

INCH-POUND

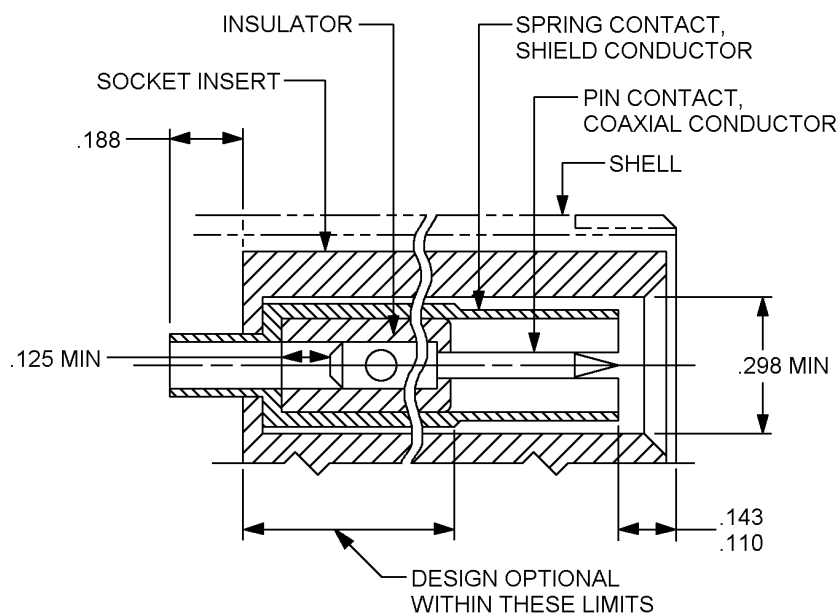
MS33695A  
 9 July 2004  
 SUPERSEDING  
 MS33695  
 17 December 1958

DETAIL SPECIFICATION SHEET

CONTACTS, VIDEO COAXIAL CONNECTOR

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet.



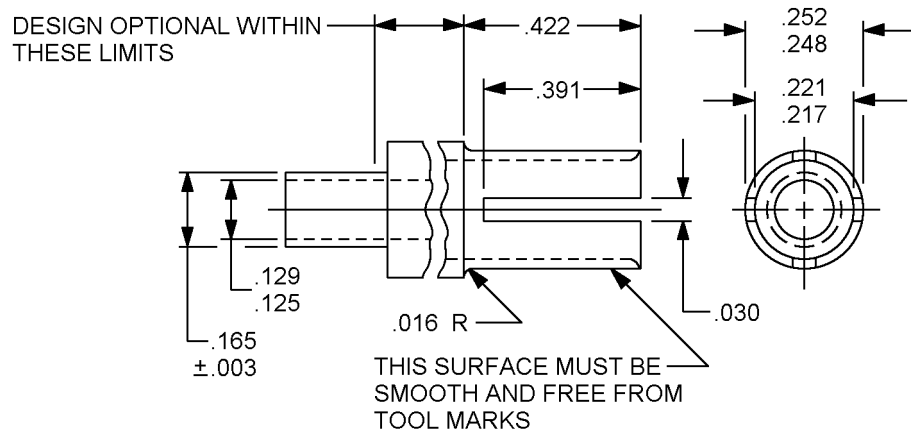
NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance shall be  $\pm .016$  (.406 mm).

| Inches | mm    |
|--------|-------|
| .110   | 2.794 |
| .125   | 3.175 |
| .143   | 3.632 |
| .188   | 4.775 |
| .298   | 7.570 |

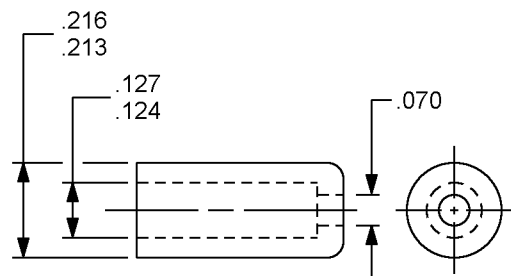
FIGURE 1. Pin contact assembly, coaxial connector.

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| Inches | mm    | Inches | mm     |
|--------|-------|--------|--------|
| .003   | .076  | .217   | 5.512  |
| .016   | .406  | .221   | 5.613  |
| .030   | .762  | .248   | 6.300  |
| .125   | 3.175 | .252   | 6.401  |
| .129   | 3.276 | .391   | 9.931  |
| .165   | 3.276 | .422   | 10.720 |

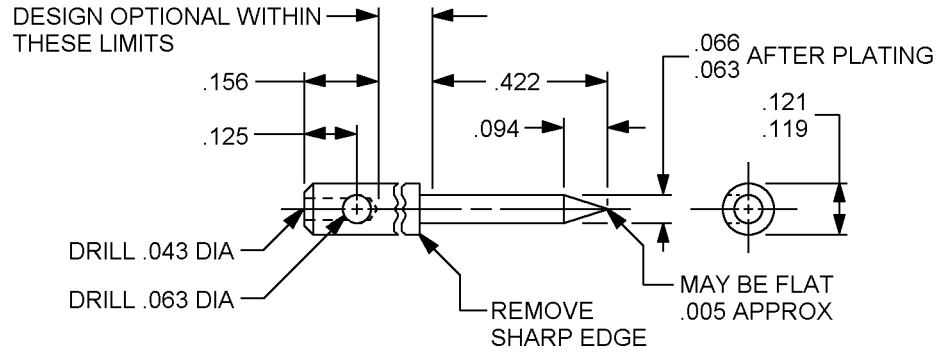
FIGURE 2. Spring contact, shield conductor.



| Inches | mm    |
|--------|-------|
| .070   | 1.778 |
| .124   | 3.149 |
| .127   | 3.226 |
| .213   | 5.410 |
| .216   | 5.486 |

FIGURE 3. Insulator.

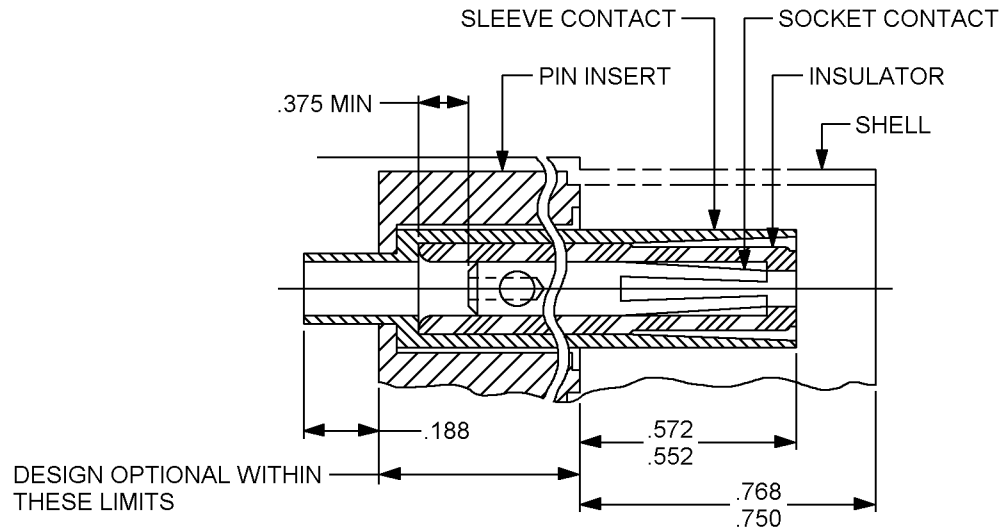
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| Inches | mm    | Inches | mm     |
|--------|-------|--------|--------|
| .005   | .127  | .121   | 3.073  |
| .043   | 1.092 | .125   | 3.175  |
| .063   | 1.600 | .156   | 3.962  |
| .066   | 1.676 | .422   | 10.718 |
| .094   | 2.387 |        |        |
| .119   | 3.022 |        |        |

FIGURE 4. Pin contact, coaxial conductor.

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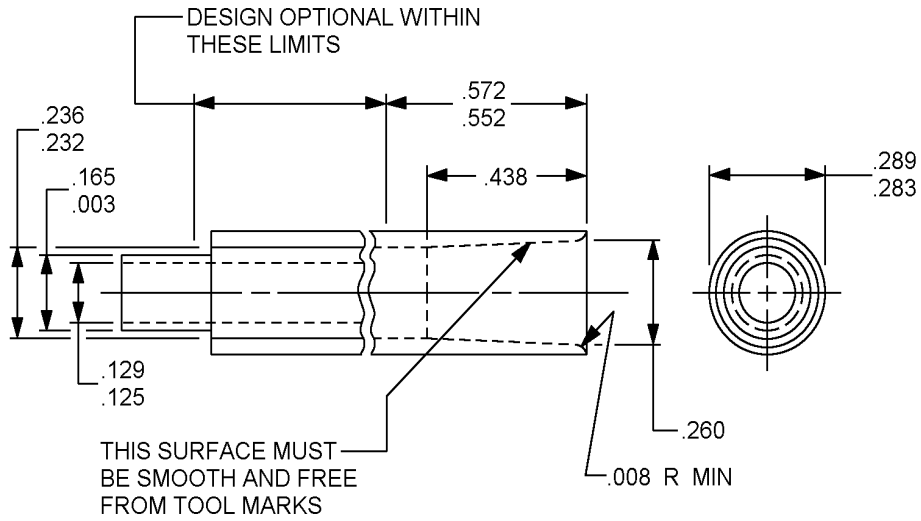
| Inches | mm     |
|--------|--------|
| .188   | 4.775  |
| .375   | 14.300 |
| .552   | 14.020 |
| .572   | 14.528 |
| .750   | 19.050 |
| .768   | 19.507 |

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance shall be  $\pm 0.016$ .

FIGURE 5. Socket contact assembly, coaxial connector.

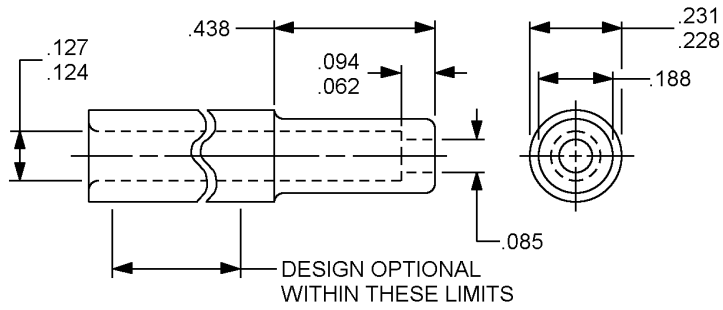
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| Inches | mm    | Inches | mm     |
|--------|-------|--------|--------|
| .003   | .076  | .260   | 6.604  |
| .008   | .203  | .283   | 7.188  |
| .125   | 3.175 | .289   | 7.340  |
| .129   | 3.276 | .438   | 11.125 |
| .165   | 4.191 | .552   | 14.020 |
| .232   | 5.893 | .572   | 14.528 |
| .236   | 5.994 |        |        |

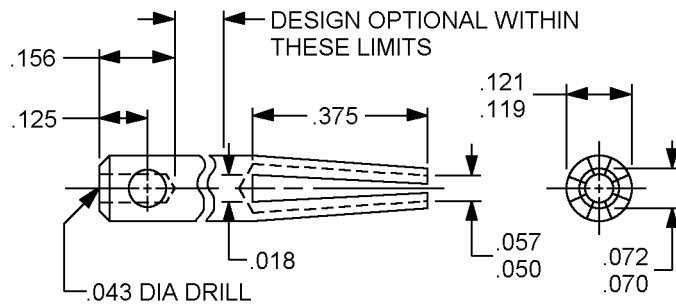
FIGURE 6. Socket, sleeve contact, shield conductor.

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| Inches | mm    | Inches | mm     |
|--------|-------|--------|--------|
| .062   | 1.575 | .188   | 4.775  |
| .085   | 2.159 | .228   | 5.791  |
| .094   | 2.387 | .231   | 5.867  |
| .124   | 3.149 | .438   | 11.125 |
| .127   | 3.226 |        |        |

FIGURE 7. Socket, insulator.



| Inches | mm    | Inches | mm    |
|--------|-------|--------|-------|
| .018   | .457  | .119   | 3.022 |
| .043   | 1.092 | .121   | 3.073 |
| .050   | 1.270 | .125   | 3.175 |
| .057   | 1.448 | .156   | 3.962 |
| .070   | 1.778 | .375   | 9.525 |
| .072   | 1.828 |        |       |

FIGURE 8. Socket contact, coaxial conductor.

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Requirements:

Design and construction: See figures 1 through 8.

Material:

- a. Pin contact and sleeve contact: Brass, ½ hard, composition 22, in accordance with ASTM B121, ASTM B36, ASTM B16, ASTM B16M and ASTM B124.
- b. Spring contact and socket contact: In accordance with ASTM B139.
- c. Insulator: Styramic HT, G.E. 1421 copolymer or DOW Q-200.5 copolymer.

Finish: Metal parts, gold plate, .0002 inches (.0051 mm).

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Reference documents. This document references the following:

ASTM B16  
ASTM B16M  
ASTM B36  
ASTM B121  
ASTM B124  
ASTM B139

CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - AS  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC  
  
(Project 5935-4419-026)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://www.dodssp.daps.mil>.