
| E                 | -----        | .294 (7.47)  |
| F                 | -----        | .268 (6.81)  |
| G                 | .590 (14.99) | -----        |
| H                 | .516 (13.11) | .522 (13.26) |
| J                 | .077 (1.96)  | .087 (2.21)  |
| K                 | .359 (9.12)  | -----        |
| L                 | -----        | .755 (19.18) |
| M                 | -----        | .132 (3.35)  |
| N                 | -----        | .368 (9.35)  |
| P                 | .355 (9.02)  | -----        |
| R                 | .328 (8.33)  | .358 (9.09)  |
| T                 | -----        | .005 (0.13)  |

## NOTES:

1. Dielectric protrusion beyond reference plane.
2. Clearance for mating connector coupling nut.
3. Dimensions are in inches.
4. Metric equivalents are given for information only.

FIGURE 317-2. Interface, series HN, socket contact – Continued.

MIL-STD-348B

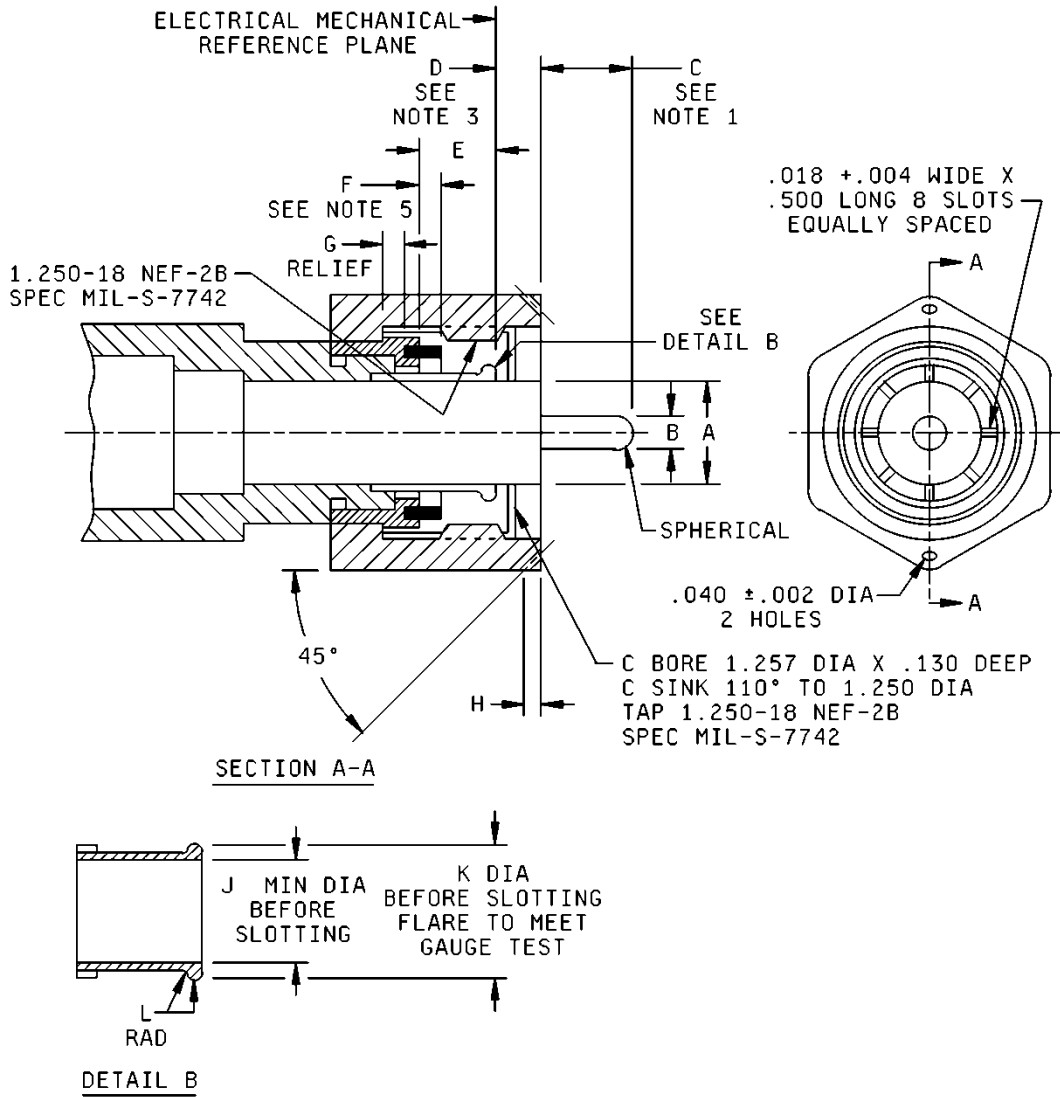


FIGURE 318-1. Interface, series LT, without contact.

## MIL-STD-348B

| Dimension<br>Ltr. | Inches (mm)        |              |
|-------------------|--------------------|--------------|
|                   | Minimum            | Maximum      |
| A                 | .618 (15.70)       | .620 (15.75) |
| B                 | .186 (4.72)        | .188 (4.78)  |
| C                 | .468 (11.89)       | .500 (12.70) |
| D                 | .250 (6.35)        | .260 (6.60)  |
| E                 | .433 (11.00)       | .441 (11.20) |
| F                 | .099 (2.51)        | .119 (3.02)  |
| G                 | .094 (2.39) relief |              |
| H                 | .094 (2.39)        |              |
| J                 | .621 (15.77)       | -----        |
| K                 | .785 (19.94)       | .786 (19.96) |
| L                 | .046 (1.17)        |              |

## NOTES:

1. This dimension is from the tip of the center contact to the end of the dielectric.
2. Dimensions are in inches.
3. This dimension is from the end of the outer contact to the end of the dielectric.
4. Unless otherwise specified, all tolerances shall be  $\pm 0.005$  inch.
5. The gasket upon mating with the mating connector shall meet the electrical and environmental performance requirements.

FIGURE 318-1. Interface, series LT, without contact – Continued.

MIL-STD-348B

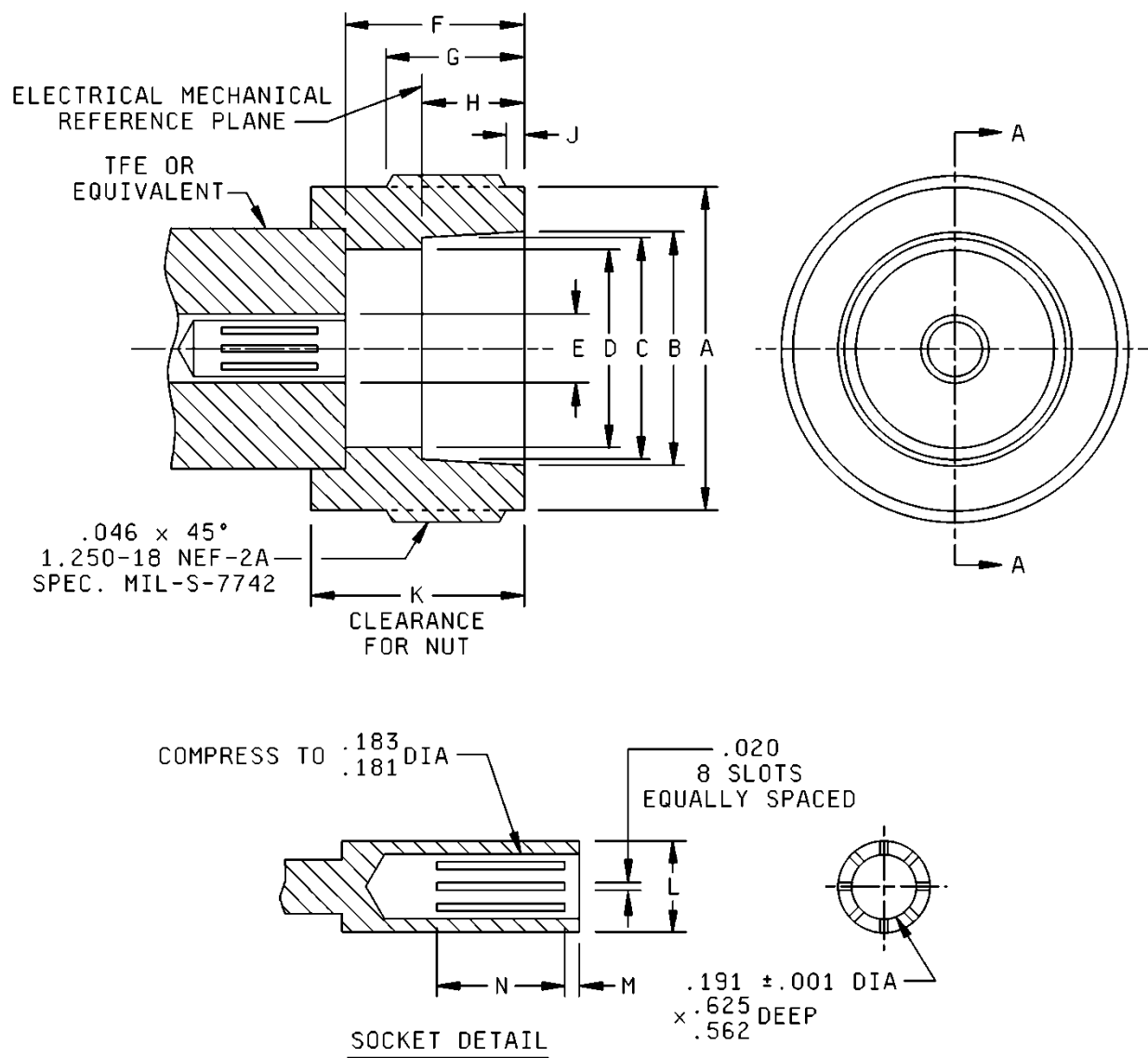


FIGURE 318-2. Interface, series LT, socket contact.

## MIL-STD-348B

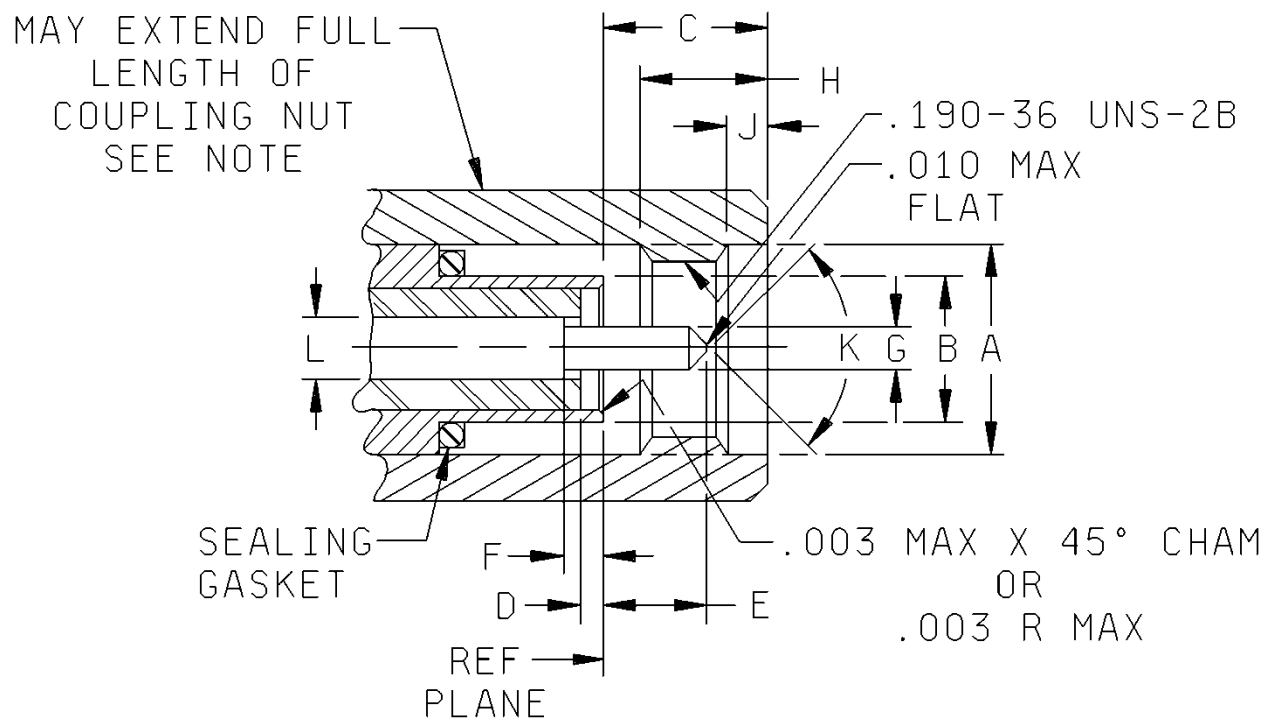
| Dimension<br>Ltr. | Inches (mm)   |              |
|-------------------|---------------|--------------|
|                   | Minimum       | Maximum      |
| A                 | 1.150 (29.21) |              |
| B                 | .798 (20.27)  | .806 (20.47) |
| C                 | .788 (20.02)  | .790 (20.07) |
| D                 | .621 (15.77)  | .623 (15.82) |
| E Ref.            | .217 (5.51)   | .218 (5.54)  |
| F                 | .618 (15.70)  | .624 (15.85) |
| G                 | .562 (14.27)  |              |
| H                 | .374 (9.50)   | .376 (9.55)  |
| J                 | .140 (3.56)   |              |
| K                 | .750 (19.05)  | -----        |
| L                 | .217 (5.51)   | .218 (5.54)  |
| M                 | .094 (2.39)   |              |
| N                 | .437 (11.10)  |              |

## NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, all tolerances shall be  $\pm 0.005$  inch.

FIGURE 318-2. Interface, series LT, socket contact – Continued.

## MIL-STD-348B

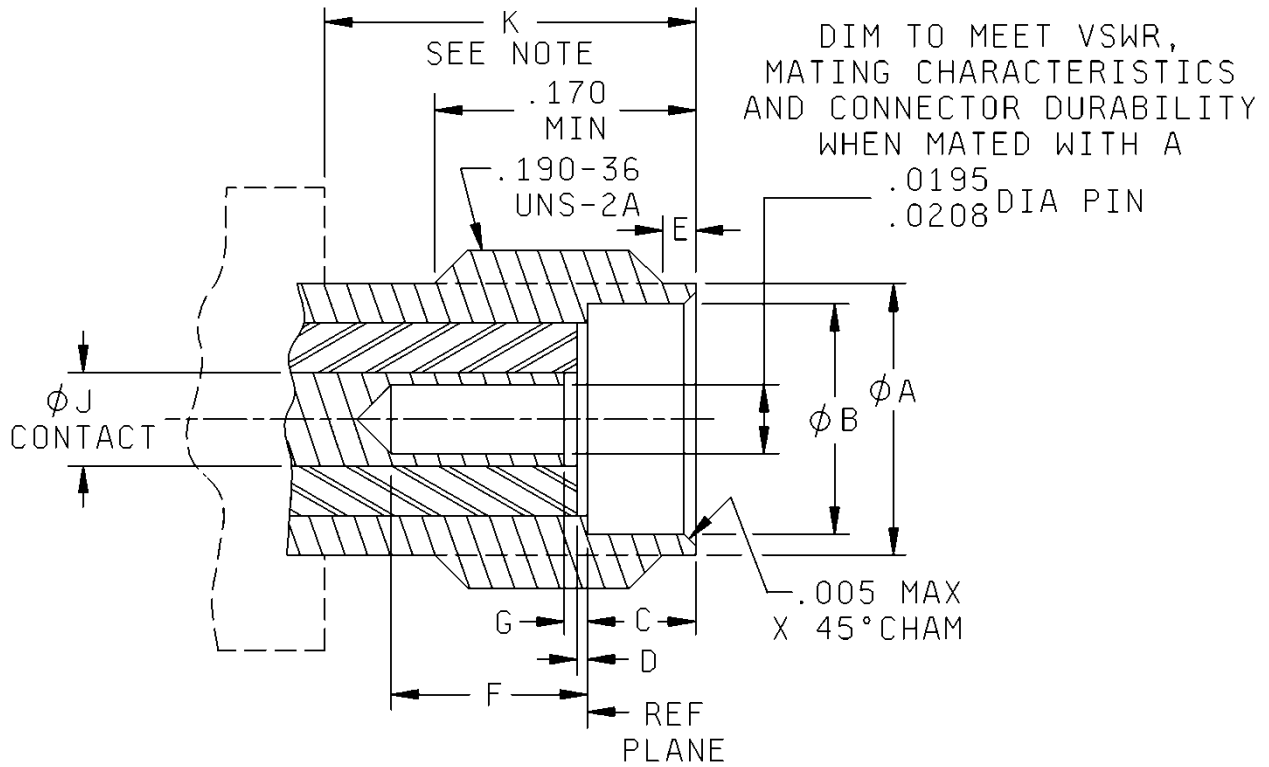


NOTE. .250 reference hex (across flats) may extend full length of coupling nut per FED-STD-H28.

| Letter | Inches<br>(mm) |              |
|--------|----------------|--------------|
|        | Minimum        | Maximum      |
| A dia. | .196 (4.98)    | .202 (5.13)  |
| B dia. | .124 (3.15)    | .1268 (3.22) |
| C      | .100 (2.54)    | .133 (3.38)  |
| D      | .000 (.00)     | .010 (0.25)  |
| E      | .050 (1.27)    | .065 (1.65)  |
| F      | .000 (0.00)    | .010 (0.25)  |
| G dia. | .0195 (0.50)   | .0208 (0.53) |
| H      | .130 (3.30)    | -----        |
| J      | .015 (0.38)    | .045 (1.14)  |
| K      | 70°            | 95°          |
| L dia. | -----          | .0348 (0.88) |

FIGURE 319-1. Interface, series SSMA, pin contact.

## MIL-STD-348B



| Letter | Inches (mm)  |              |
|--------|--------------|--------------|
|        | Minimum      | Maximum      |
| A dia. | .147 (3.73)  | .160 (4.06)  |
| B dia. | .127 (3.23)  | .130 (3.30)  |
| C      | .075 (1.91)  | .077 (1.96)  |
| D      | .000 (0.00)  | .010 (0.25)  |
| E      | .020 (0.51)  | .040 (1.02)  |
| F      | .075 (1.91)  | -----        |
| G      | .000 (0.00)  | .010 (0.25)  |
| J dia. | .0335 (0.85) | .0348 (0.88) |
| K      | .230 (5.84)  | -----        |

NOTE: Clearance for coupling nut.

FIGURE 319-2. Interface, series SSMA, socket contact.



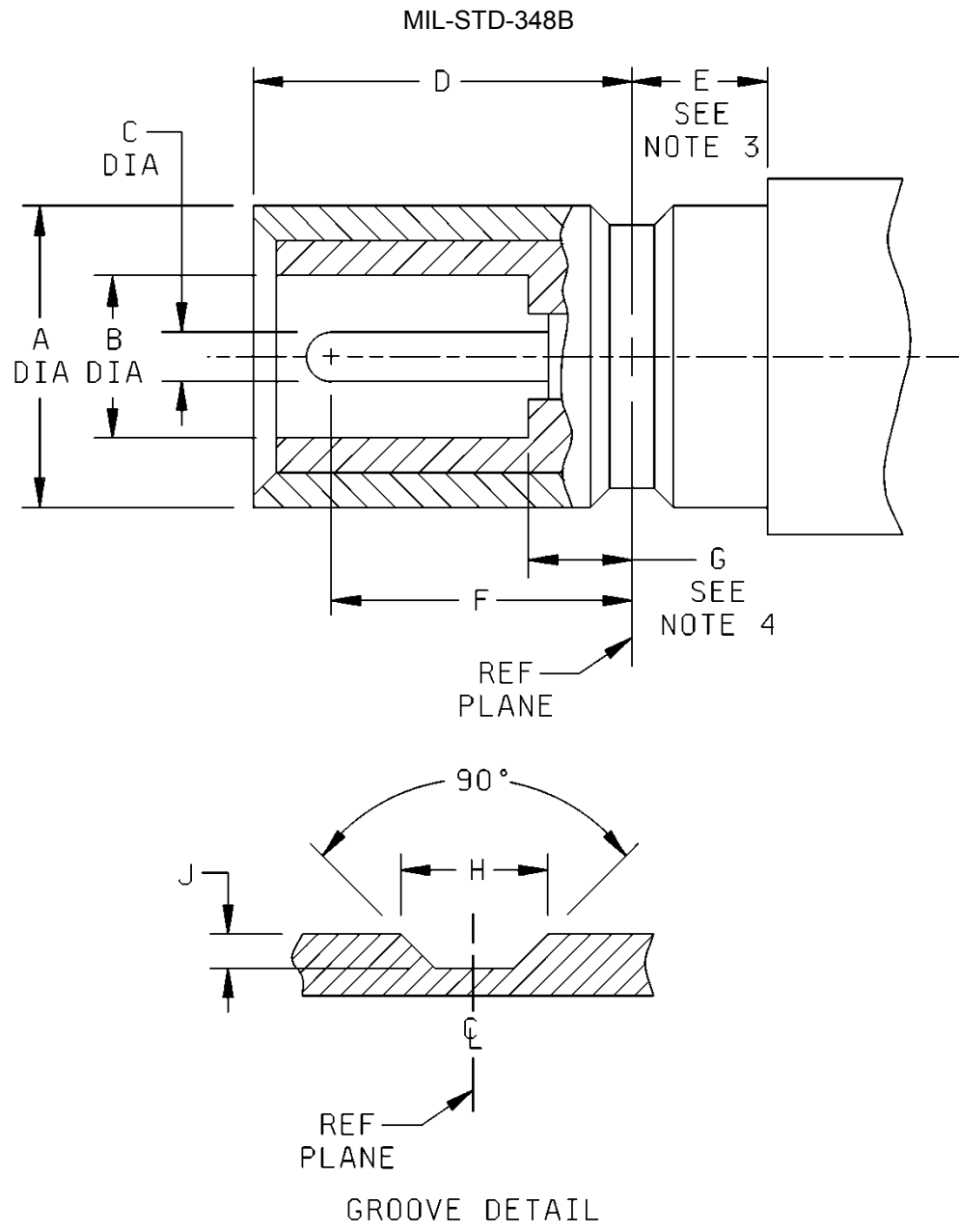


FIGURE 320-1. Interface, series SSMB, pin contact.

## MIL-STD-348B

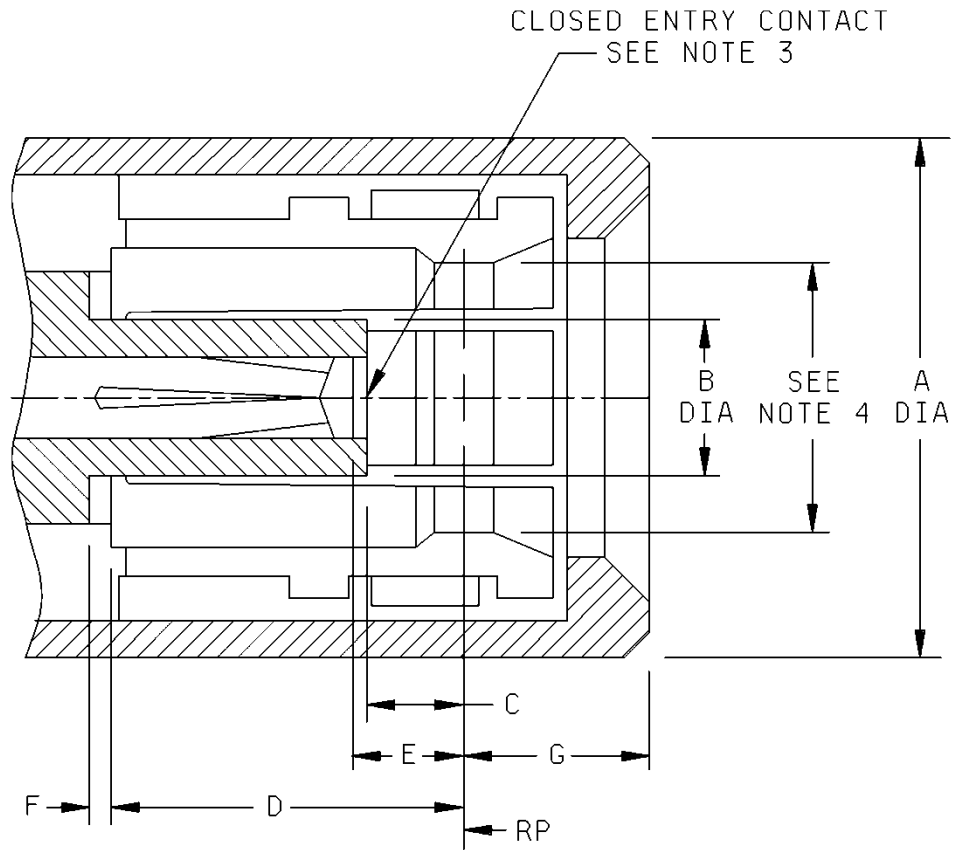
| Letter | Inches (mm) |             |
|--------|-------------|-------------|
|        | Minimum     | Maximum     |
| A      | -----       | .105 (2.67) |
| B      | .054 (1.37) | -----       |
| C      | .014 (0.36) | .015 (0.38) |
| D      | .122 (3.10) |             |
| E      | .075 (1.91) | -----       |
| F      | .075 (1.91) | -----       |
| G      | -----       | .033 (0.84) |
| H      | .028 (0.71) | .029 (0.74) |
| J      | .002 (0.56) | .006 (0.15) |

## NOTES:

1. All undimensioned pictorial representations are for reference purposes only.
2. Unless otherwise specified, all tolerances shall be  $\pm 0.005$  inch.
3. Clearance for mating connector coupling nut.
4. This dimension (.033 max.) applies to both the insulator and the contact.

FIGURE 320-1. Interface, series SSMB, pin contact – Continued.

MIL-STD-348B



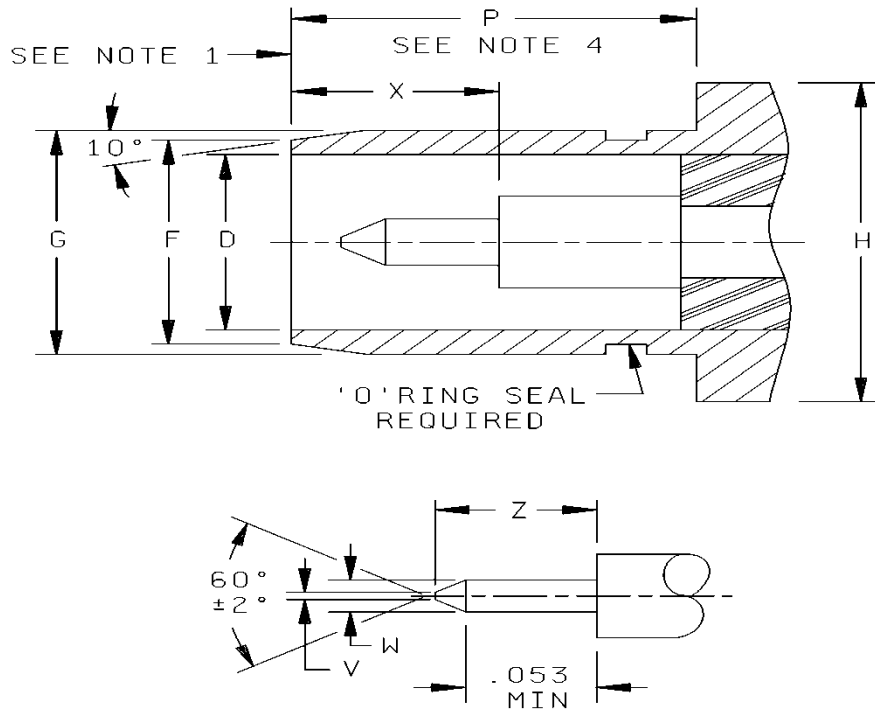
| Letter | Inches(mm)  |             |
|--------|-------------|-------------|
|        | Minimum     | Maximum     |
| A      | -----       | .190 (4.83) |
| B      | -----       | .053 (1.35) |
| C      | .033 (0.84) | -----       |
| D      | .122 (3.10) | -----       |
| E      | .033 (0.84) | -----       |
| F      | .000 (0.00) | -----       |
| G      | -----       | .070 (1.78) |

NOTES:

1. All undimensioned pictorial representations are for reference purposes only.
2. Unless otherwise specified, all tolerances shall be  $\pm 0.005$ .
3. Inside diameter of contact to meet VSWR, mating characteristics and connector durability when mated with a .014/.015 inch diameter pin contact.
4. Must meet the force to engage/disengage requirement when mated with its mating part.

FIGURE 320-2. Interface, series SSMB, socket contact.

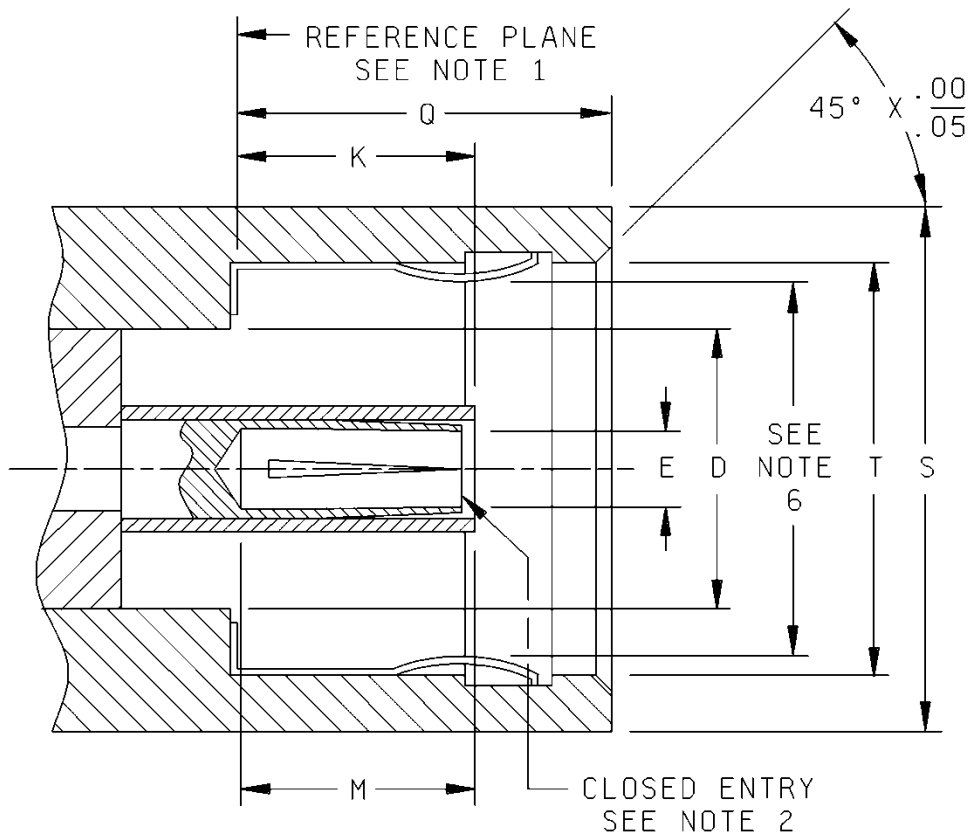
MIL-STD-348B



| Letter | Inches (mm)         |              |
|--------|---------------------|--------------|
|        | Minimum             | Maximum      |
| D      | .161 (4.09) nominal |              |
| F      | .192 (4.88) nominal |              |
| G      | .209 (5.31)         | .211 (5.36)  |
| H      | .300 (7.62) nominal |              |
| P      | .198 (5.03)         | -----        |
| V      | -----               | .015 (0.38)  |
| W      | .0354 (0.90)        | .0370 (0.94) |
| X      | .128 (3.25)         | -----        |
| Z      | .090 (2.29) nominal |              |

FIGURE 321-1. Interface, series BMA, pin contact.

## MIL-STD-348B



| Letter | Inches (mm)         |             | Notes |
|--------|---------------------|-------------|-------|
|        | Minimum             | Maximum     |       |
| D      | .161 (4.09) nominal |             |       |
| E      | -----               | -----       | 2     |
| K      | .120 (3.05)         | .127 (3.23) |       |
| M      | .115 (2.92)         | -----       |       |
| Q      | -----               | .198 (5.03) | 3     |
| S      | .290 (7.37)         | -----       |       |
| T      | .225 (5.72)         | -----       |       |

## NOTES:

1. Reference plane.
2. Bore diameter closed to meet electrical and mechanical requirements when mated with a .0355/.0370 inch pin. (.902/.940mm)
3. With spring finger bottomed.
4. Clearance for mating connector coupling nut.
5. Patent notice: See 6.2 for U.S. patent number 4,426,127.
6. To meet mechanical and electrical requirements of MIL-PRF-31031.

FIGURE 321-2. Interface dimension, series BMA, socket contact.

MIL-STD-348B

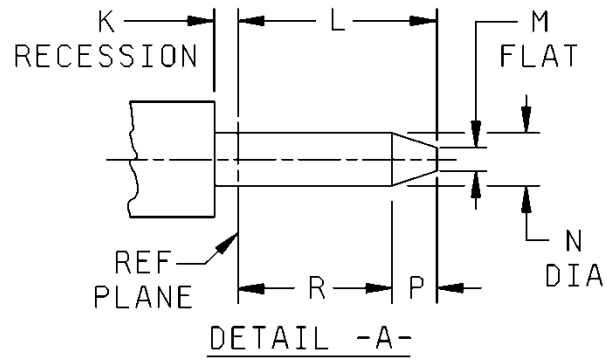
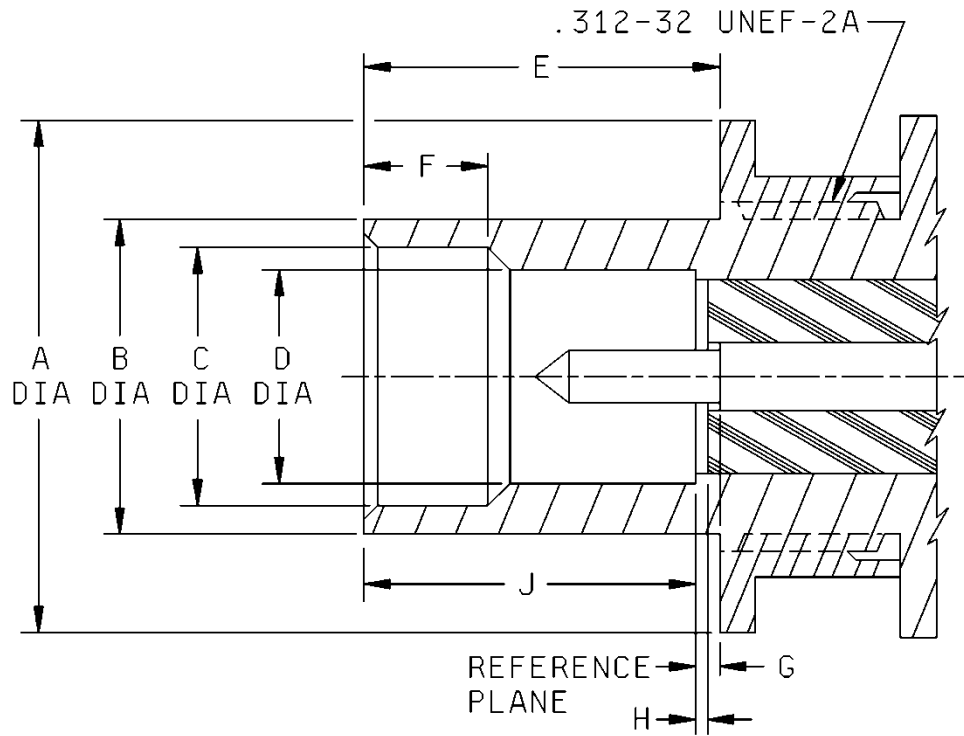


FIGURE 322-1. Interface, series BMB, pin contact.

## MIL-STD-348B

| Letter | Inches (mm)  |              |
|--------|--------------|--------------|
|        | Minimum      | Maximum      |
| A      | -----        | .468 (11.89) |
| B      | -----        | .272 (6.91)  |
| C      | .223 (5.66)  | -----        |
| D      | .1805 (4.58) | .1835 (4.66) |
| E      | .272 (6.91)  | -----        |
| F      | .090 (2.29)  | .100 (2.54)  |
| G      | .000 (.00)   | .010 (0.25)  |
| H      | .000 (.00)   | .010 (0.25)  |
| J      | .240 (6.10)  | .250 (6.35)  |
| K      | .000 (0.00)  | .010 (0.25)  |
| L      | -----        | .100 (2.54)  |
| M      | -----        | .015 (0.38)  |
| N      | .0355 (0.90) | .0370 (0.94) |
| P      | .015 (0.38)  | -----        |
| R      | .050 (1.27)  | -----        |

## NOTES:

1. Patent notice: See 6.2 for U.S. patent number 4,358,174.
2. Unless otherwise specified, tolerances shall be  $\pm 0.005$  inch.

FIGURE 322-1. Interface, series BMB, pin contact – Continued.

MIL-STD-348B

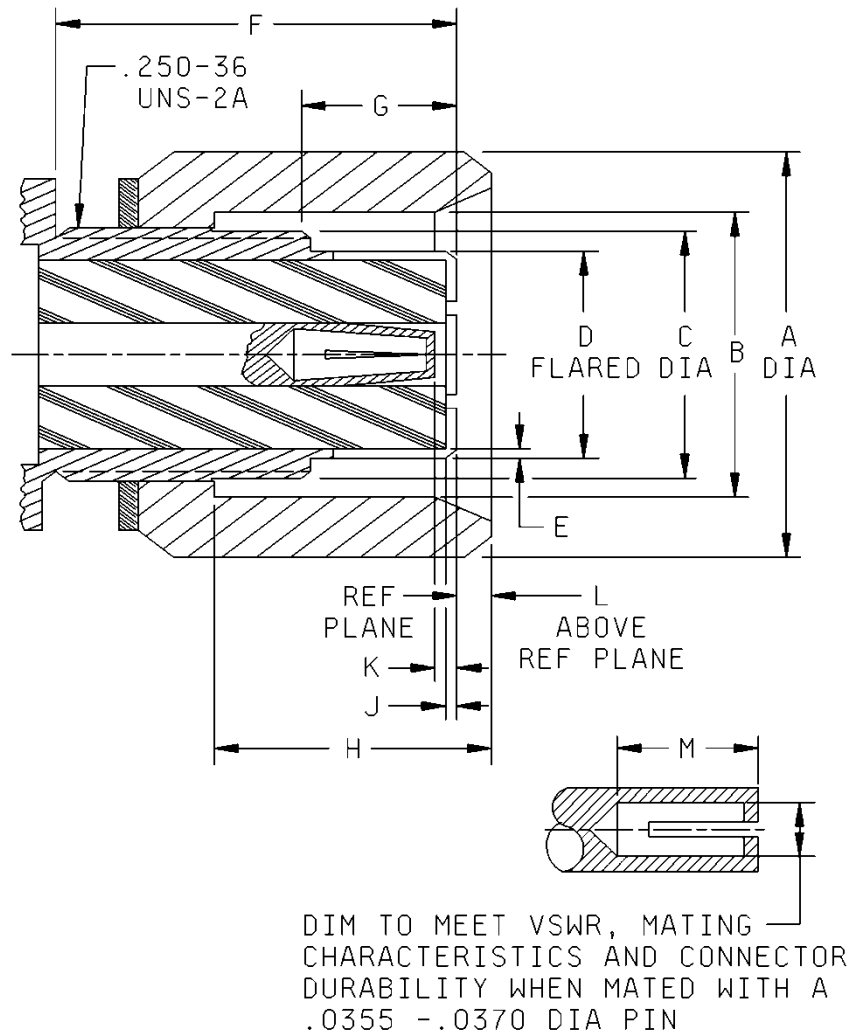


FIGURE 322-2. Interface, series BMB, socket contact.



## MIL-STD-348B

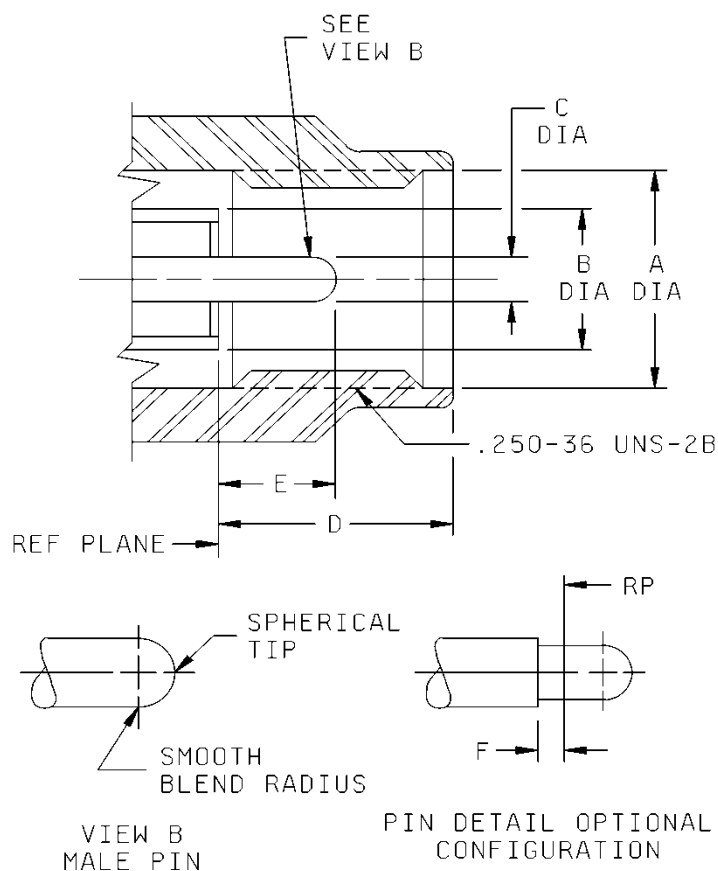
| Letter | Inches (mm)        |              |
|--------|--------------------|--------------|
|        | Minimum            | Maximum      |
| A      | -----              | .468 (11.89) |
| B      | .275 (6.99)        | -----        |
| C      | -----              | .222 (5.64)  |
| D      | .184 (4.67)        | .187 (4.75)  |
| E      | .005 (.13) nominal |              |
| F      | .438 (11.13)       | .442 (11.23) |
| G      | .159 (4.04)        | .169 (4.29)  |
| H      | .278 (7.06)        | -----        |
| J      | .000 (0.00)        | .010 (0.25)  |
| K      | .000 (0.00)        | .010 (0.25)  |
| L      | .000 (0.00)        | .012 (0.30)  |
| M      | .115 (2.92)        |              |

## NOTES:

1. Patent notice: See 6.2 for U.S. patent number 4,358,174.
2. Unless otherwise specified, all tolerances shall be  $\pm 0.005$  inch.

FIGURE 322-2. Interface, series BMB, socket contact – Continued.

## MIL-STD-348B



| Letter | Inches (mm)  |              |
|--------|--------------|--------------|
|        | Minimum      | Maximum      |
| A      | .255 (6.48)  | -----        |
| B      | .178 (4.52)  | .180 (4.57)  |
| C      | .0355 (0.90) | .0370 (0.94) |
| D      | -----        | .135 (3.43)  |
| E      | .055 (1.40)  | .065 (1.65)  |
| F      | .000 (0.00)  | .005 (0.13)  |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. The location of the contact support bead shall not be extended beyond the reference plane.
4. All undimensioned areas including counterbore are to be in accordance with series SMA pin contact interface as specified in this standard.
5. Sealing gasket optional but not required.

FIGURE 323-1. Interface, series SMK, pin contact.

MIL-STD-348B

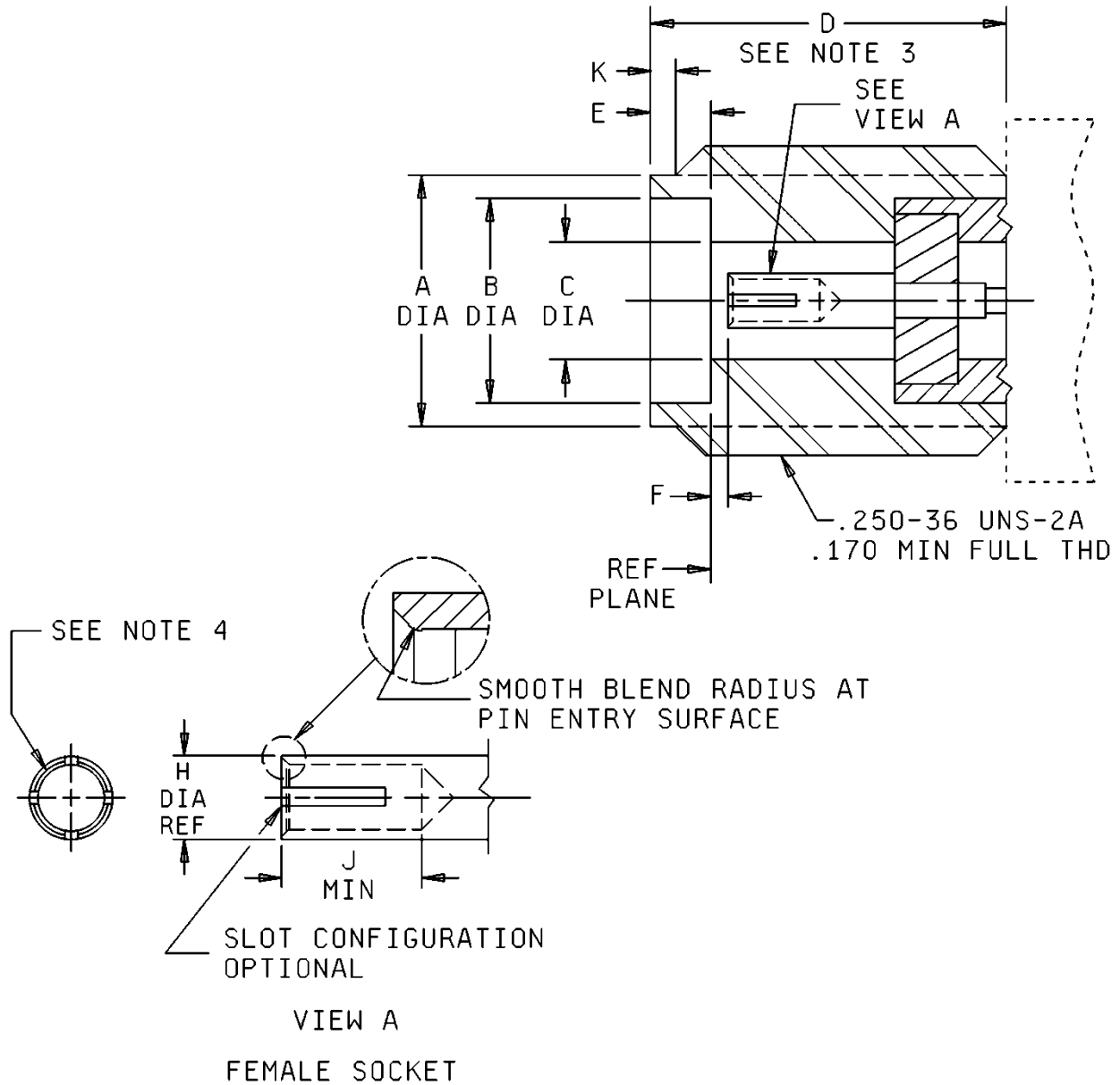


FIGURE 323-2. Interface, series SMK, socket contact.

## MIL-STD-348B

| Letter | Inches (mm)      |             |
|--------|------------------|-------------|
|        | Minimum          | Maximum     |
| A      | .206 (5.23)      | .216 (5.44) |
| B      | .181 (4.60)      | .183 (4.65) |
| C      | .114 (2.90)      | .116 (2.95) |
| D      | .218 (5.54)      | -----       |
| E      | .074 (1.88)      | .078 (1.98) |
| F      | .000 (.00)       | .005 (.13)  |
| G      | See note 4       | See note 4  |
| H      | .050 (1.27) Ref. |             |
| J      | .105 (2.67)      | -----       |
| K      | .015 (0.38)      | .045 (1.14) |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only.
3. Clearance for mating connector coupling nut.
4. Dimensions to meet VSWR, mating characteristics, and connector durability when mated with a .0355 (0.90 mm)/.0370 (0.94 mm) diameter pin.

FIGURE 323-2. Interface, series SMK, socket contact – Continued.

MIL-STD-348B

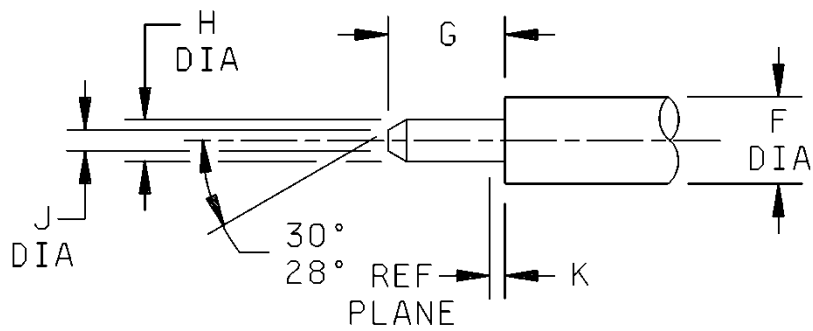
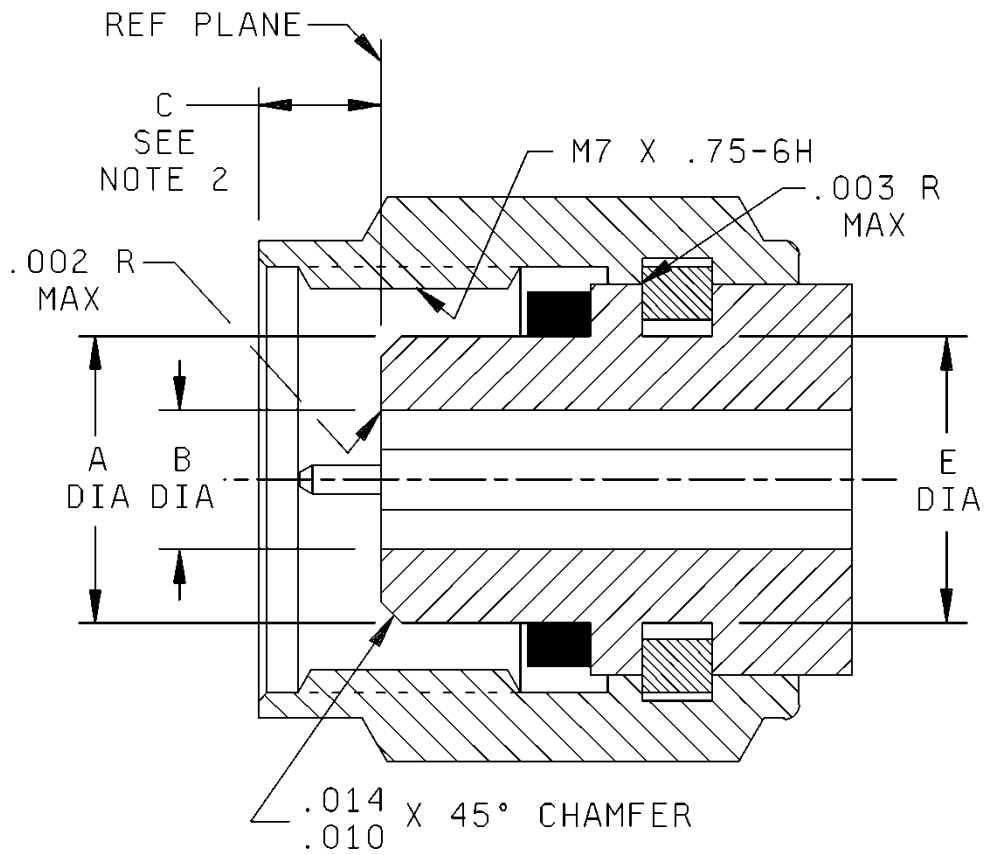


FIGURE 324-1. Interface dimensions (2.4 mm) pin contact.

## MIL-STD-348B

| Letter | Millimeters (Inches) |               |
|--------|----------------------|---------------|
|        | Minimum              | Maximum       |
| A      | 4.72 (.186)          | 4.75 (.187)   |
| B      | 2.39 (.094)          | 2.41 (.095)   |
| C      | 1.85 (.073)          | 2.44 (.096)   |
| E      | 4.75 (.187)          | 4.85 (.191)   |
| F      | 1.034 (.0407)        | 1.054 (.0415) |
| G      | 1.35 (.053)          | 1.45 (.057)   |
| H      | 0.498 (.0196)        | 0.523 (.0206) |
| J      | -----                | 0.25 (.010)   |
| K      | 0.00 (.000)          | 0.08 (.003)   |

## NOTES.:

1. Thread length is from the end of the coupling nut, 4.37 mm (.172 inch) minimum, 0.63 mm (.025 inch)  $\pm 0.25$  mm (.010 inch).
2. With coupling nut biased in the forward direction.
3. Dimensions are in millimeters.
4. Inch-pound equivalents are given for information only.
5. Counter bore 7 mm (.276 inch) minimum.

FIGURE 324-1. Interface dimensions (2.4 mm) pin contact – Continued.

MIL-STD-348B

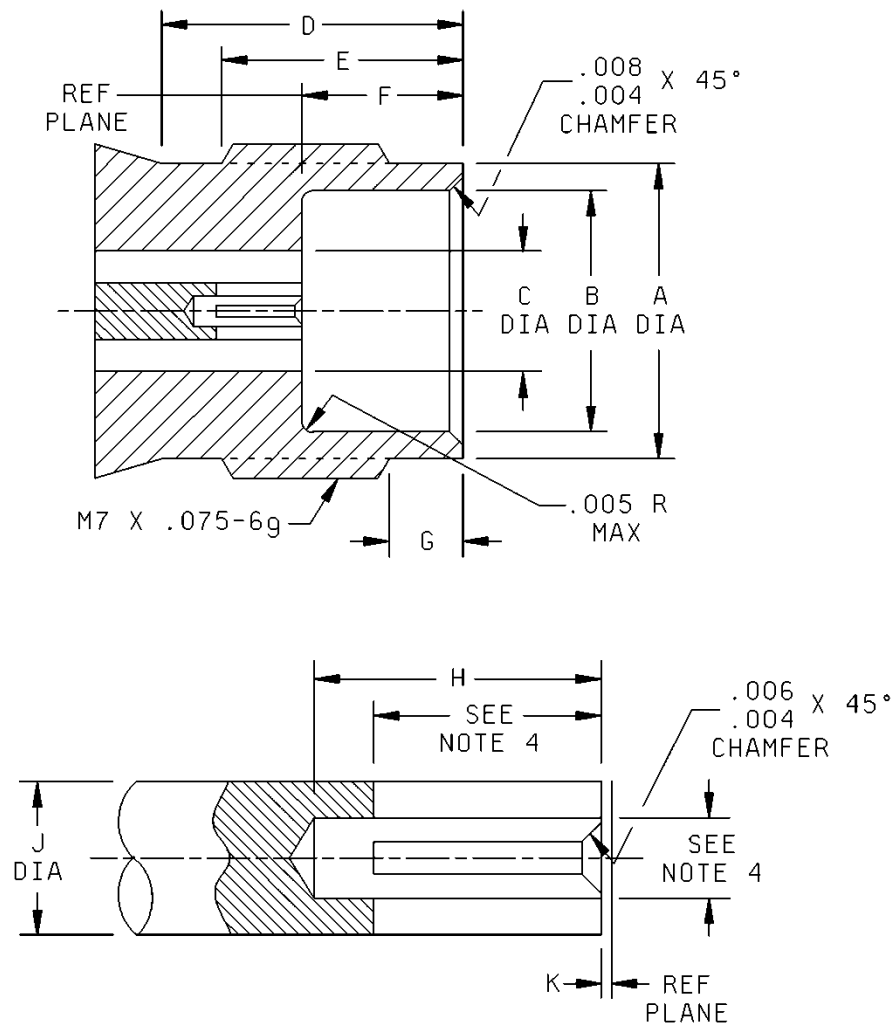


FIGURE 324-2. Interface dimensions (2.4 mm) socket contact.

## MIL-STD-348B

| Letter | Millimeters (Inches) |              |
|--------|----------------------|--------------|
|        | Minimum              | Maximum      |
| A      | 5.79 (.228)          | 5.89 (.232)  |
| B      | 4.77 (.1878)         | 4.80 (.1888) |
| C      | 2.39 (.094)          | 2.41 (.095)  |
| D      | 5.99 (.236)          | -----        |
| E      | 4.80 (.189)          | 5.05 (.199)  |
| F      | 3.00 (.118)          | 3.10 (.122)  |
| G      | 1.37 (.054)          | 1.63 (.064)  |
| H      | 2.64 (.104)          | -----        |
| J      | 1.03 (.0407)         | 1.05 (.0415) |
| K      | 0.00 (.000)          | 0.08 (.003)  |

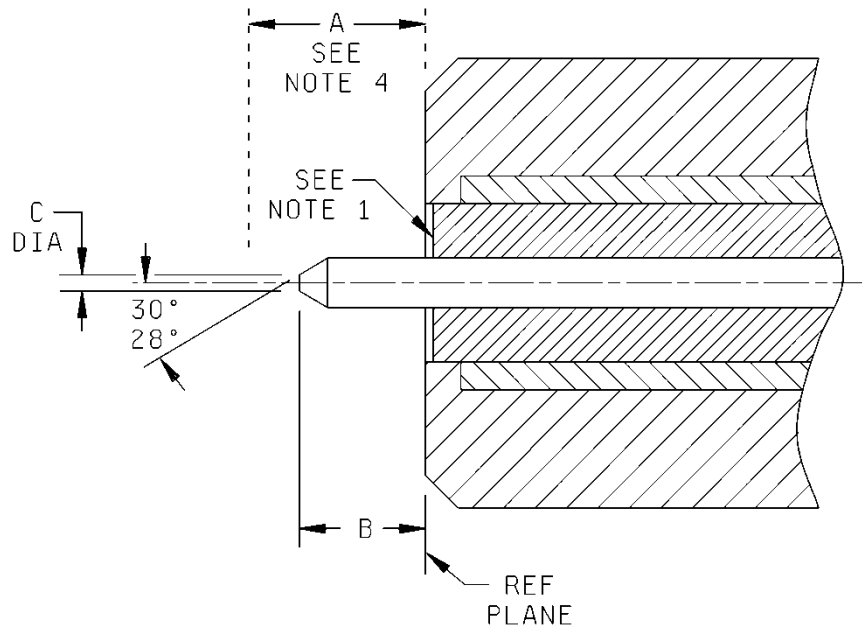
## NOTES:

1. Dimensions are in millimeters.
2. Inch-pound equivalents are given for information only.
3. Shall meet the electrical and mechanical performance when mated with a 2.4 mm pin as specified in this standard.

FIGURE 324-2. Interface dimensions (2.4 mm) socket contact – Continued.



## MIL-STD-348B



THE CABLE CENTER CONDUCTOR IS USED AS THE CENTER CONTACT PIN AND SHALL BE BETWEEN .0196/.0206 DIA.

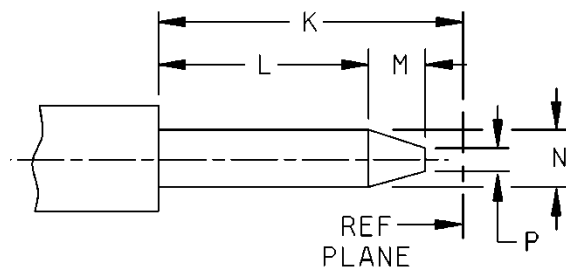
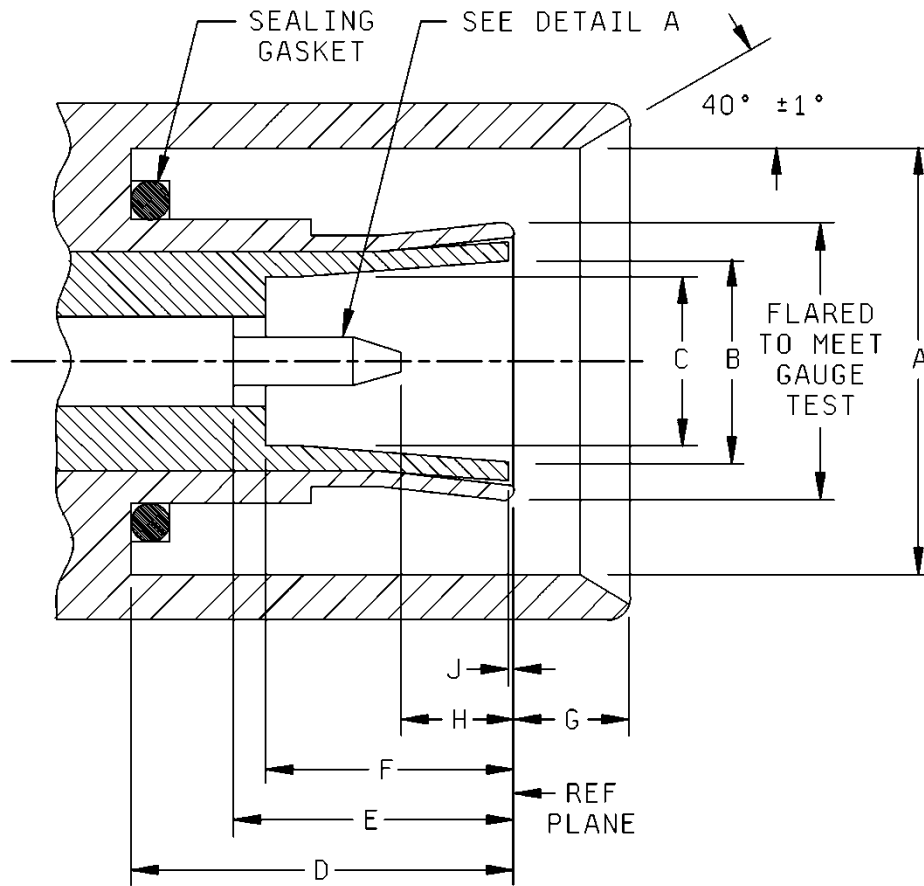
| Letter | Millimeters (Inches) |             |
|--------|----------------------|-------------|
|        | Minimum              | Maximum     |
| A      | 1.85 (.073)          | 2.44 (.096) |
| B      | 1.27 (.050)          | 1.45 (.057) |
| C      | -----                | 0.25 (.010) |

## NOTES.

1. Insulator to be flush to .0762mm (.003inch) below reference plane.
2. All unspecified dimensions to meet 2.4 mm pin contact.
3. See the manufacturers assembly instructions for cable preparation.
4. With coupling nut biased in the forward direction.

FIGURE 324-3. 2.4 mm Connector Interface without contact.

MIL-STD-348B



DETAIL A

FIGURE 325-1. Interface, series BMZ, pin contact.

## MIL-STD-348B

| Letter | Inches (mm)  |              |
|--------|--------------|--------------|
|        | Minimum      | Maximum      |
| A      | .184 (4.67)  | -----        |
| B      | .087 (2.21)  | -----        |
| C      | .062 (1.57)  | -----        |
| D      | .197 (5.00)  | .203 (5.16)  |
| E      | .130 (3.30)  | -----        |
| F      | .130 (3.30)  | -----        |
| G      | .055 (1.40)  | .065 (1.65)  |
| H      | .030 (0.76)  | -----        |
| J      | .000 (0.00)  | .010 (0.25)  |
| K      | .130 (3.30)  | -----        |
| L      | .060 (1.52)  | -----        |
| M      | .015 (0.38)  | -----        |
| N      | .0195 (0.50) | .0210 (0.53) |
| P      | -----        | .011 (0.28)  |

## NOTES:

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

FIGURE 325-1. Interface, series BMZ, pin contact – Continued.

MIL-STD-348B

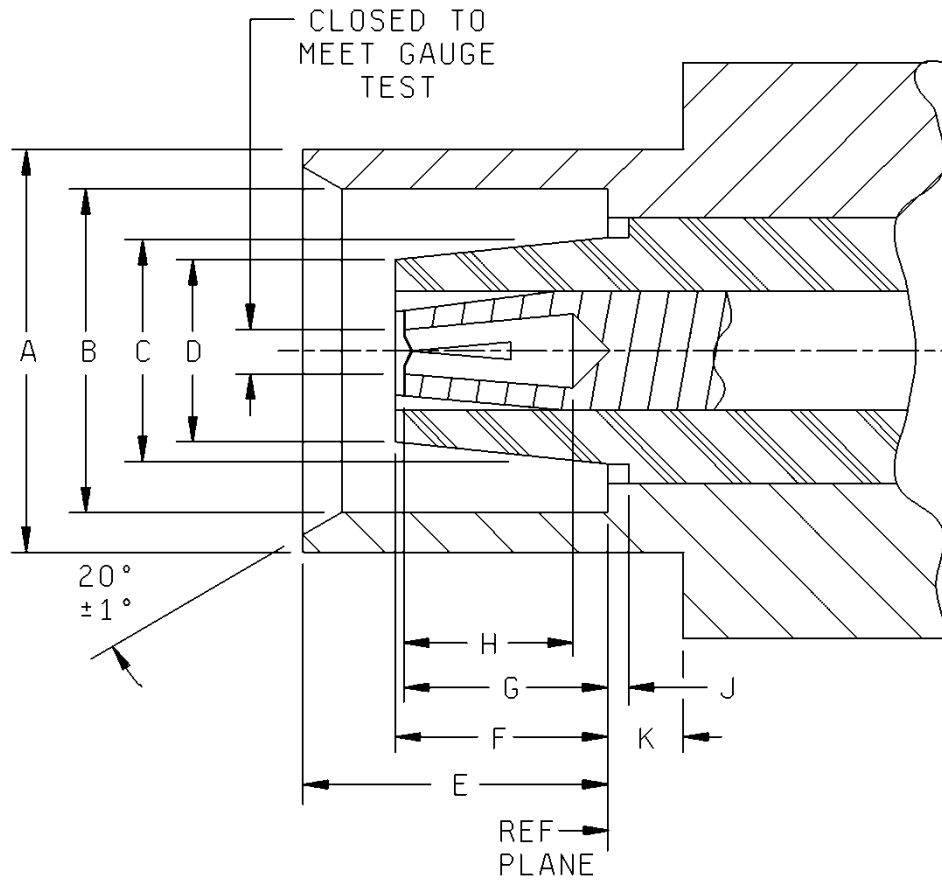


FIGURE 325-2. Interface, series BMZ, socket contact.

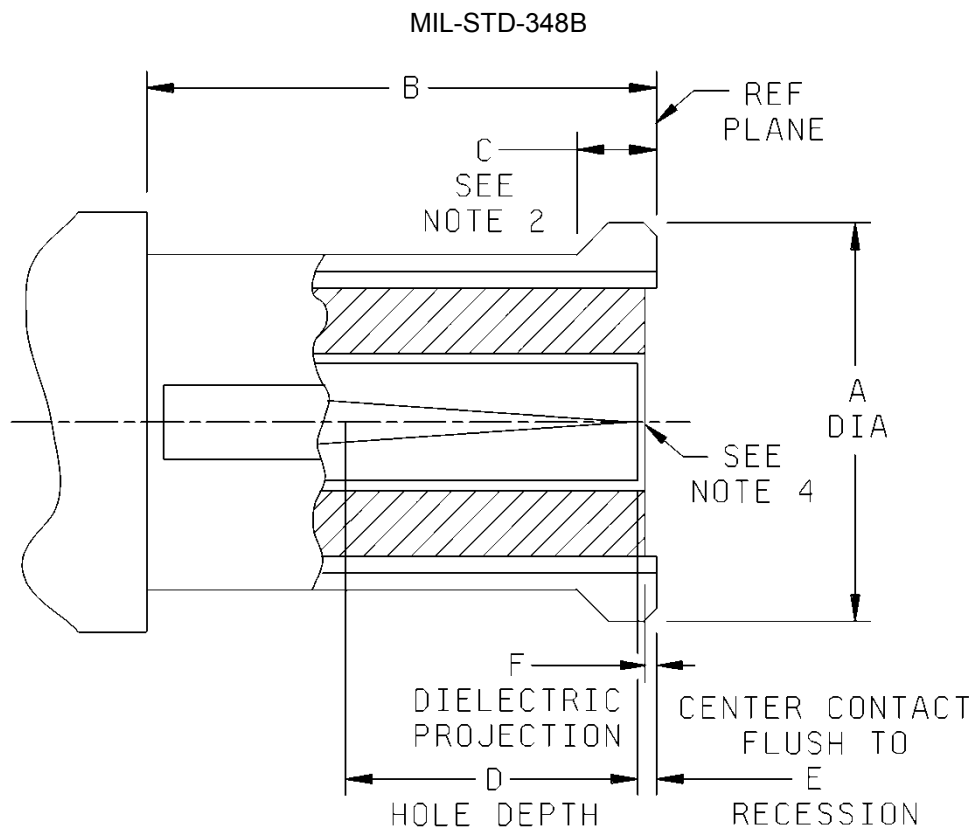
## MIL-STD-348B

| Letter | Inches (mm) |             |
|--------|-------------|-------------|
|        | Minimum     | Maximum     |
| A      | -----       | .182 (4.62) |
| B      | -----       | .131 (3.33) |
| C      | -----       | .087 (2.21) |
| D      | -----       | .062 (1.57) |
| E      | .182 (4.62) | .188 (4.78) |
| F      | -----       | .130 (3.30) |
| G      | -----       | .130 (3.30) |
| H      | .095 (2.41) | -----       |
| J      | .000 (0.00) | .010 (0.25) |
| K      | .070 (1.78) | -----       |

## NOTES:

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

FIGURE 325-2. Interface, series BMZ, socket contact – Continued.



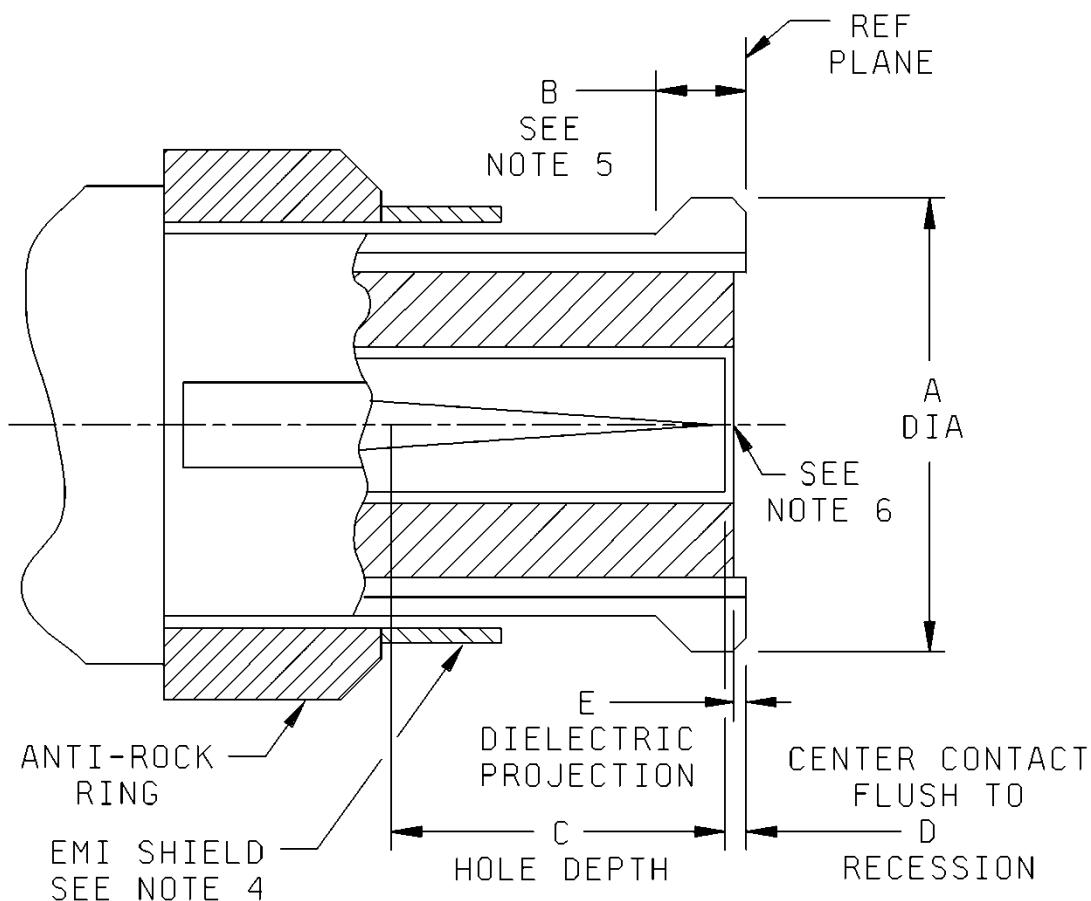
| Letter | Inches (mm) |             |
|--------|-------------|-------------|
|        | Minimum     | Maximum     |
| A      | -----       | .135 (3.43) |
| B      | .112 (2.84) | -----       |
| C      | .018 (0.46) | .025 (0.64) |
| D      | .070 (1.78) | -----       |
| E      | .008 (0.20) |             |
| F      | .000 (0.00) |             |

## NOTES:

1. Dimensions are in inches. Metric equivalents are given for information purposes only.
2. Form and dimension of outer conductor to meet electrical and mechanical requirements.
3. Interface shall meet the force to engage and disengage requirements in accordance with DSCC drawing 94007.
4. Dimension to meet force to engage and disengage in accordance with specification or drawing.

FIGURE 326-1. Interface, series SMP, socket contact (uncabled connector).

## MIL-STD-348B



| Letter | Inches (mm) |             |
|--------|-------------|-------------|
|        | Minimum     | Maximum     |
| A      | -----       | .135 (3.43) |
| B      | .025 (0.64) | .035 (0.89) |
| C      | .070 (1.78) | -----       |
| D      | .008 (0.20) |             |
| E      | .000 (0.00) |             |

## Notes:

1. Dimensions
2. Metric equivalents are given for information purposes only.
3. Interface shall meet the force to engage and disengage requirements in accordance with DSCC drawing 94008.
4. EMI shield configuration optional. Shall not prevent proper engagement with any required detent. To meet mechanical and electrical requirements of DSCC drawing 94008.
5. Form and dimension of outer conductor to meet electrical and mechanical requirements.
6. Dimension to meet force to engage and disengage in accordance with specification or drawing.

are in inches.

FIGURE 326-1a. Interface, series SMP, socket contact (cabled connector).

MIL-STD-348B

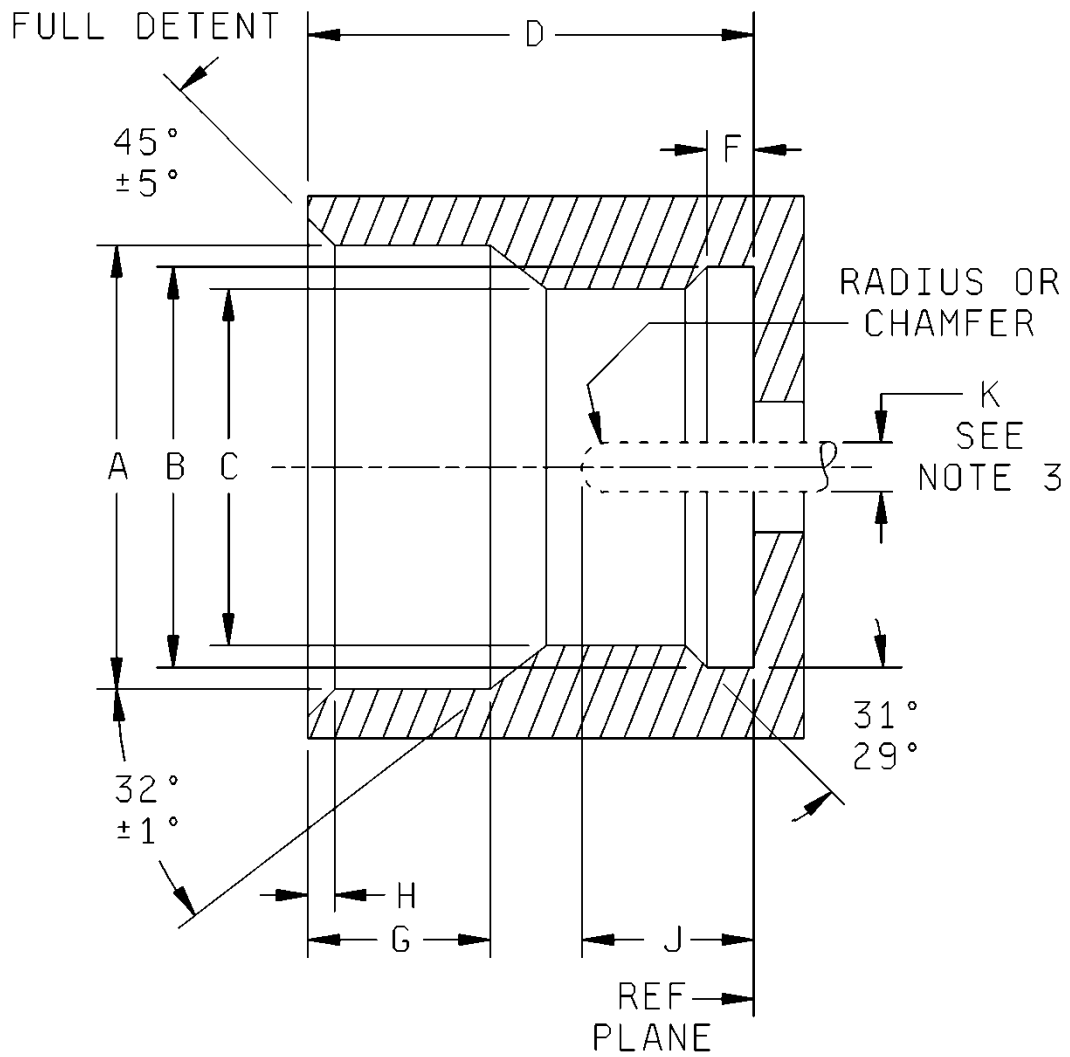


FIGURE 326-2. Interface, series SMP, pin contact, full detent.



## MIL-STD-348B

| Letter | Inches (mm)   |               |
|--------|---------------|---------------|
|        | Minimum       | Maximum       |
| A      | .139 (3.53)   | .145 (3.68)   |
| B      | .124 (3.15)   | .126 (3.20)   |
| C      | .115 (2.92)   | .117 (2.97)   |
| D      | .108 (2.74)   | .112 (2.84)   |
| F      | .0205 (0.521) | .0235 (0.597) |
| G      | .033 (0.84)   | .037 (0.94)   |
| H      | .003 (0.08)   | .008 (0.20)   |
| J      | .045 (1.14)   | .055 (1.40)   |
| K      | .014 (0.36)   | .016 (0.41)   |

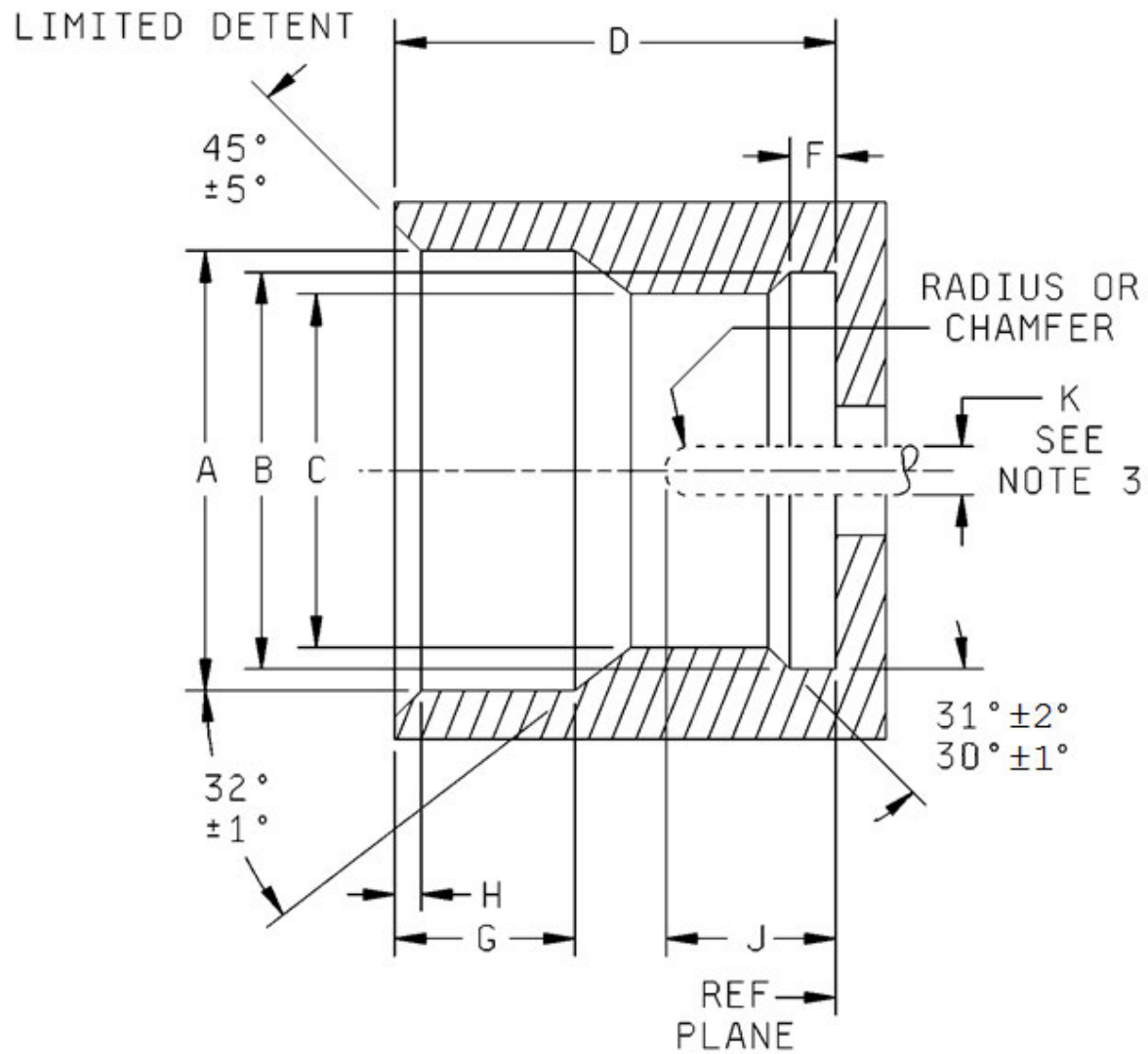
## NOTES:

1. Dimensions
2. Metric equivalents are given for information purposes only.
3. Pin may not be supplied with shroud, refer to the applicable specification.

are in inches.

FIGURE 326-2. Interface, series SMP, pin contact, full detent – Continued.

## MIL-STD-348B

FIGURE 326-3. Interface, series SMP, pin contact, limited detent.

## MIL-STD-348B

| Letter | Inches (mm)   |               |
|--------|---------------|---------------|
|        | Minimum       | Maximum       |
| A      | .139 (3.53)   | .145 (3.68)   |
| B      | .124 (3.15)   | .126 (3.20)   |
| C      | .119 (3.02)   | .121 (3.07)   |
| D      | .108 (2.74)   | .112 (2.84)   |
| F      | .0205 (0.521) | .0235 (0.597) |
| G      | .033 (0.84)   | .037 (0.94)   |
| H      | .003 (0.08)   | .008 (0.20)   |
| J      | .045 (1.14)   | .055 (1.40)   |
| K      | .014 (0.36)   | .016 (0.41)   |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only.
3. Pin may not be shipped with shroud, refer to applicable specification.

FIGURE 326-3. Interface, series SMP, pin contact, limited detent – Continued.

MIL-STD-348B

SMOOTH BORE

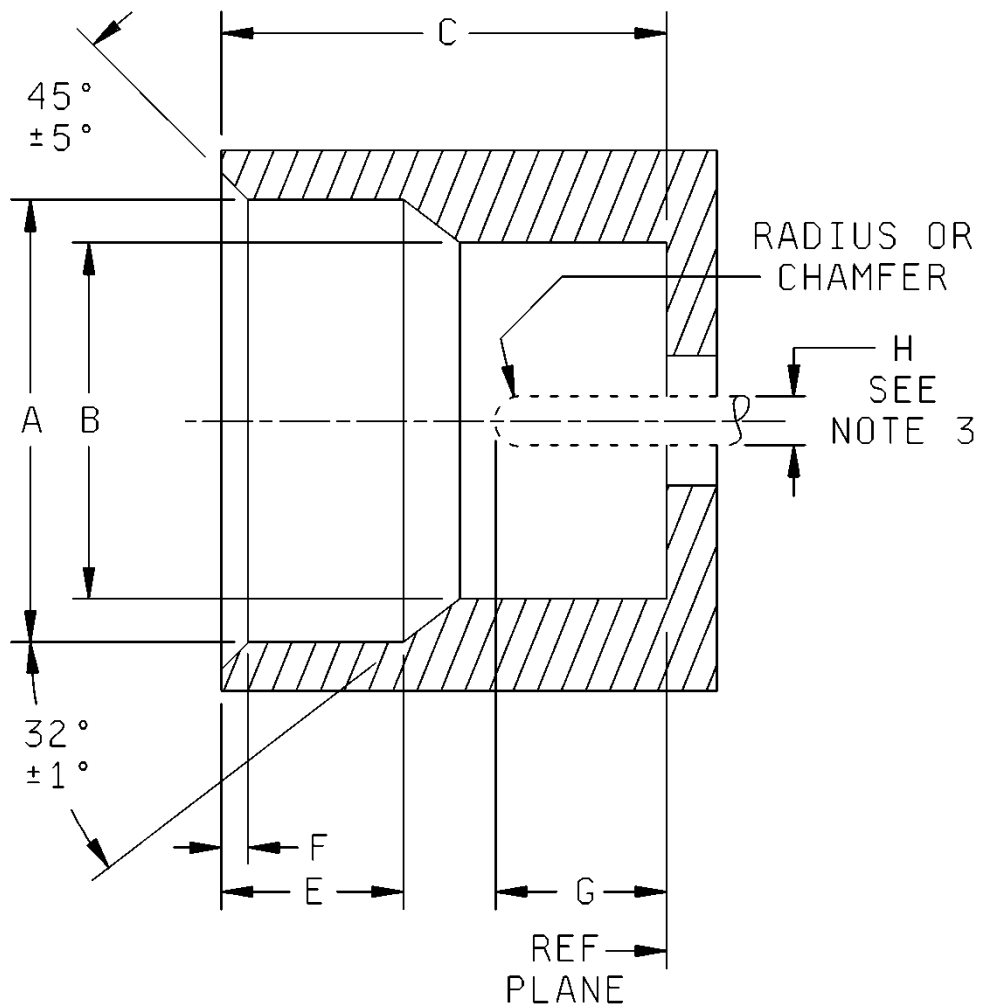


FIGURE 326-4. Interface, series SMP, pin contact, smooth bore.

## MIL-STD-348B

| Letter | Inches (mm)            |                        |
|--------|------------------------|------------------------|
|        | Minimum                | Maximum                |
| A      | .139 (3.53)            | .145 (3.68)            |
| B      | .124 (3.15)            | .126 (3.20)            |
| C      | .108 (2.74)            | .112 (2.84)            |
| D      | <del>.059 (1.50)</del> | <del>.065 (1.65)</del> |
| E      | .033 (0.84)            | .037 (0.94)            |
| F      | .003 (0.08)            | .008 (0.20)            |
| G      | .045 (1.14)            | .055 (1.40)            |
| H      | .014 (0.36)            | .016 (0.41)            |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only.
3. Pin may not be supplied with shroud, refer to applicable specification.

FIGURE 326-4. Interface, series SMP, pin contact, smooth bore – Continued.

MIL-STD-348B

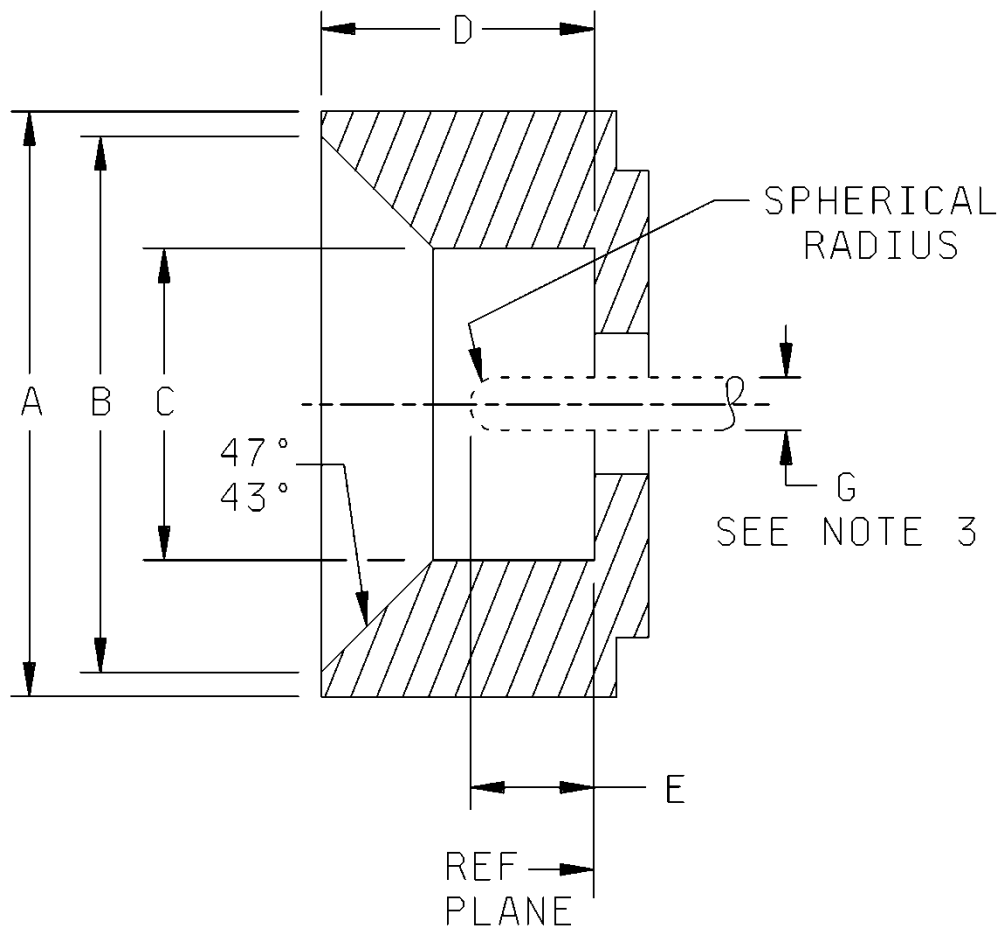


FIGURE 326-5. Interface, series SMP, pin contact, catchers mit.

## MIL-STD-348B

| Letter       | Inches (mm)            |                        |
|--------------|------------------------|------------------------|
|              | Minimum                | Maximum                |
| A            | .230 (5.84)            | .240 (6.10)            |
| B            | .212 (5.38)            | .218 (5.54)            |
| C            | .124 (3.15)            | .126 (3.20)            |
| D            | .108 (2.74)            | .112 (2.84)            |
| E            | .045 (1.14)            | .055 (1.40)            |
| F            | <del>.043 (1.09)</del> | <del>.047 (1.19)</del> |
| G see note 3 | .014 (0.36)            | .016 (.41)             |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only.
3. Pin may not be supplied with shroud, refer to applicable specification.

FIGURE 326-5. Interface, series SMP, pin contact, catchers mit – Continued.

MIL-STD-348B

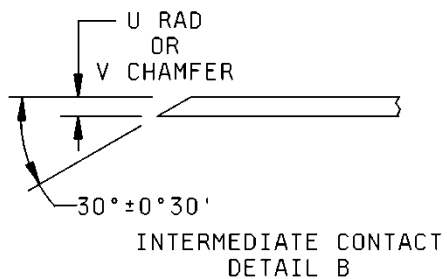
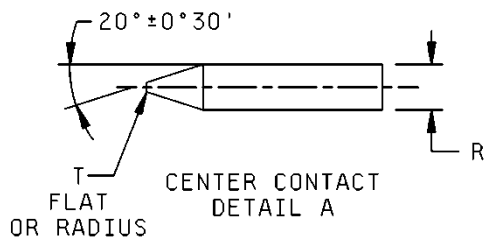
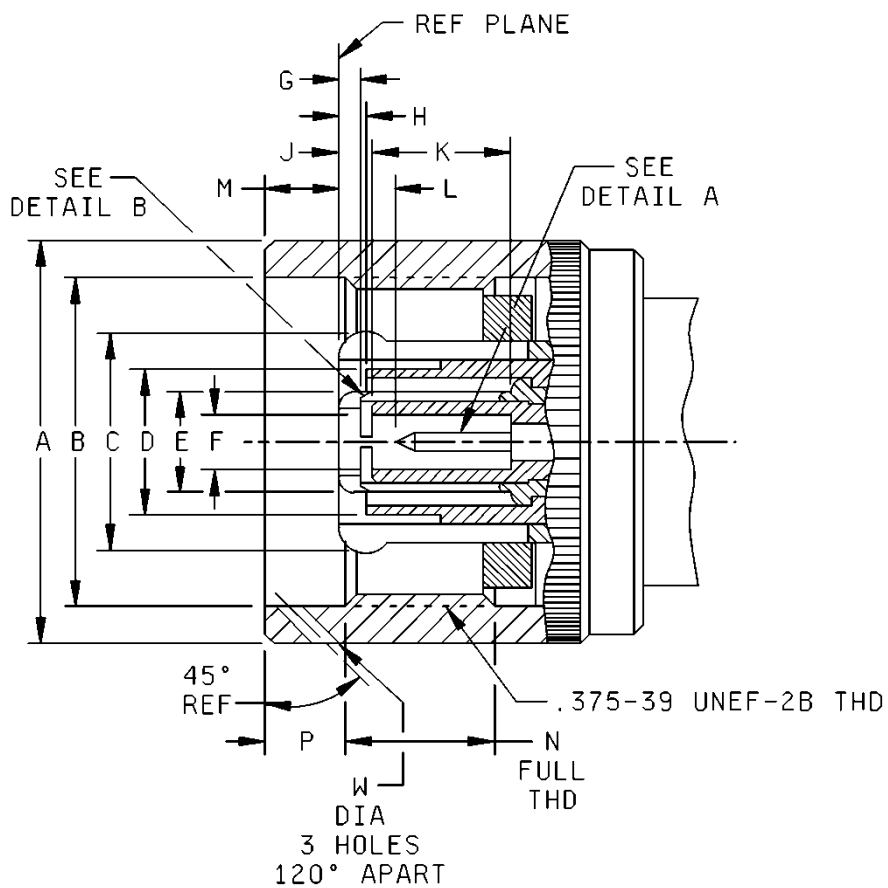


FIGURE 327-1. Interface, series DBA, pin contact.



## MIL-STD-348B

| Ltr. | Inches (millimeter) |              |
|------|---------------------|--------------|
|      | Min.                | Max.         |
| A    | -----               | .460 (11.68) |
| B    | .372 (9.45)         | .382 (9.70)  |
| C    | .250 (6.35)         | .256 (6.50)  |
| D    | .170 (4.32)         | .174 (4.42)  |
| E    | .124 (3.15)         | .128 (3.25)  |
| F    | .067 (1.70)         | .070 (1.78)  |
| G    | .015 (0.38)         | .038 (0.97)  |
| H    | .024 (0.61)         | -----        |
| J    | .009 (0.23)         | .037 (0.94)  |
| K    | .168 (4.27)         | -----        |
| L    | .040 (1.02)         | .066 (1.68)  |
| M    | -----               | .105 (2.67)  |
| N    | .156 (3.96)         | -----        |
| P    | .075 (1.91)         | .085 (2.16)  |
| R    | .017 (0.43)         | .020 (0.51)  |
| T    | -----               | .006 (0.15)  |
| U    | .005 (0.13)         | .010 (0.25)  |
| V    | .004 (0.10)         | .007 (0.18)  |
| W    | .027 (0.69)         | -----        |

## NOTES:

1. Metric equivalents are in parentheses.

FIGURE 327-1. Interface, series DBA, pin contact – Continued.

MIL-STD-348B

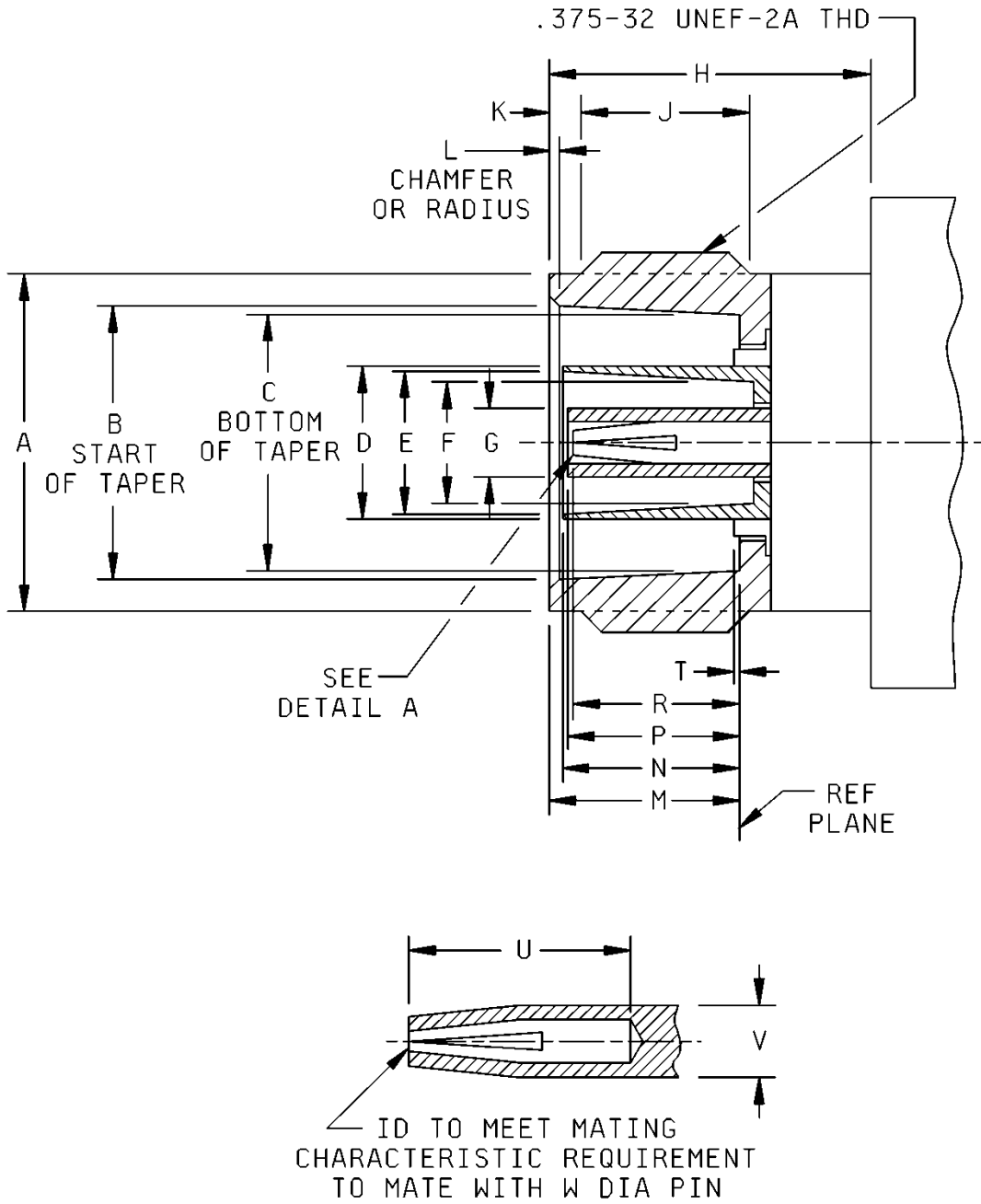


FIGURE 327-2. Interface, series DBA, socket contact.

## MIL-STD-348B

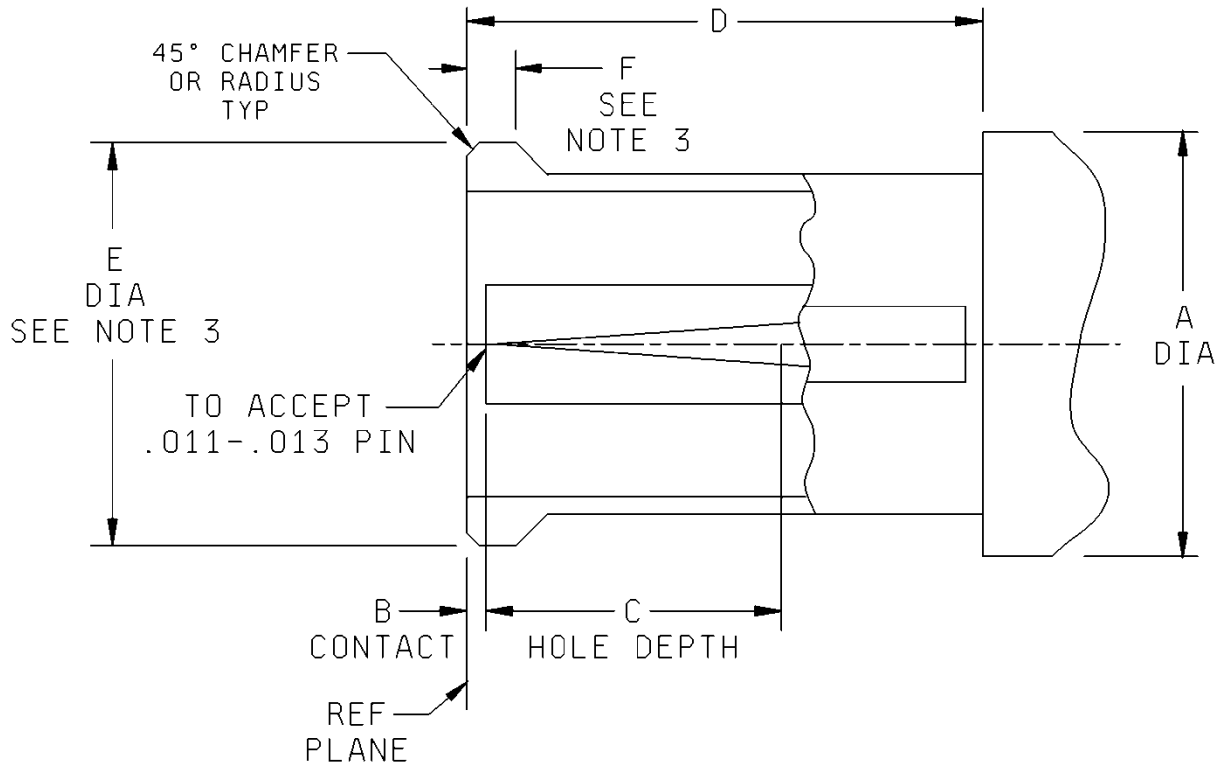
| Ltr. | Inches (millimeter) |             |
|------|---------------------|-------------|
|      | Min.                | Max.        |
| A    | .325 (8.26)         | .332 (8.43) |
| B    | .266 (6.76)         | .271 (6.88) |
| C    | .247 (6.27)         | .250 (6.35) |
| D    | .141 (3.58)         | .146 (3.71) |
| E    | .131 (3.33)         | .135 (3.43) |
| F    | .110 (2.79)         | .114 (2.90) |
| G    | .063 (1.60)         | .065 (1.65) |
| H    | .302 (7.67)         | -----       |
| J    | .150 (3.81)         | -----       |
| K    | .025 (0.64)         | .035 (0.89) |
| L    | .003 (0.08)         | .007 (0.18) |
| M    | .177 (4.50)         | .182 (4.62) |
| N    | .163 (4.14)         | .179 (4.55) |
| P    | -----               | .176 (4.47) |
| R    | .148 (3.76)         | .166 (4.22) |
| T    | -----               | .010 (0.25) |
| U    | .150 (3.81)         | .170 (4.32) |
| V    | .036 (0.91)         | .039 (0.99) |
| W    | .017 (0.43)         | .019 (0.48) |

## NOTES:

1. Metric equivalents are in parentheses.
2. When nut is biased fully forward the maximum dimension permitted is .060. When nut is biased fully back the minimum dimension is .016.

FIGURE 327-2. Interface, series DBA, socket contact - Continued.

## MIL-STD-348B



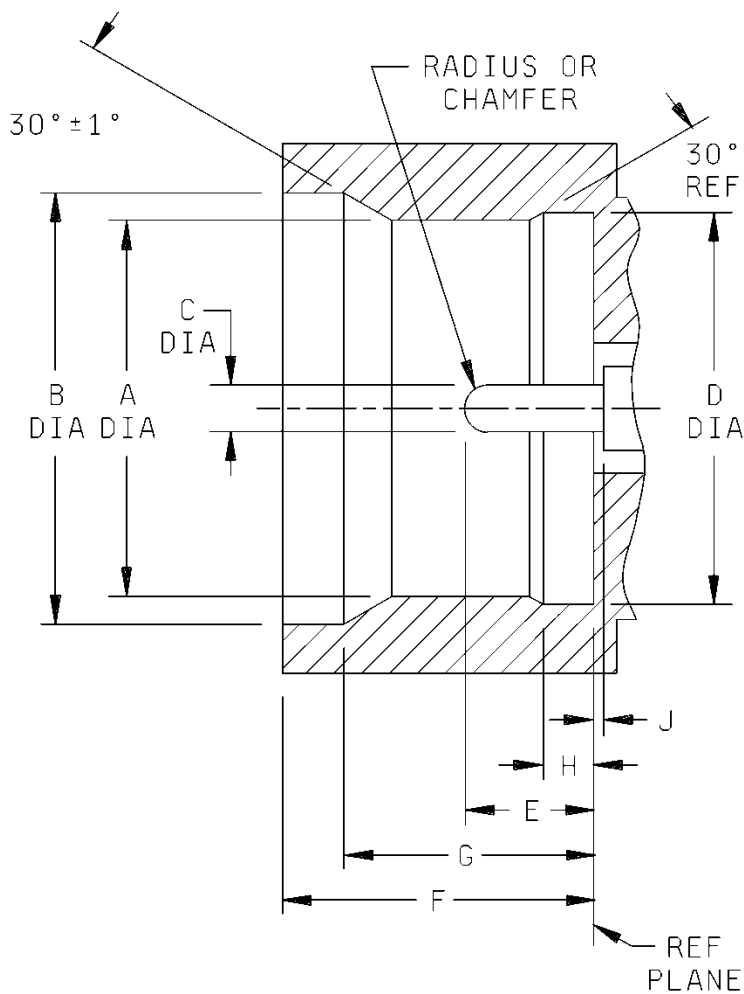
| Letter | Inches (mm) |             |
|--------|-------------|-------------|
|        | Minimum     | Maximum     |
| A dia. | -----       | .110 (2.79) |
| B      | .000 (0.00) | .008 (0.20) |
| C      | .050 (1.27) | -----       |
| D      | .068 (1.73) | -----       |
| E dia. | -----       | .095 (2.41) |
| F      | -----       | .023 (0.58) |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only.
3. Features to meet mechanical/electrical requirements when mated with SMPM pin interface.

FIGURE 328-1. Interface, series SMPM, socket contact.

MIL-STD-348B



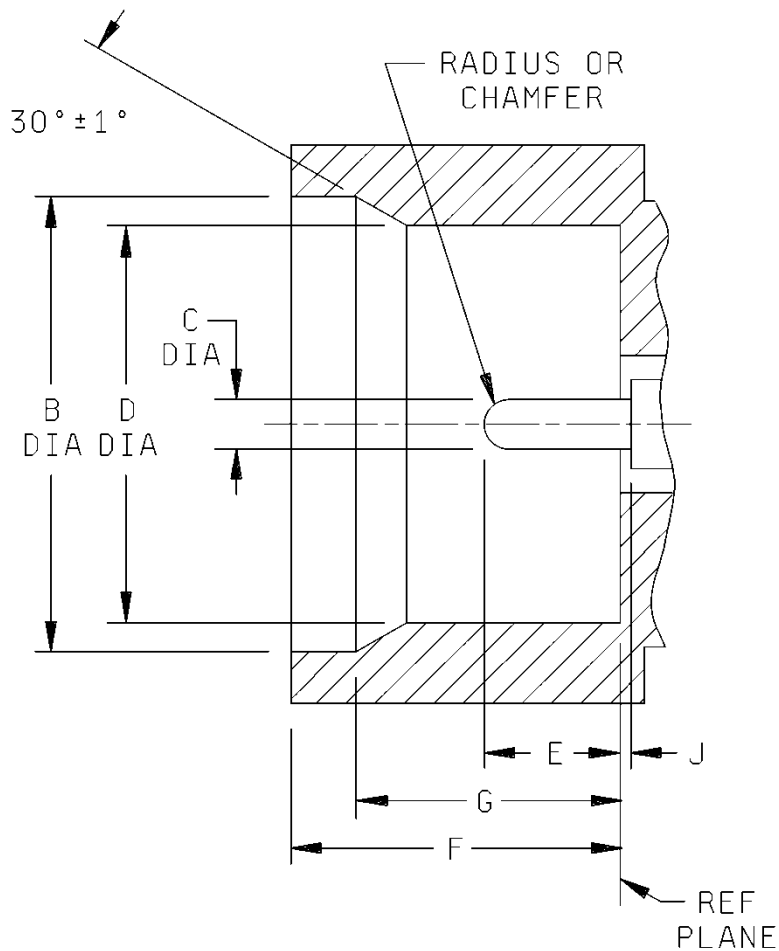
| Letter | Inches (mm) |             |
|--------|-------------|-------------|
|        | Minimum     | Maximum     |
| A dia. | .083 (2.11) | .085 (2.16) |
| B dia. | .111 (2.82) | .115 (2.92) |
| C dia. | .011 (0.28) | .013 (0.33) |
| D dia. | .086 (2.18) | .088 (2.24) |
| E      | .030 (0.76) | .045 (1.14) |
| F      | .082 (2.08) | .084 (2.13) |
| G      | .062 (1.57) | .072 (1.83) |
| H      | .021 (0.53) | .023 (0.58) |
| J      | .000 (0.00) | -----       |

NOTES:

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

FIGURE 328-2. Interface, series SMPM, pin contact, (full detent).

## MIL-STD-348B



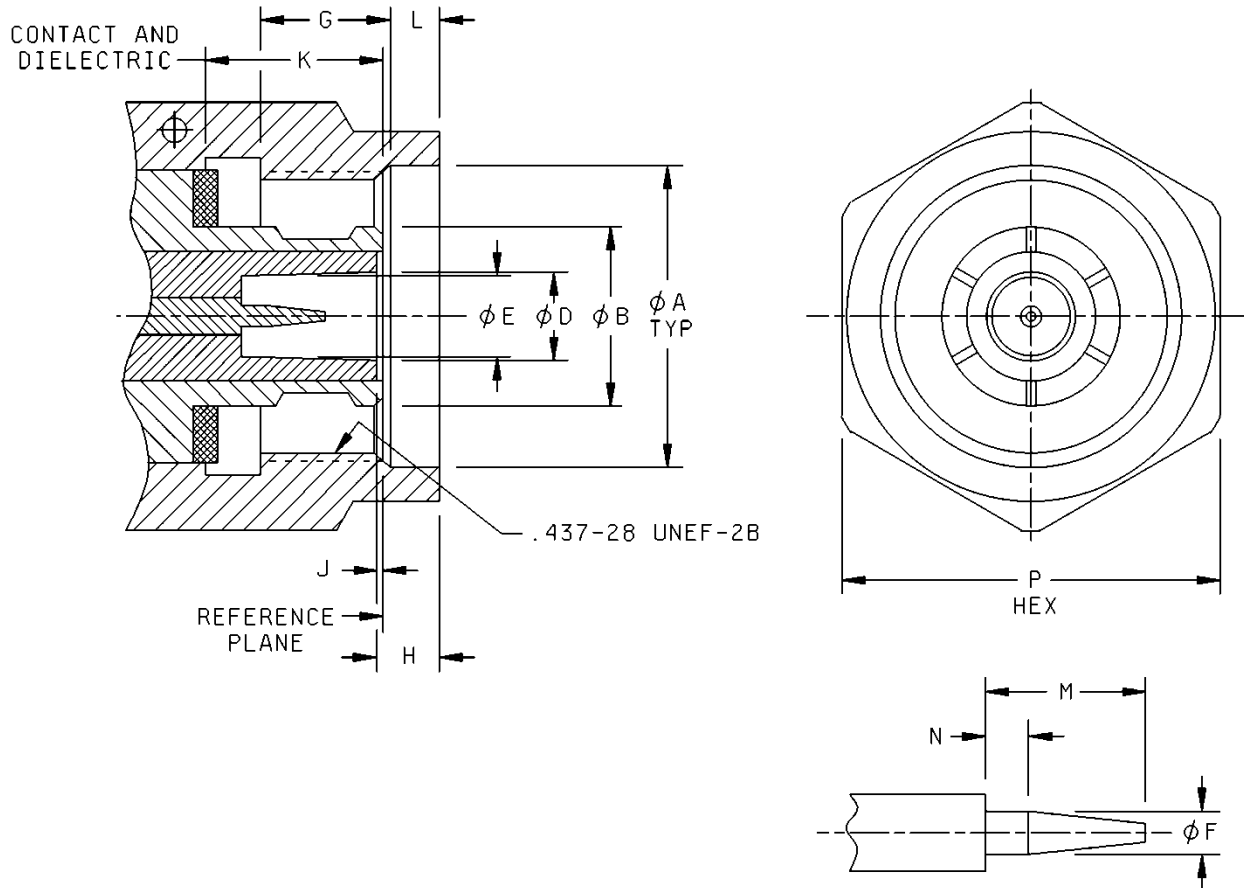
| Letter | Inches (mm) |             |
|--------|-------------|-------------|
|        | Minimum     | Maximum     |
| B dia. | .111 (2.82) | .115 (2.92) |
| C dia. | .011 (0.28) | .013 (0.33) |
| D dia. | .086 (2.18) | .088 (2.24) |
| E      | .030 (0.76) | .045 (1.14) |
| F      | .082 (2.08) | .084 (2.13) |
| G      | .062 (1.57) | .072 (1.83) |
| J      | .000 (0.00) | -----       |

## NOTES:

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

FIGURE 328-3. Interface, series SMPM, pin contact (smooth bore).

## MIL-STD-348B



| Letter | Inches (mm)   |               |
|--------|---------------|---------------|
|        | Minimum       | Maximum       |
| A dia. | .440 (11.18)  | -----         |
| B dia. | .242 (6.15)   | .246 (6.25)   |
| D dia. | .124 (3.15)   | .126 (3.20)   |
| E dia. | .114 (2.90)   | .116 (2.95)   |
| F dia. | .0335 (0.851) | .0345 (0.876) |
| G      | .175 (4.45)   | .215 (5.46)   |
| H      | .074 (1.88)   | .096 (2.44)   |
| J      | .000 (0.00)   | .004 (0.10)   |
| K      | .209 (5.31)   | .212 (5.38)   |
| L      | .065 (1.65)   | .085 (2.16)   |
| M      | .120 (3.05)   | .130 (3.30)   |
| N      | .030 (0.76)   | .040 (1.02)   |
| P      | .562 (14.27)  |               |

## NOTES:

1. When fully engage, the two reference planes must coincide with metal to metal contact.
2. Metric equivalents are given for information purposes only.

FIGURE 329-1. Interface, series TK, pin contact, slotted outer contact.

## MIL-STD-348B

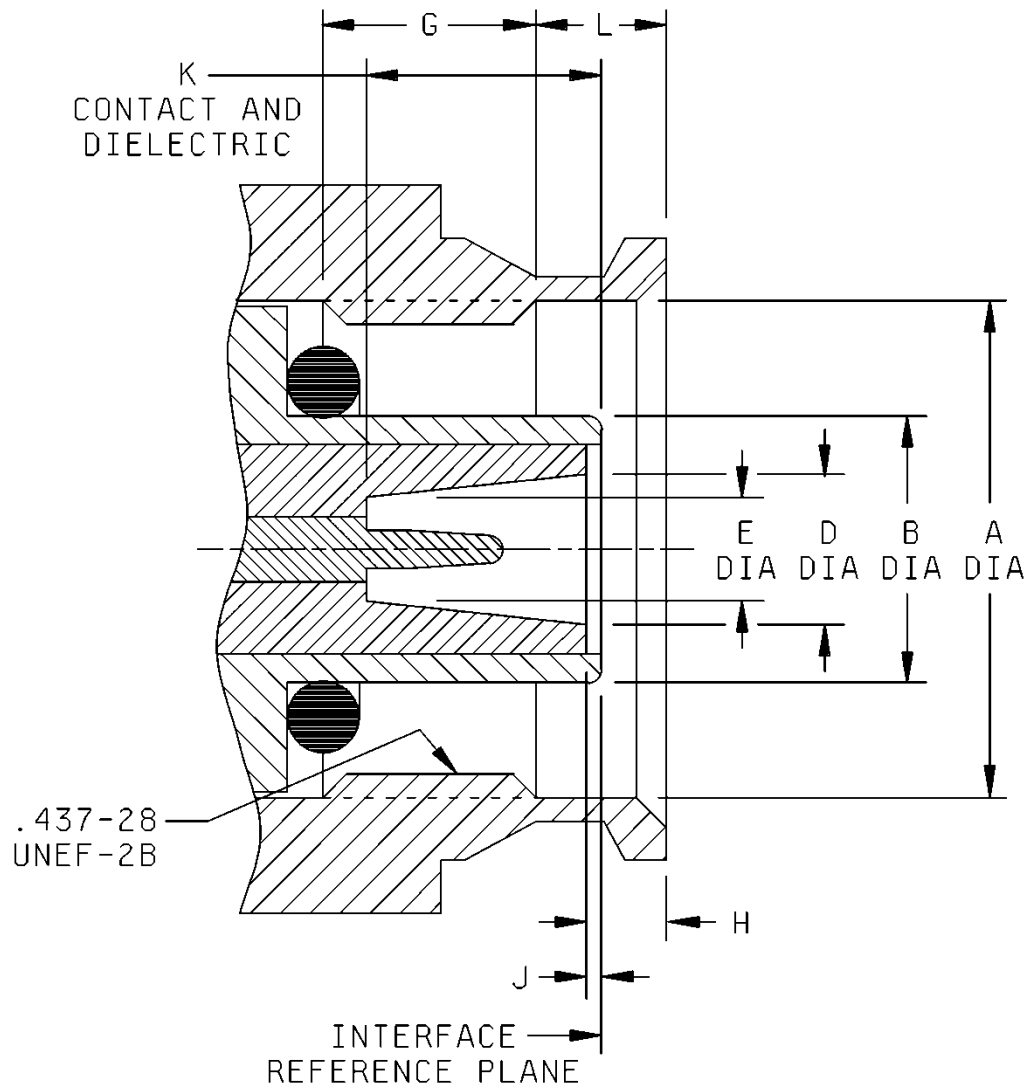
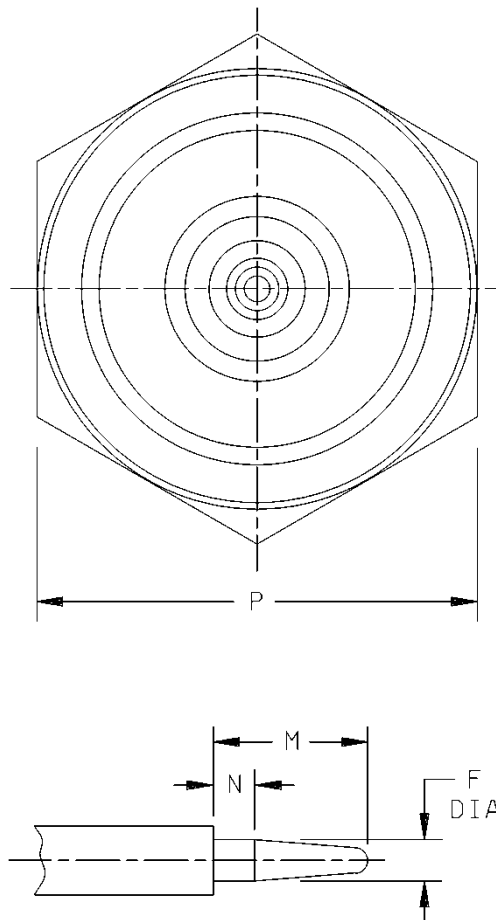


FIGURE 329-1a. Interface, series TK, pin contact, unslotted outer contact.



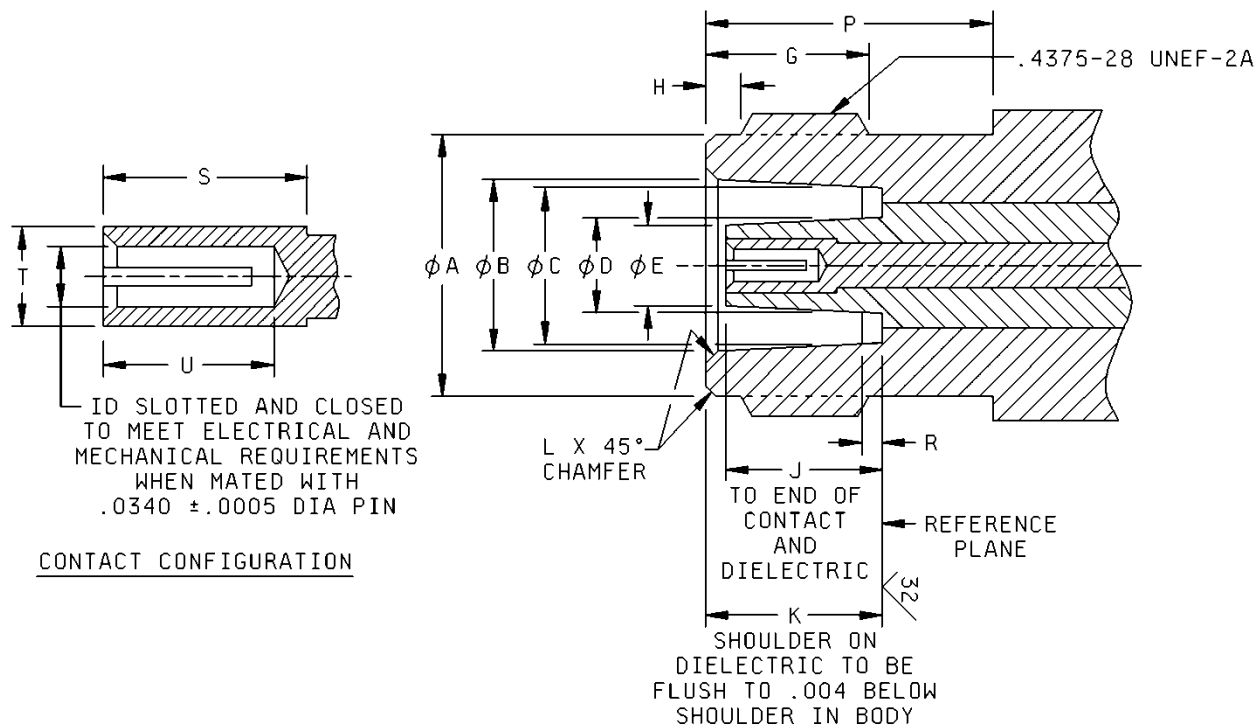
## MIL-STD-348B



| Letter | Inches (mm)   |               |
|--------|---------------|---------------|
|        | Minimum       | Maximum       |
| A      | .440 (11.18)  | -----         |
| B      | .2370 (6.020) | .2380 (6.045) |
| D      | .124 (3.15)   | .126 (3.20)   |
| E      | .114 (2.90)   | .116 (2.95)   |
| F      | .0335 (0.851) | .0345 (0.876) |
| G      | .173 (4.39)   | .215 (5.46)   |
| H      | .074 (1.88)   | .095 (2.44)   |
| J      | .000 (0.00)   | .004 (0.10)   |
| K      | .209 (5.31)   | .212 (5.38)   |
| L      | .063 (1.60)   | .085 (2.16)   |
| M      | .120 (3.05)   | .130 (3.30)   |
| N      | .030 (0.76)   | .040 (1.02)   |

FIGURE 329-1a. Interface, series TK, pin contact, unslotted outer contact – Continued.

## MIL-STD-348B



| Letter | Inches (mm)   |               |
|--------|---------------|---------------|
|        | Minimum       | Maximum       |
| A dia. | .365 (9.27)   | .375 (9.53)   |
| B dia. | .250 (6.35)   | .255 (6.48)   |
| C dia. | .239 (6.07)   | .241 (6.12)   |
| D dia. | .122 (3.10)   | .124 (3.15)   |
| E dia. | .112 (2.84)   | .114 (2.90)   |
| G      | .235 (5.97)   | .245 (6.22)   |
| H      | .055 (1.40)   | .065 (1.65)   |
| J      | .205 (5.21)   | .208 (5.28)   |
| K      | .227 (5.77)   | .233 (5.92)   |
| L      | .010 (0.25)   | .020 (0.51)   |
| P      | .340 (8.64)   | -----         |
| R      | .025 (0.64)   | .035 (0.89)   |
| S      | .120 (3.05)   | .130 (3.30)   |
| T      | .0567 (1.440) | .0577 (1.466) |
| U      | .145 (3.68)   | -----         |

## NOTES:

1. When fully engaged, the two reference planes must coincide with metal to metal contact.
2. Metric equivalents are given for information purposes only.

FIGURE 329-2. Interface, series TK. socket contact.

MIL-STD-348B

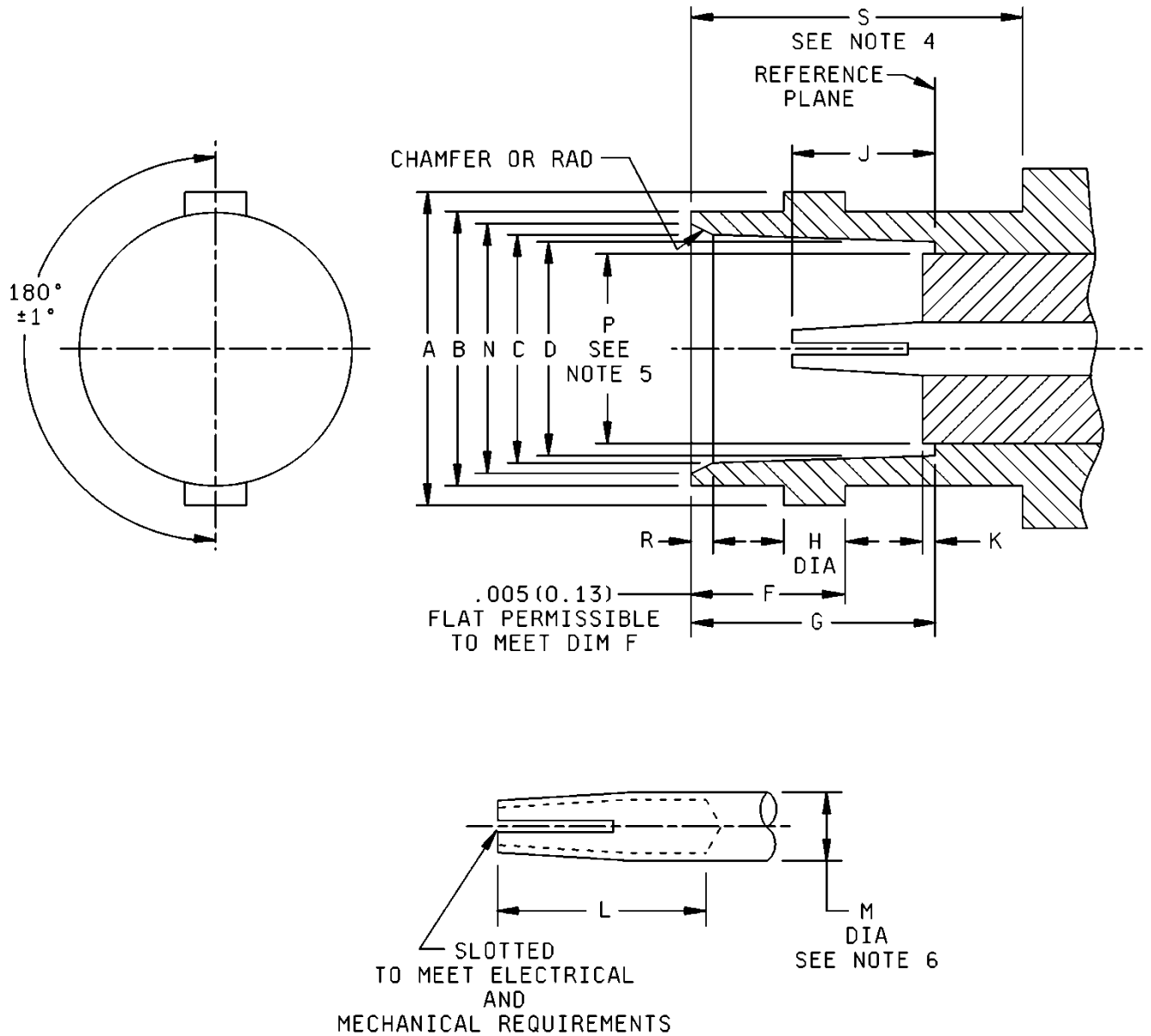


FIGURE 330-1. Interface, series BNC, socket contact, 75 ohm.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)  |              |
|------------|--------------|--------------|
|            | Minimum      | Maximum      |
| A          | .432 (10.97) | .436 (11.07) |
| B          | .378 (9.60)  | .382 (9.70)  |
| C          | .327 (8.31)  | .333 (8.46)  |
| D          | .319 (8.10)  | .321 (8.15)  |
| F          | .204 (5.18)  | .208 (5.28)  |
| G          | .327(8.31)   | .335 (8.51)  |
| H          | .075 (1.91)  | .081 (2.06)  |
| J          | .186 (4.72)  | .206 (5.23)  |
| K          | -----        | .006 (0.15)  |
| L          | .195 (4.95)  | -----        |
| M          | .081 (2.06)  | .087 (2.21)  |
| N          | .346 (8.79)  | .356 (9.04)  |
| P          | -----        | .256 (6.50)  |
| R          | .015 (0.38)  | .030 (0.76)  |
| S          | .414 (10.52) | -----        |

## NOTES:

1. Dimensions are in inches. Metric equivalents are in parentheses.
2. Metric equivalents are given for general information only.
3. This interface shall meet the gauge requirements as specified in DSCC drawing or specification.
4. Clearance for mating connector coupling nut.
5. "P" dimension applies to that portion (if applicable) of dielectric which extends beyond references planes by dimension K.
6. "M" applies only over length "L".

FIGURE 330-1. Interface, series BNC, socket contact, 75 ohm – Continued.

MIL-STD-348B

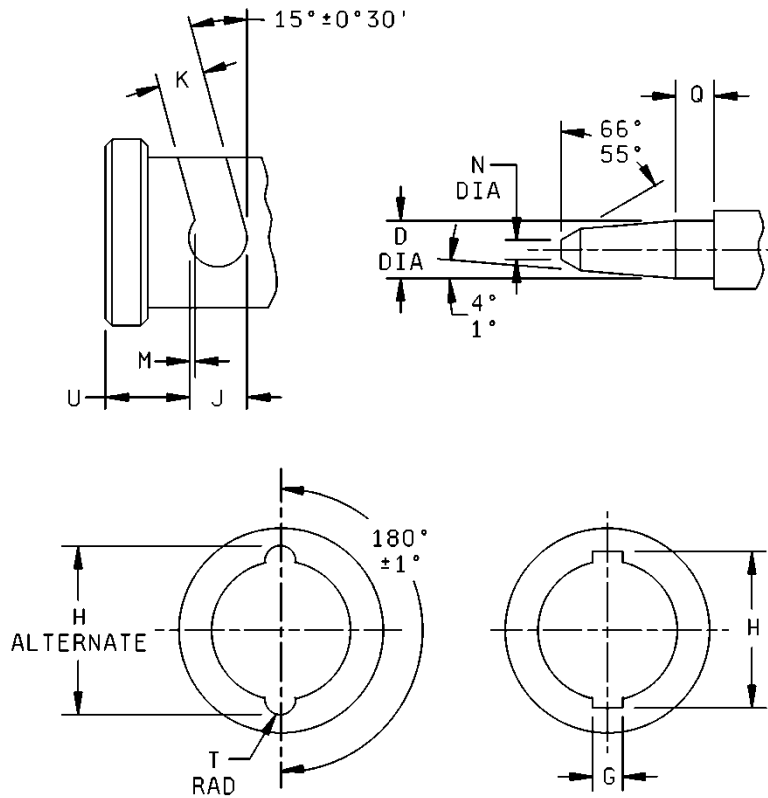
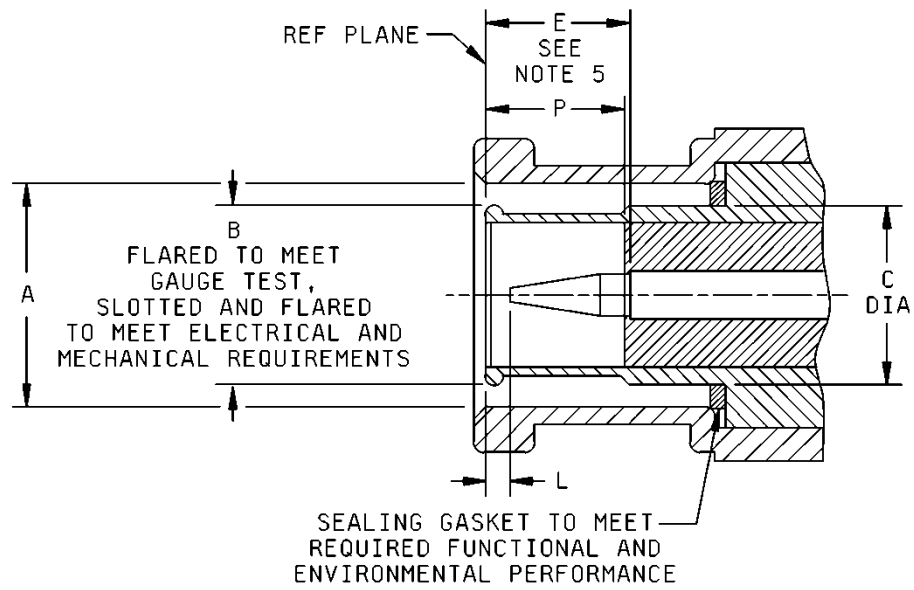


FIGURE 330-2. Interface, series BNC, pin contact, 75 ohm.

## MIL-STD-348B

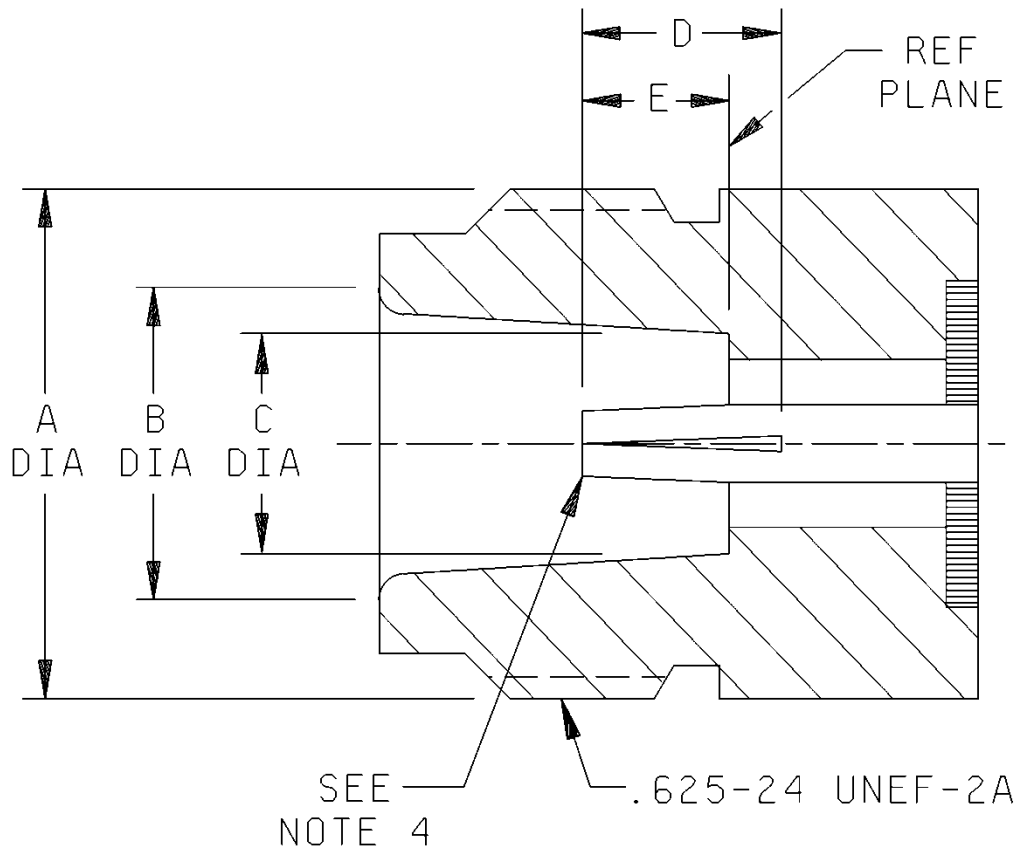
| Dim<br>Ltr  | Inches (mm)  |              |
|-------------|--------------|--------------|
|             | Minimum      | Maximum      |
| A           | .385 (9.78)  | .390 (9.91)  |
| B           | Gauge test   |              |
| D           | .052 (1.32)  | .054 (1.37)  |
| E           | .210 (5.33)  | .230 (5.84)  |
| G           | .091 (2.31)  | .097 (2.46)  |
| H           | .463 (11.76) | .473 (12.01) |
| H alternate | .394 (10.01) | .400 (10.16) |
| J           | .124 (3.15)  | -----        |
| K           | .091 (2.31)  | .097 (2.46)  |
| L           | .003 (0.08)  | -----        |
| M           | .018 (0.46)  | .022 (0.56)  |
| N           | -----        | .025 (0.64)  |
| P           | .208 (5.28)  | -----        |
| Q           | .078 (1.98)  | -----        |
| T           | .045 (1.14)  | .049 (1.24)  |
| U           | .180 (4.57)  | .184 (4.67)  |

## NOTES:

1. Dimensions are in inches. Metric equivalents are in parentheses.
2. Metric equivalents are given for general information only.
3. In the mated condition, the longitudinal force of the spring of the coupling mechanism shall exceed the pressure exerted by the sealing gasket by an amount necessary to insure butting of the outer contacts at the reference plane.
4. This interface shall meet the gauge requirements as specified.

FIGURE 330-2. Interface, series BNC, pin contact, 75 ohm – Continued.

## MIL-STD-348B

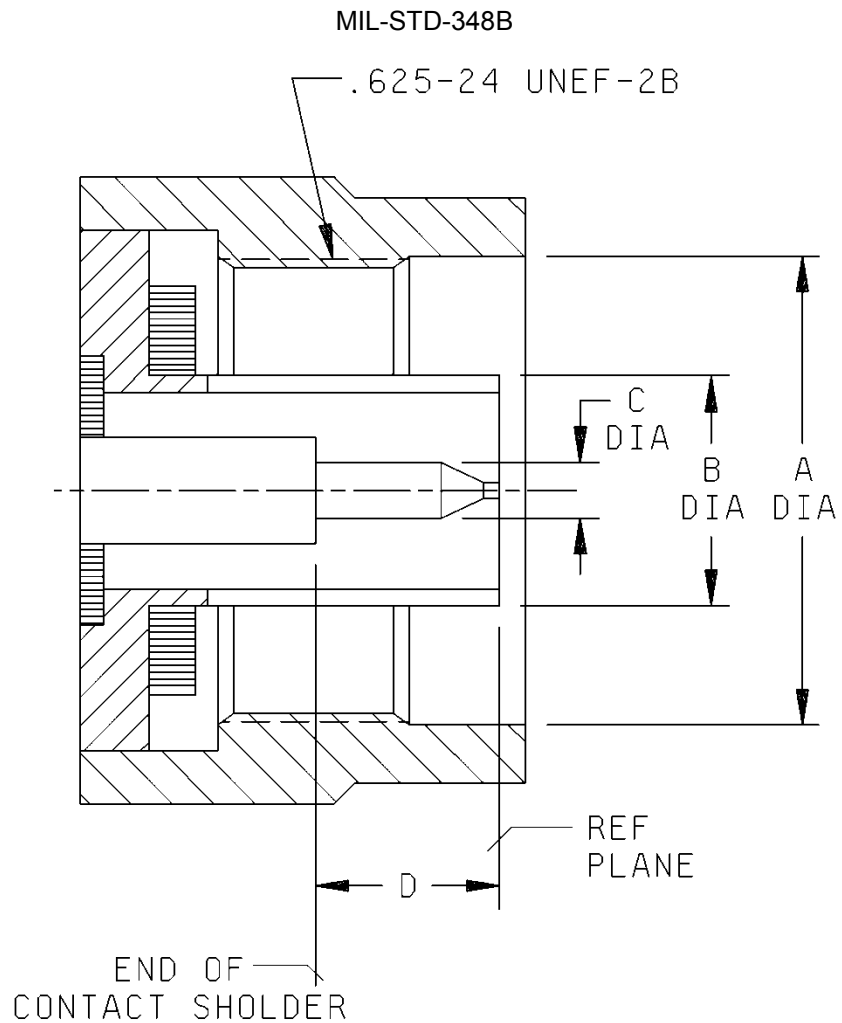


| Letter | Inches (mm) |              |
|--------|-------------|--------------|
|        | Minimum     | Maximum      |
| A      | -----       | .627 (15.93) |
| B      | .336 (8.53) | .344 (8.74)  |
| C      | .316 (8.03) | .320 (8.13)  |
| D      | .210 (5.33) | -----        |
| E      | .187 (4.75) | .207 (5.26)  |

## NOTES:

1. Dimensions are in inches. Metric equivalents are in parentheses.
2. Metric equivalents are given information only.
3. Utilizes standard 50Ω body with 75Ω contact/air dielectric configuration.
4. ID to meet contact resistance, mating characteristics and connector durability when mated with a .036/.037 (0.091/0.094 mm).

FIGURE 331-1. Interface, series N, socket contact, 75 ohm.



| Letter | Inches (mm)  |             |
|--------|--------------|-------------|
|        | Minimum      | Maximum     |
| A      | .630 (16.00) | -----       |
| B      | -----        | .330 (8.38) |
| C      | .036 (0.91)  | .037 (0.94) |
| D      | .210 (5.33)  | .230 (5.84) |

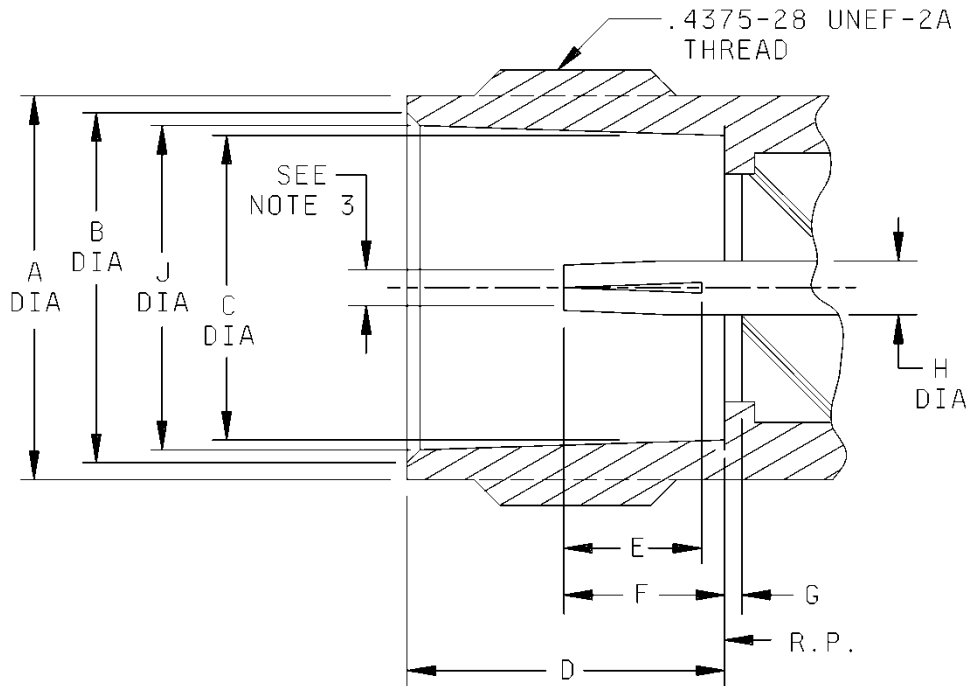
## NOTES:

1. Dimensions are in inches. Metric equivalents are in parentheses.
2. Metric equivalents are given for information only.
3. Utilizes standard 50Ω body with 75Ω contact/air dielectric configuration.

FIGURE 331-1. Interface, series N, pin contact, 75 ohm.



## MIL-STD-348B



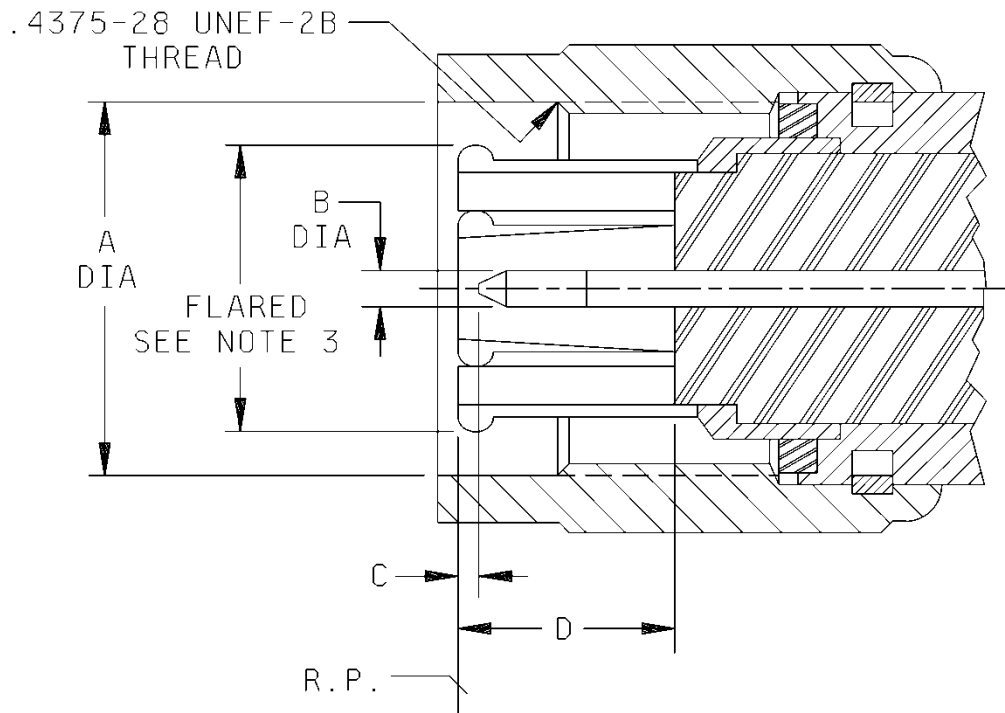
| Letter | Inches (mm) |             |
|--------|-------------|-------------|
|        | Minimum     | Maximum     |
| A      | .378 (9.60) | .381 (9.68) |
| B      | .346 (8.79) | .356 (9.04) |
| C      | .319 (8.10) | .321 (8.15) |
| D      | .327 (8.31) | .335 (8.51) |
| E      | .195 (4.95) | -----       |
| F      | .186 (4.72) | .206 (5.23) |
| G      | .000 (0.00) | -----       |
| H      | .081 (2.06) | .087 (2.21) |
| J      | .327 (8.31) | .333 (8.46) |

## NOTES:

1. Dimensions are in inches. Metric equivalents are in parentheses.
2. Metric equivalents are given information only.
3. ID to meet contact resistance, mating characteristics and connector durability when mated with a .052/.054 (0.091/0.094 mm).
4. Utilizes standard 50Ω body with 75Ω contact/air dielectric configuration.

FIGURE 332-1. Interface, series TNC, socket contact, 75 ohm.

## MIL-STD-348B



| Letter | Inches (mm)  |             |
|--------|--------------|-------------|
|        | Minimum      | Maximum     |
| A      | .440 (11.18) | -----       |
| B      | .052 (1.32)  | .054 (1.37) |
| C      | .003 (0.08)  | .040 (1.02) |
| D      | .208 (5.28)  | -----       |

## NOTES:

1. Dimensions are in inches. Metric equivalents are in parentheses.
2. Metric equivalents are given for information only.
3. Utilizes standard 50Ω body with 50Ω contact dia./75Ω air dielectric configuration. See standard 50 ohm TNC pin contact interface in this military standard.

FIGURE 332-1. Interface, series TNC, pin contact, 75 ohm.

MIL-STD-348B

SECTION 400

Interface Dimensions for MIL-DTL-39012, MIL-DTL-55339 and MIL-DTL-83517

|             |            |
|-------------|------------|
| Section 401 | Series C   |
| Section 402 | Series N   |
| Section 403 | Series SC  |
| Section 404 | Series BNC |
| Section 405 | Series SMA |
| Section 406 | Series TNC |
| Section 407 | Series SMB |
| Section 408 | Series SMC |
| Section 409 | Series QNC |
| Section 410 | Series QSC |

MIL-STD-348B

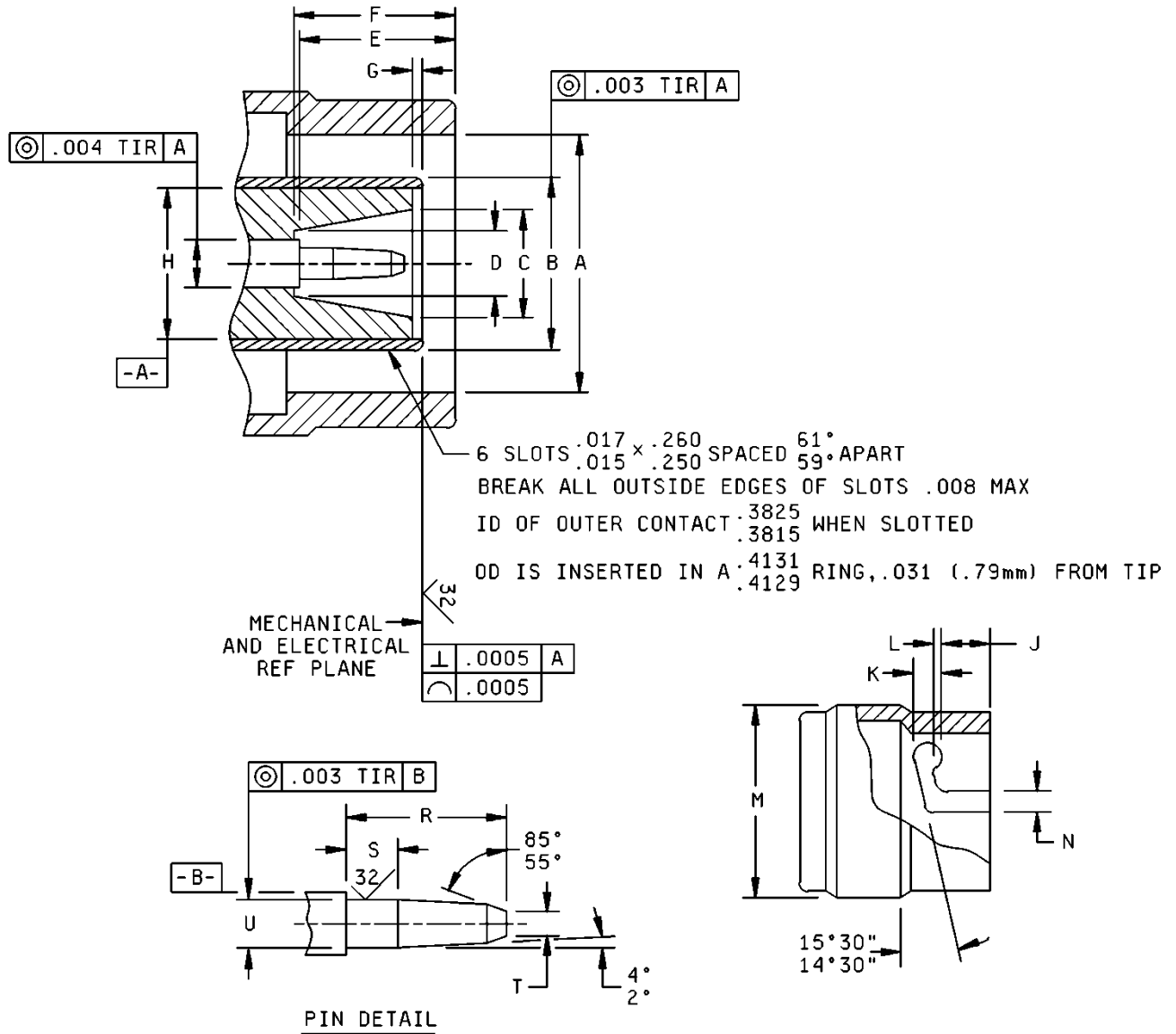


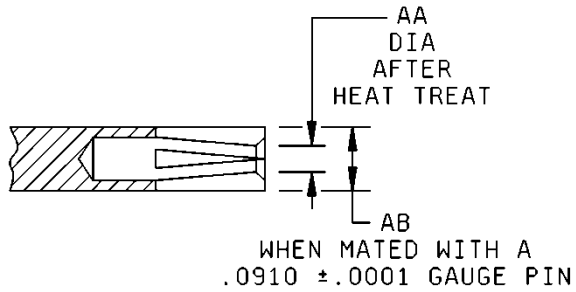
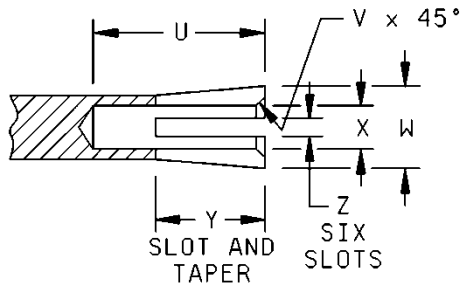
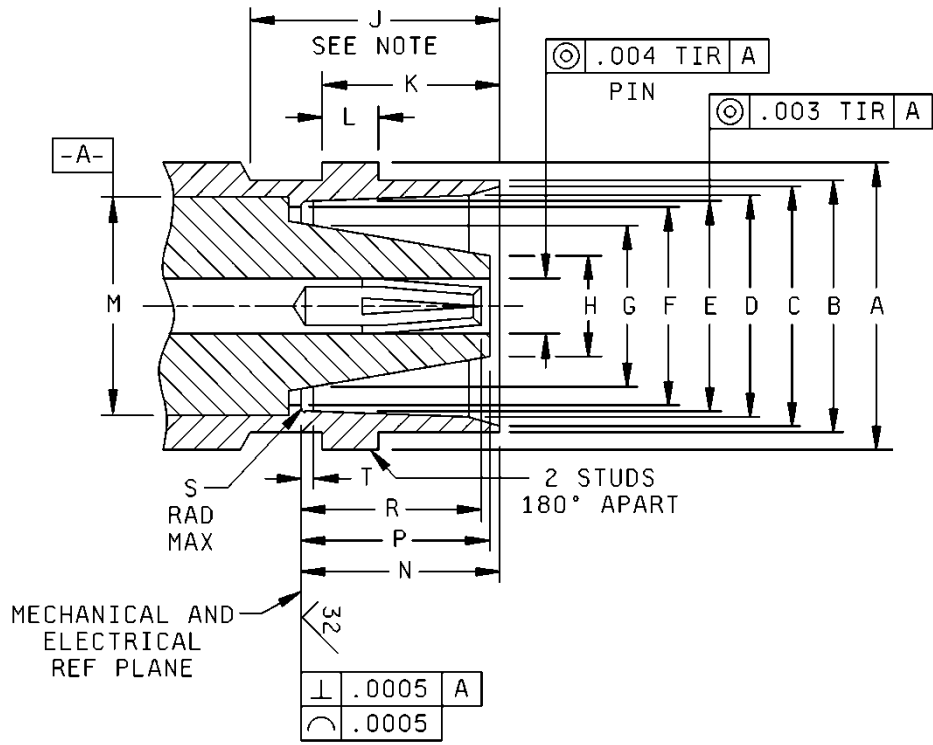
FIGURE 401-1. Interface test connector, series C, pin contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .543 (13.79)  | .549 (13.94)  |
| B          | .412 (10.46)  | .414 (10.52)  |
| C          | .276 (7.01)   | .280 (7.11)   |
| D          | .194 (4.93)   | .198 (5.03)   |
| E          | .307 (7.80)   | .311 (7.90)   |
| F          | .309 (7.85)   | .318 (8.08)   |
| G          | .007 (0.18)   | .013 (0.33)   |
| H          | .3889 (9.878) | .3897 (9.898) |
| J          | .103 (2.62)   | .113 (2.87)   |
| K          | .131 (3.33)   | .141 (3.58)   |
| L          | .010 (0.25)   | .018 (0.46)   |
| M          | -----         | .785 (19.94)  |
| N          | .105 (2.67)   | .114 (2.90)   |
| R          | .301 (7.65)   | .308 (7.82)   |
| S          | .093 (2.36)   | .103 (2.62)   |
| T          | .041 (1.04)   | .051 (1.30)   |
| U          | .0900 (2.29)  | .0921 (2.34)  |

FIGURE 401-1. Interface test connector, series C, pin contact – Continued.

MIL-STD-348B



DETAIL OF INNER CONTACT

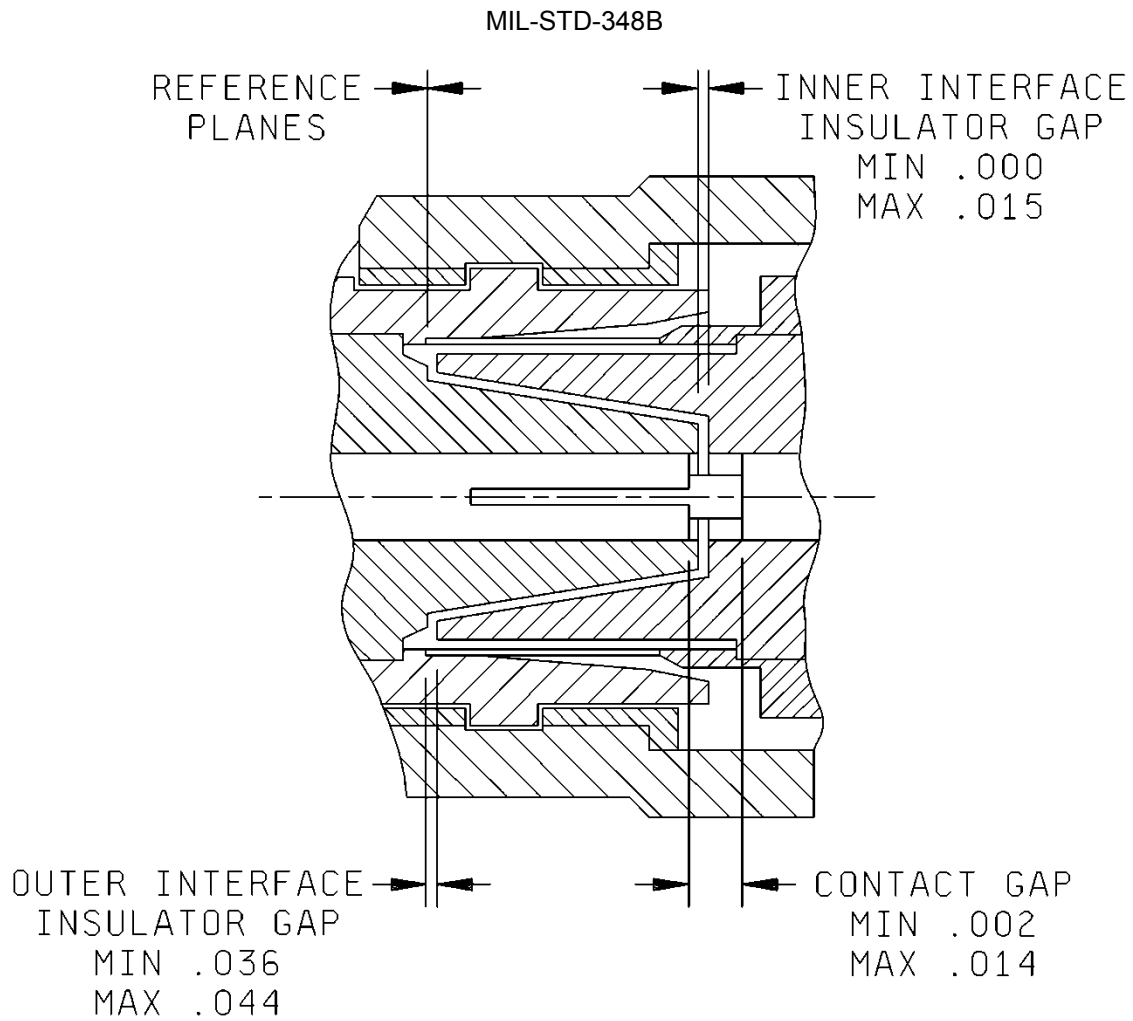
FIGURE 401-2. Interface test connector, series C, socket contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .590 (14.99)  | .600 (15.24)  |
| B          | .530 (13.46)  | .540 (13.72)  |
| C          | .485 (12.32)  | .495 (12.57)  |
| D          | .440 (11.18)  | .450 (11.43)  |
| E          | .411 (10.44)  | .415 (10.54)  |
| F          | .354 (8.99)   | .358 (9.09)   |
| G          | .268 (6.81)   | .272 (6.91)   |
| H          | .188 (4.78)   | .190 (4.83)   |
| J          | .495 (12.57)  | -----         |
| K          | .277 (7.04)   | .283 (7.19)   |
| L          | .088 (2.24)   | .098 (2.49)   |
| M          | .3889 (9.878) | .3897 (9.898) |
| N          | .334 (8.48)   | .338 (8.59)   |
| P          | .303 (7.70)   | .309 (7.85)   |
| R          | .297 (7.54)   | .305 (7.75)   |
| S          | -----         | .004 (0.10)   |
| T          | .020 (0.51)   | .040 (1.02)   |
| U          | .306 (7.77)   | -----         |
| V          | .004 (0.10)   | .011 (0.28)   |
| W          | .1314 (3.34)  | .1328 (3.37)  |
| X          | .0989 (2.512) | .0991 (2.517) |
| Y          | .240 (6.10)   | .260 (6.60)   |
| Z          | .0095 (0.241) | .0125 (0.317) |
| AA         | .085 (2.16)   | .088 (2.24)   |
| AB         | .1232 (3.129) | .1288 (3.271) |

NOTE: Clearance for mating connector coupling nut.

FIGURE 401-2. Interface test connector, series C, socket contact - Continued.



| Inches (mm) |        |
|-------------|--------|
| .002        | (0.05) |
| .014        | (0.36) |
| .015        | (0.38) |
| .036        | (0.91) |
| .044        | (1.12) |

FIGURE 401-3. Interface, mated test connector, series C.



MIL-STD-348B

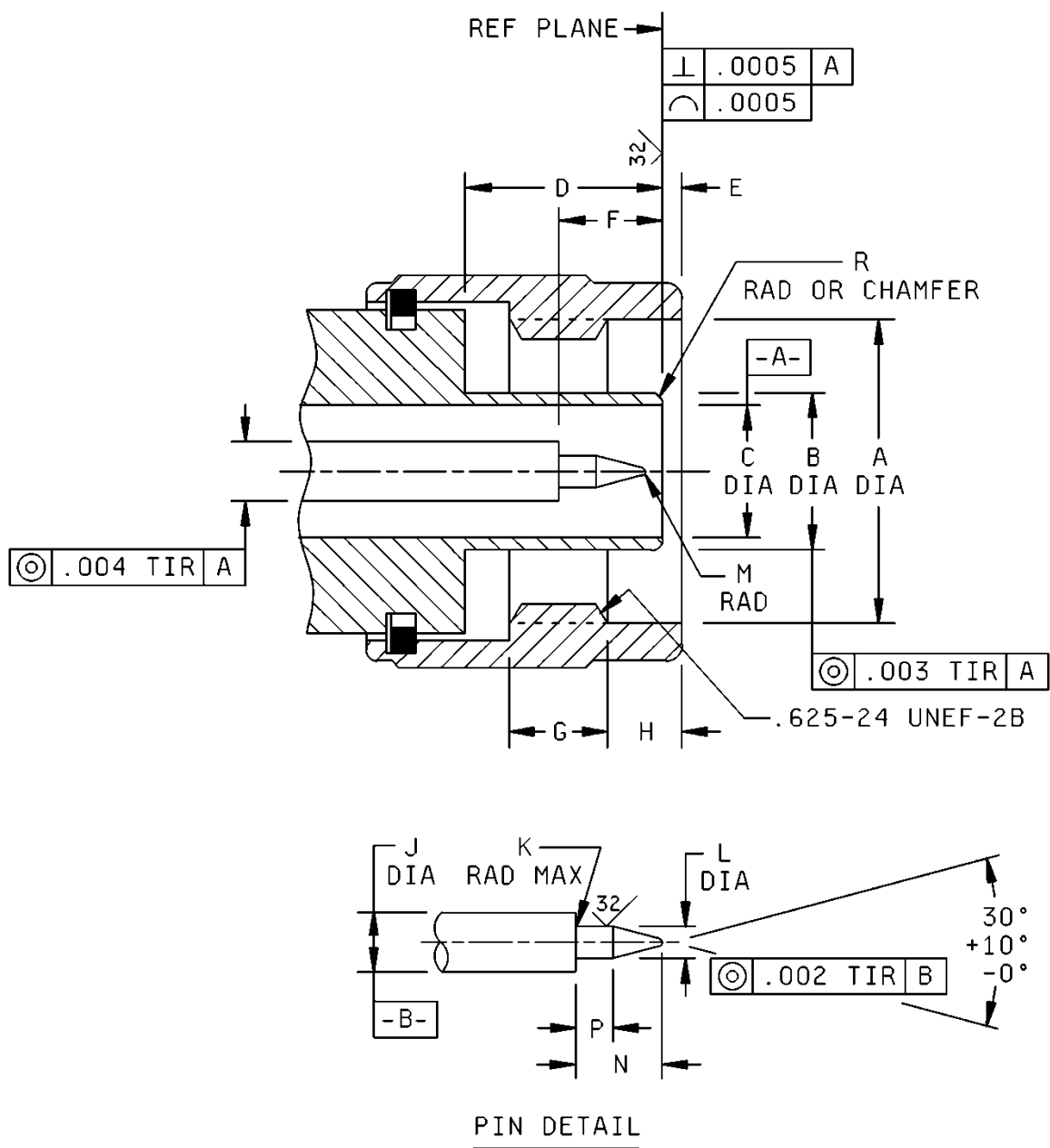


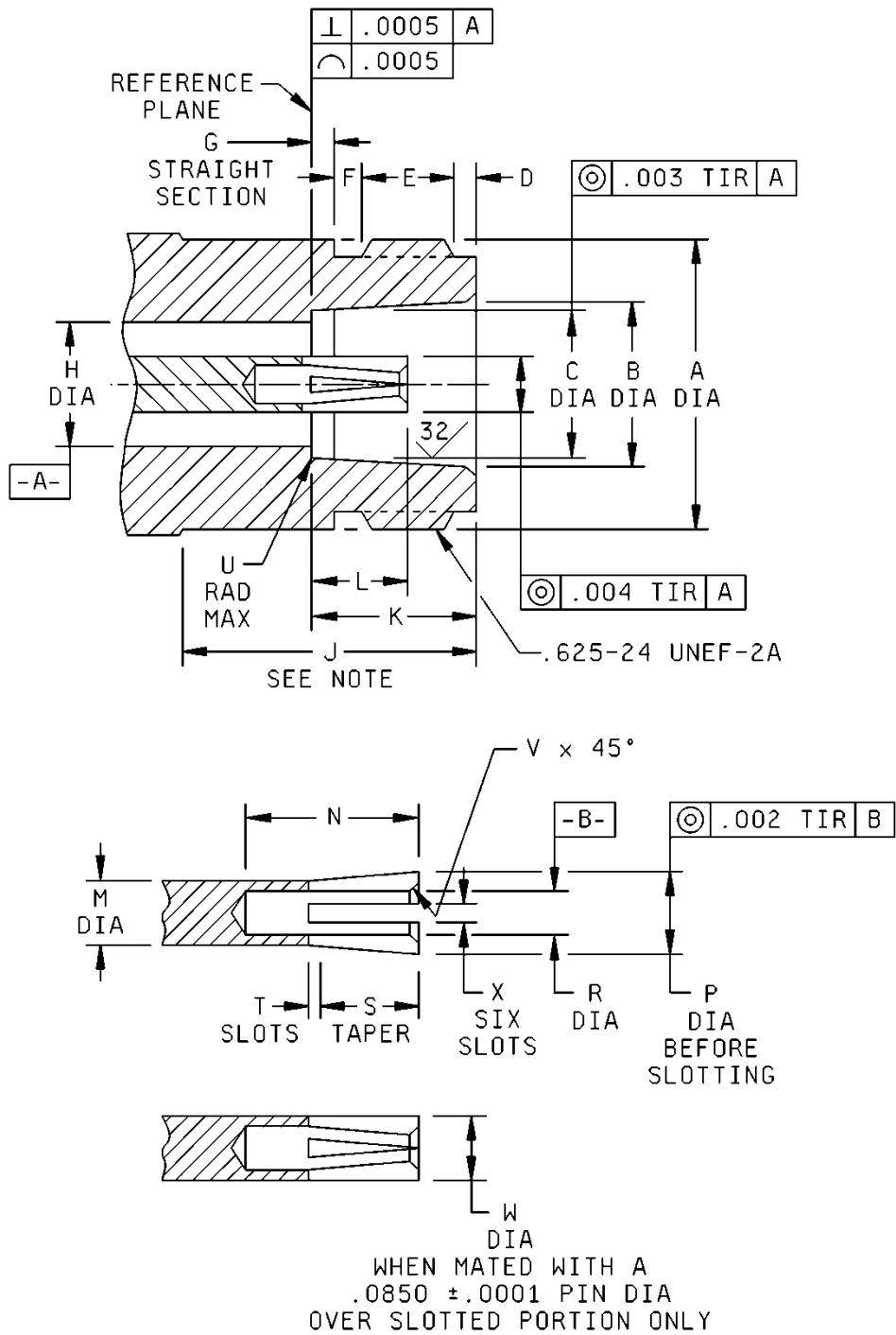
FIGURE 402-1. Interface, test connector, series N, pin contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)           |                      |
|------------|-----------------------|----------------------|
|            | Minimum               | Maximum              |
| A          | .630 (0.16)           | -----                |
| B          | .3140 (7.98)          | .3165 (8.04)         |
| C          | .2753 (6.99)          | .2759 (7.01)         |
| D          | .362 (9.19)           | .372 (9.45)          |
| E          | .011 (0.28)           | .051 (1.30)          |
| F          | .208 (5.28)           | .211 (5.36)          |
| G          | .177 (4.50)           | .197 (5.00)          |
| H          | .158 (4.01)           | .168 (4.27)          |
| J          | .1194 (3.03)          | .1200 (3.05)         |
| K          | -----                 | .003 (0.08) Max. Rad |
| L          | .0644 (1.64)          | .0656 (1.67)         |
| M          | .010 (0.25)           | .030 (0.76)          |
| N          | .178 (4.52) Reference |                      |
| P          | .070 (1.78)           | .080 (2.03)          |
| R          | .005 (0.13)           | .008 (0.20)          |

FIGURE 402-1. Interface, test connector, series N, pin contact – Continued.

MIL-STD-348B



DETAIL OF INNER CONTACT

FIGURE 402-2. Interface, test connector, series N, socket contact.

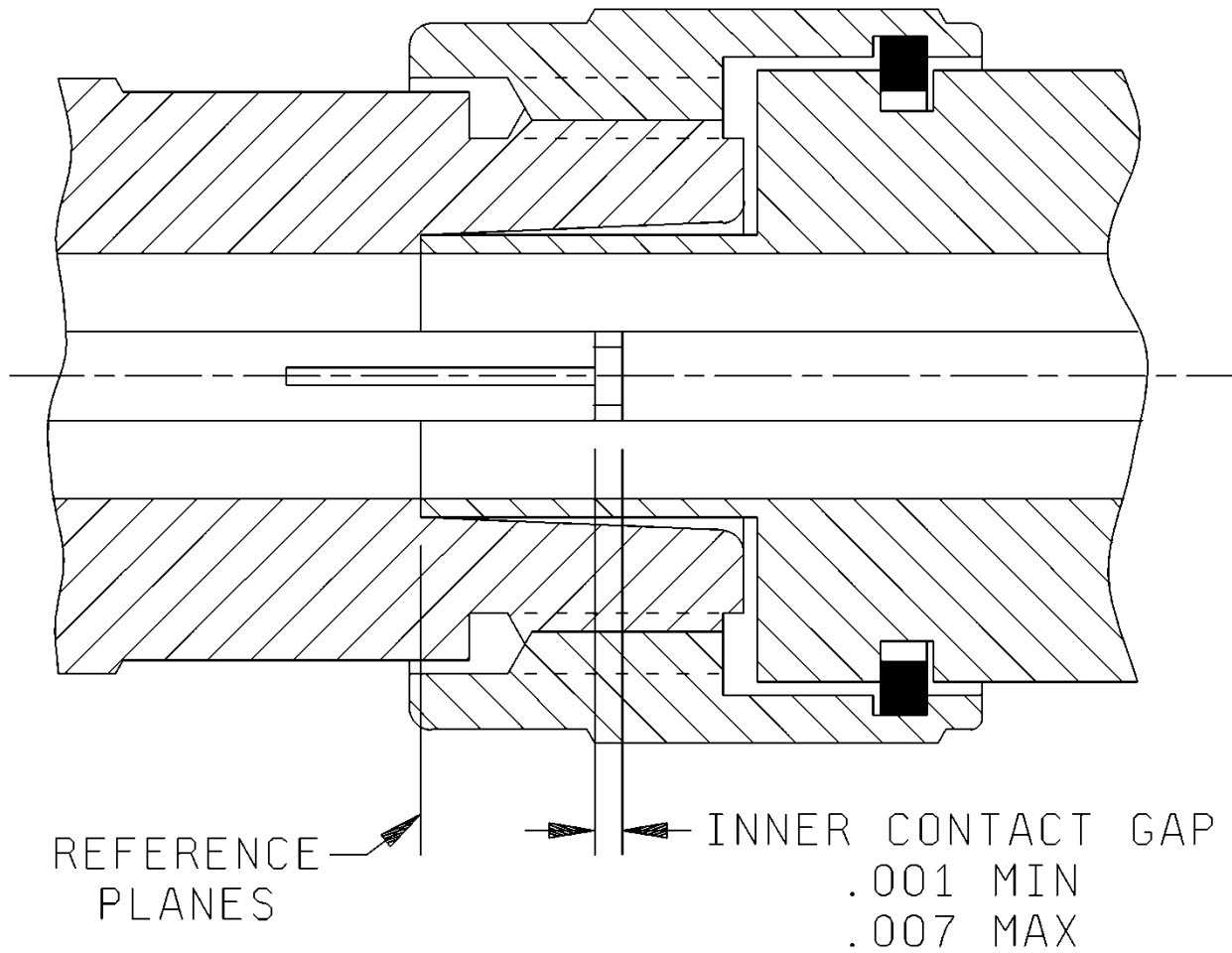
## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | -----         | .627 (15.93)  |
| B          | .336 (8.53)   | .344 (8.74)   |
| C          | .317 (8.05)   | .319 (8.10)   |
| D          | .047 (1.19)   | .077 (1.96)   |
| E          | .180 (4.57)   | .220 (5.59)   |
| F          | .040 (1.02)   | .080 (2.03)   |
| G          | .020 (0.51)   | .040 (1.02)   |
| H          | .2753 (6.991) | .2759 (7.008) |
| J          | .442 (11.23)  | -----         |
| K          | .357 (9.07)   | .361 (9.17)   |
| L          | .204 (5.18)   | .207 (5.26)   |
| M          | .1194 (3.033) | .1200 (3.048) |
| N          | .370 (9.40)   | -----         |
| P          | .1314 (3.327) | .1326 (3.368) |
| R          | .0709 (1.801) | .0731 (1.857) |
| S          | .240 (6.10)   | .260 (6.60)   |
| T          | .000 (0.00)   | .006 (0.15)   |
| U          | -----         | .004 (0.10)   |
| V          | .003 (0.08)   | .006 (0.15)   |
| W          | .1232 (3.129) | .1268 (3.221) |
| X          | .0095 (0.241) | .0125 (0.317) |

NOTE: Clearance for mating connector coupling nut.

FIGURE 402-2. Interface, test connector, series N, socket contact - Contined.

MIL-STD-348B



Inches (mm)  
.001 (0.03)  
.007 (0.18)

FIGURE 402-3. Interface, mated test connector, series N.

MIL-STD-348B

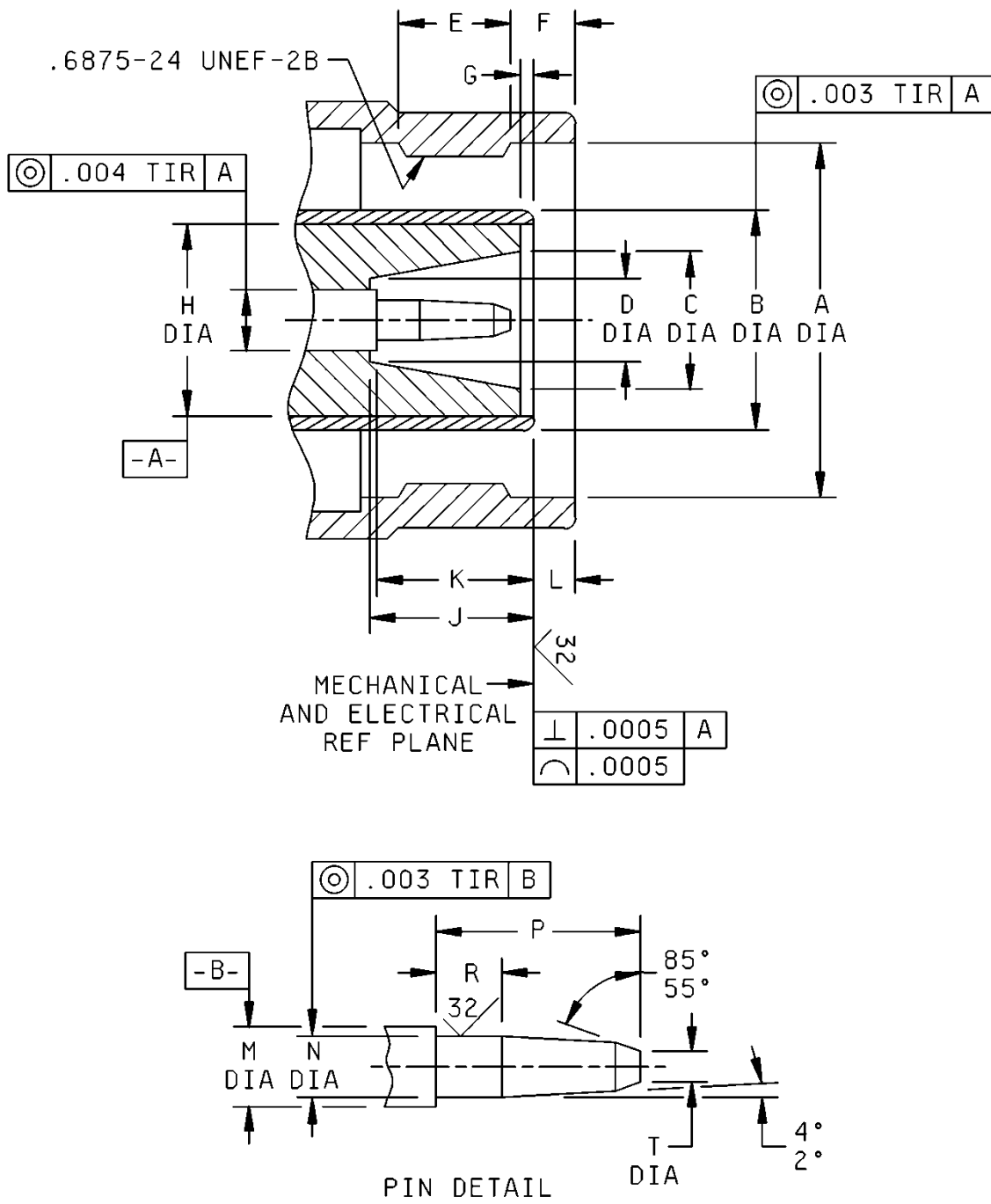


FIGURE 403-1. Interface, test connector, series SC, pin contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .690 (17.53)  | -----         |
| B          | .407 (10.34)  | .409 (10.39)  |
| C          | .276 (7.01)   | .280 (7.11)   |
| D          | .194 (4.93)   | .198 (5.03)   |
| E          | .380 (9.65)   | .420 (10.67)  |
| F          | .190 (4.83)   | .210 (5.33)   |
| G          | .007 (0.18)   | .013 (0.33)   |
| H          | .3889 (9.878) | .3897 (9.898) |
| J          | .309 (7.85)   | .318 (8.08)   |
| K          | .307 (7.80)   | .311 (7.90)   |
| L          | -----         | .085 (2.16)   |
| M          | .1192 (3.028) | .1202 (3.053) |
| N          | .0900 (2.286) | .0921 (2.339) |
| P          | .301 (7.65)   | .308 (7.82)   |
| R          | .093 (2.36)   | .103 (2.62)   |
| T          | .041 (1.04)   | .051 (1.30)   |

FIGURE 403-1. Interface, test connector, series SC, pin contact - Continued.

MIL-STD-348B

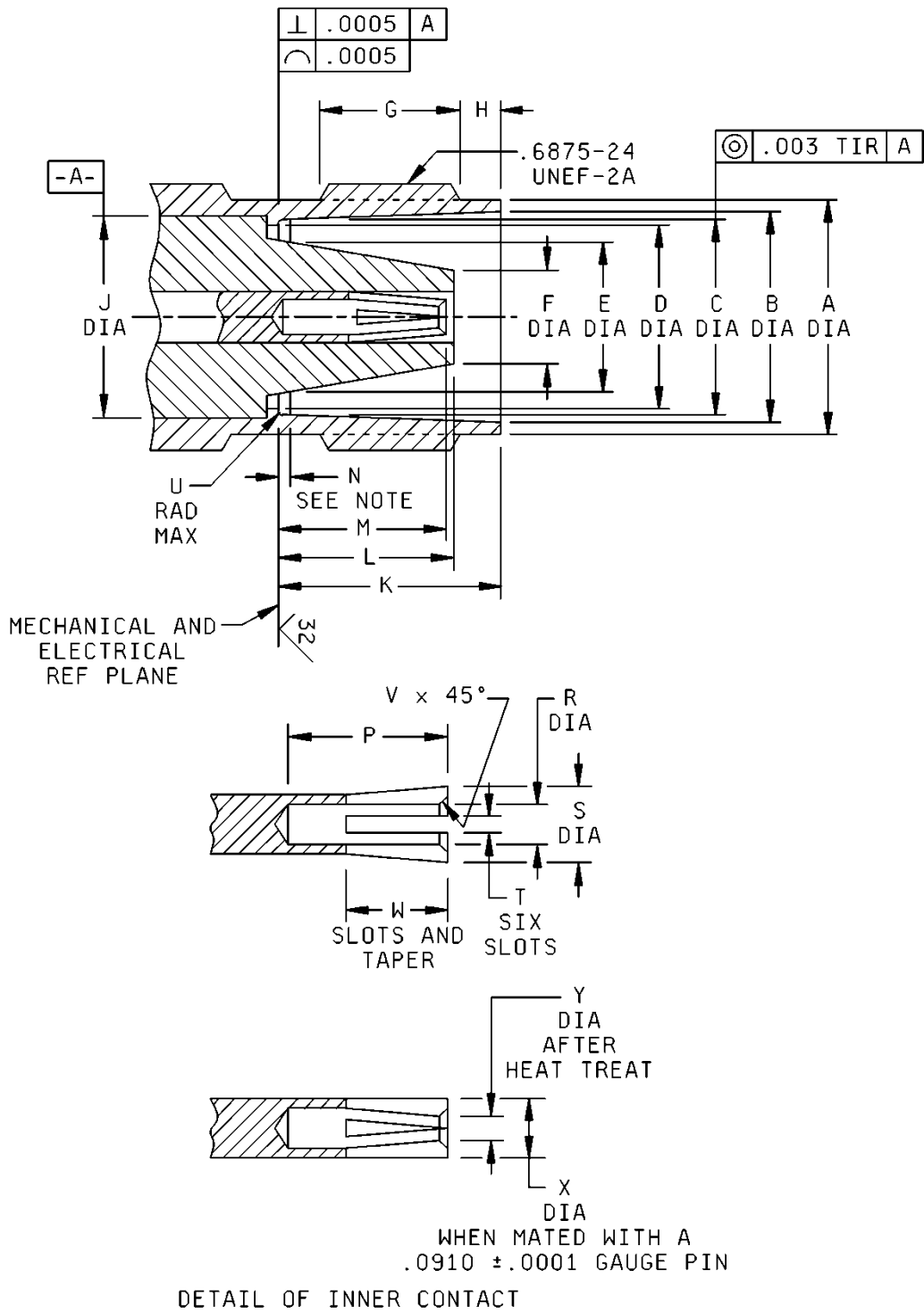


FIGURE 403-2. Interface, test connector, series SC, socket contact.



## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | -----         | .630 (16.00)  |
| B          | .482 (12.24)  | .498 (12.65)  |
| C          | .411 (10.44)  | .415 (10.54)  |
| D          | .354 (8.99)   | .358 (9.09)   |
| E          | .268 (6.81)   | .272 (6.91)   |
| F          | .188 (4.78)   | .190 (4.83)   |
| G          | .250 (6.35)   | -----         |
| H          | .047 (1.19)   | .077 (1.96)   |
| J          | .3889 (9.88)  | .3897 (9.90)  |
| K          | .491 (12.47)  | .495 (12.57)  |
| L          | .303 (7.70)   | .309 (7.85)   |
| M          | .297 (7.54)   | .305 (7.75)   |
| N          | .020 (0.51)   | .040 (1.02)   |
| P          | .306 (7.77)   | -----         |
| R          | .0969 (2.46)  | .0991 (2.52)  |
| S          | .1314 (3.34)  | .1326 (3.37)  |
| T          | .0095 (0.24)  | .0125 (0.32)  |
| U          | -----         | .004 (0.10)   |
| V          | .004 (0.10)   | .011 (.28)    |
| W          | .240 (6.10)   | .260 (6.60)   |
| X          | .1232 (3.129) | .1268 (3.221) |
| Y          | .085 (2.16)   | .088 (2.24)   |

NOTE. Applies to body straight section.

FIGURE 403-2. Interface, test connector, series SC, socket contact – Continued.

MIL-STD-348B

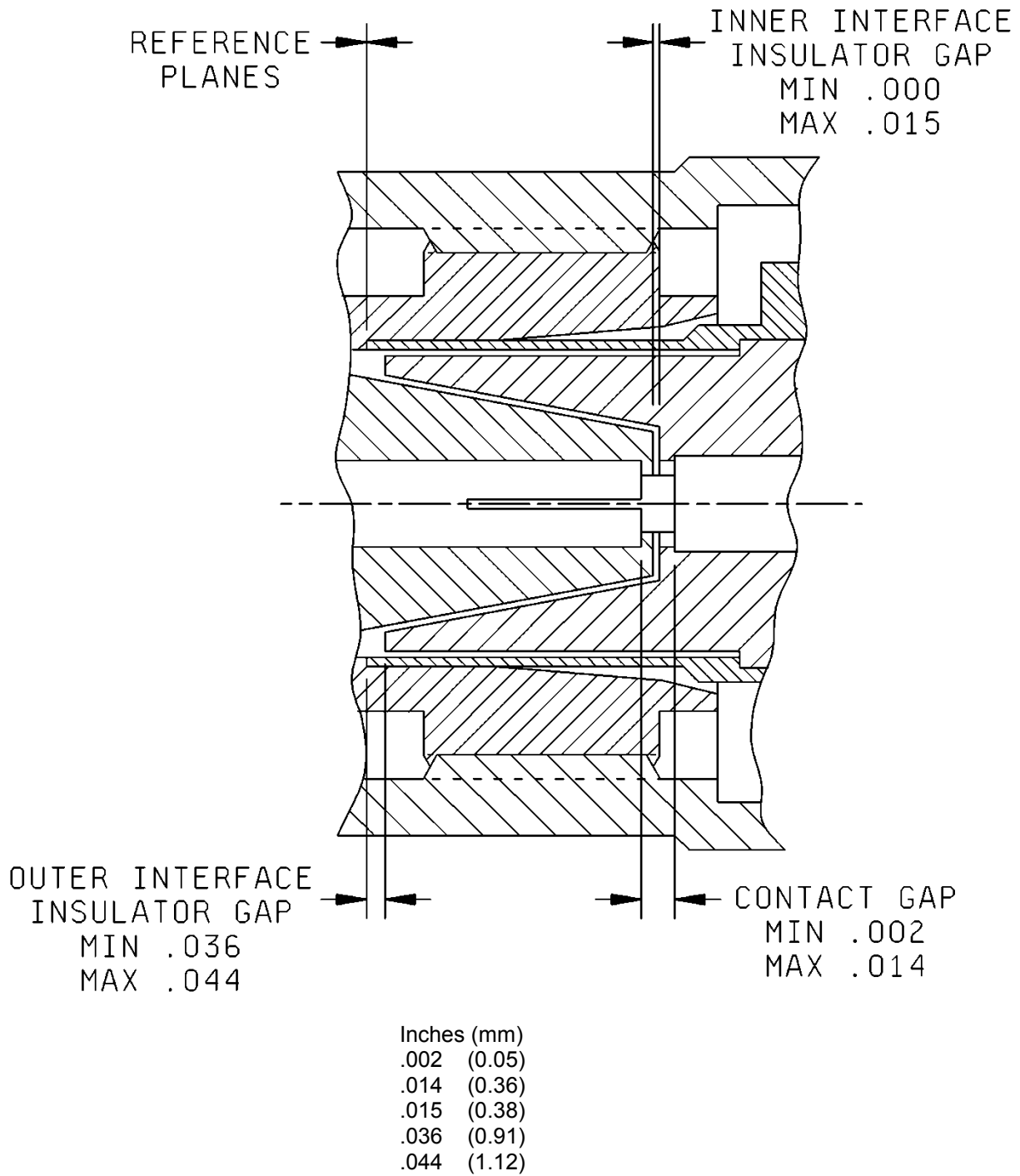


FIGURE 403-3. Interface, mated test connector, series SC.

MIL-STD-348B

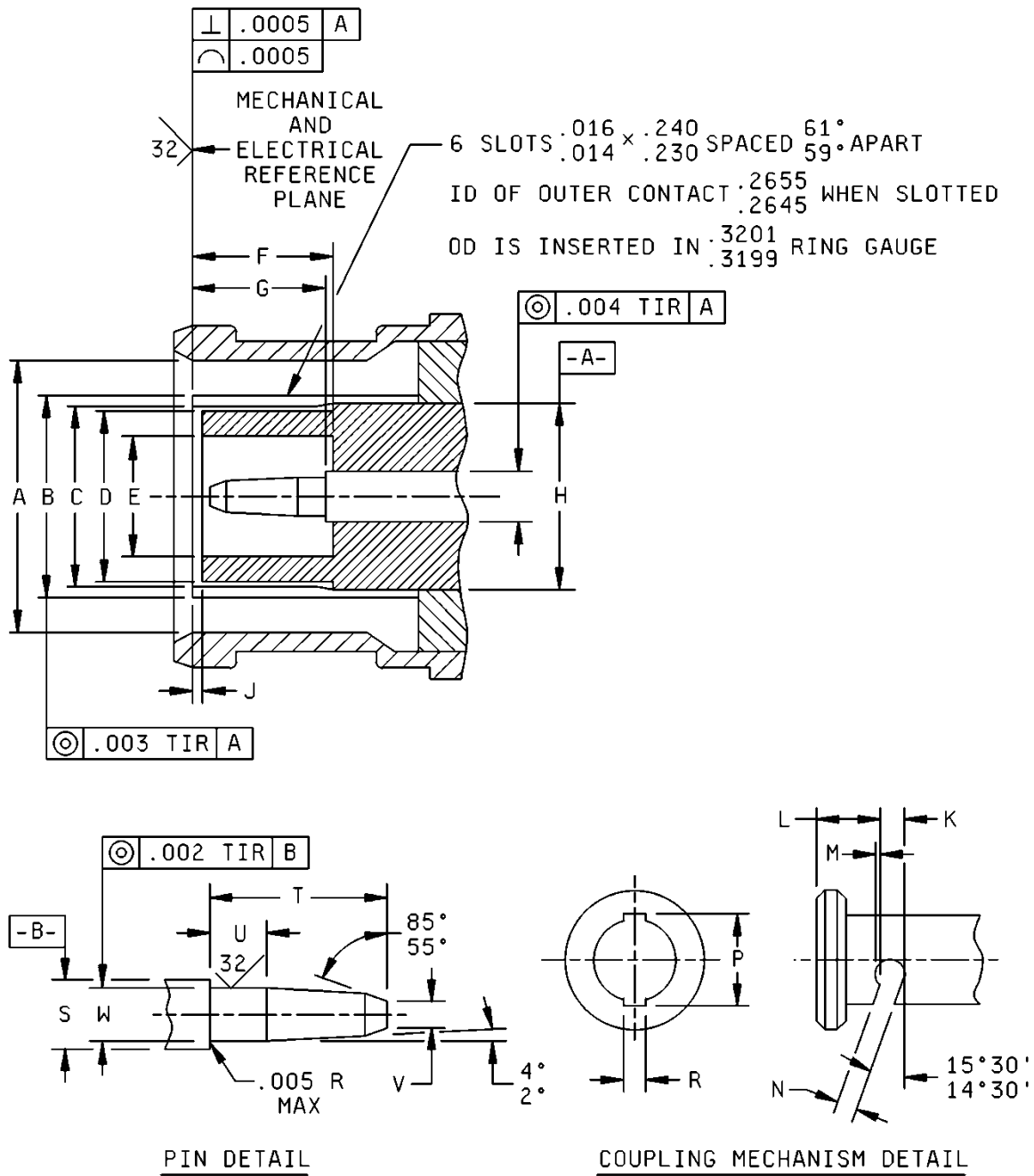


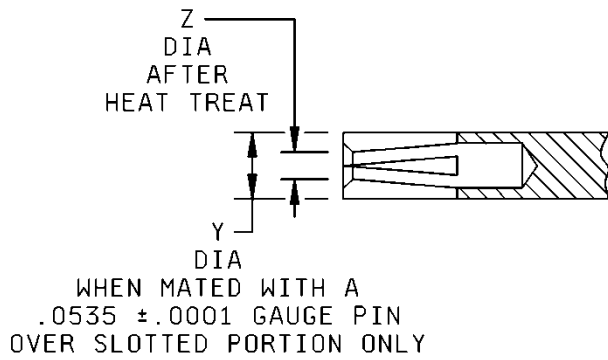
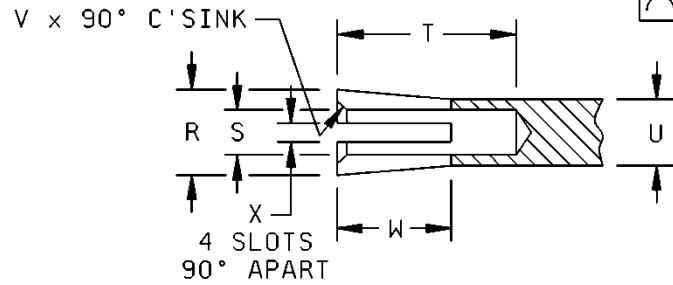
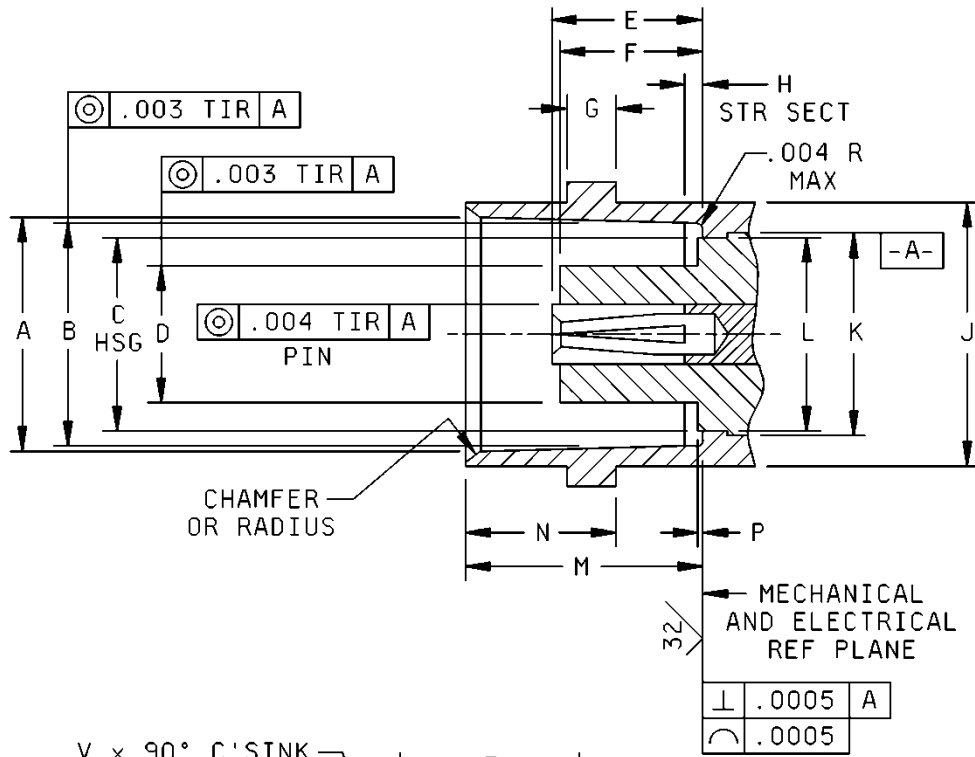
FIGURE 404-1. Interface, test connector, series BNC, pin contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .385 (9.78)   | .390 (9.91)   |
| B          | .312 (7.92)   | .319 (8.10)   |
| C          | .2645 (6.718) | .2655 (6.744) |
| D          | .260 (6.60)   | .262 (6.65)   |
| E          | .192 (4.88)   | .194 (4.93)   |
| F          | .212 (5.38)   | .218 (5.54)   |
| G          | .209 (5.31)   | .212 (5.38)   |
| H          | .2752 (6.990) | .2760 (7.010) |
| J          | .006 (0.15)   | .012 (0.30)   |
| K          | .124 (3.15)   | -----         |
| L          | .180 (4.57)   | .184 (4.67)   |
| M          | .018 (0.46)   | .022 (0.56)   |
| N          | .091 (2.31)   | .097 (2.46)   |
| P          | .463 (11.76)  | .473 (12.01)  |
| R          | .091 (2.31)   | .097 (2.46)   |
| S          | .0851 (2.161) | .0859 (2.182) |
| T          | .182 (4.62)   | .192 (4.88)   |
| U          | .055 (1.40)   | .065 (1.65)   |
| V          | .013 (0.33)   | .027 (0.69)   |
| W          | .0530 (1.346) | .0541 (1.374) |

FIGURE 404-1. Interface, test connector, series BNC, pin contact – Continued.

MIL-STD-348B



DETAIL OF INNER CONTACT

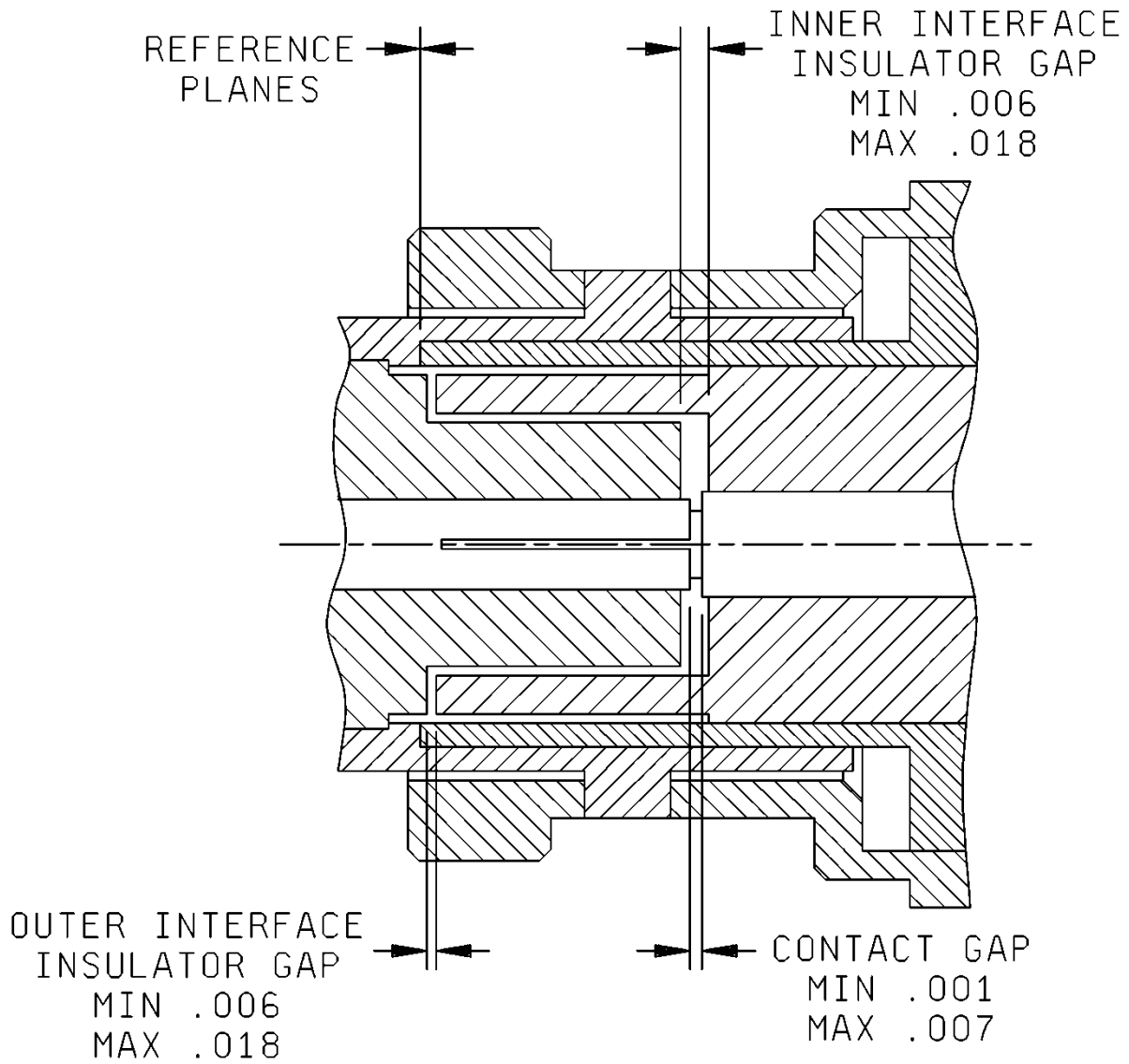
FIGURE 404-2. Interface, test connector, series BNC, socket contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .327 (8.31)   | .333 (8.46)   |
| B          | .319 (8.10)   | .321 (8.15)   |
| C          | .264 (6.71)   | .266 (6.76)   |
| D          | .184 (4.67)   | .186 (4.72)   |
| E          | .205 (5.21)   | .208 (5.28)   |
| F          | .200 (5.08)   | .206 (5.23)   |
| G          | .075 (1.91)   | .081 (2.06)   |
| H          | .020 (0.51)   | .040 (1.02)   |
| J          | .378 (9.60)   | .381 (9.68)   |
| K          | .2752 (6.990) | .2760 (7.010) |
| L          | -----         | .256 (6.50)   |
| M          | .329 (8.36)   | .333 (8.46)   |
| N          | .204 (5.18)   | .208 (5.28)   |
| P          | .000 (0.00)   | .008 (0.20)   |
| R          | .0965 (2.451) | .0976 (2.479) |
| S          | .0600 (1.524) | .0622 (1.580) |
| T          | .205 (5.21)   | -----         |
| U          | .0852 (2.164) | .0859 (2.182) |
| V          | .066 (1.68)   | .074 (1.88)   |
| W          | .182 (4.62)   | .192 (4.88)   |
| X          | .0105 (0.267) | .0135 (0.343) |
| Y          | .0878 (2.230) | .0911 (2.314) |
| Z          | .0475 (1.206) | .0510 (1.295) |

FIGURE 404-2. Interface, test connector, series BNC, socket contact - Continued.

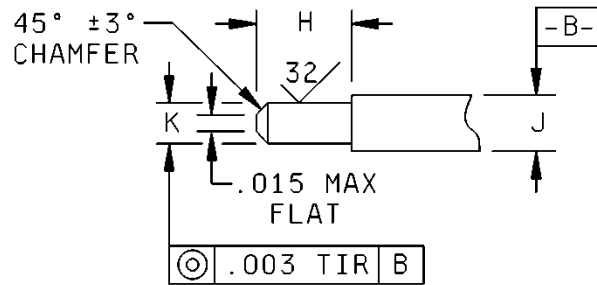
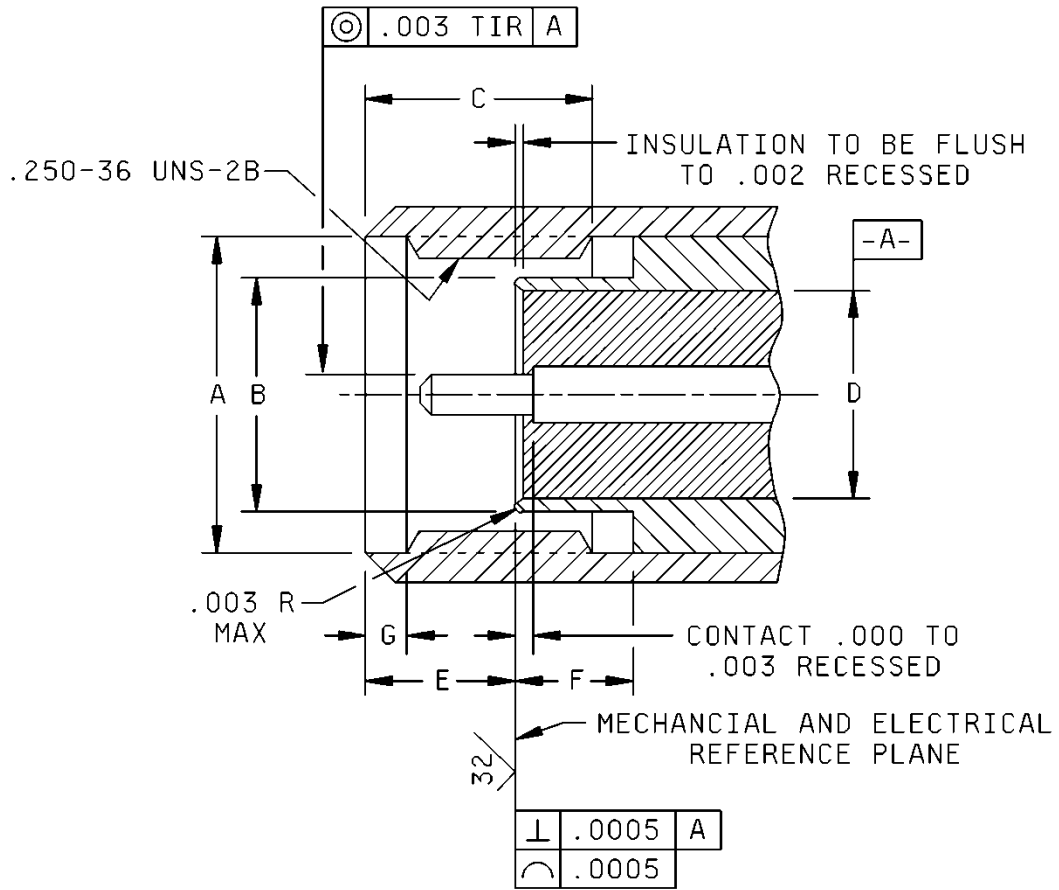
MIL-STD-348B



| Inches (mm) |        |
|-------------|--------|
| .001        | (0.03) |
| .006        | (0.15) |
| .007        | (0.18) |
| .018        | (0.46) |

FIGURE 404-3. Interface, mated test connector, series BNC.

MIL-STD-348B



DETAIL OF INNER CONTACT

FIGURE 405-1. Interface, test connector, series SMA, pin contact.



## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A DIA      | .255 (6.48)   | .265 (6.73)   |
| B DIA      | .1780 (4.521) | .1808 (4.592) |
| C          | .146 (3.71)   | .170 (4.32)   |
| D DIA      | .1615 (4.102) | .1625 (4.127) |
| E          | .102 (2.59)   | .132 (3.35)   |
| F          | .080 (2.03)   | -----         |
| G          | .025 (0.64)   | .045 (1.14)   |
| H          | .080 (2.03)   | .090 (2.29)   |
| J DIA      | .0500 (1.270) | .0506 (1.285) |
| K DIA      | .0355 (0.902) | .0365 (0.927) |

FIGURE 405-1. Interface, test connector, series SMA, pin contact – Continued.

MIL-STD-348B

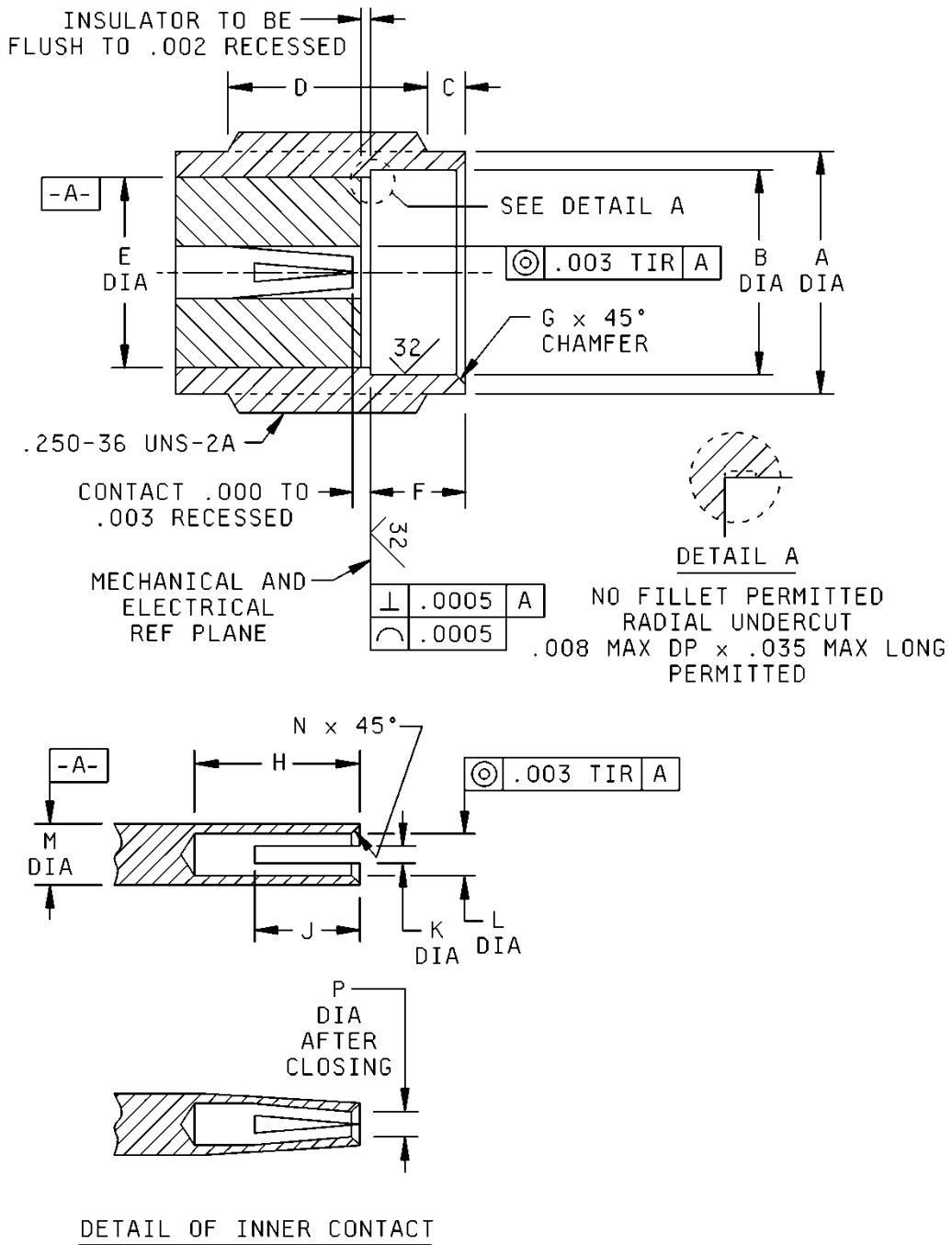
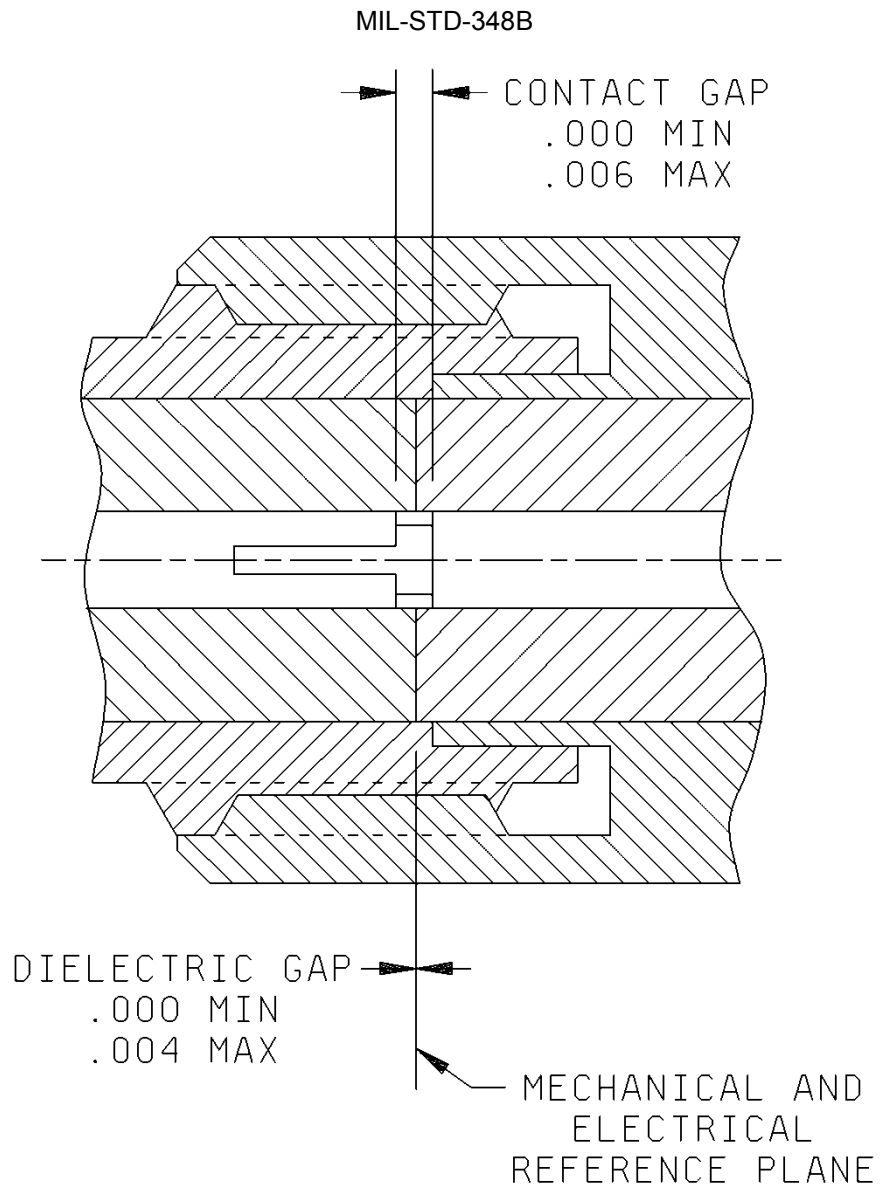


FIGURE 405-2. Interface, test connector, series SMA, socket contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .208 (5.28)   | .216 (5.49)   |
| B          | .1810 (4.597) | .1837 (4.666) |
| C          | .015 (.38)    | .045 (1.14)   |
| D          | .150 (3.81)   | -----         |
| E          | .1615 (4.102) | .1625 (4.127) |
| F          | .074 (1.88)   | .078 (1.98)   |
| G          | -----         | .010 (0.25)   |
| H          | .100 (2.54)   | -----         |
| J          | .075 (1.91)   | .095 (2.41)   |
| K          | .005 (0.13)   | .009 (0.23)   |
| L          | .0370 (0.940) | .0390 (0.991) |
| M          | .0500 (1.270) | .0506 (1.285) |
| N          | .039 (0.99)   | .047 (1.19)   |
| P          | .0285 (0.724) | .0330 (0.838) |

FIGURE 405-2. Interface, test connector, series SMA, socket contact – Continued.



Inches (mm)  
.004 (0.10)  
.006 (0.15)

FIGURE 405-3. Interface, mated test connector, series SMA.

MIL-STD-348B

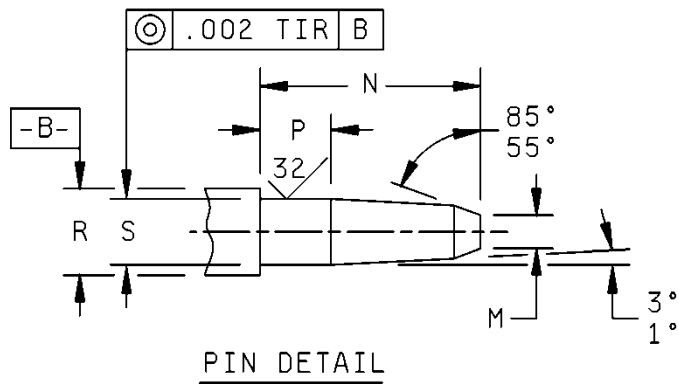
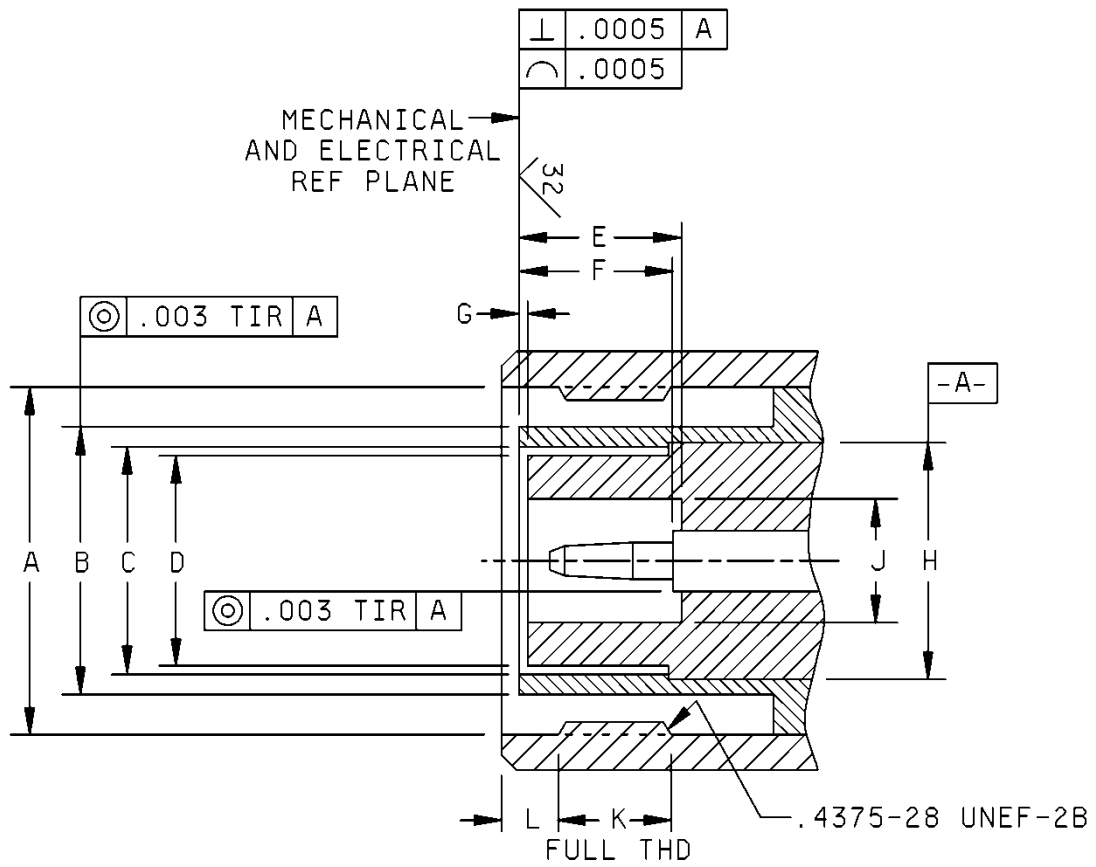


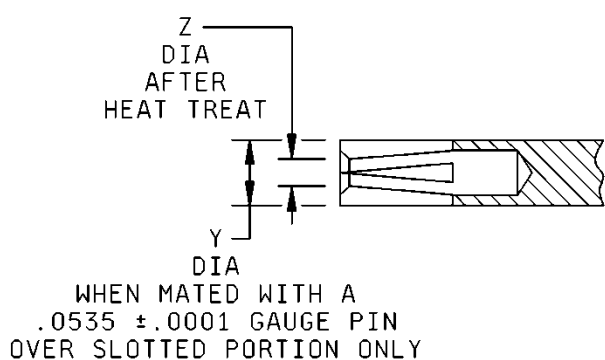
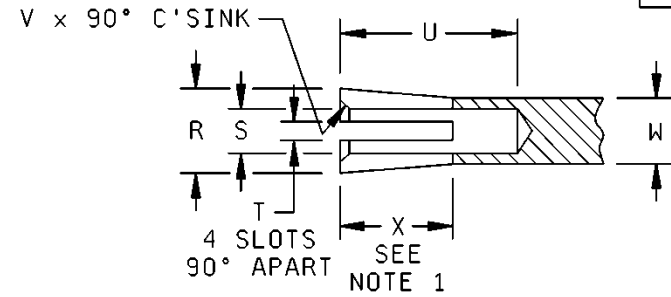
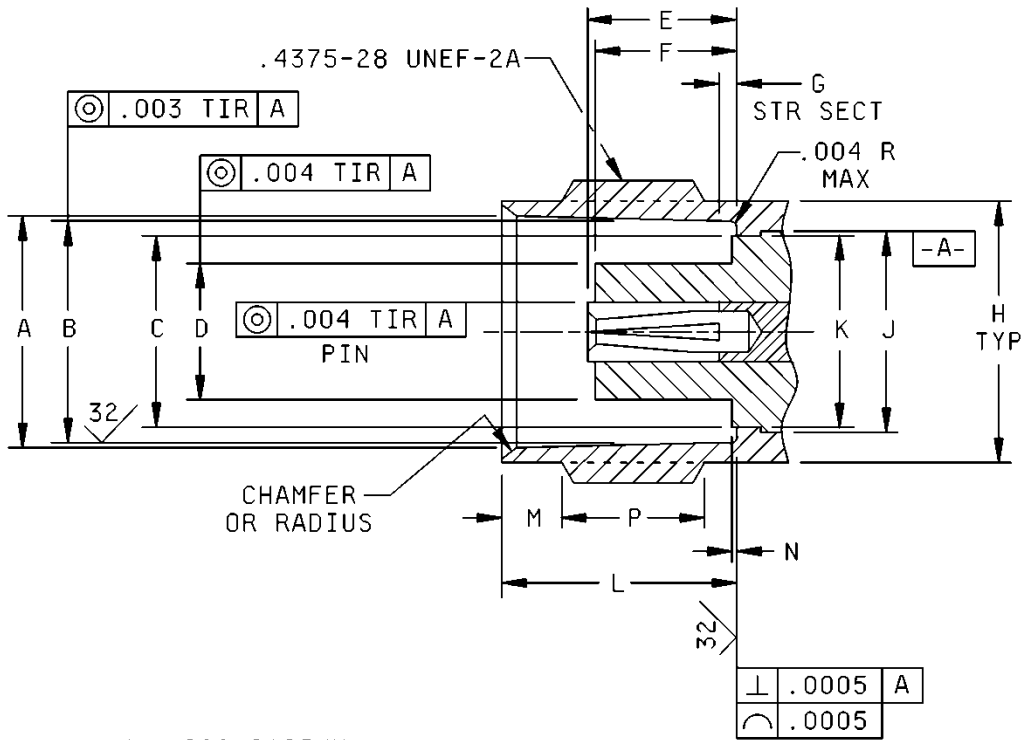
FIGURE 406-1. Interface, test connector, series TNC, pin contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .440 (11.18)  | -----         |
| B          | .3175 (8.064) | .3185 (8.090) |
| C          | .2645 (6.718) | .2655 (6.744) |
| D          | .260 (6.60)   | .262 (6.65)   |
| E          | .212 (5.38)   | .218 (5.54)   |
| F          | .209 (5.31)   | .212 (5.38)   |
| G          | .006 (0.15)   | .012 (0.30)   |
| H          | .2752 (6.990) | .2760 (7.010) |
| J          | .192 (4.88)   | .194 (4.93)   |
| K          | .156 (3.96)   | -----         |
| L          | .063 (1.60)   | -----         |
| M          | .013 (0.33)   | .027 (0.69)   |
| N          | .182 (4.62)   | .192 (4.88)   |
| P          | .055 (1.40)   | .065 (1.65)   |
| R          | .0851 (2.161) | .0859 (2.182) |
| S          | .0530 (1.346) | .0541 (1.374) |

FIGURE 406-1. Interface, test connector, series TNC, pin contact - Continued.

MIL-STD-348B



DETAIL OF INNER CONTACT

FIGURE 406-2. Interface, test connector, series TNC, socket contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)  |              |
|------------|--------------|--------------|
|            | Minimum      | Maximum      |
| A          | .327 (8.31)  | .333 (8.46)  |
| B          | .319 (8.10)  | .321 (8.15)  |
| C          | .000 (0.00)  | .256 (6.50)  |
| D          | .184 (4.67)  | .186 (4.72)  |
| E          | .205 (5.21)  | .208 (5.28)  |
| F          | .200 (5.08)  | .208 (5.28)  |
| G          | .020 (0.51)  | .040 (1.02)  |
| H          | .378 (9.60)  | .381 (9.68)  |
| J          | .2752 (6.99) | .2760 (7.01) |
| K          | .264 (6.71)  | .266 (6.76)  |
| L          | .329 (8.36)  | .333 (8.46)  |
| M          | .068 (1.73)  | .088 (2.24)  |
| N          | .000 (0.00)  | .006 (0.15)  |
| P          | .187 (4.75)  | -----        |
| R          | .0965 (2.45) | .0978 (2.48) |
| S          | .0600 (1.52) | .0622 (1.58) |
| T          | .0105 (0.27) | .0135 (0.34) |
| U          | .205 (5.21)  | -----        |
| V          | .066 (1.68)  | .074 (1.88)  |
| W          | .0852 (2.16) | .0859 (2.18) |
| X          | .182 (4.62)  | .192 (4.88)  |
| Y          | .0878 (2.23) | .0911 (2.31) |
| Z          | .0475 (1.21) | .0510 (1.30) |

## NOTES:

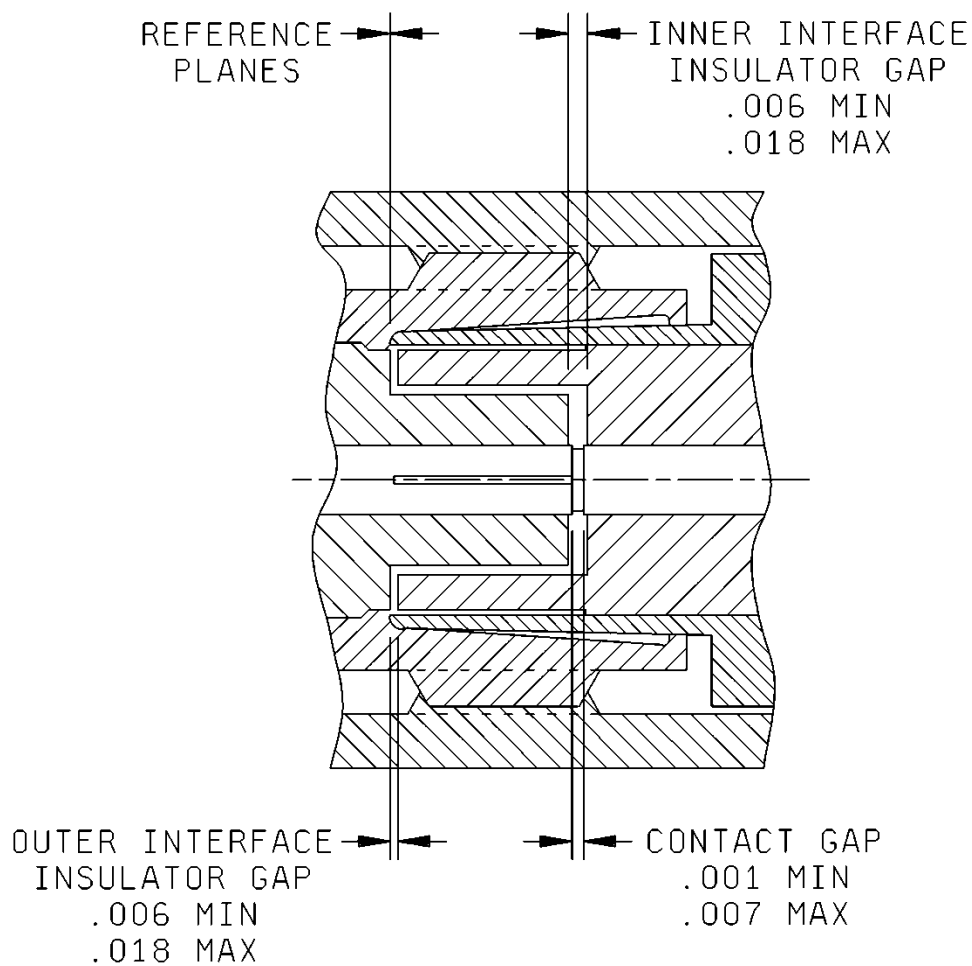
1. Contact to be mechanical and specification.
2. Dimension C and N to apply to dielectric projection.

slotted to meet electrical performance in

FIGURE 406-2. Interface, test connector, series TNC, socket contact – Continued.



MIL-STD-348B



| Inches | (mm)   |
|--------|--------|
| .001   | (0.03) |
| .006   | (0.15) |
| .007   | (0.18) |
| .018   | (0.46) |

FIGURE 406-3. Interface, mated test connector, series TNC.

MIL-STD-348B

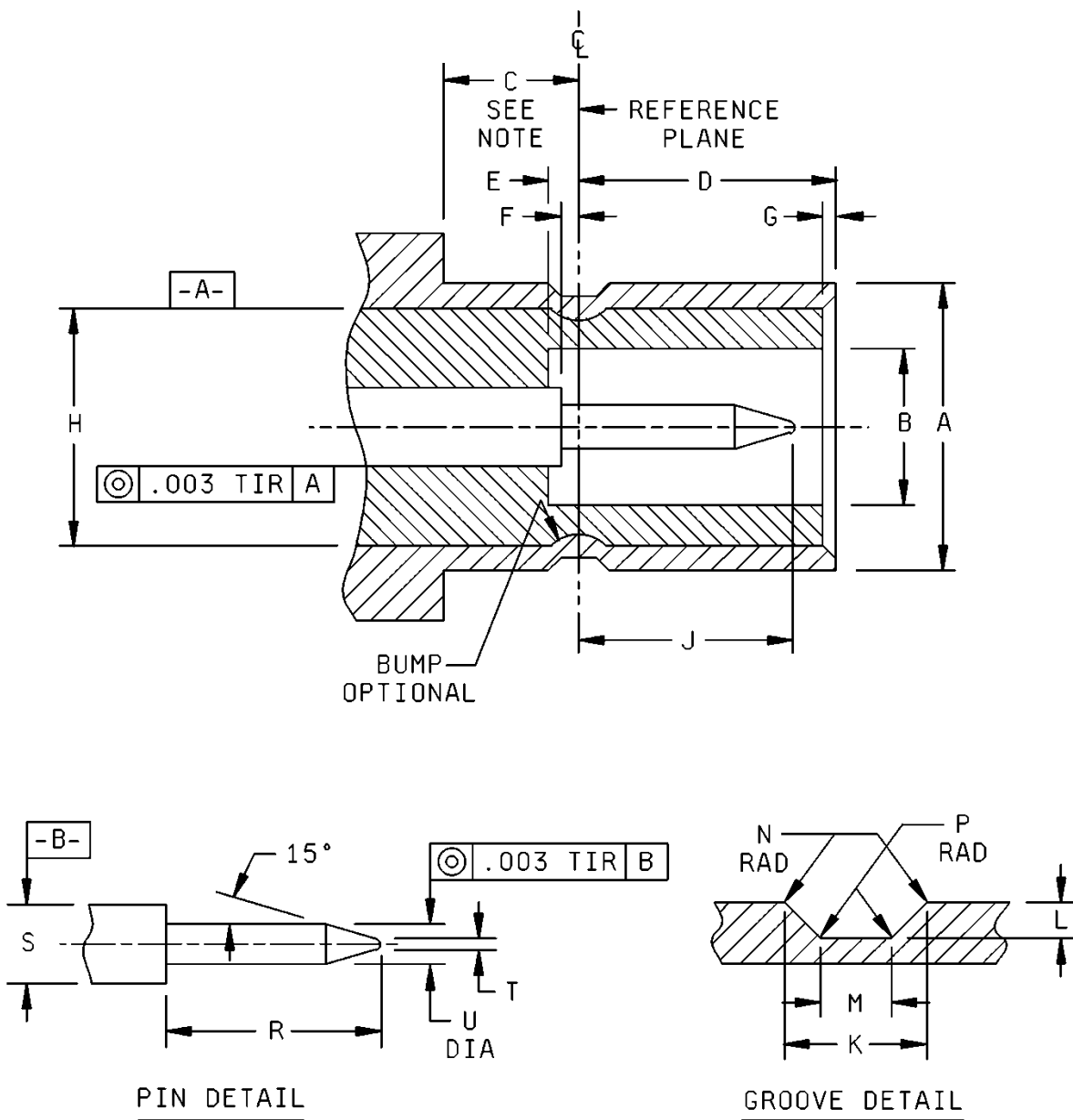


FIGURE 407-1. Interface, test connector, series SMB, pin contact.

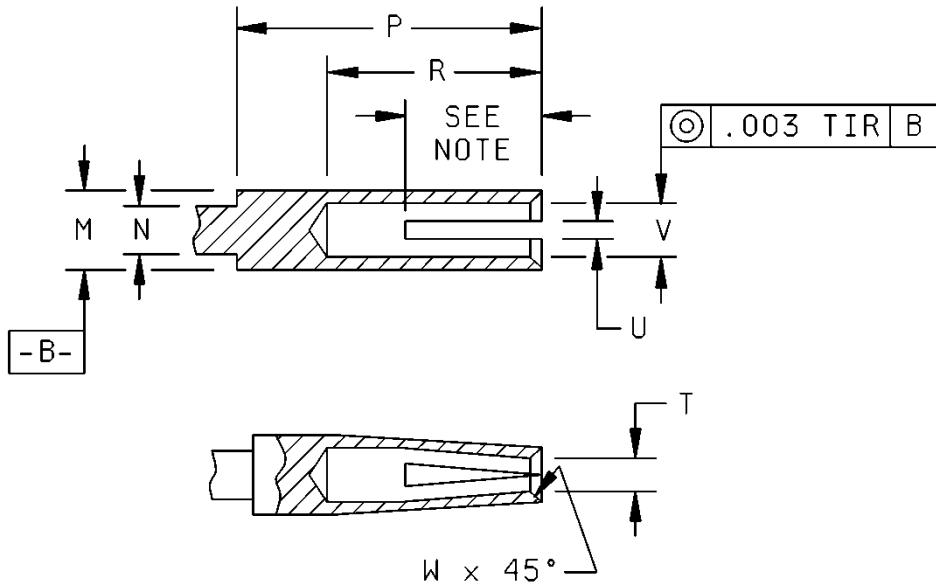
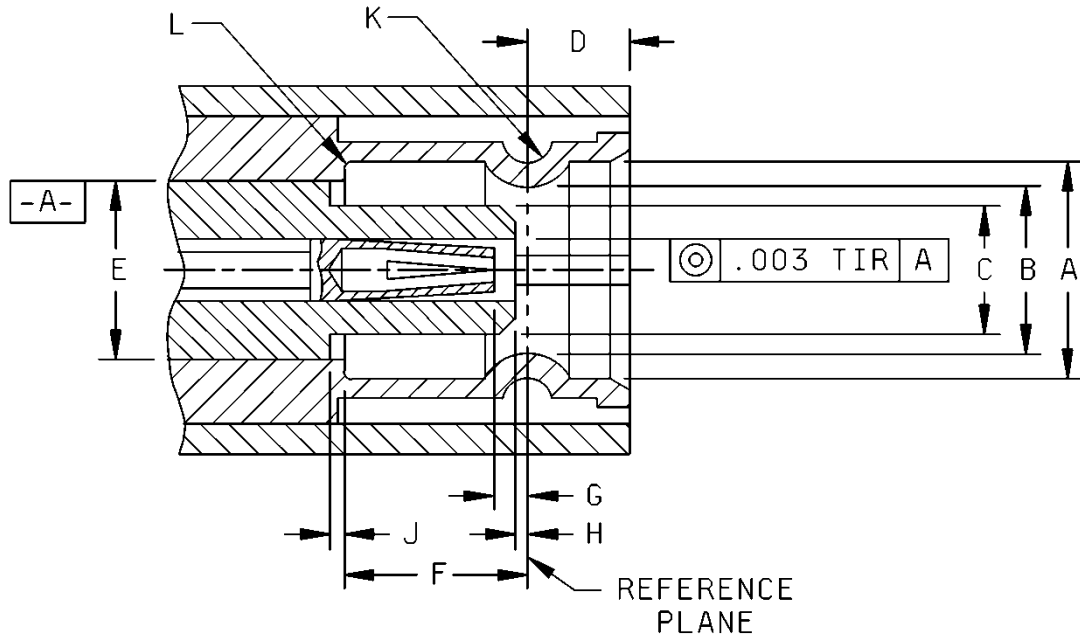
## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .144 (3.66)   | .146 (3.71)   |
| B          | .082 (2.08)   | .085 (2.16)   |
| C          | .065 (1.65)   | -----         |
| D          | .137 (3.48)   | .139 (3.53)   |
| E          | .0045 (0.11)  | .0095 (0.24)  |
| F          | .0035 (0.09)  | .0045 (0.11)  |
| G          | .0015 (0.038) | .0095 (0.241) |
| H          | .120 (3.05)   | .121 (3.07)   |
| J          | .094 (2.39)   | .107 (2.72)   |
| K          | .027 (0.69)   | .037 (0.94)   |
| L          | .006 (0.15)   | .010 (0.25)   |
| M          | .011 (0.28)   | .015 (0.38)   |
| N          | .002 (0.05)   | .006 (0.15)   |
| P          | -----         | .005 (0.13)   |
| R          | .099 (2.51)   | .103 (2.62)   |
| S          | .0381 (0.968) | .0389 (0.988) |
| T          | -----         | .010 (0.25)   |
| U          | .019 (0.48)   | .021 (0.53)   |

NOTE: Clearance for mating coupling nut.

FIGURE 407-1. Interface, test connector, series SMB, pin contact - Continued.

MIL-STD-348B



DETAIL OF FEMALE CONTACT

FIGURE 407-2. Interface, test connector, series SMB, socket contact.

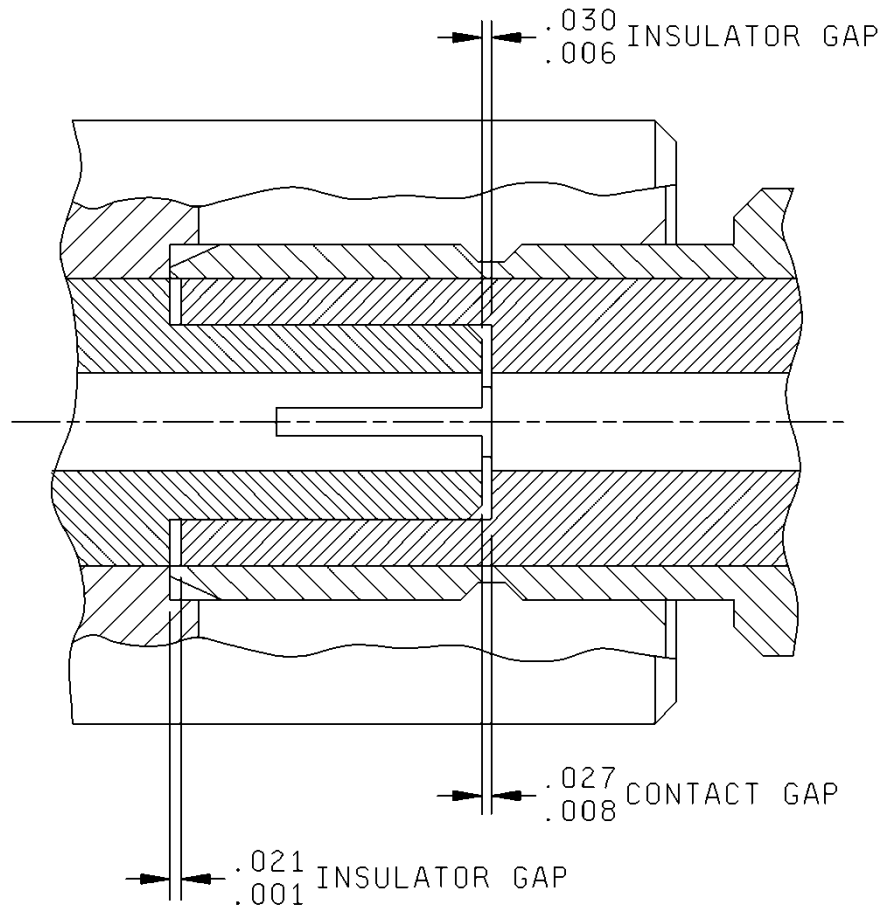
## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)    |                |
|------------|----------------|----------------|
|            | Minimum        | Maximum        |
| A          | .147 (3.73)    | .149 (3.78)    |
| B          | .134 (3.40)    | .136 (3.45)    |
| C          | .079 (2.01)    | .081 (2.06)    |
| D          | -----          | .064 (1.63)    |
| E          | .120 (3.05)    | .121 (3.07)    |
| F          | .141 (3.58)    | .149 (3.78)    |
| G          | .0115 (0.292)  | .0225 (0.571)  |
| H          | .0105 (0.267)  | .0205 (0.521)  |
| J          | -.0005 (0.018) | +.0115 (0.292) |
| K RAD      | .025 (0.64)    | .030 (0.76)    |
| L RAD      | -----          | .003 (0.08)    |
| M          | .0396 (1.006)  | .0404 (1.026)  |
| N          | .0381 (0.968)  | .0389 (0.988)  |
| P          | .1325 (3.365)  | .1375 (3.492)  |
| R          | .110 (2.79)    | -----          |
| T          | .0155 (0.39)   | .0190 (0.483)  |
| U          | .005 (.013)    | .009 (0.23)    |
| V          | .0219 (0.556)  | .0236 (0.599)  |
| W          | .002 (0.05)    | .006 (0.15)    |

NOTE. Contact to be slotted to meet mechanical and electrical performance requirements on specification.

FIGURE 407-2. Interface, test connector, series SMB, socket contact – Continued.

MIL-STD-348B



| Inches | (mm)   |
|--------|--------|
| .001   | (0.03) |
| .006   | (0.15) |
| .008   | (0.20) |
| .021   | (0.53) |
| .027   | (0.69) |
| .030   | (0.76) |

FIGURE 407-3. Interface, mated test connector, series SMB.

MIL-STD-348B

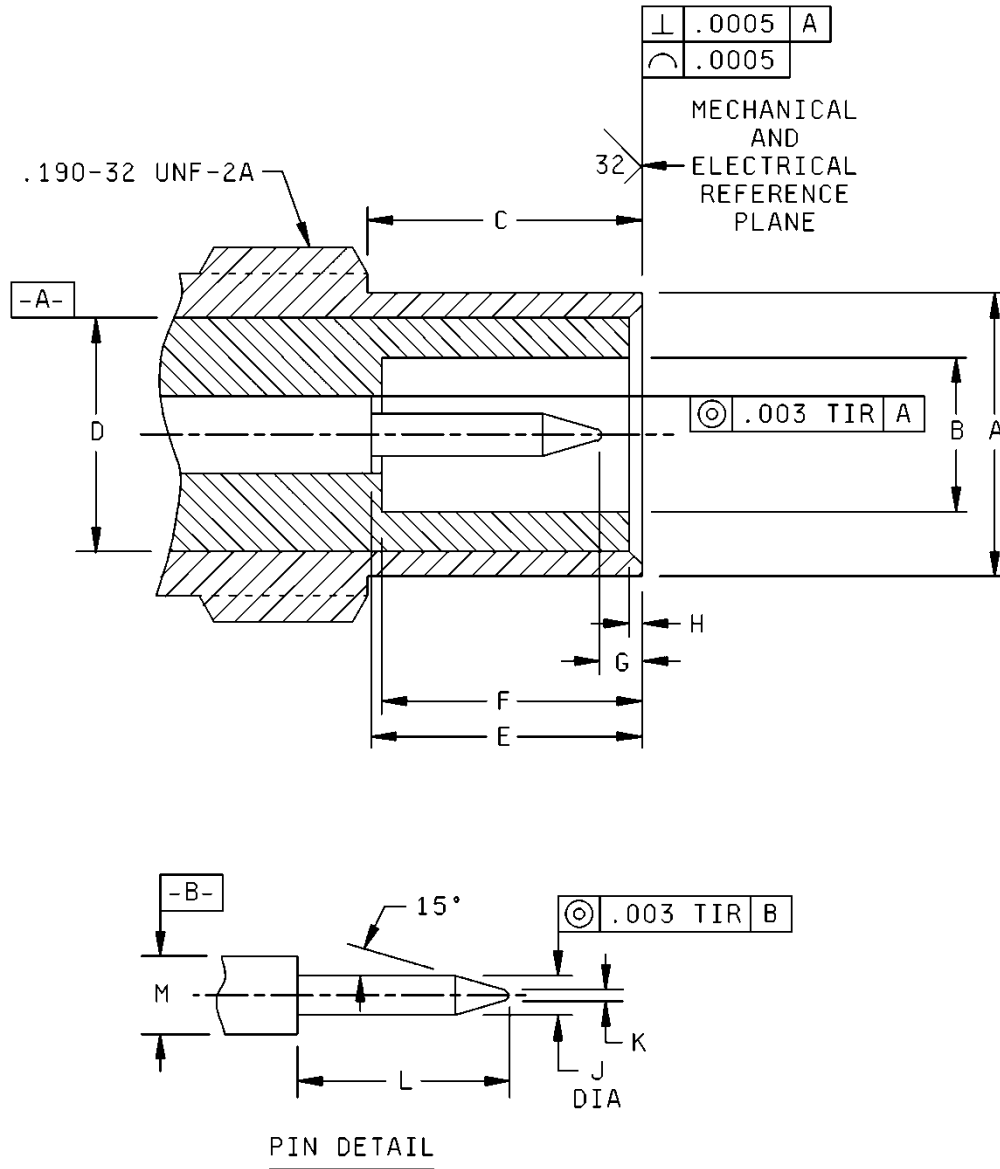


FIGURE 408-1. Interface, test connector, series SMC, pin contact.

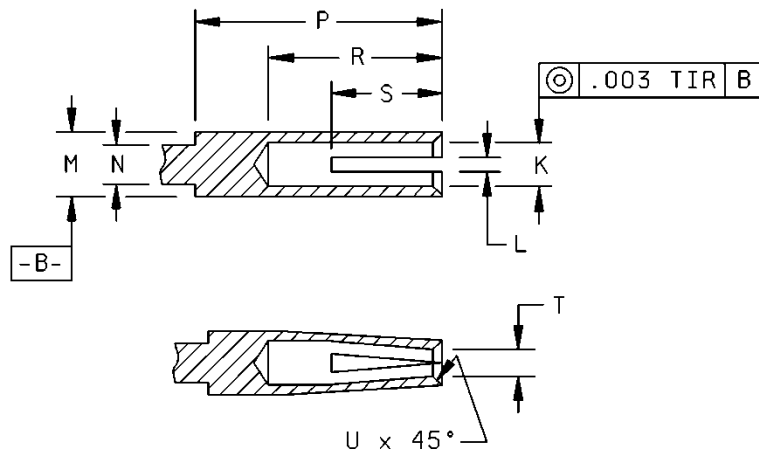
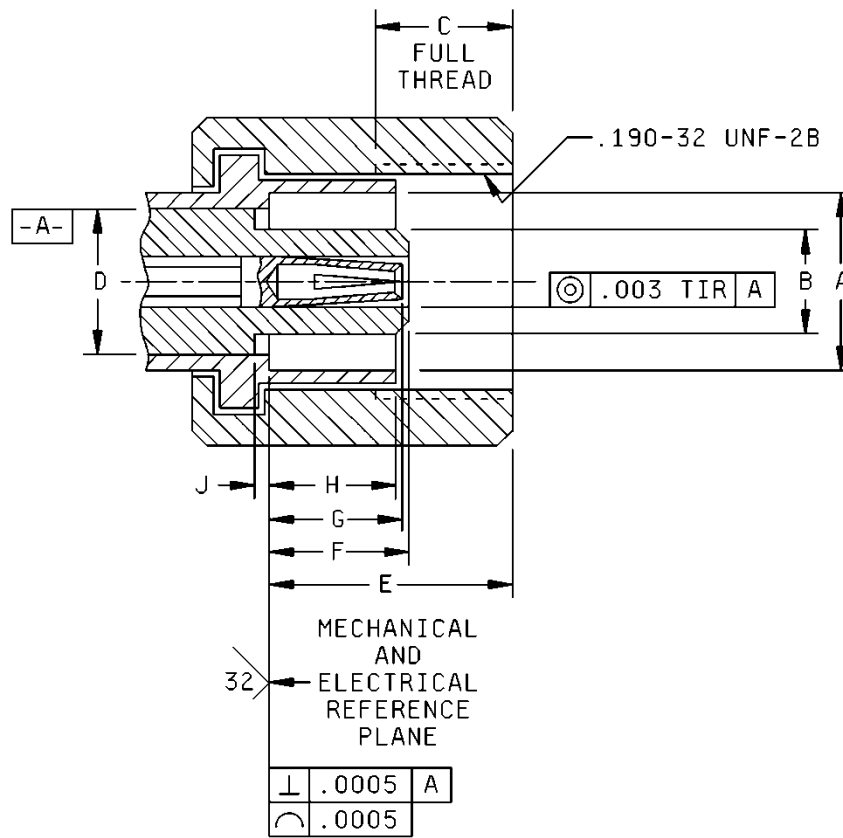
## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .144 (3.66)   | .146 (3.71)   |
| B          | .082 (2.08)   | .085 (2.16)   |
| C          | .123 (3.12)   | .133 (3.38)   |
| D          | .120 (3.05)   | .121 (3.07)   |
| E          | .134 (3.40)   | .138 (3.51)   |
| F          | .134 (3.40)   | .142 (3.61)   |
| G          | .031 (0.79)   | -----         |
| H          | .000 (0.00)   | .005 (0.13)   |
| J          | .019 (0.48)   | .021 (0.53)   |
| K          | -----         | .010 (0.25)   |
| L          | .099 (2.51)   | .103 (2.62)   |
| M          | .0381 (0.968) | .0389 (0.988) |

FIGURE 408-1. Interface, test connector, series SMC, pin contact - Continued.



MIL-STD-348B



DETAIL OF FEMALE CONTACT

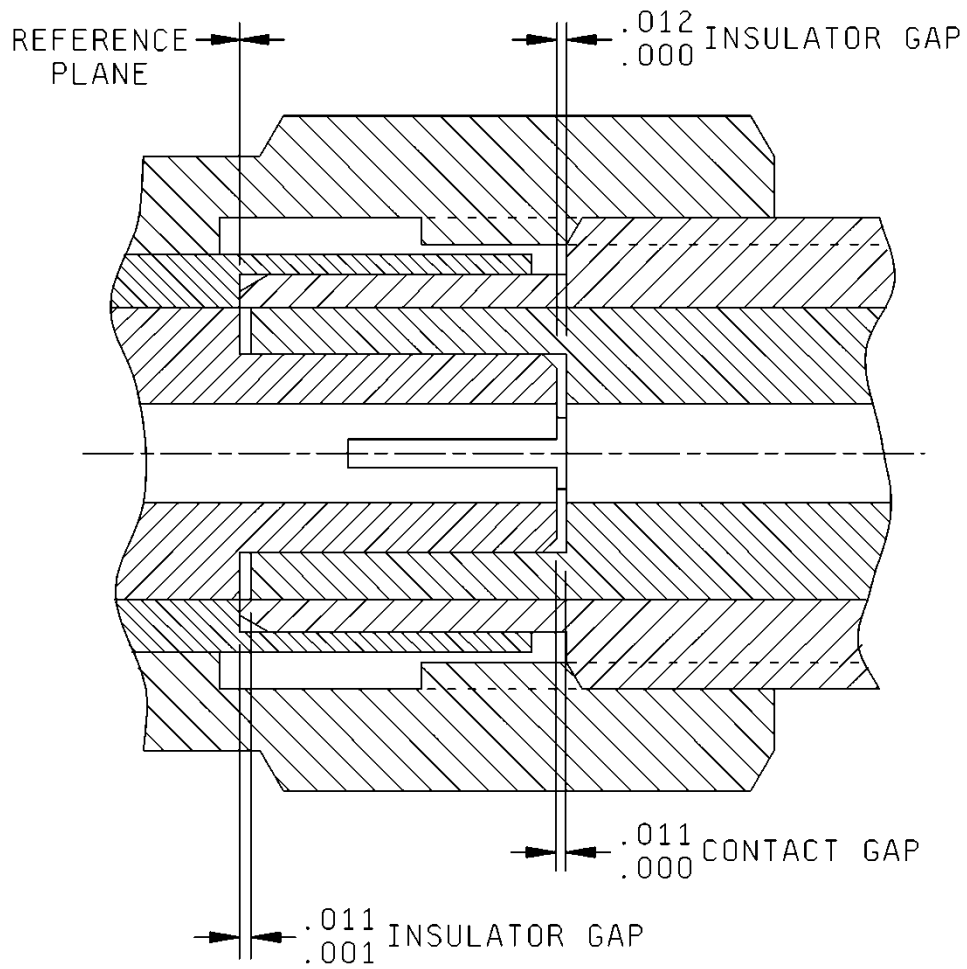
FIGURE 408-2. Interface, test connector, series SMC, socket contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .147 (3.73)   | .150 (3.81)   |
| B          | .079 (2.01)   | .081 (2.06)   |
| C          | .110 (2.79)   | -----         |
| D          | .120 (3.05)   | .121 (3.07)   |
| E          | -----         | .233 (5.92)   |
| F          | .130 (3.30)   | .134 (3.40)   |
| G          | .127 (3.23)   | .134 (3.40)   |
| H          | .120 (3.05)   | .122 (3.10)   |
| J          | .000 (0.00)   | .006 (0.15)   |
| K          | .0219 (0.556) | .0236 (0.599) |
| L          | .005 (0.13)   | .009 (0.23)   |
| M          | .0396 (1.006) | .0404 (1.026) |
| N          | .0381 (0.968) | .0389 (0.998) |
| P          | .1325 (3.365) | .1375 (3.492) |
| R          | .110 (2.79)   | -----         |
| S          | .065 (1.65)   |               |
| T          | .0155 (0.394) | .0190 (0.483) |
| U          | .002 (0.05)   | .006 (0.15)   |

FIGURE 408-2. Interface, test connector, series SMC, socket contact - Continued.

MIL-STD-348B



| Inches | (mm)   |
|--------|--------|
| .001   | (0.03) |
| .011   | (0.28) |
| .012   | (0.30) |

FIGURE 408-3. Interface, mated test connector, series SMC.

MIL-STD-348B

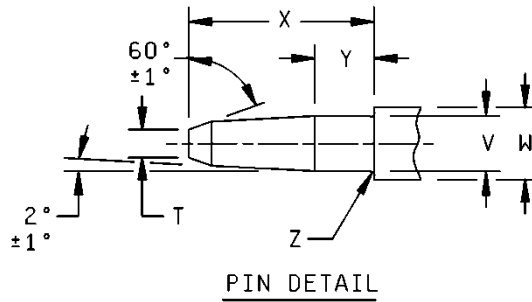
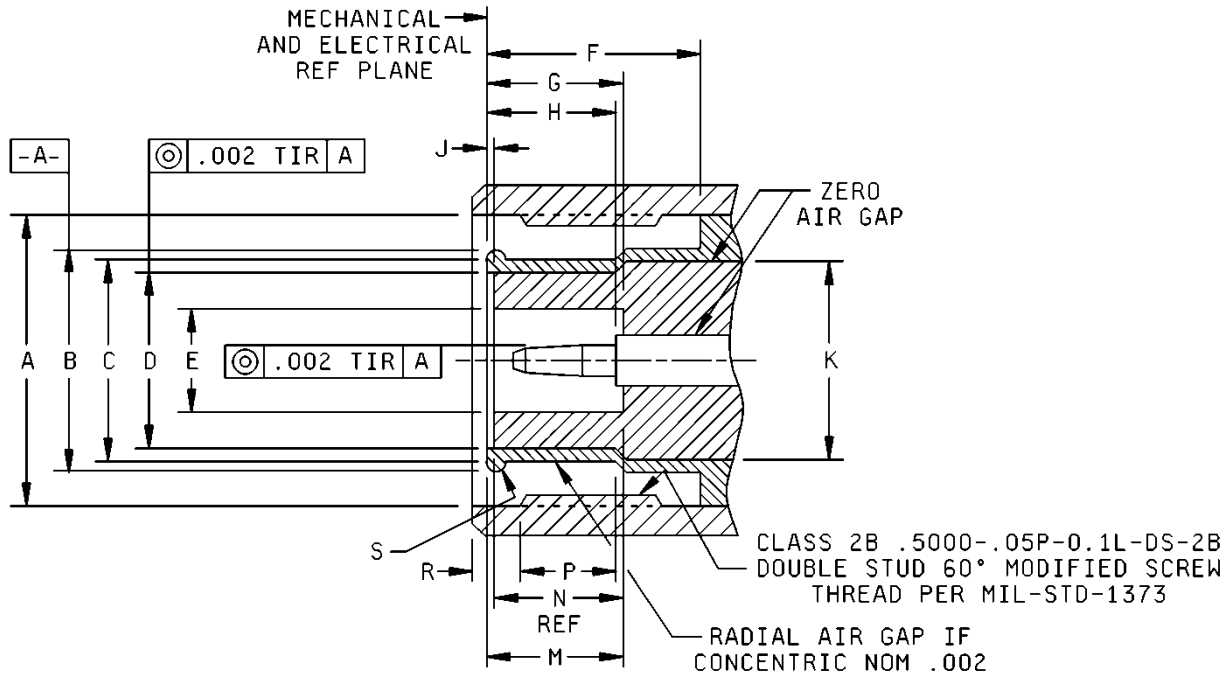


FIGURE 409-1. Interface, test connector, series QNC, pin contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)           |                 |
|------------|-----------------------|-----------------|
|            | Minimum               | Maximum         |
| A          | .516 (13.11)          | .519 (13.18)    |
| B          | .319 (8.10)           | .321 (8.15)     |
| C          | .2645 (6.718)         | .2655 (6.744)   |
| D          | .260 (6.60)           | .262 (6.65)     |
| E          | .190 (4.83)           | -----           |
| F          | .340 (8.64)           | -----           |
| G          | .212 (5.38)           | .218 (5.54)     |
| H          | .209 (5.31)           | .212 (5.38)     |
| J          | .006 (0.15)           | .012 (0.30)     |
| K          | .2751 (6.987)         | .2761 (7.013)   |
| M          | .209 (5.31)           | .211 (5.36)     |
| N          | .203 (5.16) Reference |                 |
| P          | .271 (6.88)           | .291 (7.39)     |
| R          | .088 (2.24)           | .098 (2.49)     |
| S          | .029 (0.74)           | .035 (0.89)     |
| T          | .013 (0.33)           | .027 (0.69)     |
| V          | .0530 (1.346)         | .0540 (1.372)   |
| W          | .0837 (2.126)         | .0847 (2.151)   |
| X          | .182 (4.62)           | .192 (4.88)     |
| Y          | .035 (0.89)           | .045 (1.14)     |
| Z          | -----                 | .005 (0.13) Rad |

FIGURE 409-1. Interface, test connector, series QNC, pin contact - Continued.

MIL-STD-348B

CLASS 2A .5000-0.05-0.1L-DS-2A  
 DOUBLE STUD 60° MODIFIED  
 SCREW THREADS PER MIL-STD-1373

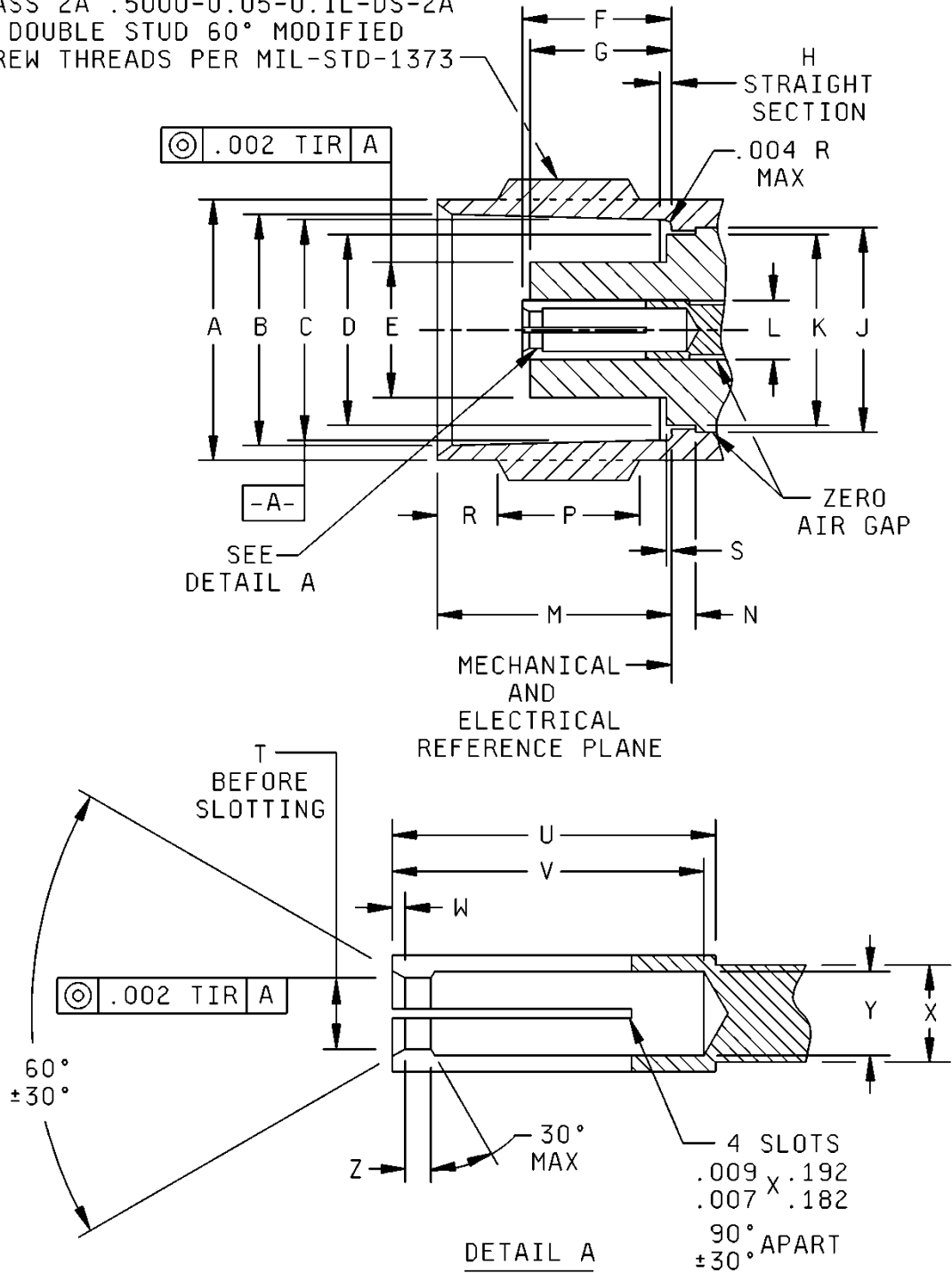


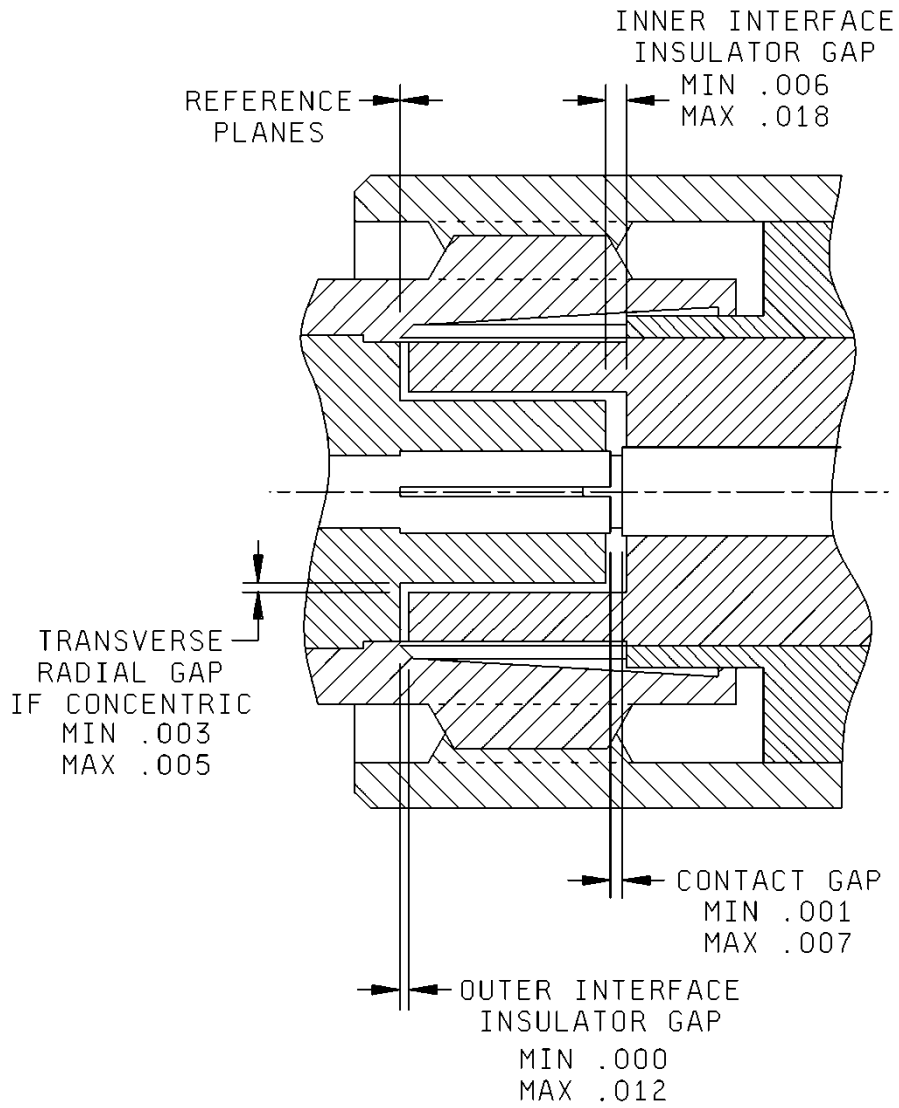
FIGURE 409-2. Interface, test connector, series QNC, socket contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)   |               |
|------------|---------------|---------------|
|            | Minimum       | Maximum       |
| A          | .446 (11.33)  | .449 (11.40)  |
| B          | .327 (8.31)   | .333 (8.46)   |
| C          | .319 (8.10)   | .321 (8.15)   |
| D          | .264 (6.71)   | .266 (6.76)   |
| E          | .184 (4.67)   | .186 (4.72)   |
| F          | .205 (5.21)   | .208 (5.28)   |
| G          | .200 (5.08)   | .206 (5.23)   |
| H          | .026 (0.66)   | .036 (0.91)   |
| J          | .2751 (6.987) | .2761 (7.013) |
| K          | .259 (6.58)   | .263 (6.68)   |
| L          | .186 (4.72)   | .188 (4.78)   |
| M          | .309 (7.85)   | .313 (7.95)   |
| N          | .031 (0.79)   | .033 (0.84)   |
| P          | .271 (6.88)   | .291 (7.39)   |
| R          | .088 (2.24)   | .098 (2.49)   |
| S          | .000 (0.00)   | .006 (0.15)   |
| T          | .0330 (0.838) | .0340 (0.864) |
| U          | .219 (5.56)   | .281 (7.14)   |
| V          | .238 (6.05)   | .240 (6.10)   |
| W          | .002 (0.05)   | .008 (0.20)   |
| X          | .0837 (2.126) | .0847 (2.151) |
| Y          | .060 (1.52)   | .064 (1.63)   |
| Z          | .015 (0.38)   | .035 (0.89)   |

FIGURE 409-2. Interface, test connector, series QNC, socket contact – Continued.

MIL-STD-348B



| Inches | (mm) |
|--------|------|
| .001   | 0.03 |
| .003   | 0.08 |
| .005   | 0.13 |
| .006   | 0.15 |
| .007   | 0.18 |
| .012   | 0.30 |
| .018   | 0.46 |

FIGURE 409-3. Gap of mated standard test connector, series QNC.



MIL-STD-348B

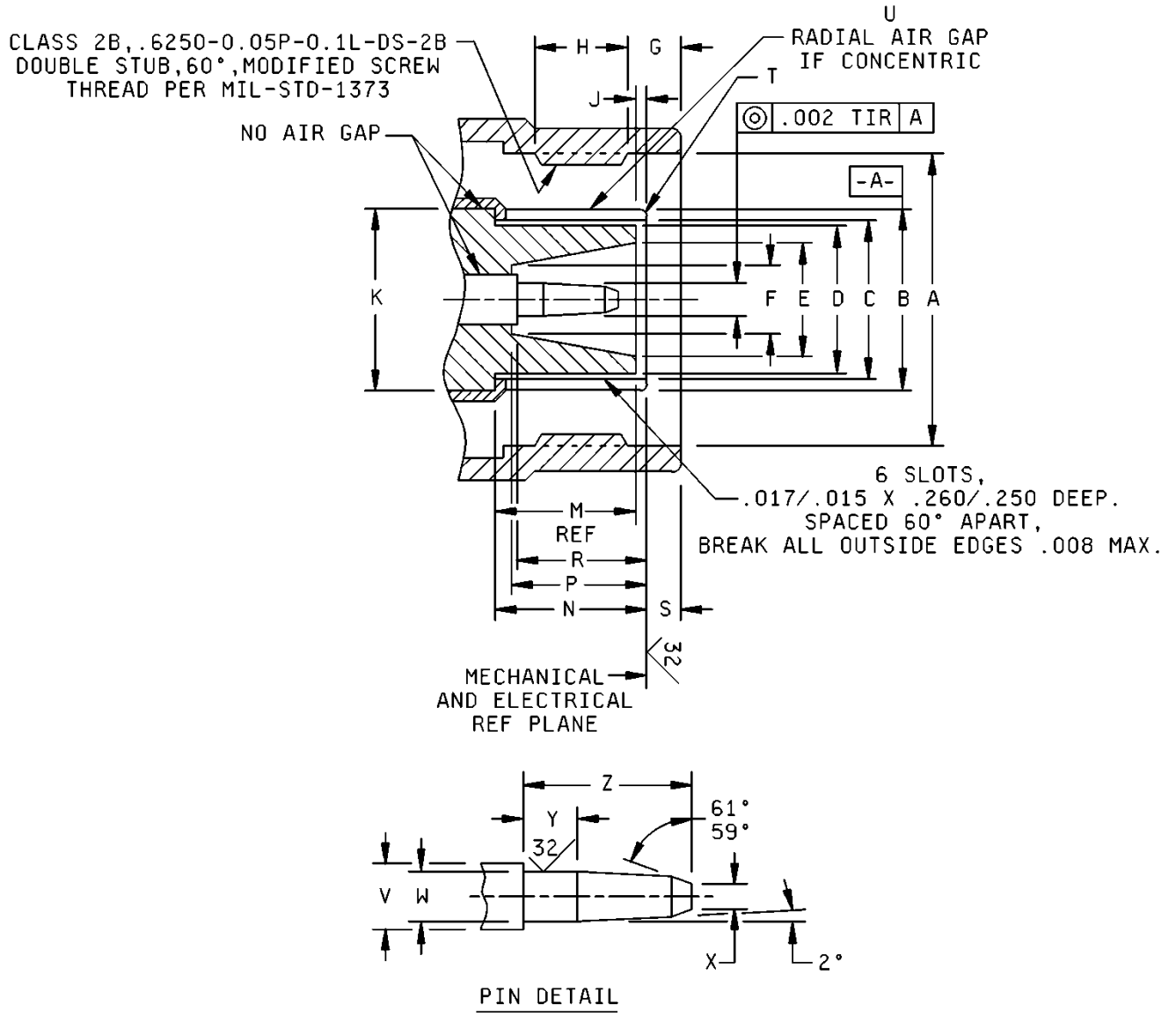


FIGURE 410-1. Interface, test connector, series QSC, pin contact.

## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)           |                  |
|------------|-----------------------|------------------|
|            | Minimum               | Maximum          |
| A          | .639 (16.23)          | .645 (16.38)     |
| B          | .412 (10.46)          | .414 (10.52)     |
| C          | .3815 (9.69)          | .3825 (9.72)     |
| D          | .375 (9.53)           | .379 (9.63)      |
| E          | .286 (7.26)           | .290 (7.37)      |
| F          | .198 (5.03)           | .202 (5.13)      |
| G          | .088 (2.24)           | .098 (2.49)      |
| H          | .271 (6.88)           | .291 (7.39)      |
| J          | .007 (0.18)           | .013 (0.33)      |
| K          | .3915 (9.94)          | .3925 (9.97)     |
| M          | .350 (8.89) Reference |                  |
| N          | .359 (9.12)           | .361 (9.17)      |
| P          | .312 (7.92)           | .318 (8.08)      |
| R          | .306 (7.77)           | .309 (7.85)      |
| S          | -----                 | .085 (2.16)      |
| T          | .005 (0.13) Rad.      | .008 (0.20) Rad. |
| U          | .0025 (.06)           |                  |
| V          | .1192 (3.03)          | .1202 (3.05)     |
| W          | .0905 (2.30)          | .0915 (2.32)     |
| X          | .041 (1.04)           | .051 (1.30)      |
| Y          | .035 (0.89)           | .045 (1.14)      |
| Z          | .182 (4.62)           | .192 (4.88)      |

FIGURE 410-1. Interface, test connector, series QSC, pin contact – Continued.

MIL-STD-348B

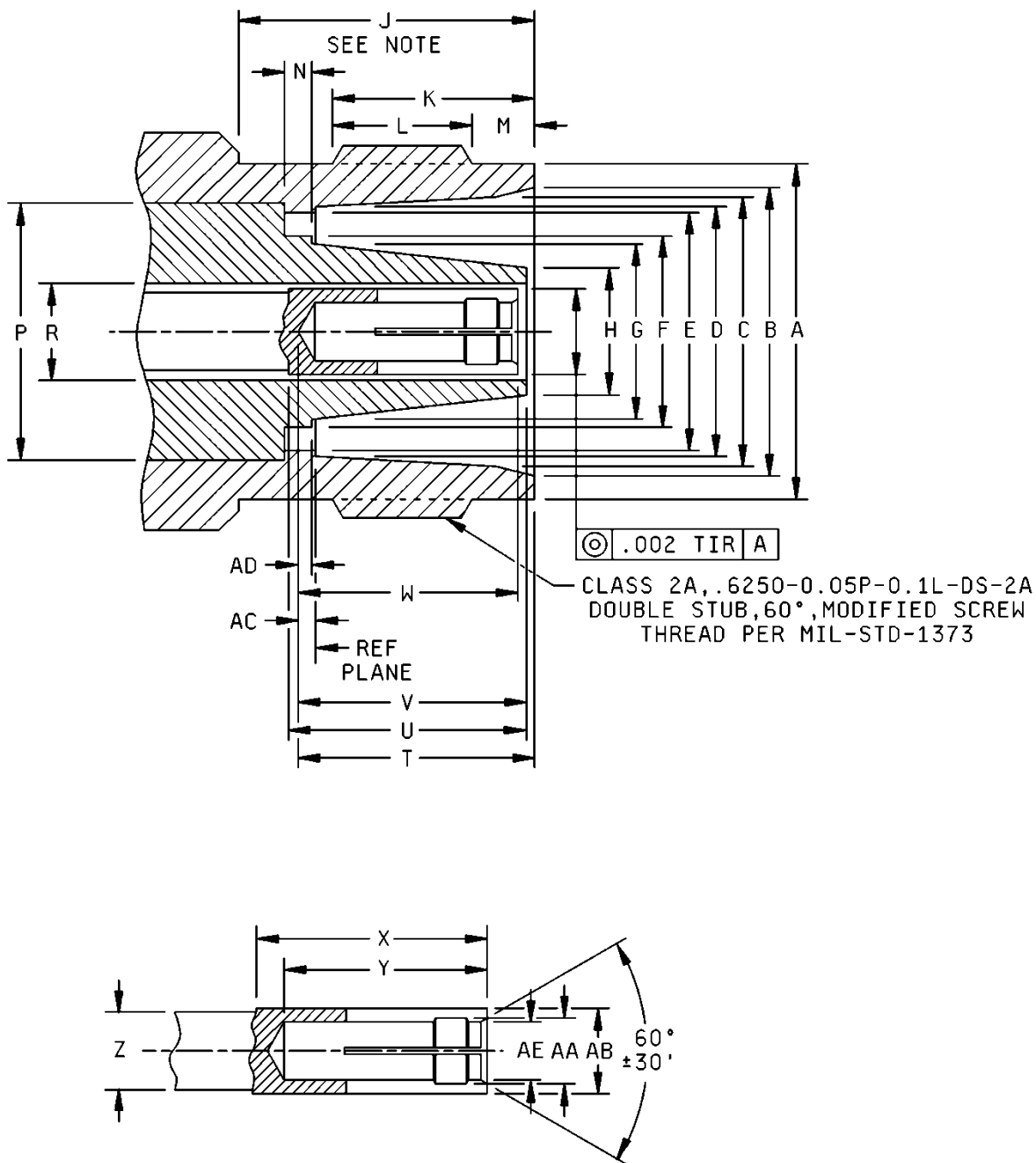


FIGURE 410-2. Interface, test connector, series QSC, socket contact.

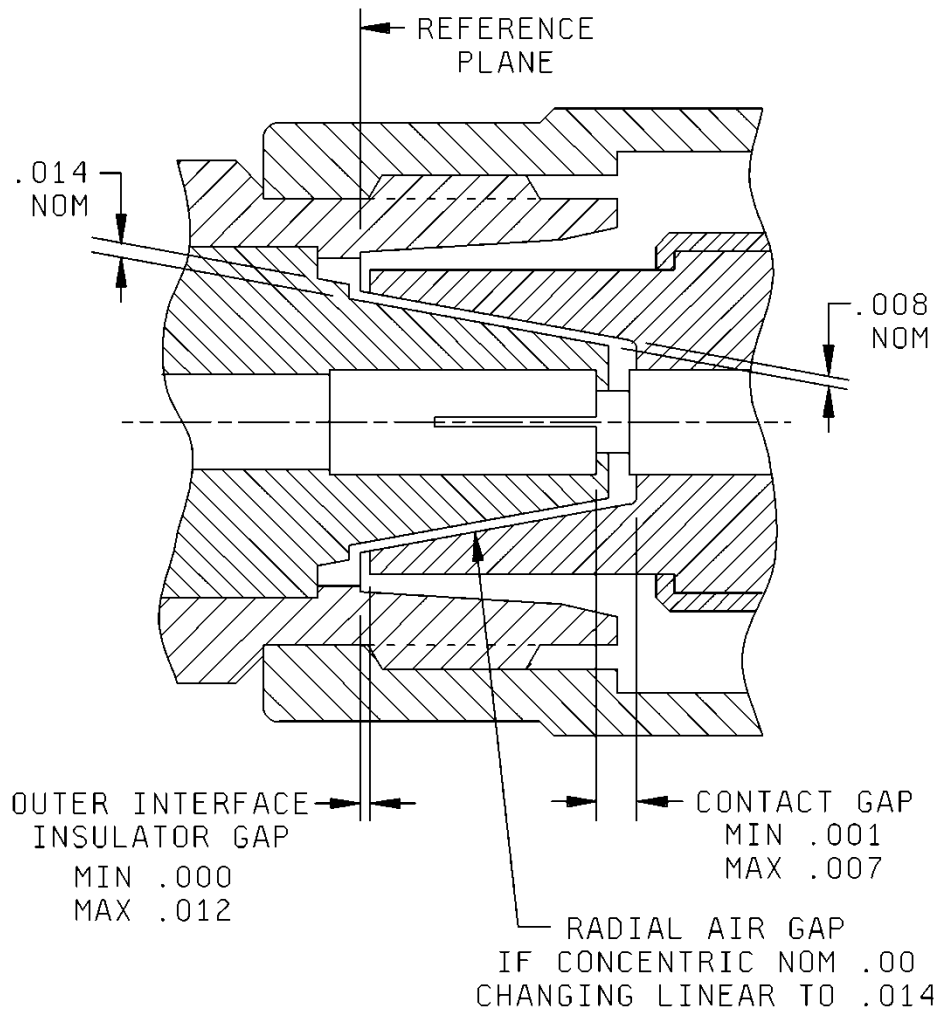
## MIL-STD-348B

| Dim<br>Ltr | Inches (mm)         |               |
|------------|---------------------|---------------|
|            | Minimum             | Maximum       |
| A          | .571 (14.50)        | .574 (14.58)  |
| B          | .485 (12.32)        | .495 (12.57)  |
| C          | .440 (11.18)        | .450 (11.43)  |
| D          | .411 (10.44)        | .415 (10.54)  |
| E          | .381 (9.68)         | .383 (9.73)   |
| F          | .298 (7.57)         | .302 (7.67)   |
| G          | .258 (6.55)         | .262 (6.65)   |
| H          | .182 (4.62)         | .186 (4.72)   |
| J          | .495 (12.57)        | -----         |
| K          | .371 (9.42)         | .377 (9.58)   |
| L          | .271 (6.88)         | .291 (7.39)   |
| M          | .088 (2.24)         | .098 (2.49)   |
| N          | .031 (.79)          | .033 (.84)    |
| P          | .3915 (9.94)        | .3925 (9.97)  |
| R          | .127 (3.23)         | .129 (3.28)   |
| T          | .304 (7.72)         | .306 (7.77)   |
| U          | .388 (9.86) nominal |               |
| V          | .303 (7.70)         | .309 (7.85)   |
| W          | .300 (7.62)         | .303 (7.70)   |
| X          | .337 (8.56) nominal |               |
| Y          | .325 (8.26)         | -----         |
| Z          | .1192 (3.030)       | .1202 (3.050) |
| AA         | .097 (2.46)         | .101 (2.57)   |
| AB         | .1255 (3.19)        | .1265 (3.21)  |
| AC         | .020 (0.51)         | .040 (1.02)   |
| AD         | .001 (0.02)         | .007 (0.18)   |
| AE         | .0905 (2.30)        | .0915 (2.32)  |

NOTE: Clearance for mating coupling nut.

FIGURE 410-2. Interface, test connector, series QSC, socket contact – Continued.

MIL-STD-348B



| Inches | (mm)   |
|--------|--------|
| .000   | (0.00) |
| .001   | (0.02) |
| .007   | (0.18) |
| .008   | (0.20) |
| .012   | (0.30) |
| .014   | (0.36) |

FIGURE 410-3. Gap of mated standard test connector, series QSC.

MIL-STD-348B

Concluding Material

Custodians:

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

Preparing activities:  
DLA – CC

(Project 5935-2014-100)

Review activities:

Army – AT, AV, MI  
Navy – AS, CG, MC, SH  
Air Force – 99

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