MIL-STD-348 Rev. B

PERFORMANCE SPECIFICATION FOR RADIO FREQUENCY COAXIAL, TRIAXIAL, AND TWINAXIAL CONNECTORS AND INTERFACES

Effective Date: February 9, 2009

DEFENSE LOGISTICS AGENCY
DEFENSE SUPPLY CENTER, COLUMBUS
POST OFFICE BOX 3990
COLUMBUS, OH 43218—3990

IN REPLY
REFER TO

DSCC -VAI (Mr. Ron Gary/(DSN 850)614-692-0568) 9 February 2009

Memorandum for military/industry distribution

SUBJECT: Initial Draft of: MIL-STD-348B; Interfaces, Radio Frequency Connector, Coaxial, Triaxial and Twinaxial.
Project Number: 5935-2008-176

The initial draft for the subject document is now available for viewing and downloading from the DSCC-VA Web site:

http://www.dscc.dla.mil/Programs/MilSpec/DocSearch.asp

Major changes to this document include inclusion of new interfaces, update drawings, total reformating and a complete review of all the drawings and tables for correctness and omissions of dimensions.

Considering the size of this document a thorough review by all military and industry is requested.

Concurrence or comments are required at this Center within 60 days from the date of this letter. Late comments will be held for the next coordination of the document. Comments from military departments must be identified as either "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians of this office, as applicable, in sufficient time to allow for consolidating the department reply.

If this document is of interest to you, please provide your comments or suggested changes. The point of contact for this document is Mr. Gary, phone number 614-692-0568, facsimile transmission, 614-692-6940, e-mail mailto:@dla.mil, or may be mailed via the US Postal Service, to the Defense Supply Center Columbus, ATTN: DSCC – VAI (Attention: Ron Gary), P.O. Box 3990, Columbus, OH 43218-3990.

Sincerely,

/ SIGNED /

ABDONASSER M. ABDOUNI
Chief,
Interconnection Branch

cc:
FMVA (Dave Barman)
VQP (Alexander Baillieul)

This draft, dated 3 February 2009, prepared by the Defense Supply Center Columbus, DLA-CC, has not been approved and is subject to modification.
DO NOT USE PRIOR TO APPROVAL.
(Project 5935-2008-176)

INCH-POUND

MIL-STD-348B
DRAFT
SUPERSEDING
MIL-STD-348A
20 April 1986

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**

FORWARD

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

2. Comments, suggestions, or questions on this document should be addressed to: Defense Supply Center Columbus, ATTN: VAI, P.O. Box 3990, Columbus, Ohio 43218-3990 or by email to RFConnectors@dscc.dla.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at http://assist.daps.dla.mil.

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1. SCOPE

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

1.2 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-39012, MIL-PRF-49142, MIL-PRF-55339 and MIL-DTL-83517. 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
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-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 STANDARDS

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

(Copies of these documents are available online at http://assist.daps.dla.mil/quicksearch/ or http://assist.daps.dla.mil or from the Standardization Documents Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094)

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 http://assist.daps.dla.mil/quicksearch/ or http://assist.daps.dla.mil.

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.

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. DETAILED 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.

Series	Life cycles
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.

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 be all military services and are deemed United States standards for radio frequency connector interfaces.

6.2 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 4,358,174 applies to series BMB interfaces.

U.S. patent number 4,426,127

U.S. patent number 4,358,174

6.3 Cross reference. To cross reference figures from the previous revision of this standard see table I.

TABLE I. Cross reference of figures.

Current interface figure number	Previous interface figure number	Current interface figure number	Previous interface figure number
1	101-1	26	306-1
2	101-2	27	306-2
3	102-1	28	307-1
4	102-2	29	307-2
5	102-3	30	308-1
6	103-1	31	308-2
7	103-2	32	309-1
8	104-1	33	309-2
9	104-2	34	310-1
10	201-1	35	310-2
11	201-2	36	310-3
12	202-1	37	311-1
13	202-2	38	311-2
14	327-1	39	312-1
15	327-2	40	312-2
16	301-1	41	313-1
17	301-2	42	313-2
18	302-1	43	313-3
19	302-2	44	313-4
20	303-1	45	314-1
21	303-2	46	314-2
22	304-1	47	315-1
23	304-2	48	315-2
24	305-1	49	315-3
25	305-2	50	315-4

TABLE I. Cross reference of figures. - Continued

Current interface figure number	Previous interface figure number	Current interface figure number	Previous interface figure number
51	315-5	89	----------
52	315-6	90	----------
53	316-1	91	----------
54	316-2	92	----------
55	316-3	93	----------
56	316-4	94	----------
57	317-1	95	----------
58	317-2	96	401-1
59	318-1	97	401-2
60	318-2	98	401-3
61	319-1	99	402-1
62	319-2	100	402-2
63	320-1	101	402-3
64	320-2	102	403-1
65	321-1	103	403-2
66	321-2	104	403-3
67	322-1	105	404-1
68	322-2	106	404-2
69	323-1	107	404-3
70	323-2	108	405-1
71	----------	109	405-2
72	----------	110	405-3
73	----------	111	406-1
74	325-1	112	406-2
75	325-2	113	406-3
76	326-1	114	407-1
77	326-1a	115	407-2
78	326-2	116	407-3
79	326-3	117	408-1
80	326-4	118	408-2
81	326-5	119	408-3
82	328-1	120	409-1
83	328-2	121	409-2
84	328-3	122	409-3
85	329-1	123	410-1
86	----------	124	410-2
87	329-2	125	410-3
88	----------		

6.4 Subject term (key word) listing.

Connector interfaces
Connector, radio frequency
Interfaces, radio frequency connector

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.

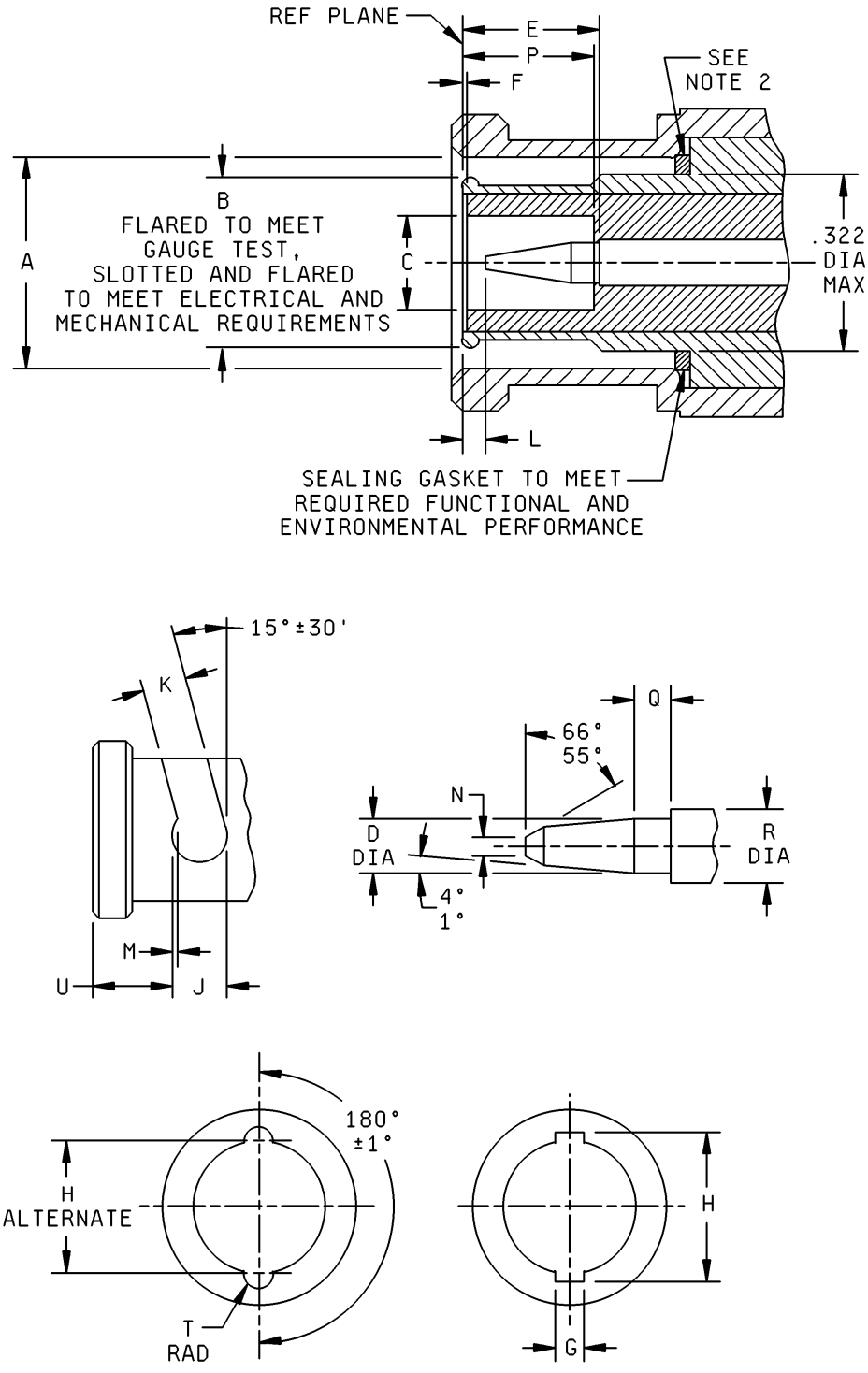


FIGURE 16. Interface, series BNC, pin contact.

Dim. 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 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 16. Interface, series BNC, pin contact – Continued.

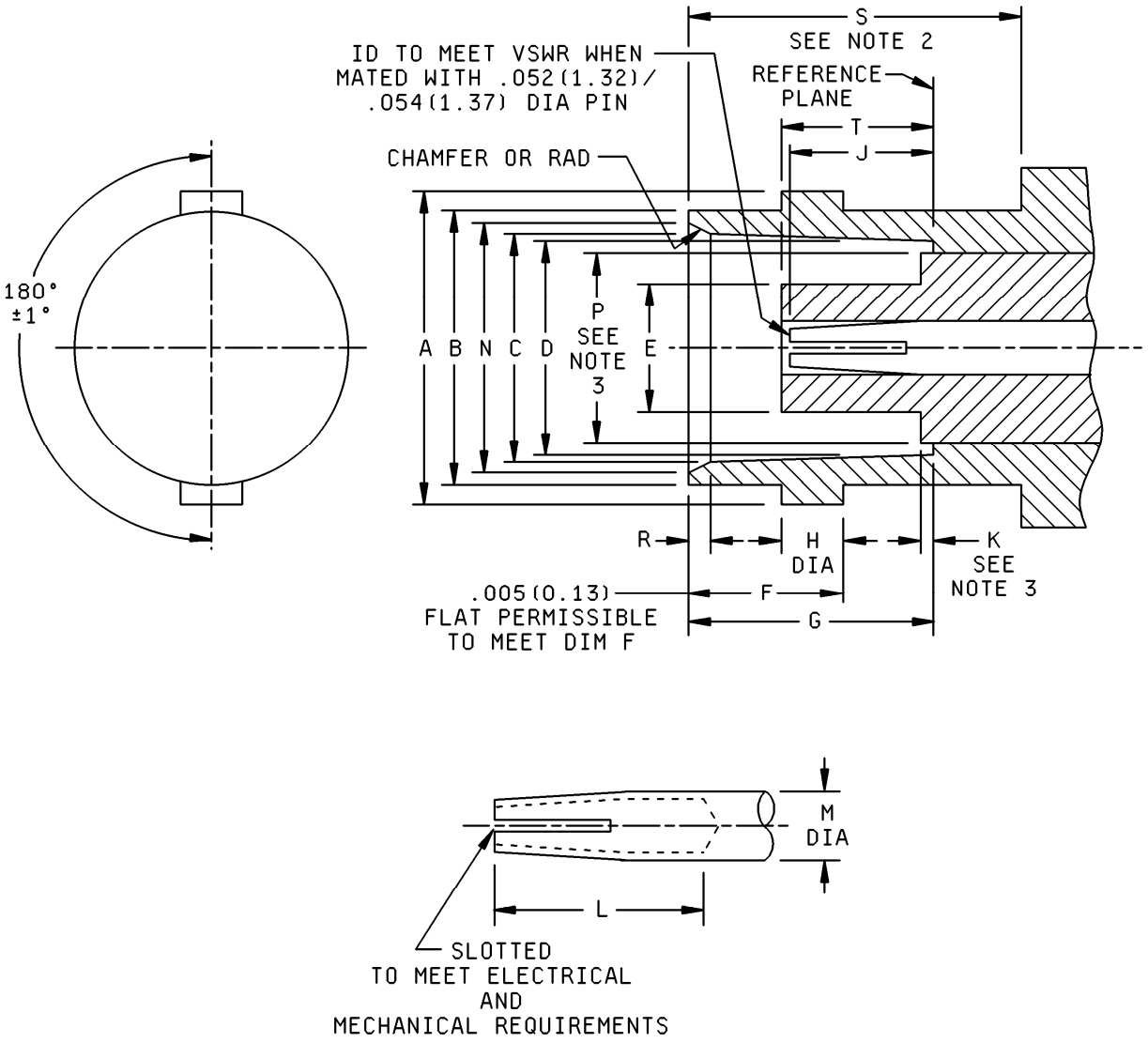


FIGURE 17. Interface, series BNC, socket contact.

Dim. 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 17. Interface, series BNC, socket contact - Continued.

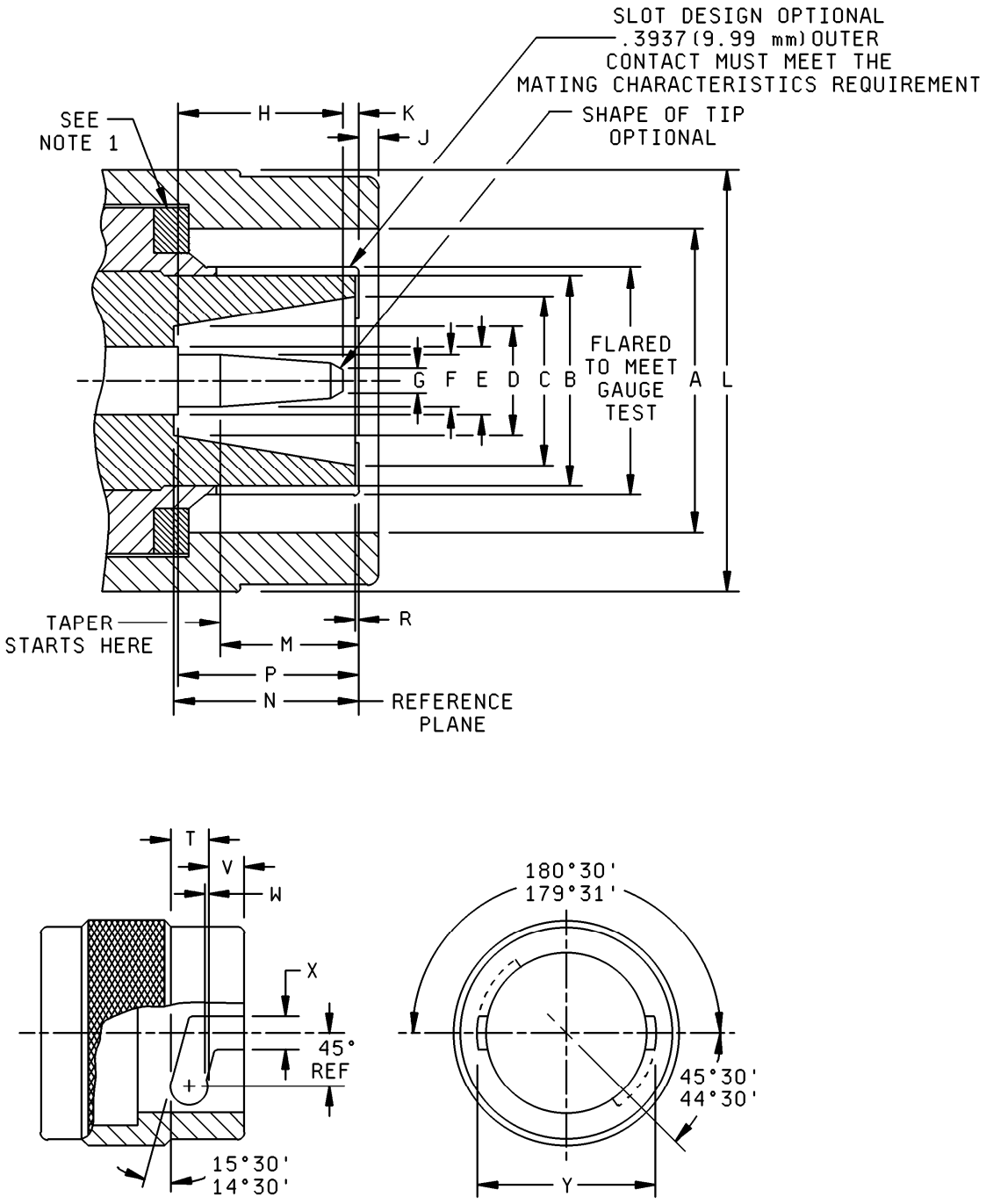


FIGURE 18. Interface, series C, pin contact.

Dim. 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 I.D. 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 18. Interface, series C, pin contact - Continued.

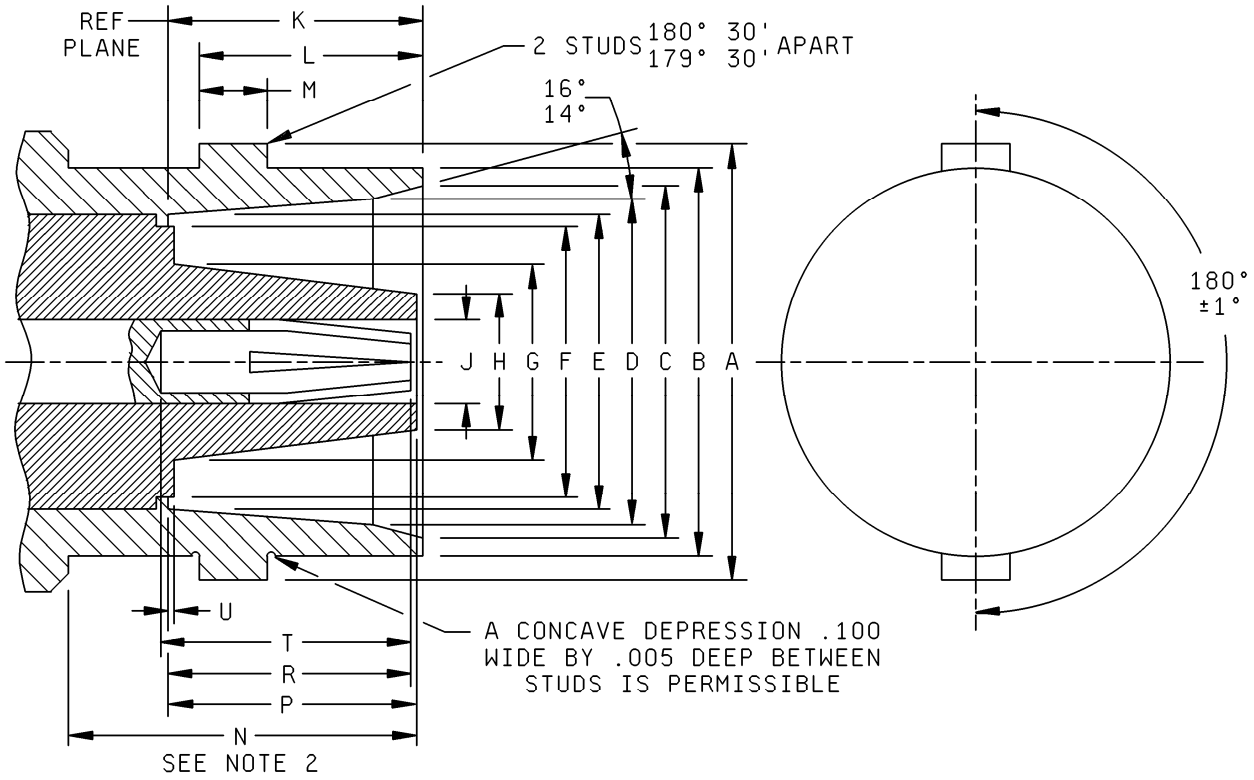


FIGURE 19. Interface, series C, socket contact.

Dim. 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 19. Interface, series C, socket contact. - Continued

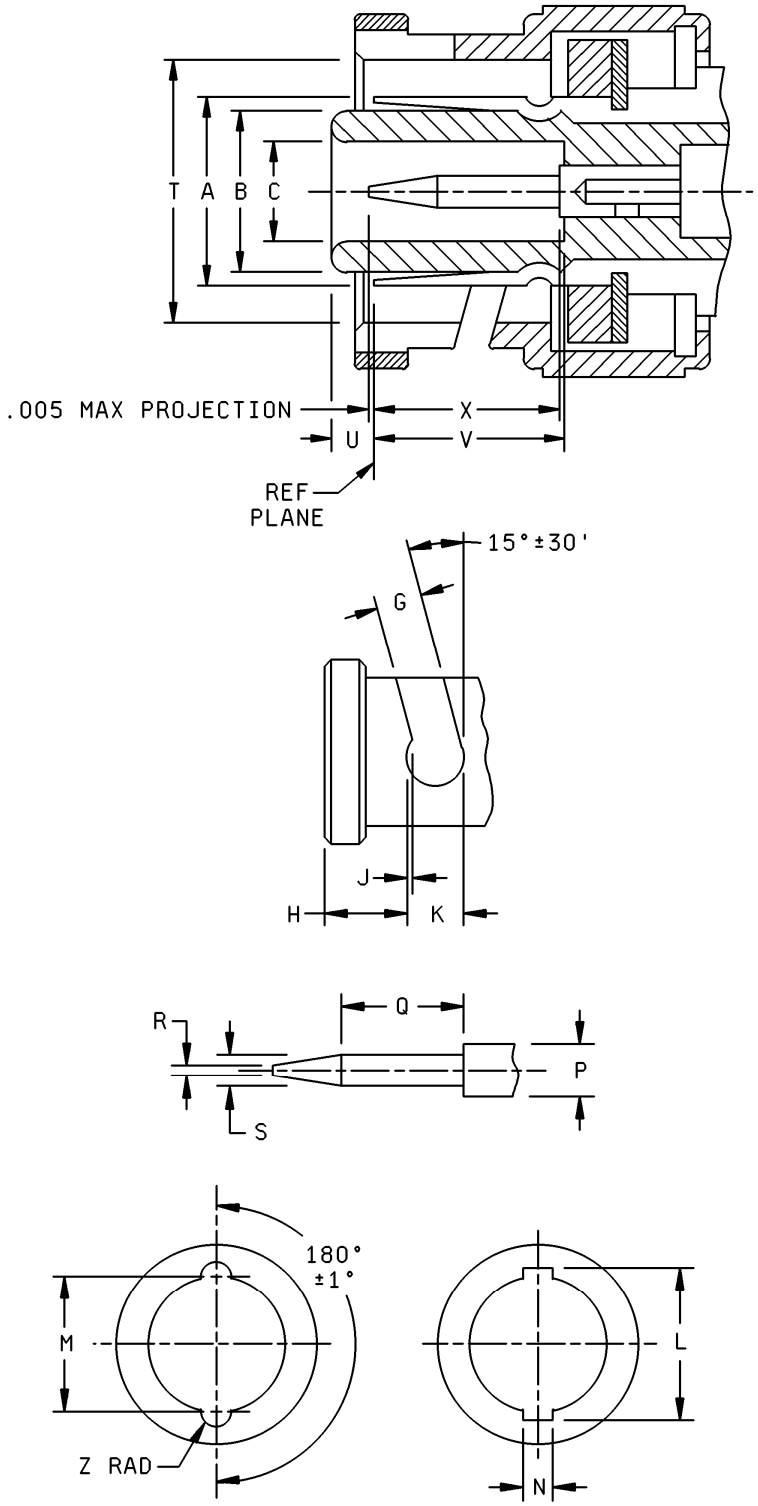


FIGURE 20. Interface, series MHV, pin contact.

Dim. 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 20. Interface, series MHV, pin contact - Continued.

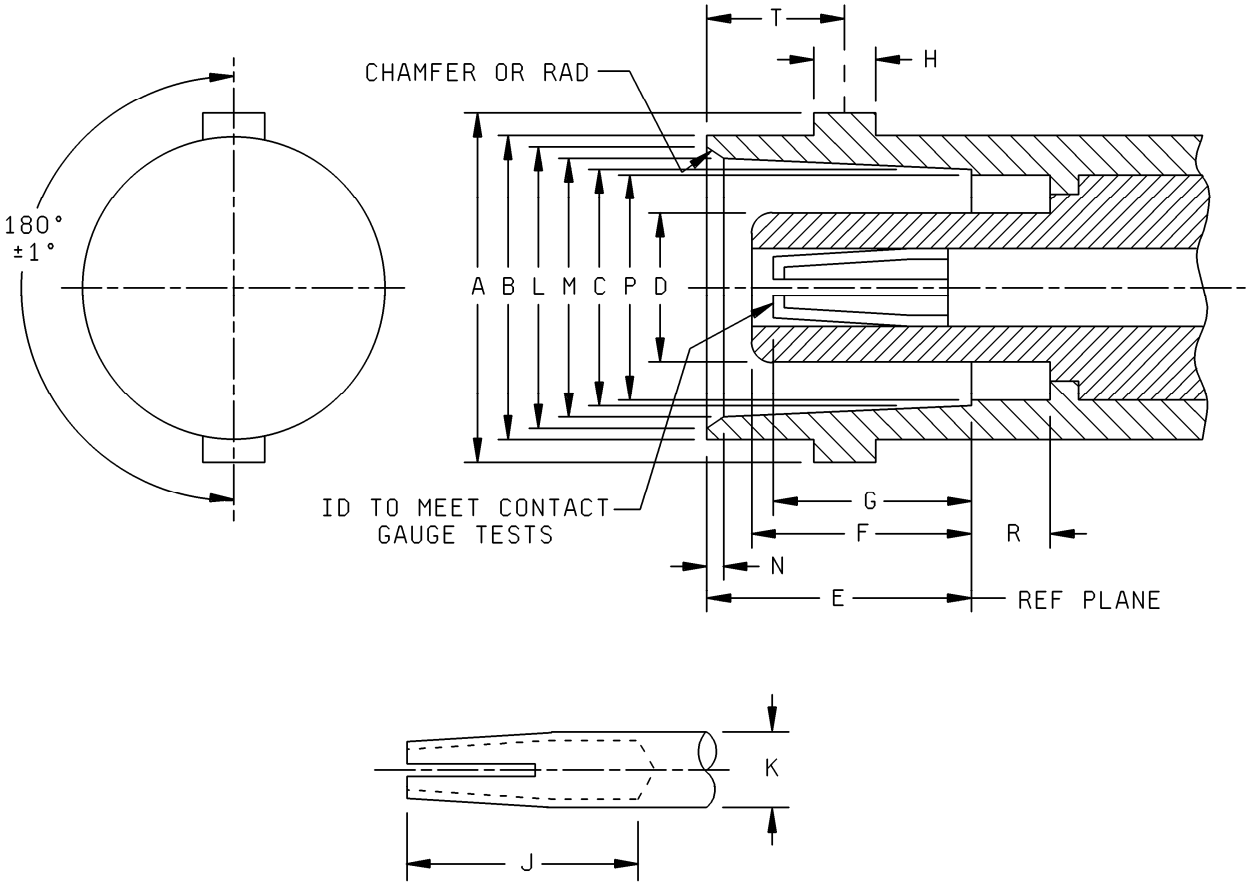


FIGURE 21. Interface, series MHV, socket contact.

Dim. 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 21. Interface, series MHV, socket contact - Continued.

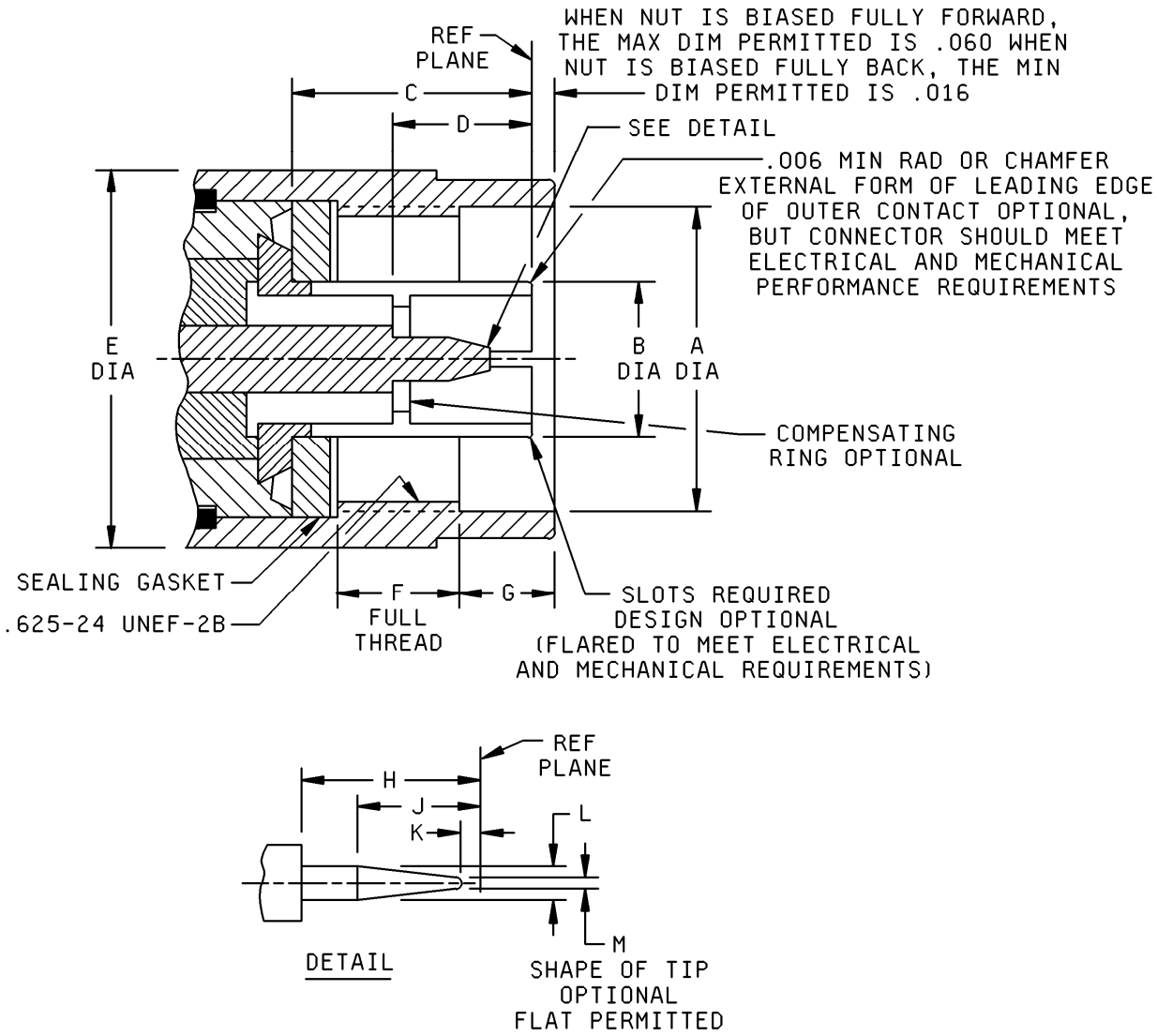


FIGURE 22. Interface, series N, pin contact.

Dim. 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.

FIGURE 22. Interface, series N, pin contact - Continued.

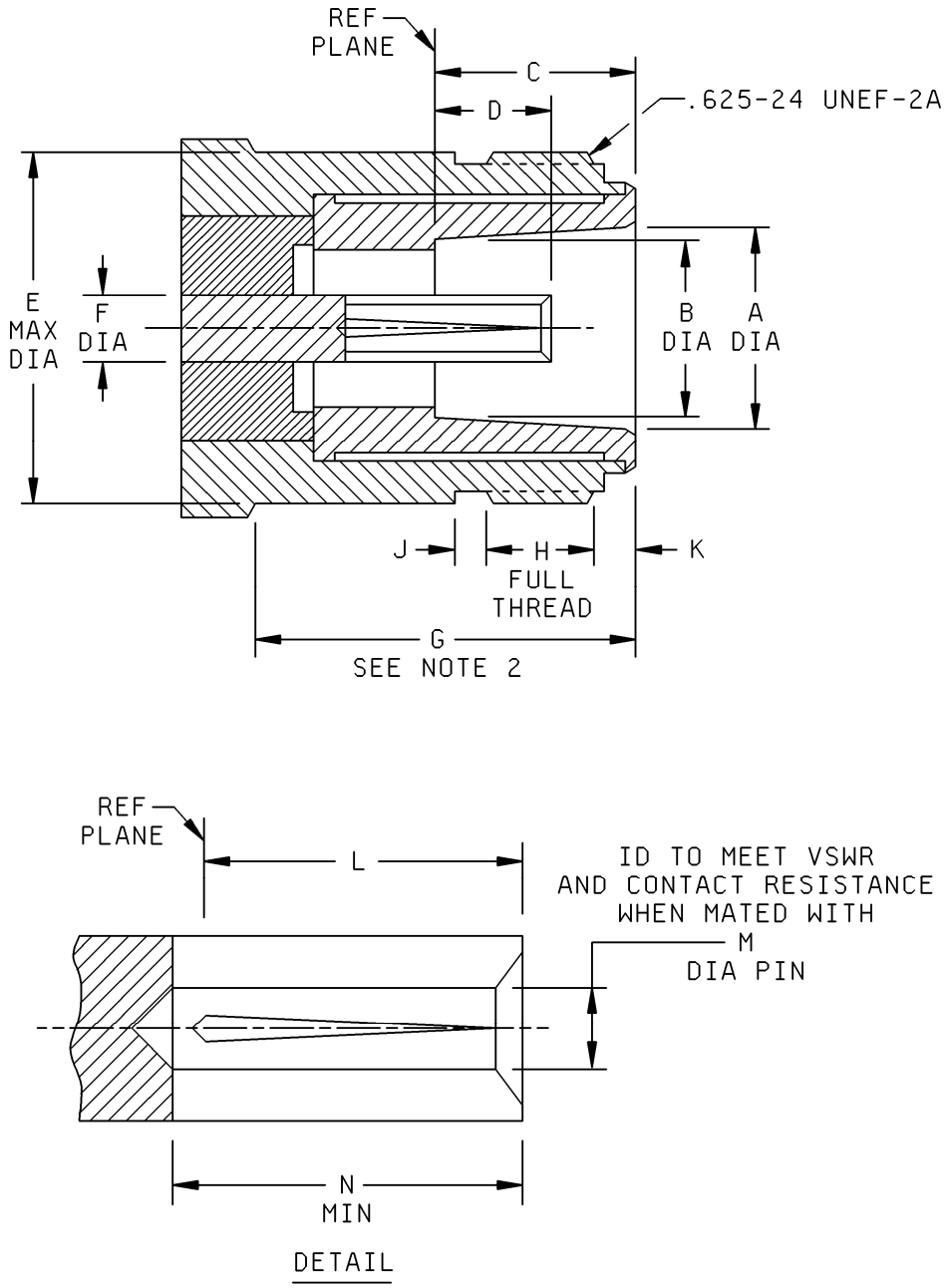
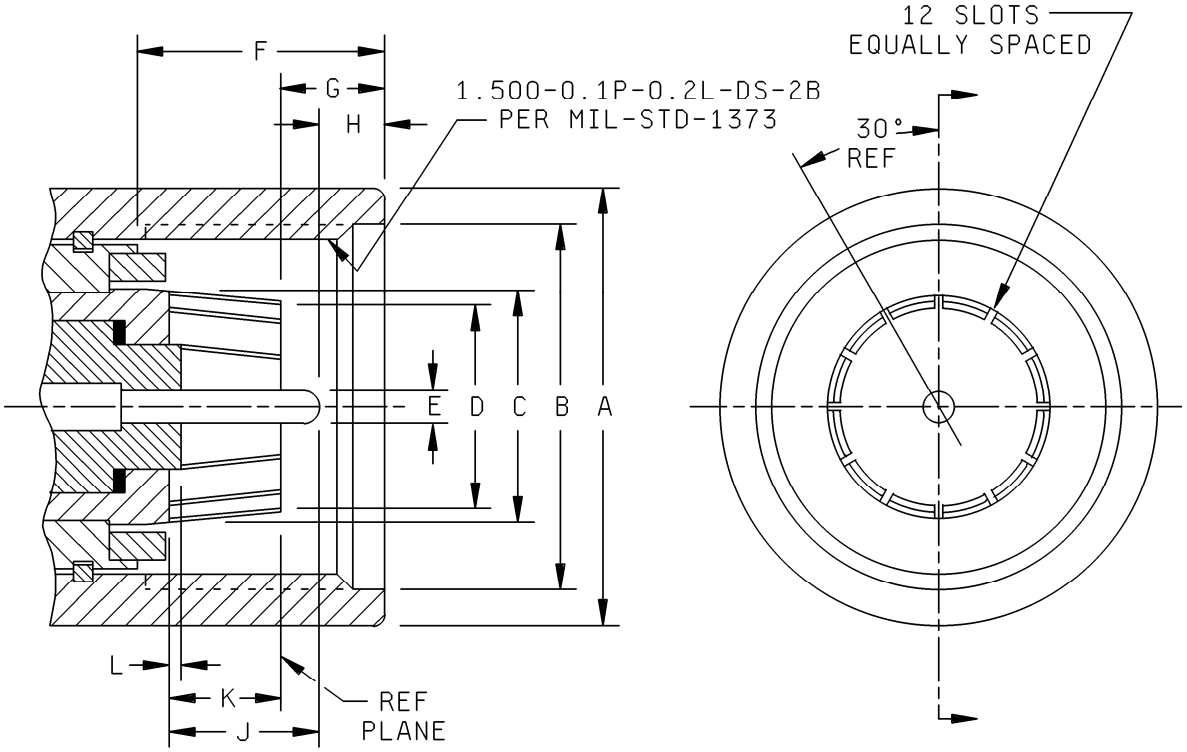


FIGURE 23. Interface, series N, socket contact.

Dim. 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)	.202 (5.13)
J	.047 (1.19)	.077 (1.96)
K	.047 (1.19)	.077 (1.96)
L	.187 (4.75)	.207 (5.26)
M	.063 (1.60)	.066 (1.68)
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.

FIGURE 23. Interface, series N, socket contact - Continued.



Dim. 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 24. Interface, series QL, pin contact.

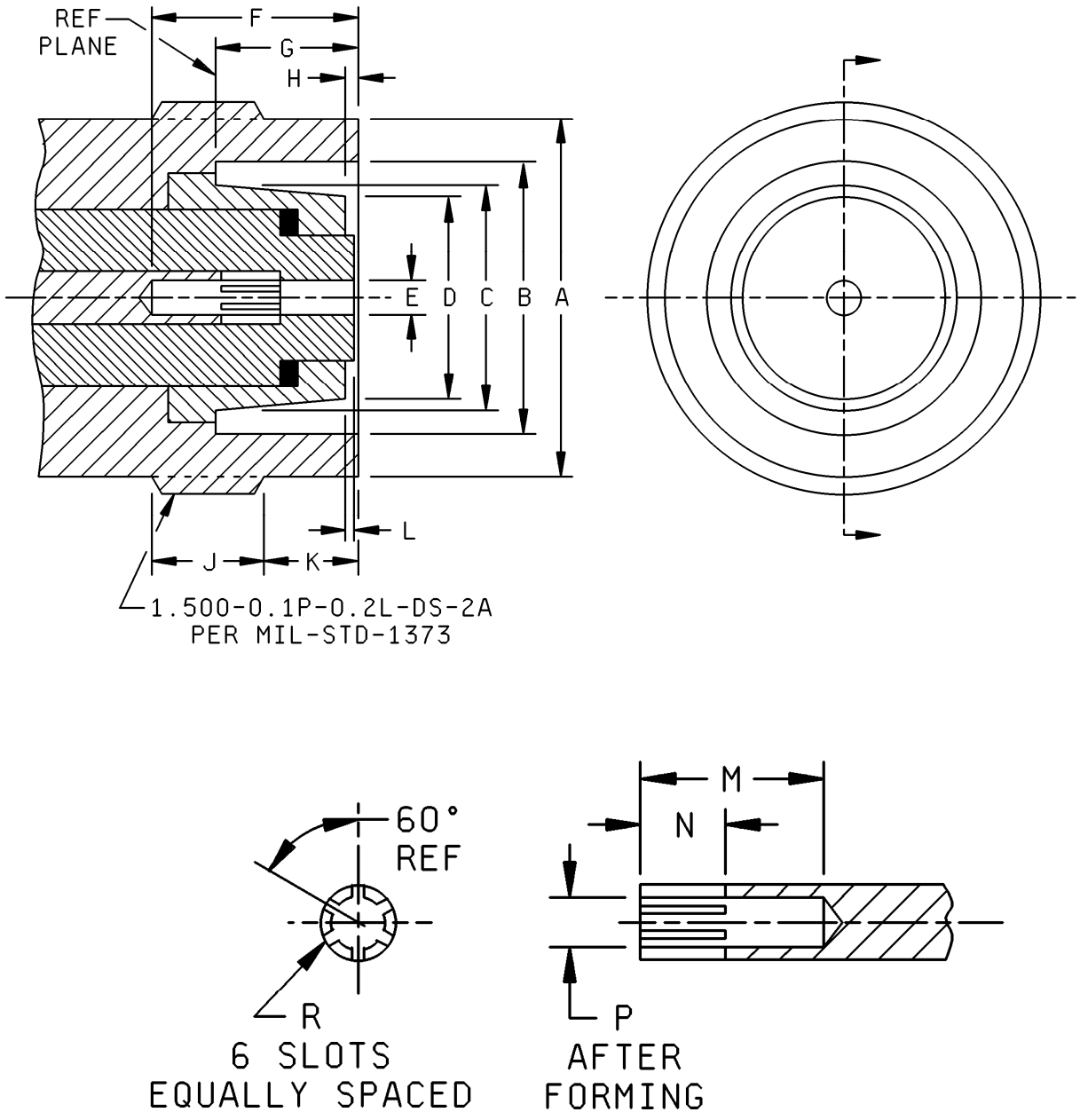
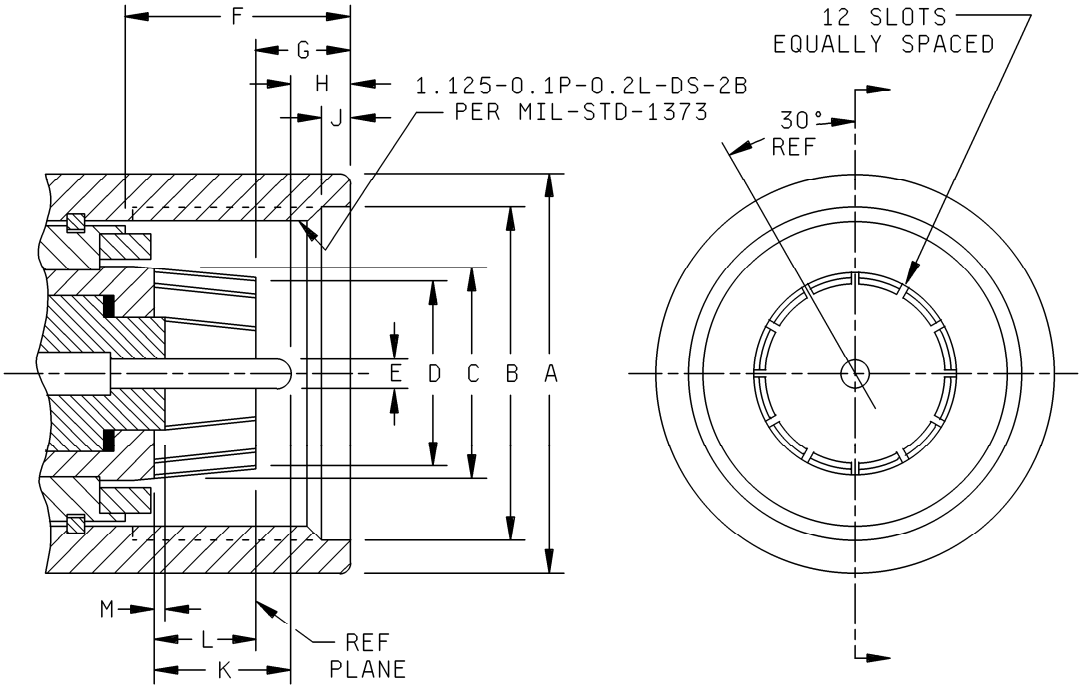


FIGURE 25. Interface, series QL, socket contact.

Dim. 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 25. Interface, series QL, socket contact - Continued.



Dim. 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 26. Interface, series QM, pin contact.

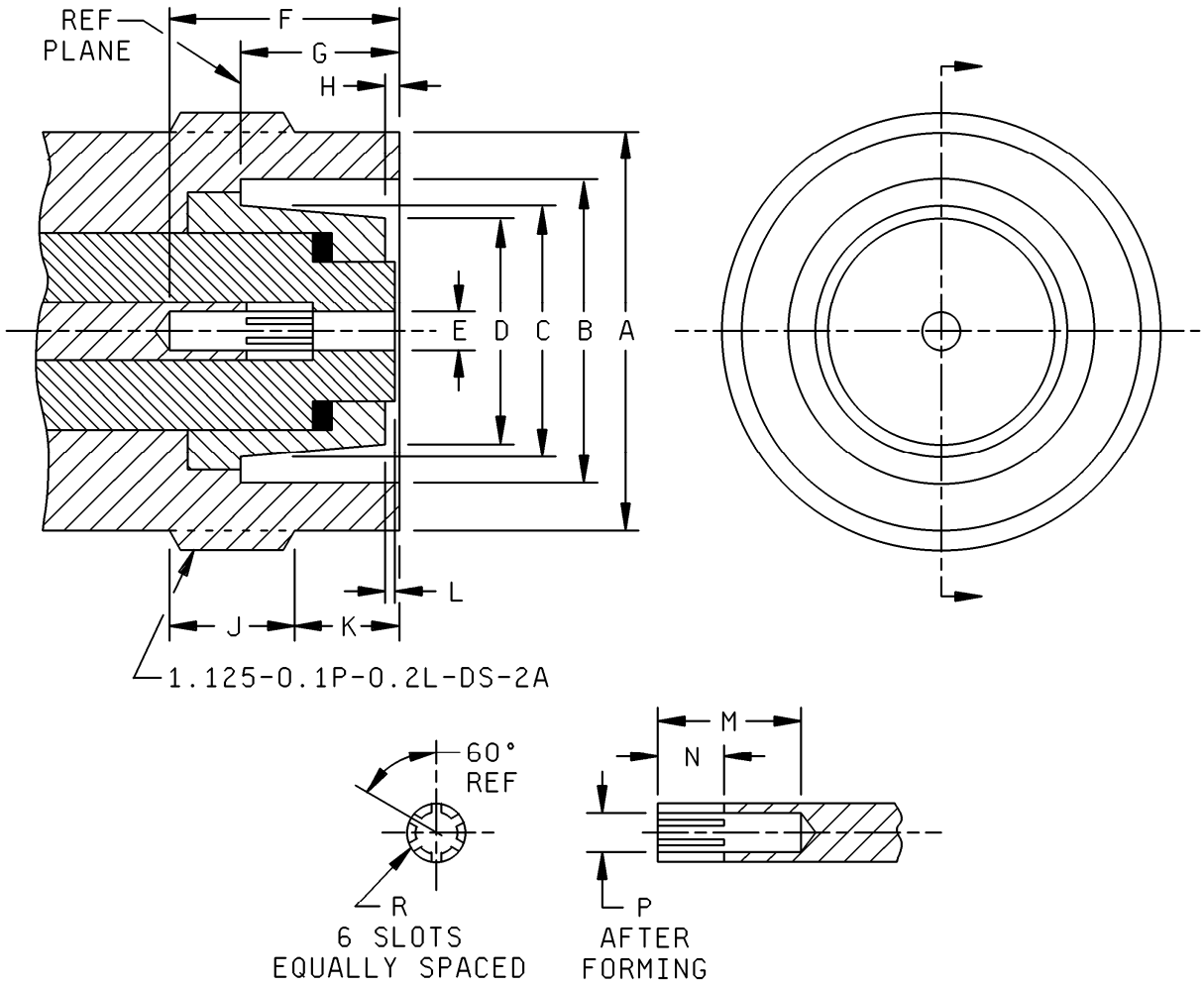


FIGURE 27. Interface, series QM, socket contact.

Dim. 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 27. Interface, series QM, socket contact - Continued.

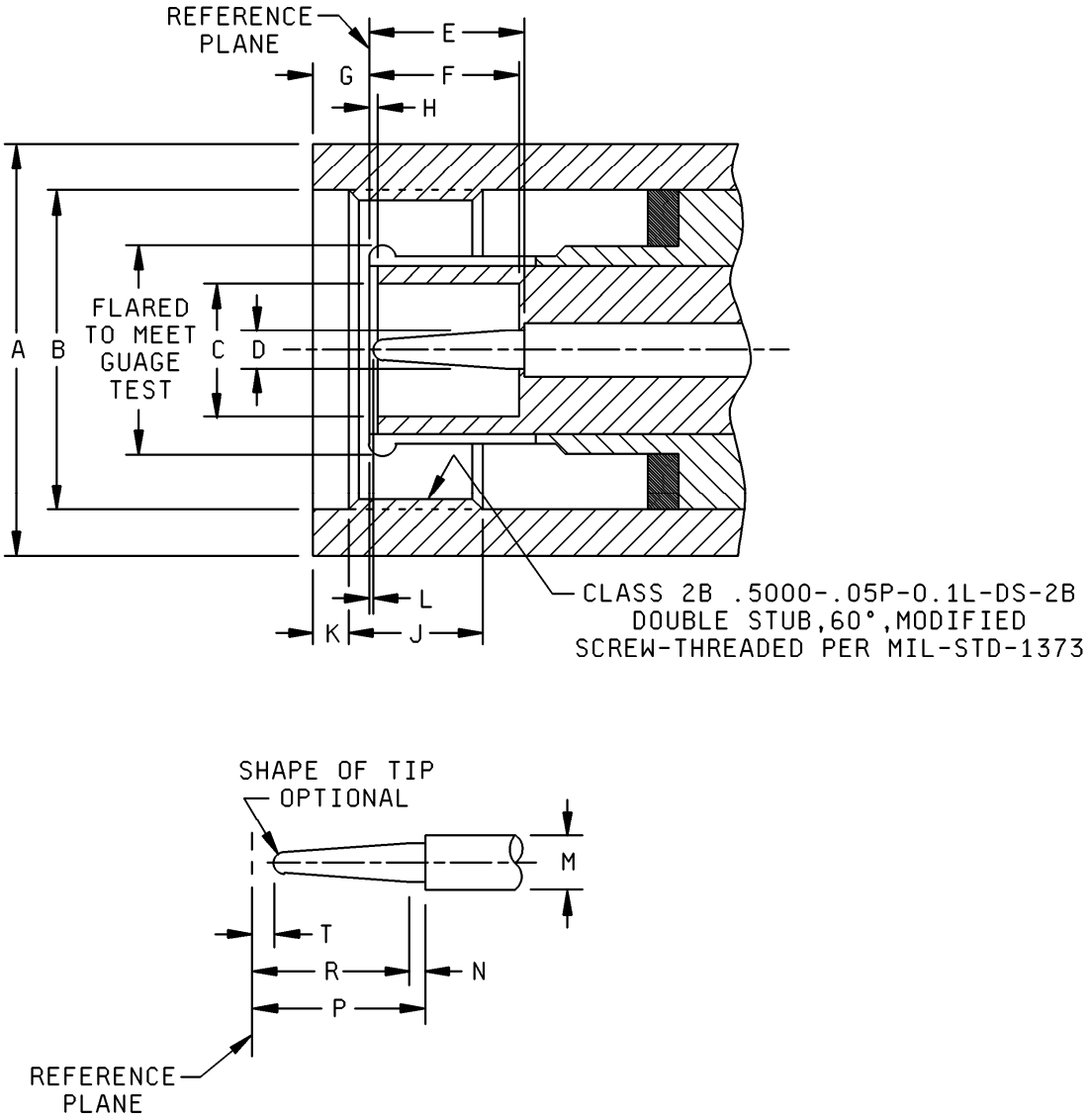
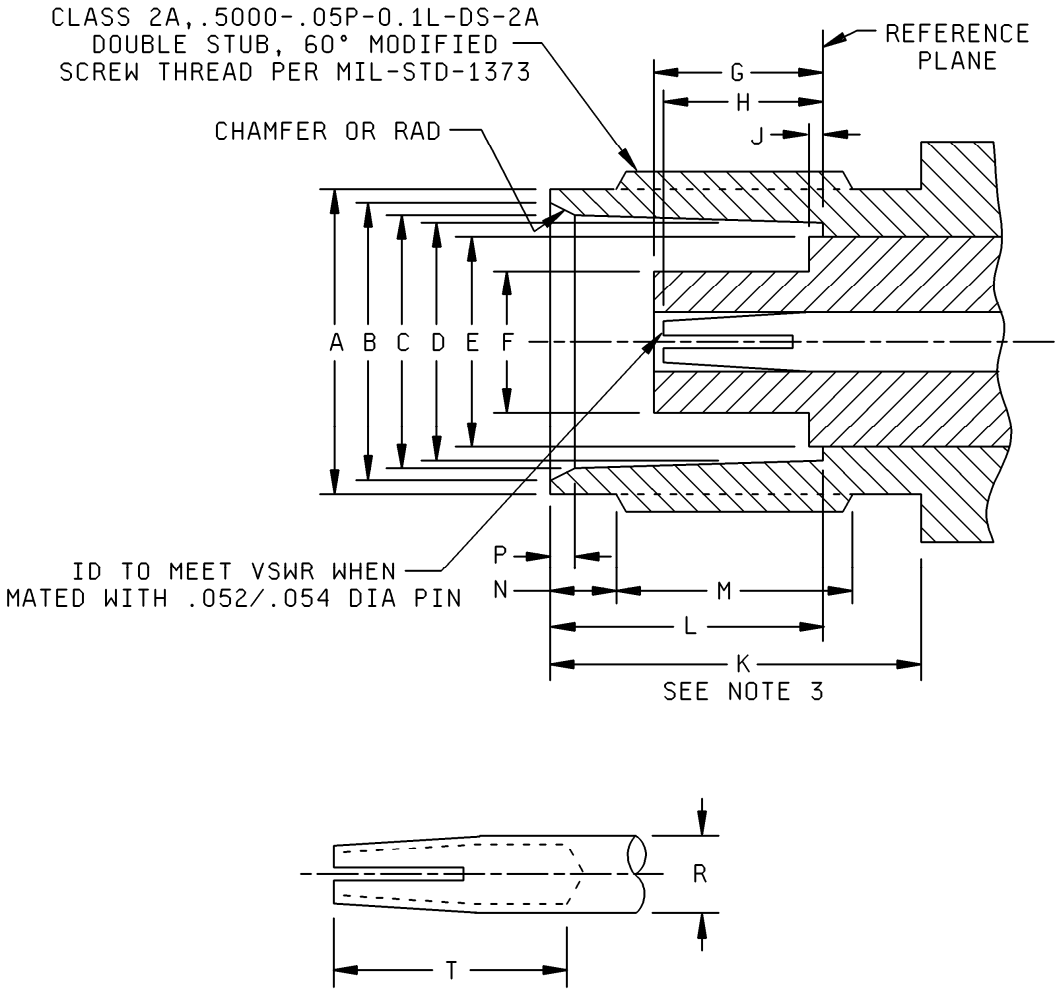


FIGURE 28. Interface, series QNC, pin contact.

Dim. 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)	--------

NOTES:
1. This connector shall meet the gauge requirements as specified in MIL-PRF-39012/65

FIGURE 28. Interface, series QNC, pin contact - Continued.



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 29. Interface, series QNC, socket contact.

Dim. 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)	--------

FIGURE 29. Interface, series QNC, socket contact - Continued.

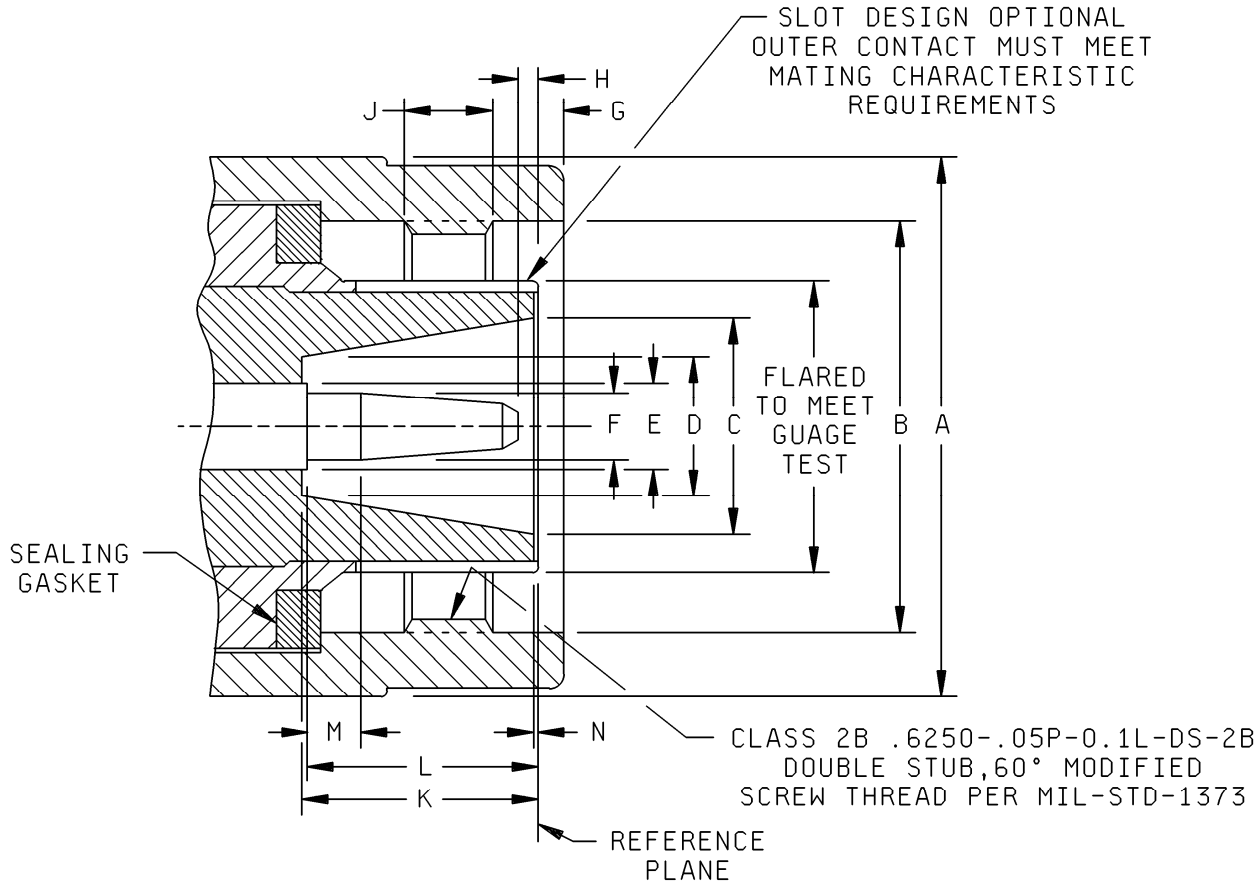


FIGURE 30. Interface, series QSC, pin contact.

Dim. 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 30. Interface, series QSC, pin contact. - Continued

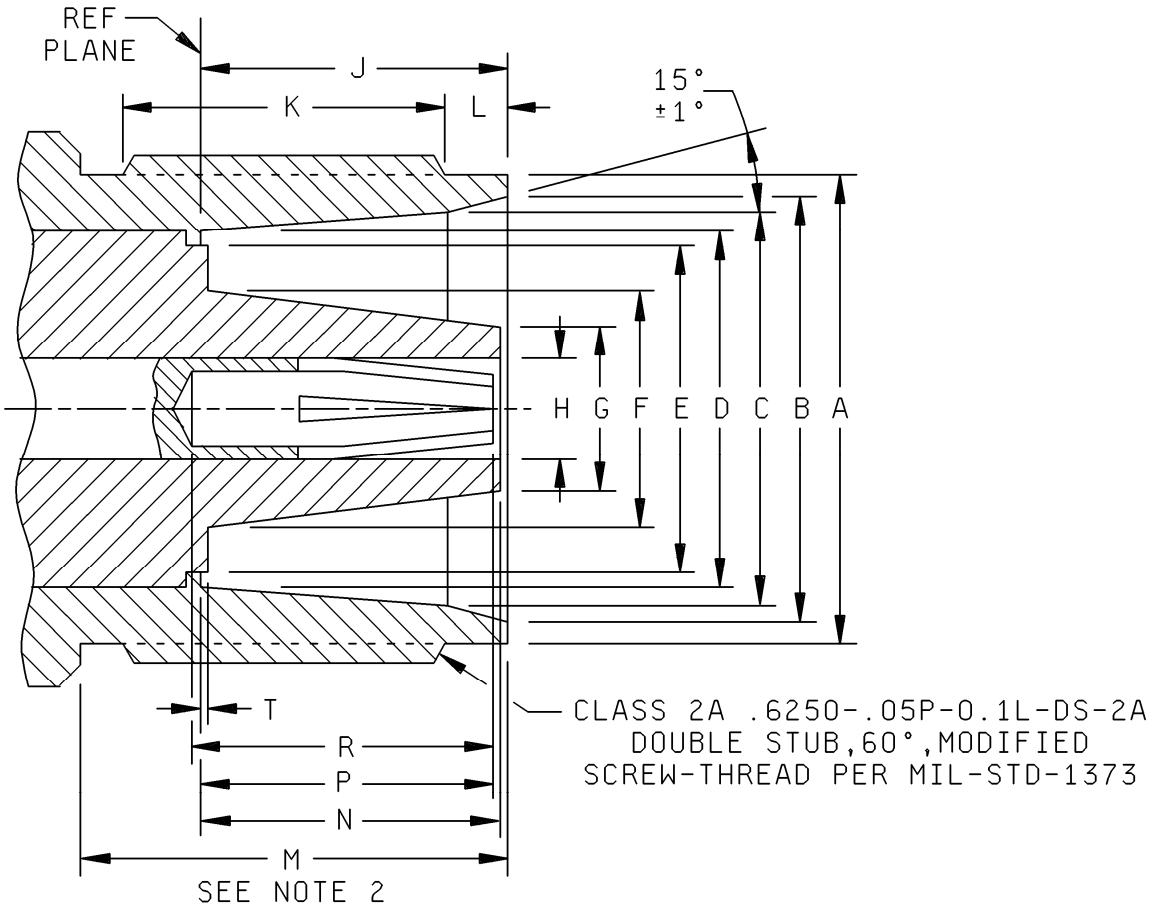


FIGURE 31. Interface, series QSC, socket contact.

Dim. 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 31. Interface, series QSC, socket contact. - Continued

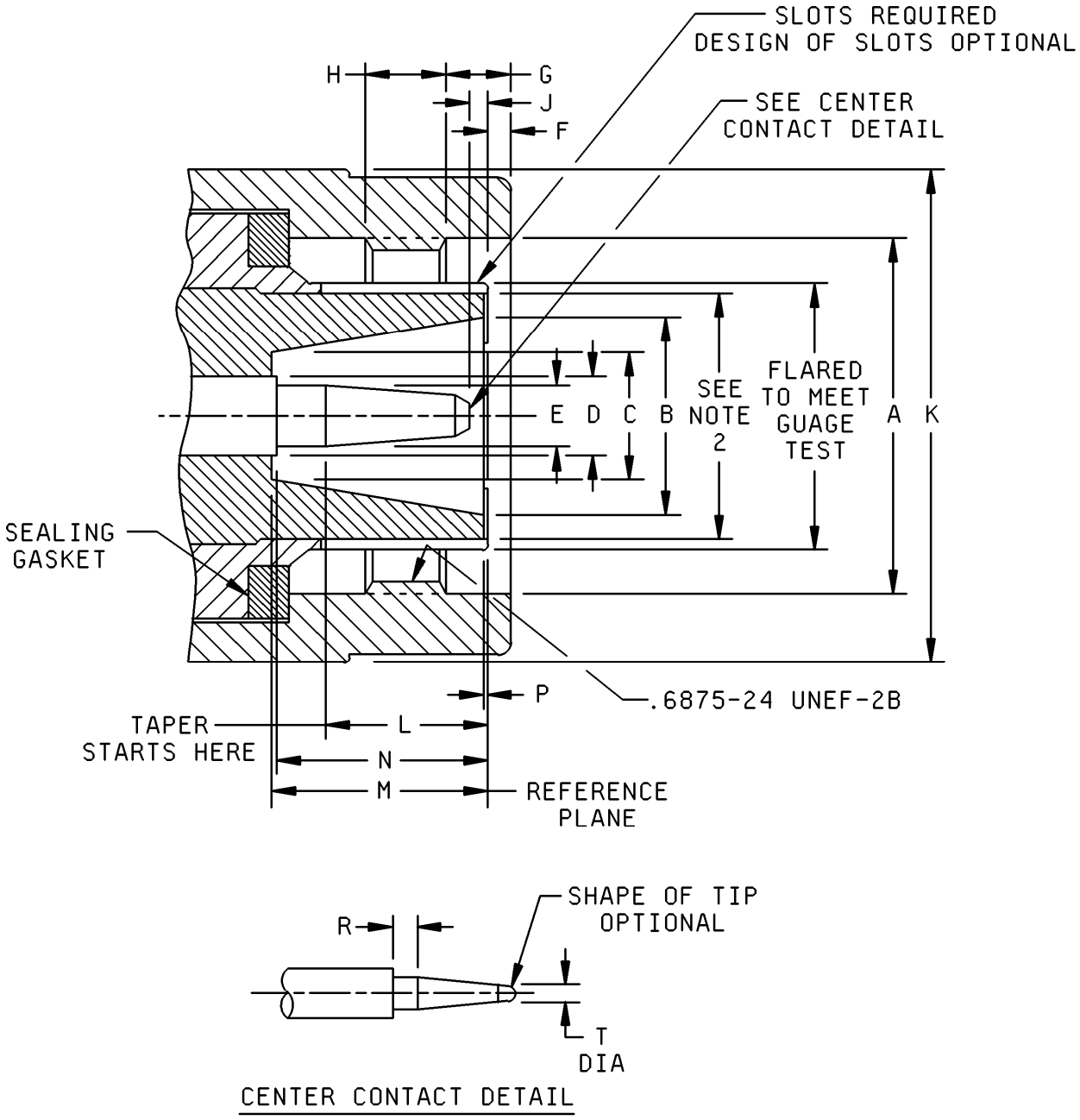
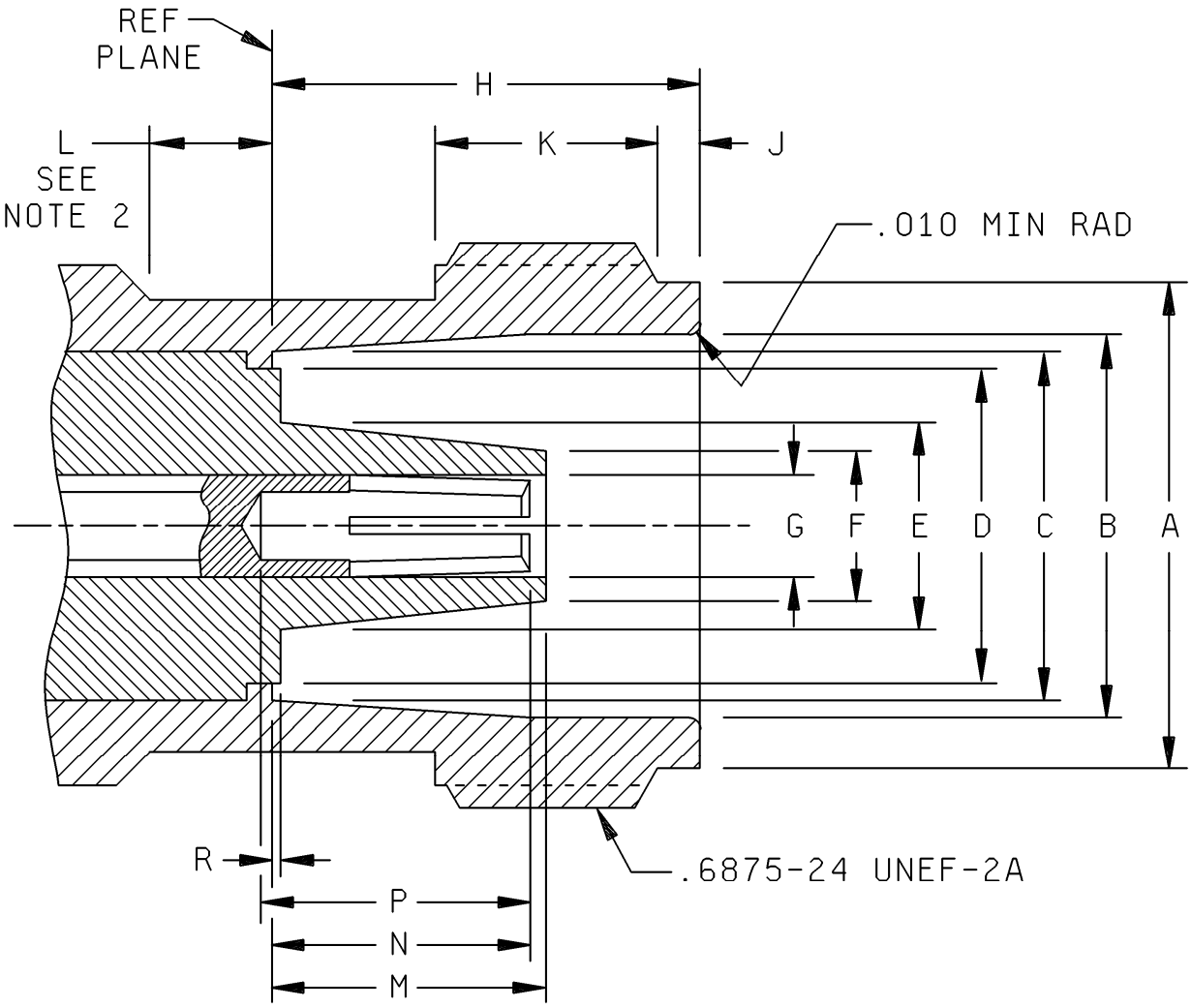


FIGURE 32. Interface, series SC, pin contact.

Dim. 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)

FIGURE 32. Interface, series SC, pin contact - Continued.



NO CENTER CONTACT DEFINED

FIGURE 33. Interface, series SC, socket contact.

Dim. 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.

FIGURE 33. Interface, series SC, socket contact. - Continued

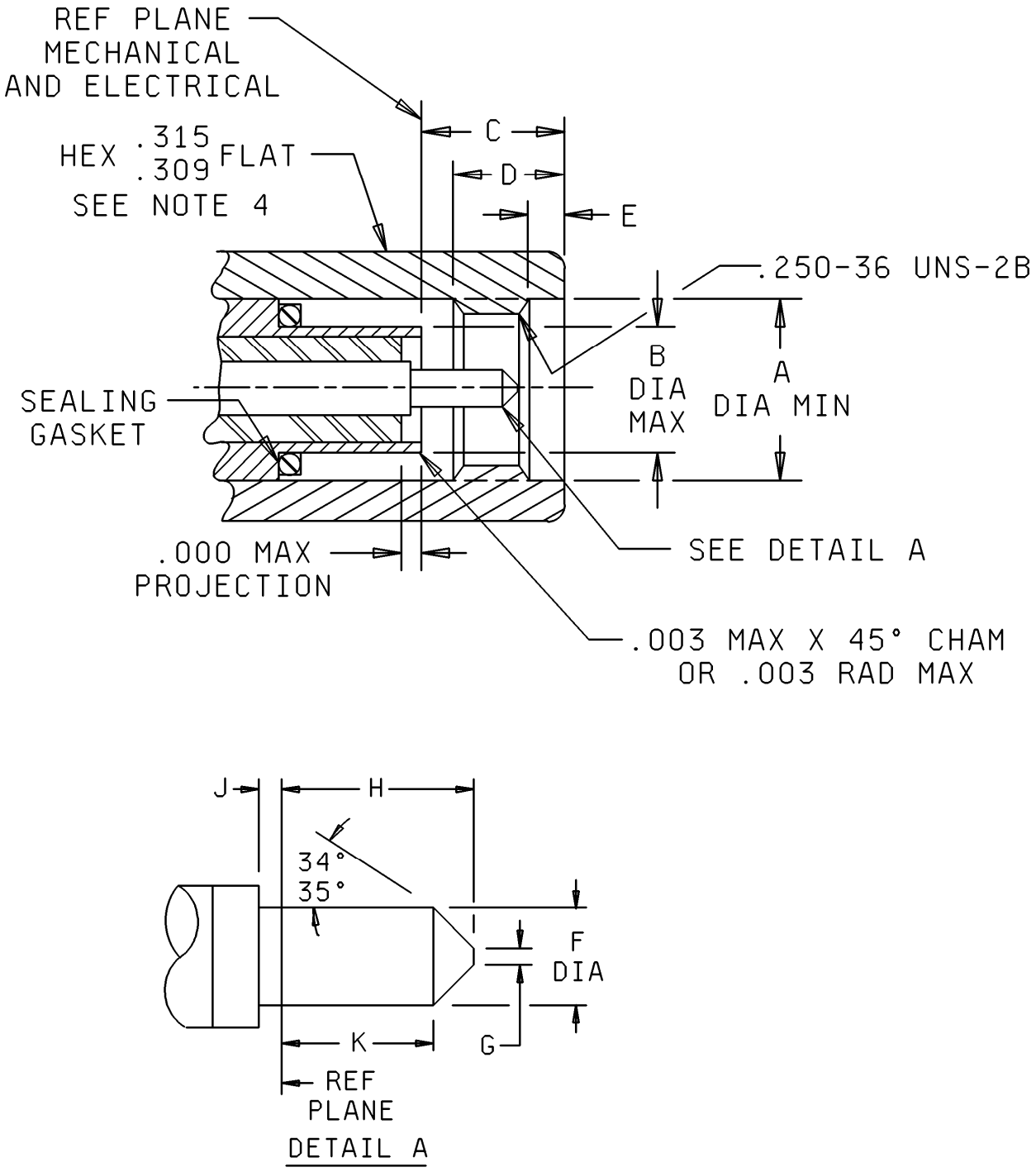


FIGURE 34. Interface, series SMA, pin contact.

Dim. Ltr.	Inches (mm)	
	Min.	Max.
A	.250 (6.35)	--------
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	--------	.015 (0.38)
H	---------	.100 (2.54)
J	.000 (0.00)	.010 (0.25)
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 34. Interface, series SMA, pin contact - Continued.

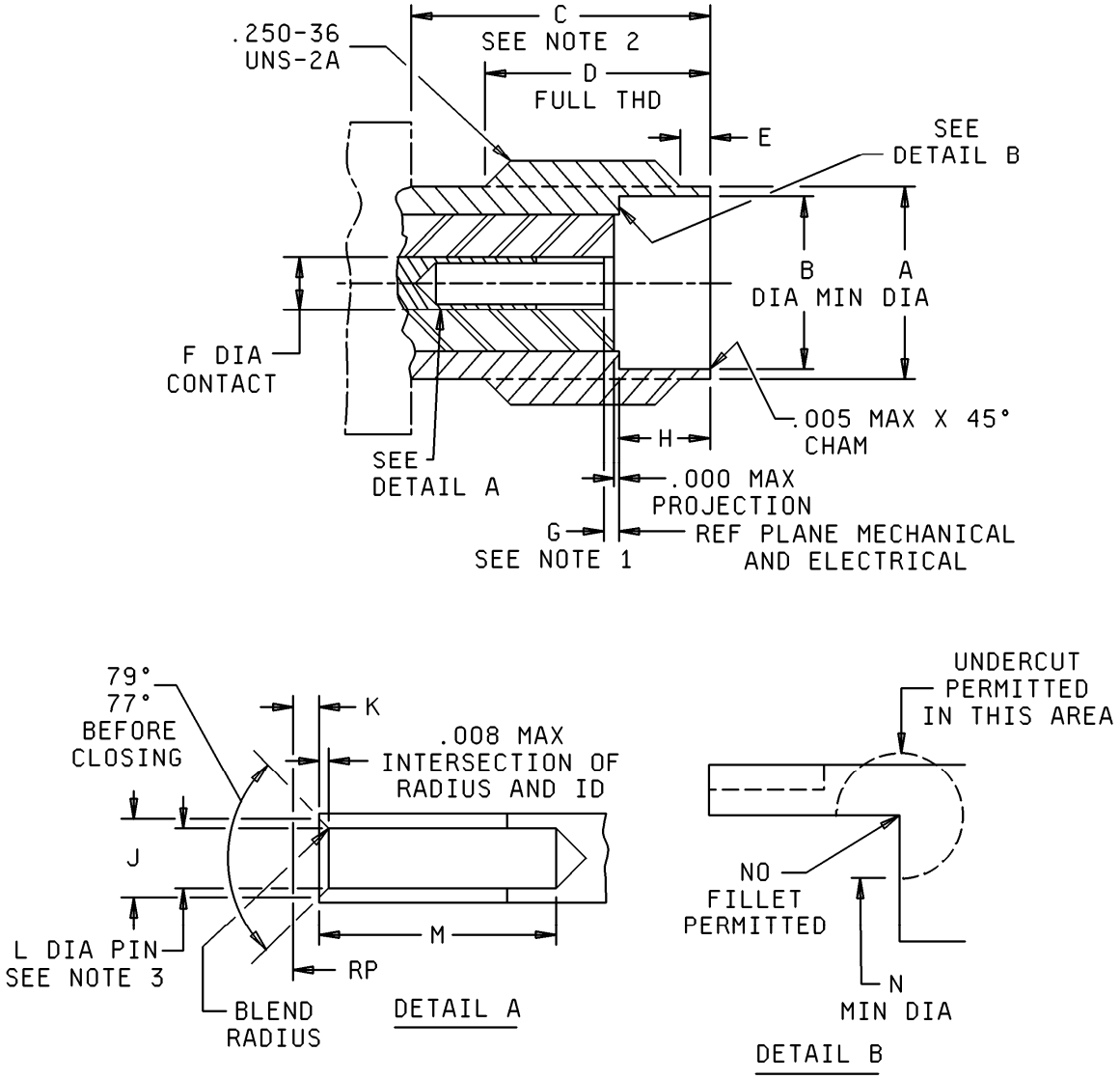
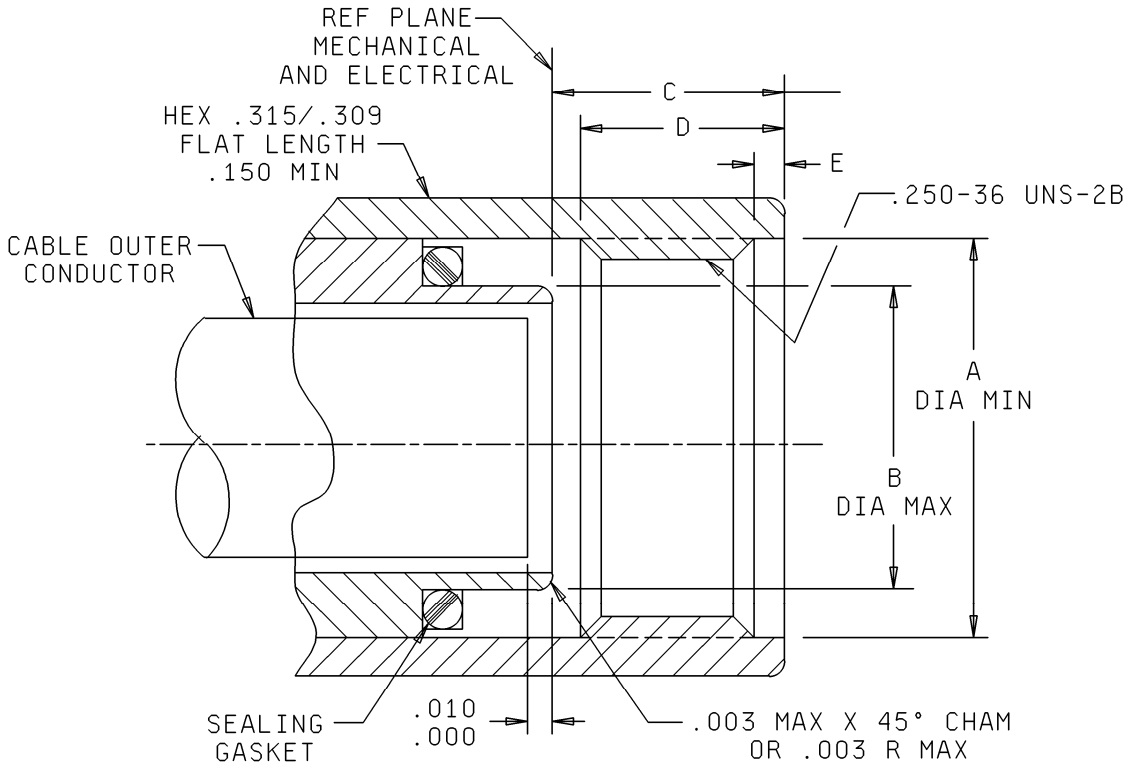


FIGURE 35. Interface, series SMA, socket contact.

Dim. 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)
L	.0355 (0.90)	.0370 (0.94)
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/-.0370 inch diameter pin.

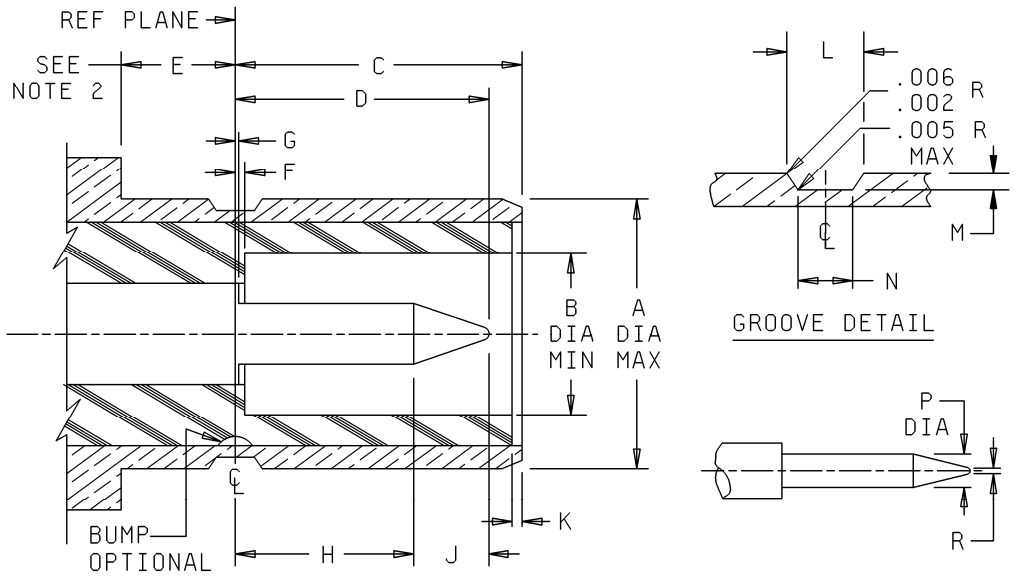
FIGURE 35. Interface, series SMA, socket contact - Continued.



Dim. Ltr.	Inches (mm)	
	Min.	Max.
A	.250 (6.35)	--------
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 36. Interface, series SMA, no contact.



Dim. 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 37. Interface, series SMB, pin contact.

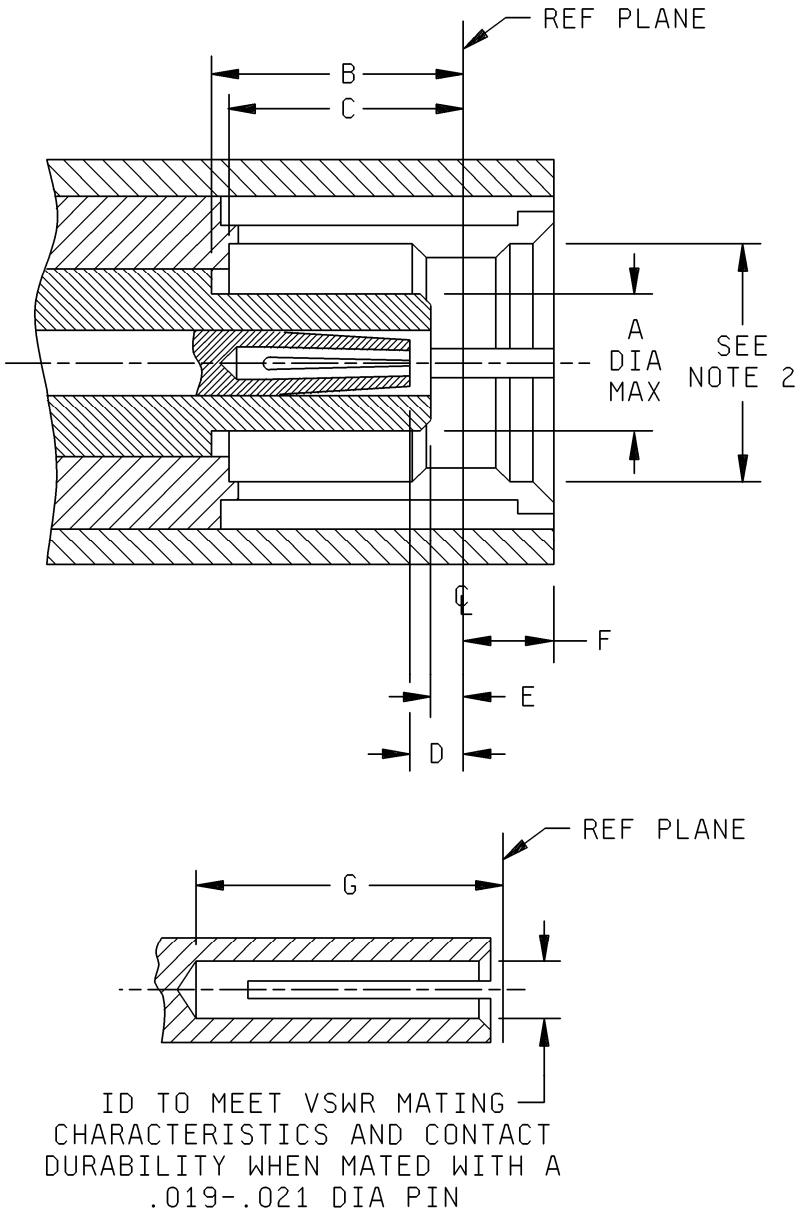


FIGURE 38. Interface, series SMB, socket contact.

Dim. 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 38. Interface, series SMB, socket contact - Continued.

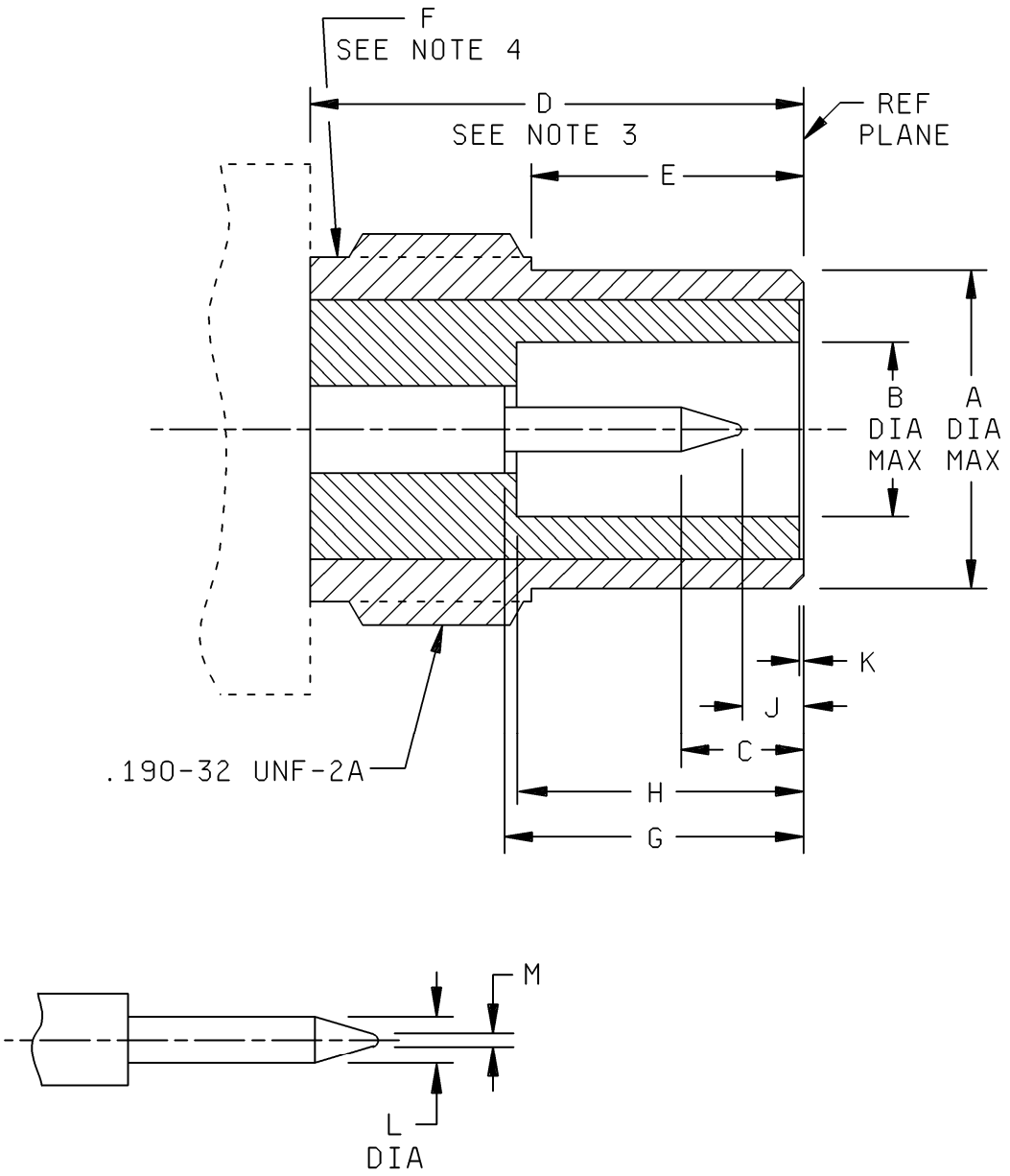


FIGURE 39. Interface, series SMC, pin contact.

Dim. 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 39. Interface, series SMC, pin contact. - Continued

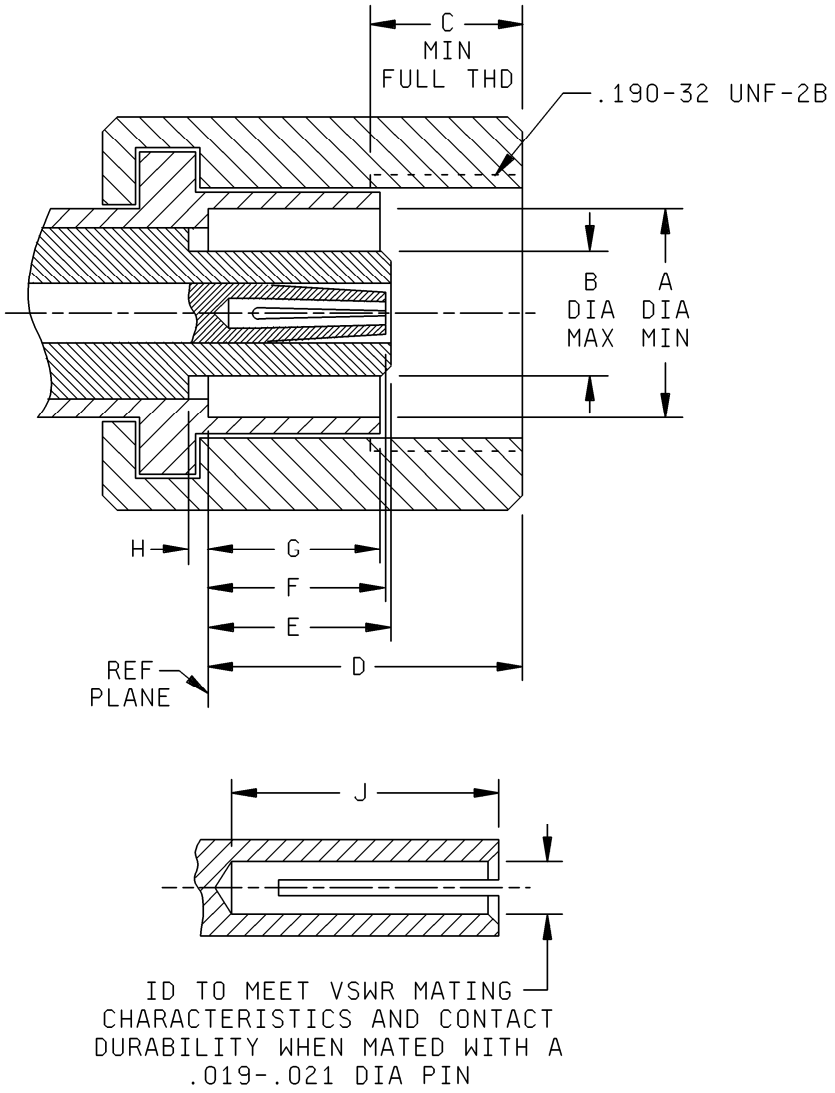


FIGURE 40. Interface, series SMC, socket contact.

Dim. 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 40. Interface, series SMC, socket contact. - Continued

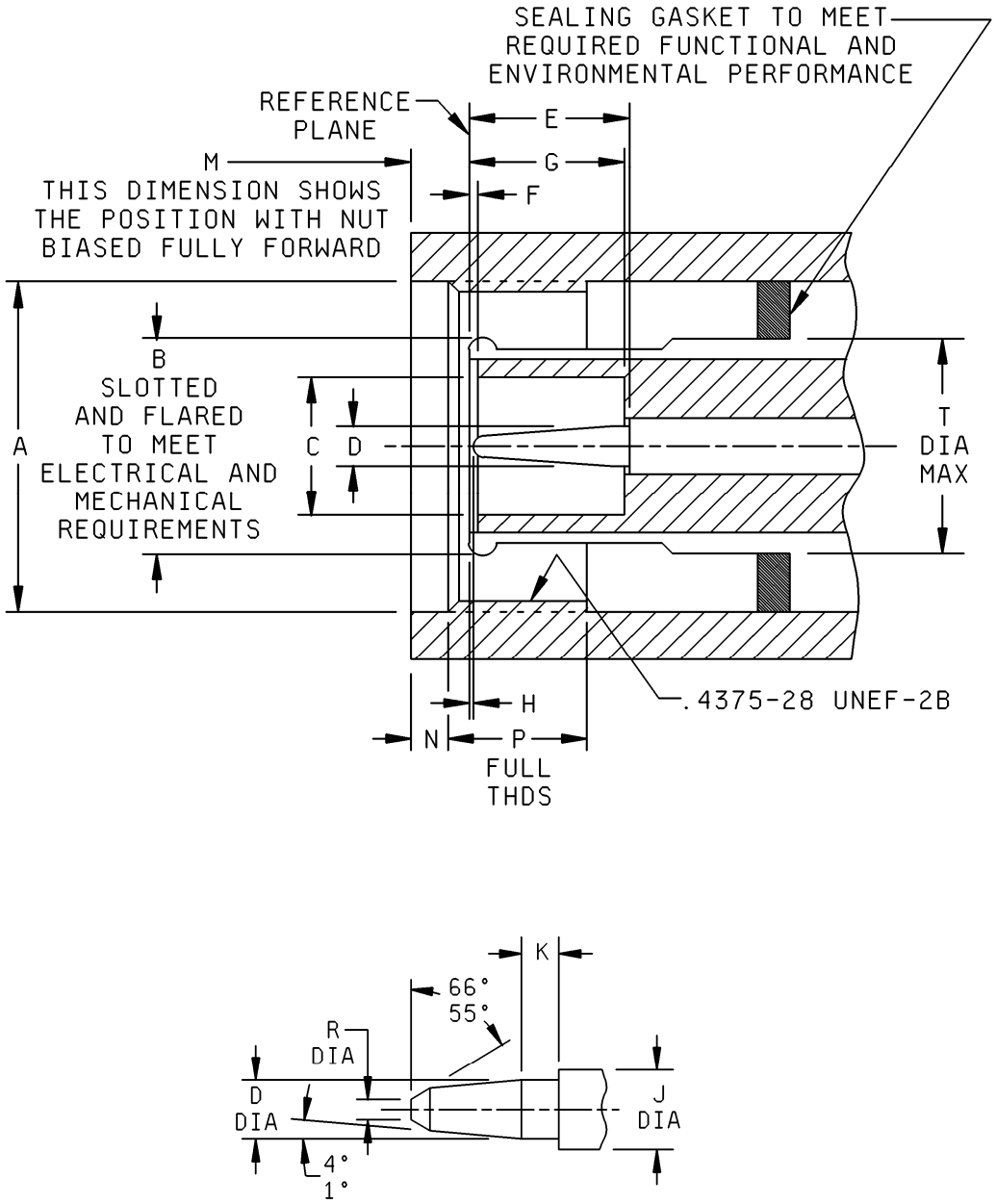


FIGURE 41. Interface, series TNC, pin contact.

Dim. 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)
J	.081 (2.06)	.087 (2.21)
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 41. Interface, series TNC, pin contact. - Continued

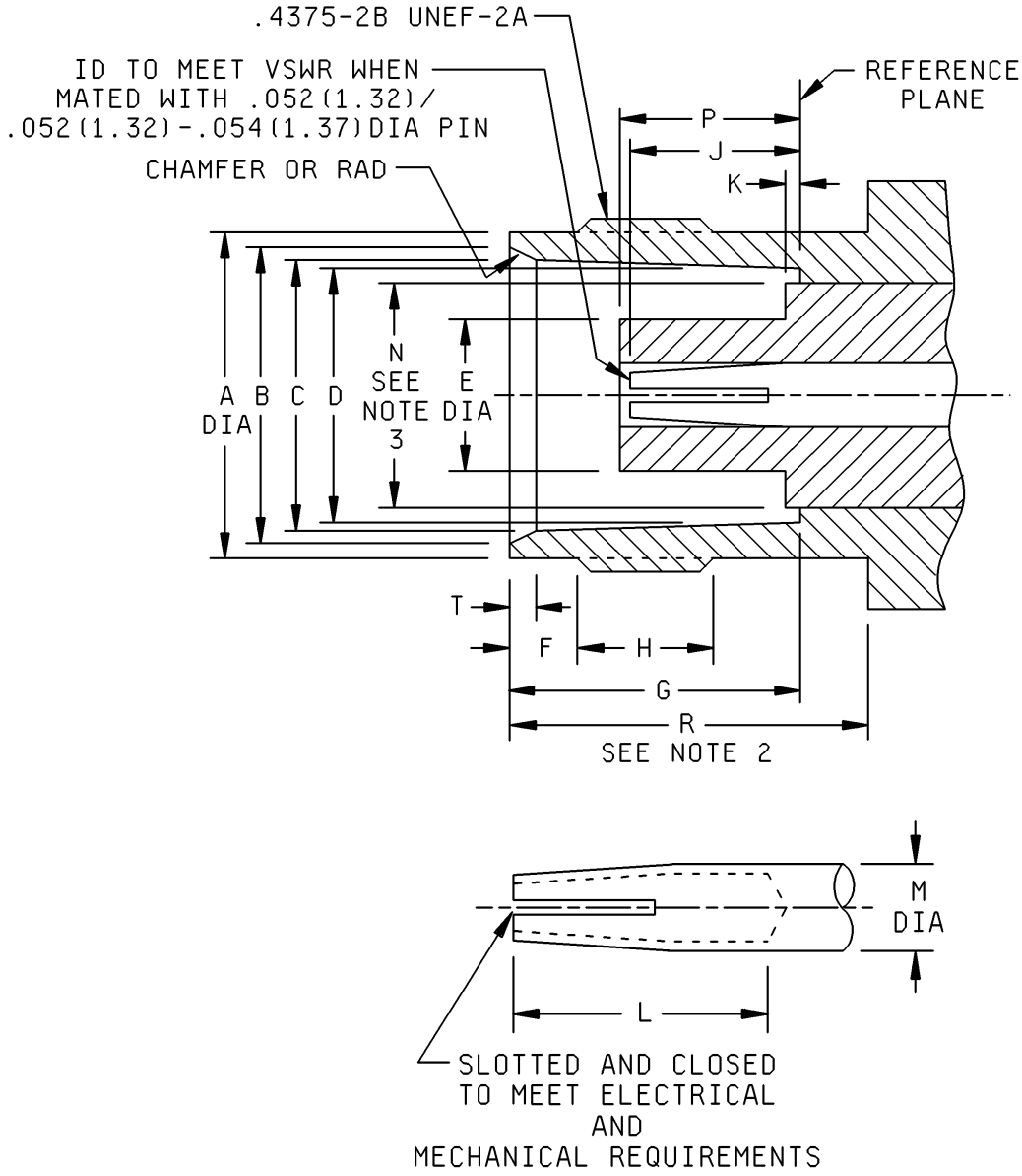
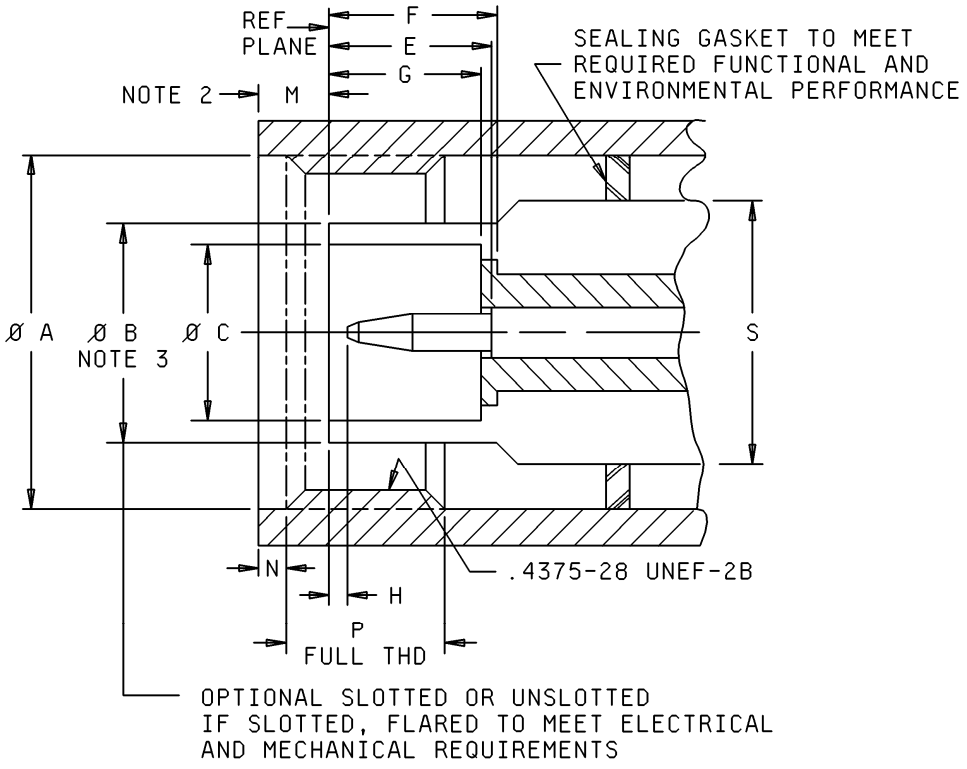


FIGURE 42. Interface, series TNC, socket contact.

Dim. 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.

FIGURE 42. Interface, series TNC, socket contact. - Continued



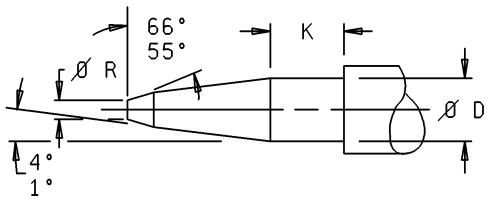


FIGURE 43. Interface, series TNCA, pin contact, air interface.

Dim. Ltr.	Inches (mm)	
	Min.	Max.
A	.440 (11.18)	--------
B	.314 (7.98)	.318 (8.08)
C	.238 (0.605))	.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)

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. For slotted version. Slotted designs must meet gauge test, B dimension will not apply.

FIGURE 43. Interface, series TNCA, pin contact, air interface. - Continued

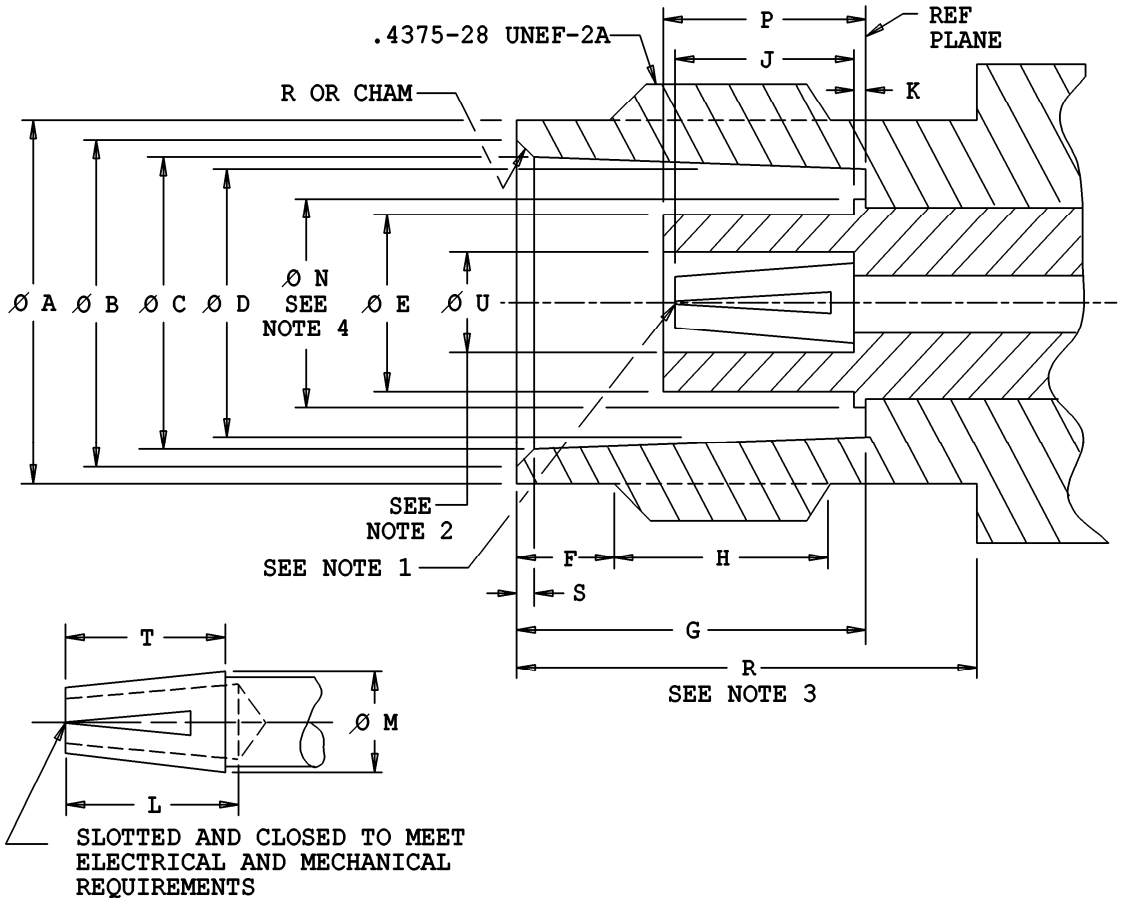


FIGURE 44. Interface, series TNCA, socket contact, air interface.

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

FIGURE 44. Interface, series TNCA, socket contact, air interface. - Continued

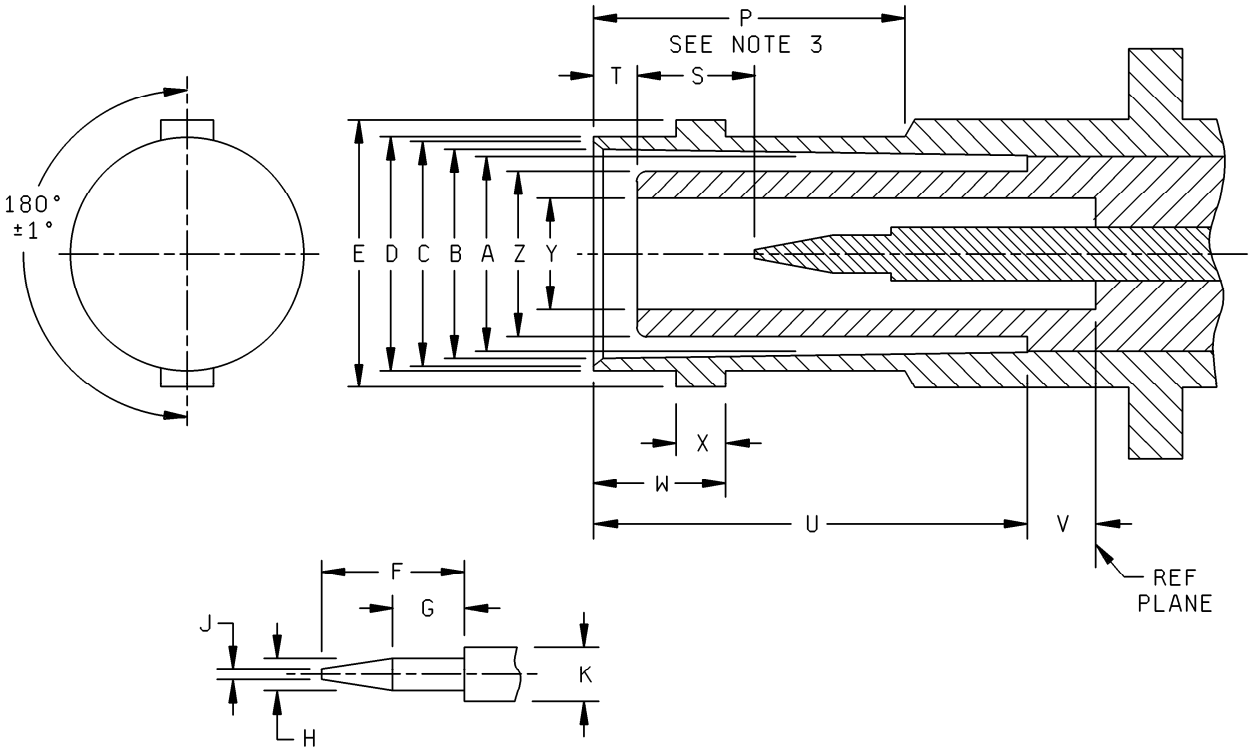


FIGURE 45. Interface, series SHV, pin contact.

Dim. 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 45. Interface, series SHV, pin contact. - Continued

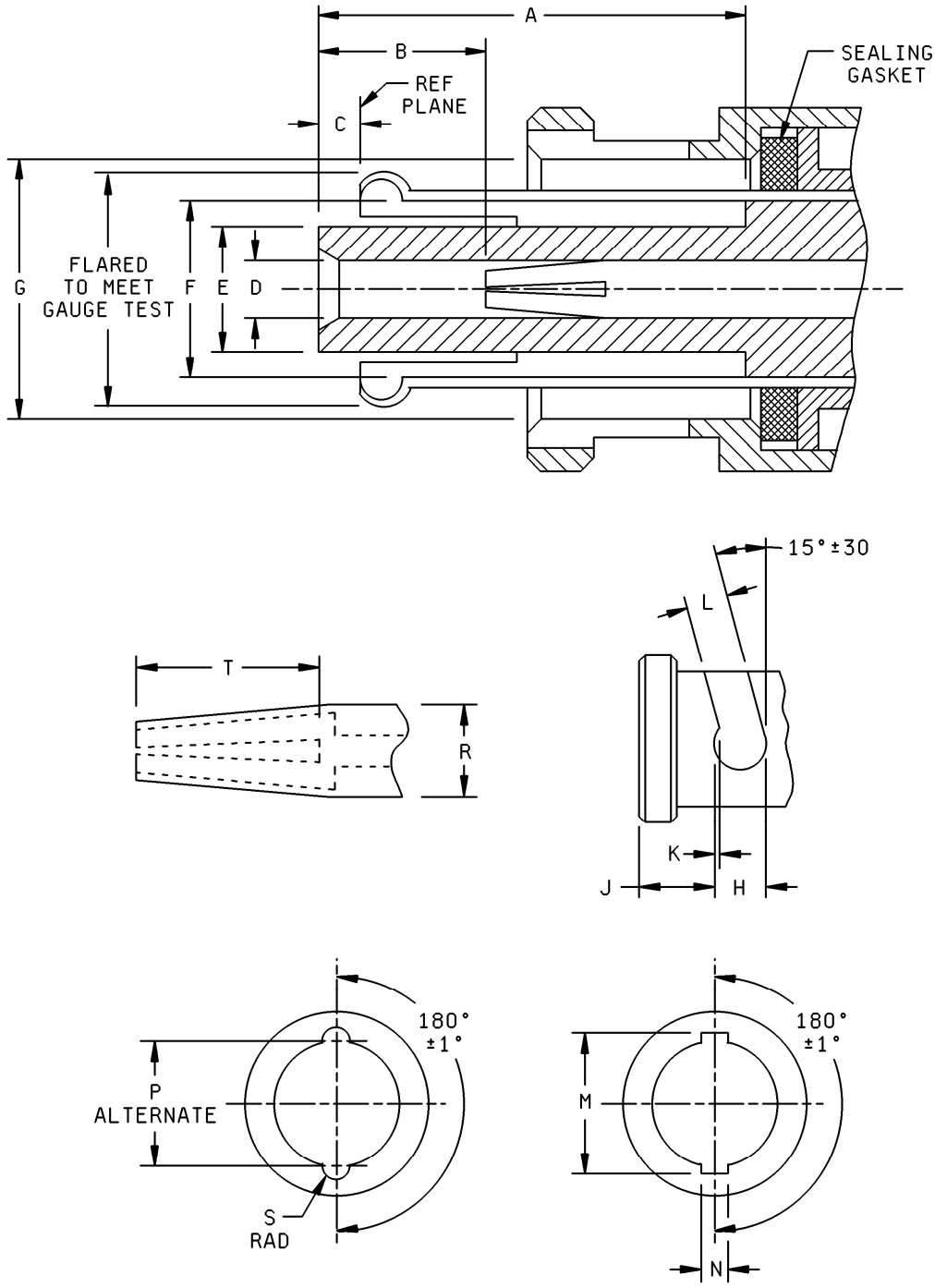


FIGURE 46. Interface, series SHV, socket contact.

Dimension 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 – Continued.

FIGURE 46. Interface, series SHV, socket contact. - Continued

INTERFACE DIMENSIONS FOR MIL-C-3650

(To be established)

FIGURE 47. Interface, series LC, pin contact.

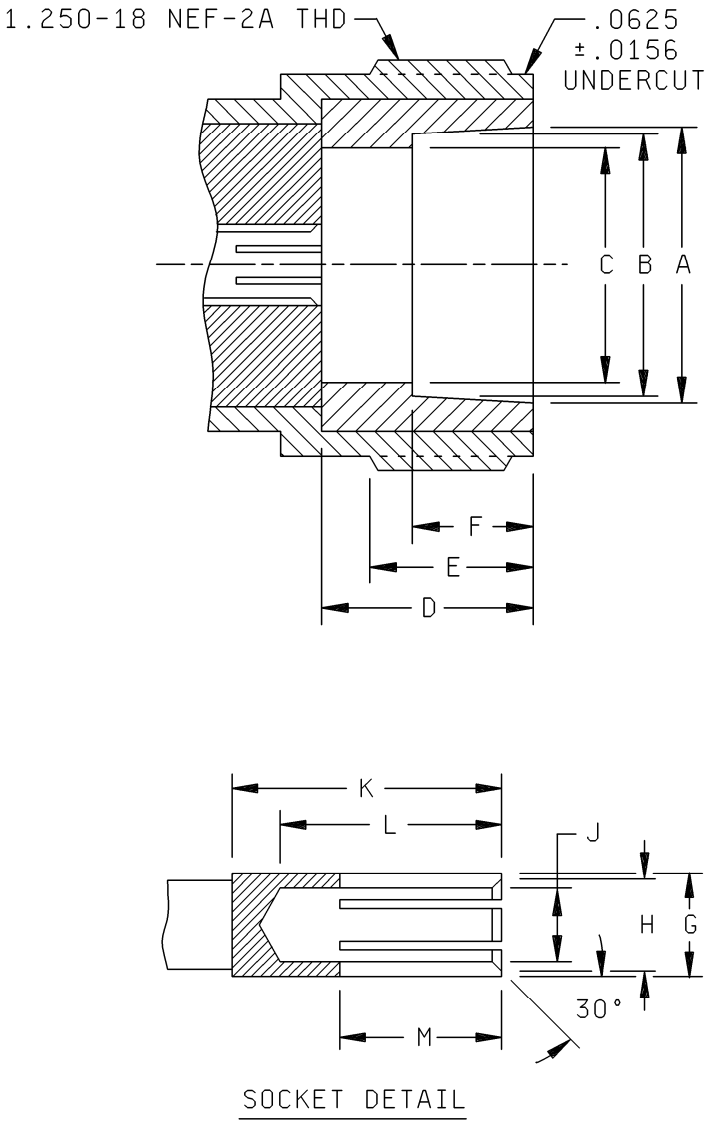


FIGURE 48. Interface, series LC, socket contact, full dielectric,

Dimension 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)	?????????
K	.750 (19.05)	?????????
L	.562 (14.27)	?????????
M	.250 (6.35)	?????????

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 48. Interface, series LC, socket contact, full dielectric, - Continued

INTERFACE DIMENSIONS TO BE ESTABLISHED

FIGURE 49. Interface, series LC, pin contact.

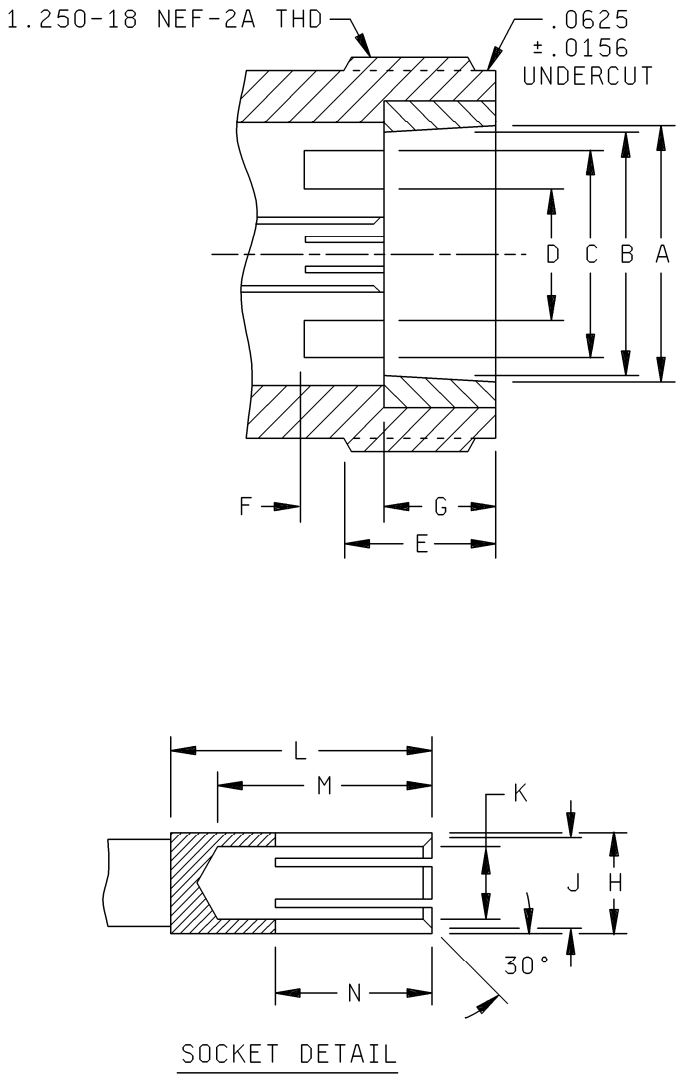


FIGURE 50. Interface, series LC, socket contact

Dimension 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)
K	.202 (5.13)	?????????
L	.750 (19.05)	?????????
M	.562 (14.27)	?????????
N	.250 (6.35)	?????????

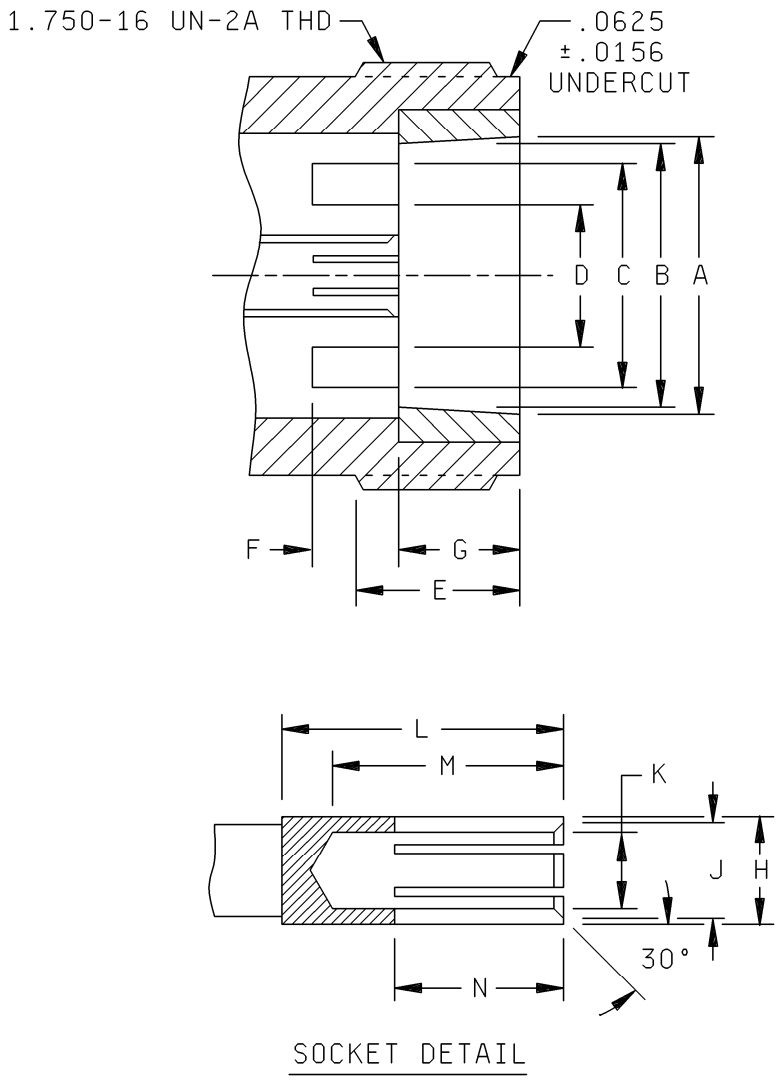
NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. This interface shall meet the gauge requirements of MIL-DTL-3650.

FIGURE 50. Interface, series LC, socket contact. – Continued

INTERFACE DIMENSIONS FOR MIL-C-3650

To be established

FIGURE 51. Interface, Series LC, Pin Contact.

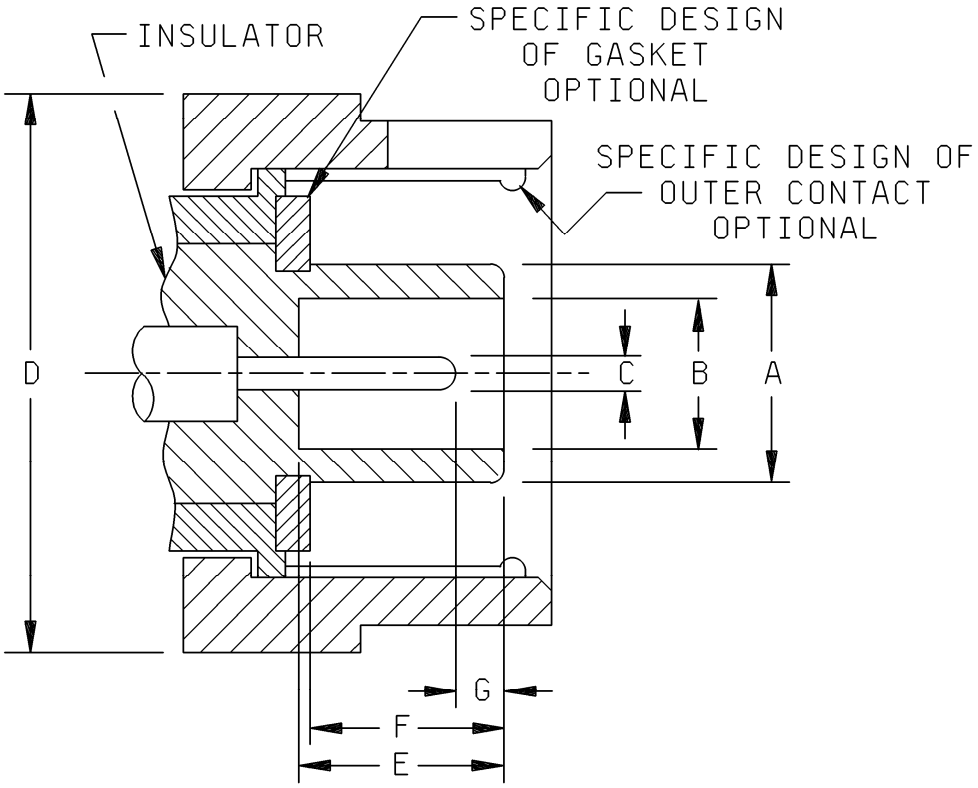


NOTES:
1. Dimensions are in inches.
2. Metric equivalents are for reference purposes only.
3. The interface shall meet the gauge requirements as specified in MIL-C-3650.

FIGURE 52 Interface, Series LC, Socket Contact.

Dimension 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 52 Interface, Series LC, Socket Contact – Continued.

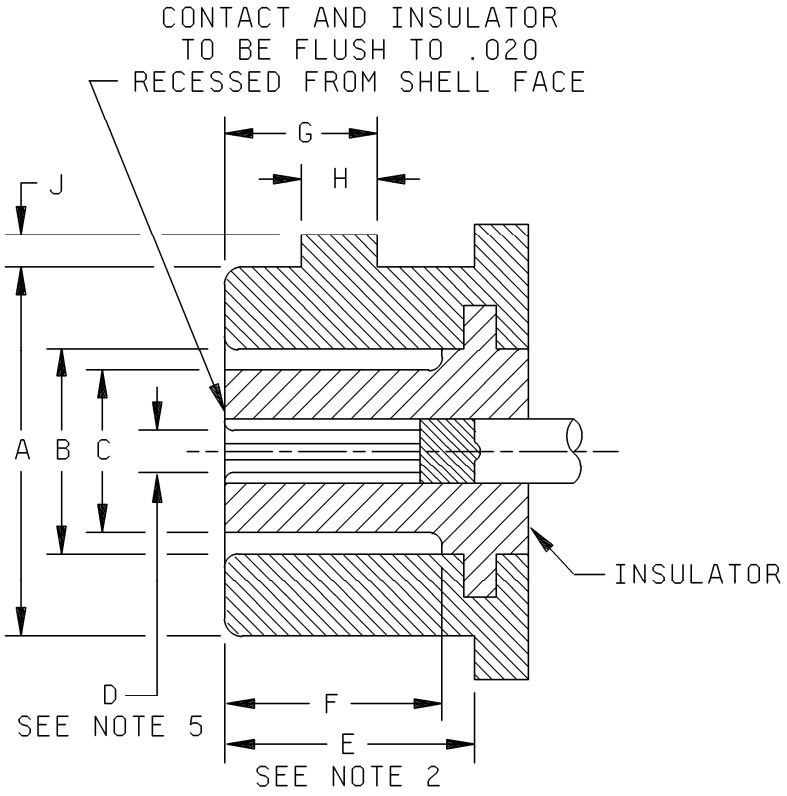


PLUG WITH PIN CONTACT

Dimension 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 53. Interface, coaxial, pin contact, environment resistant.

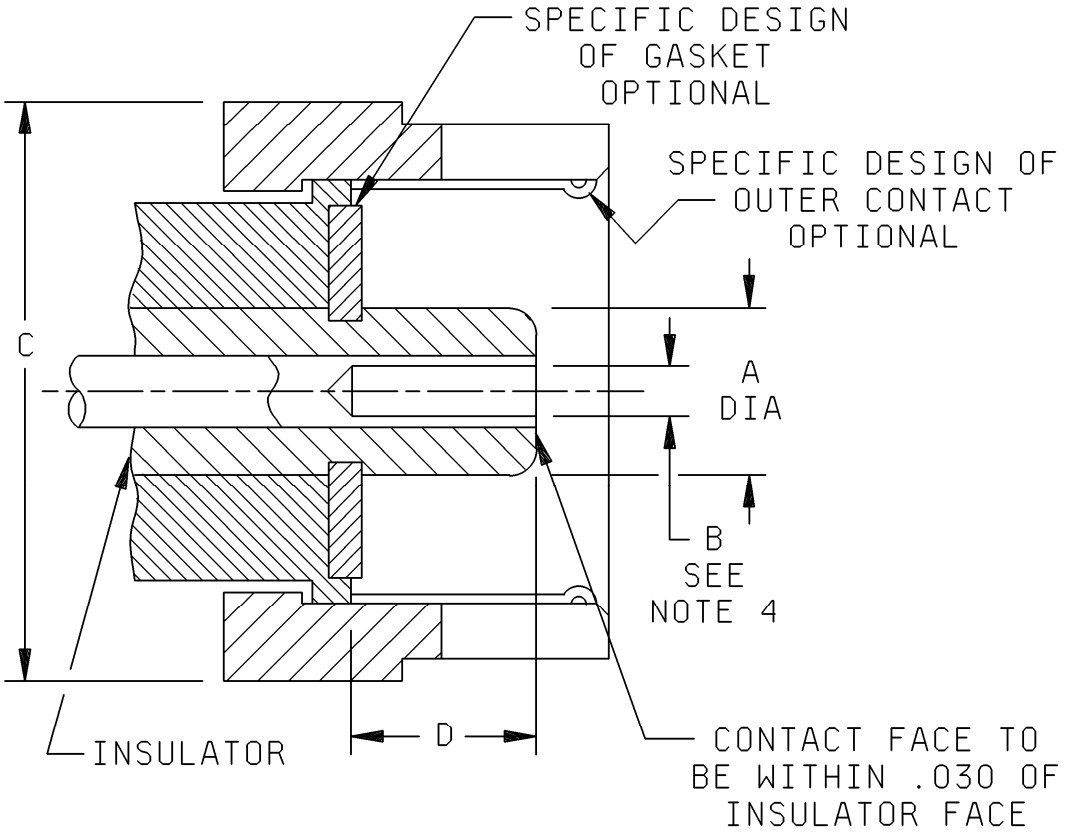


RECEPTACLE WITH SOCKET CONTACT

Dimension Ltr.	Inches (mm)	
	Minimum	Maximum
A DIA.	.286	?????????
B	.196	--------
C	--------	.128
D	.041	.043
E	.250	--------
F	.180	--------
G	.151	?????????
H DIA	.055	?????????
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 (4.39 mm) deep.

FIGURE 54. Interface, coaxial, socket contact, environment resistant.

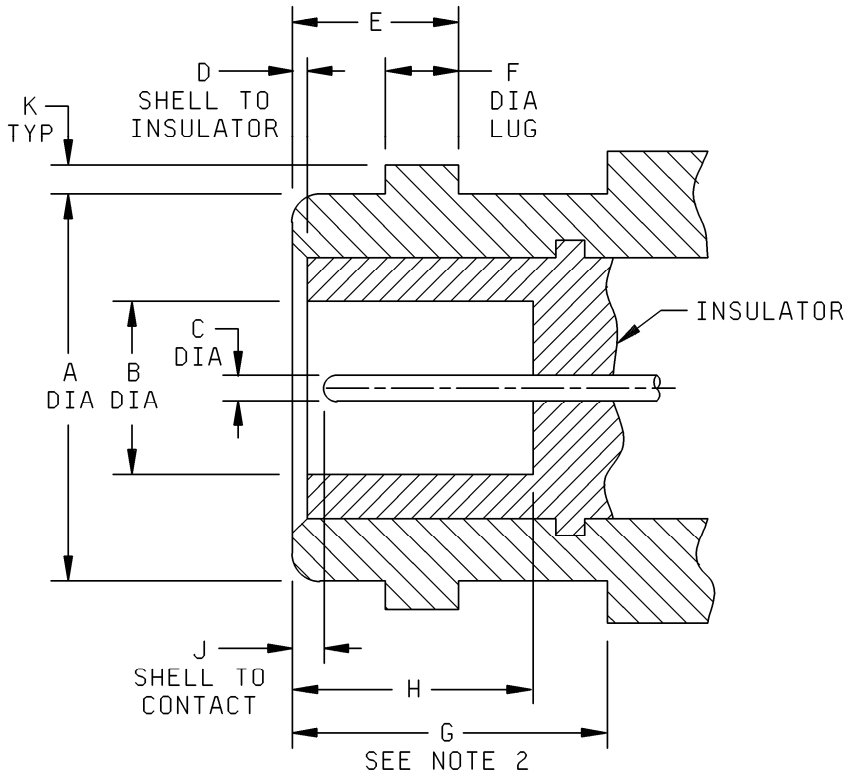


PLUG WITH SOCKET CONTACT

Dimension 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) deep.

FIGURE 55. Interface, coaxial, socket contact, environment resistant.



RECEPTACLE WITH PIN CONTACT

Dimension Ltr.	Inches (mm)	
	Minimum	Maximum
A	.286 (7.26)	?????????
B	.130 (3.30)	--------
C	.037 (0.94)	.039 (0.99)
D	.000 (0.00)	.020 (0.51)
E	.151 (3.84)	?????????
F	.055 (1.40)	?????????
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 56. Interface, coaxial, pin contact, environment resistant.

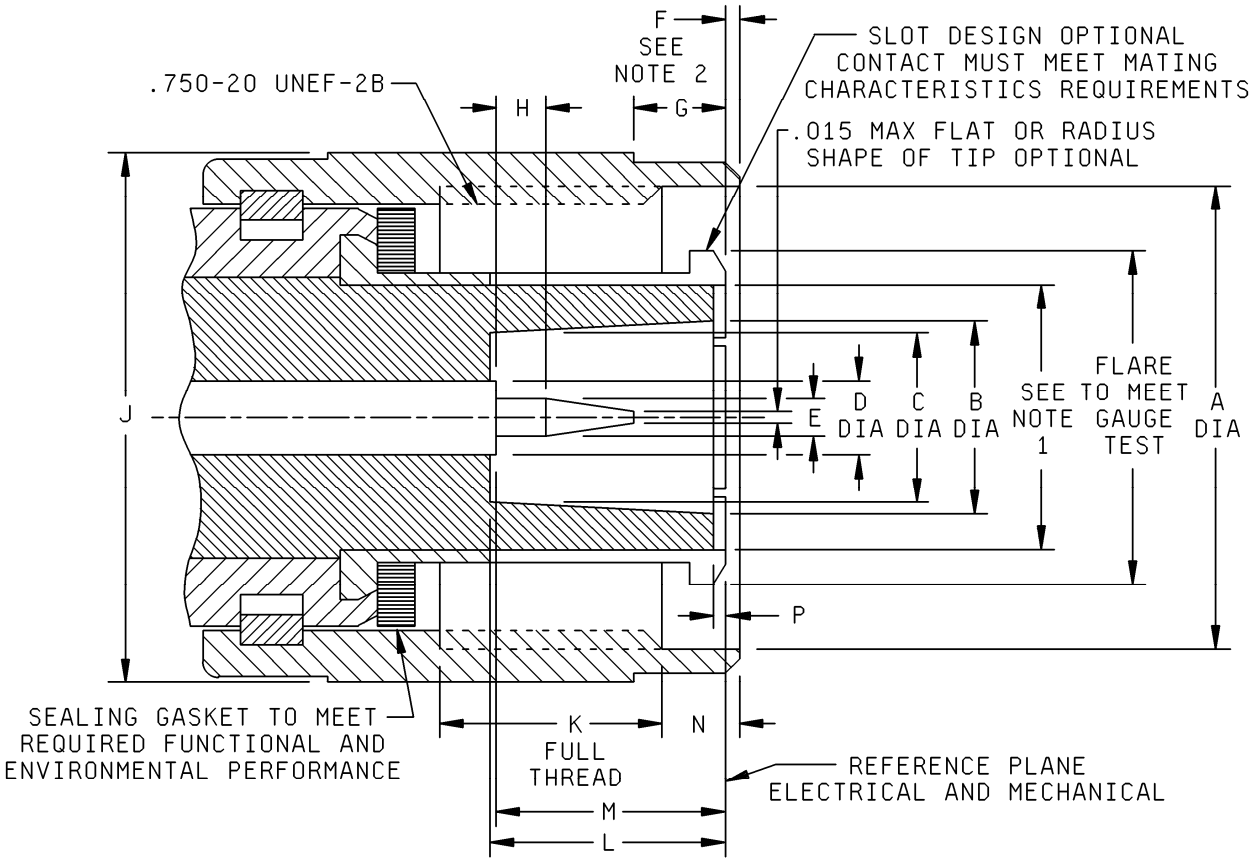


FIGURE 57. Interface, series HN, pin contact.

Dimension 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)	--------

NOTE:
1. I.D. of outer contact when inserted into a .0548 inch maximum diameter ring gauge shall be .432 inch minimum.
2. With nut biased in forward position.

FIGURE 57. Interface, series HN, pin contact. - Continued

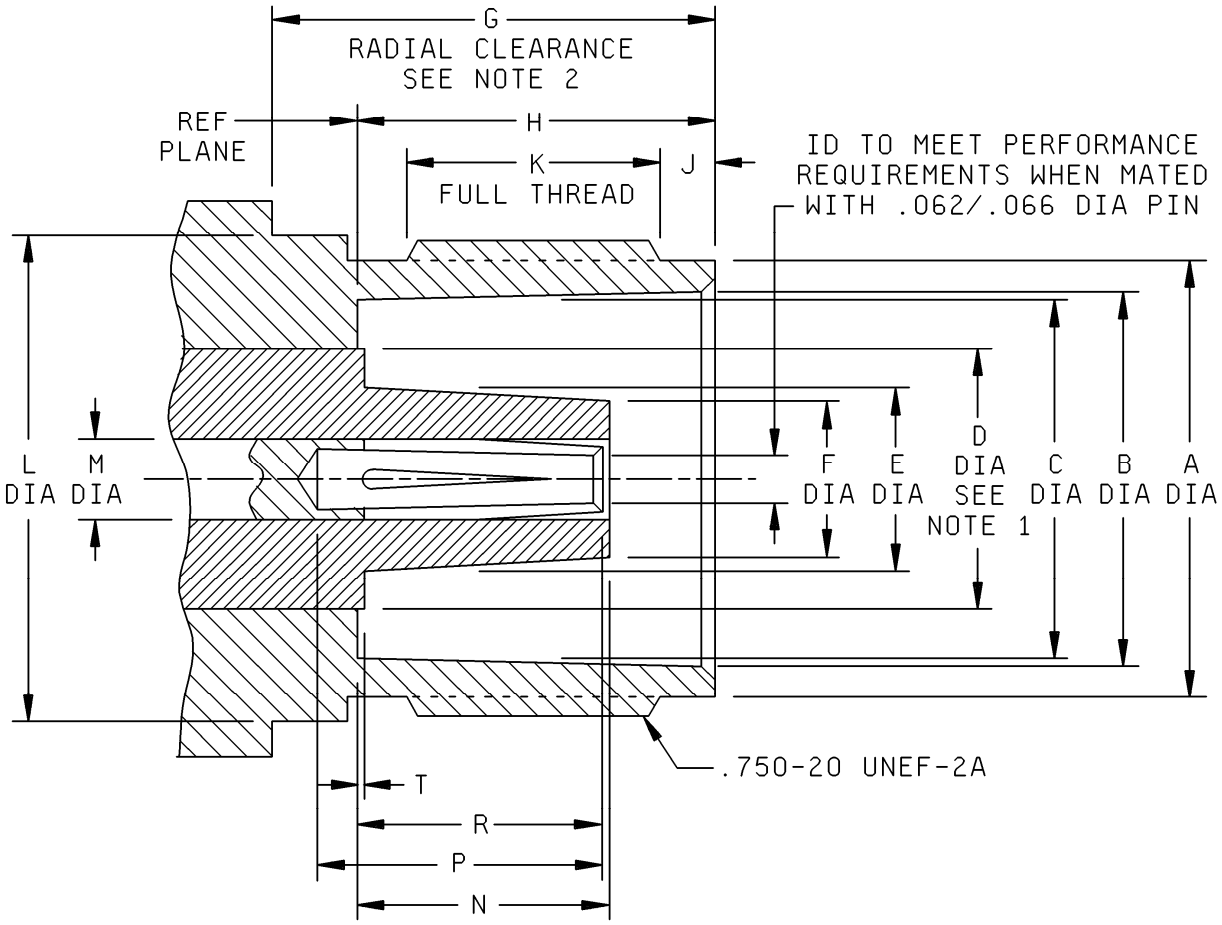


FIGURE 58. Interface, series HN, socket contact.

Dimension 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 58. Interface, series HN, socket contact. - Continued

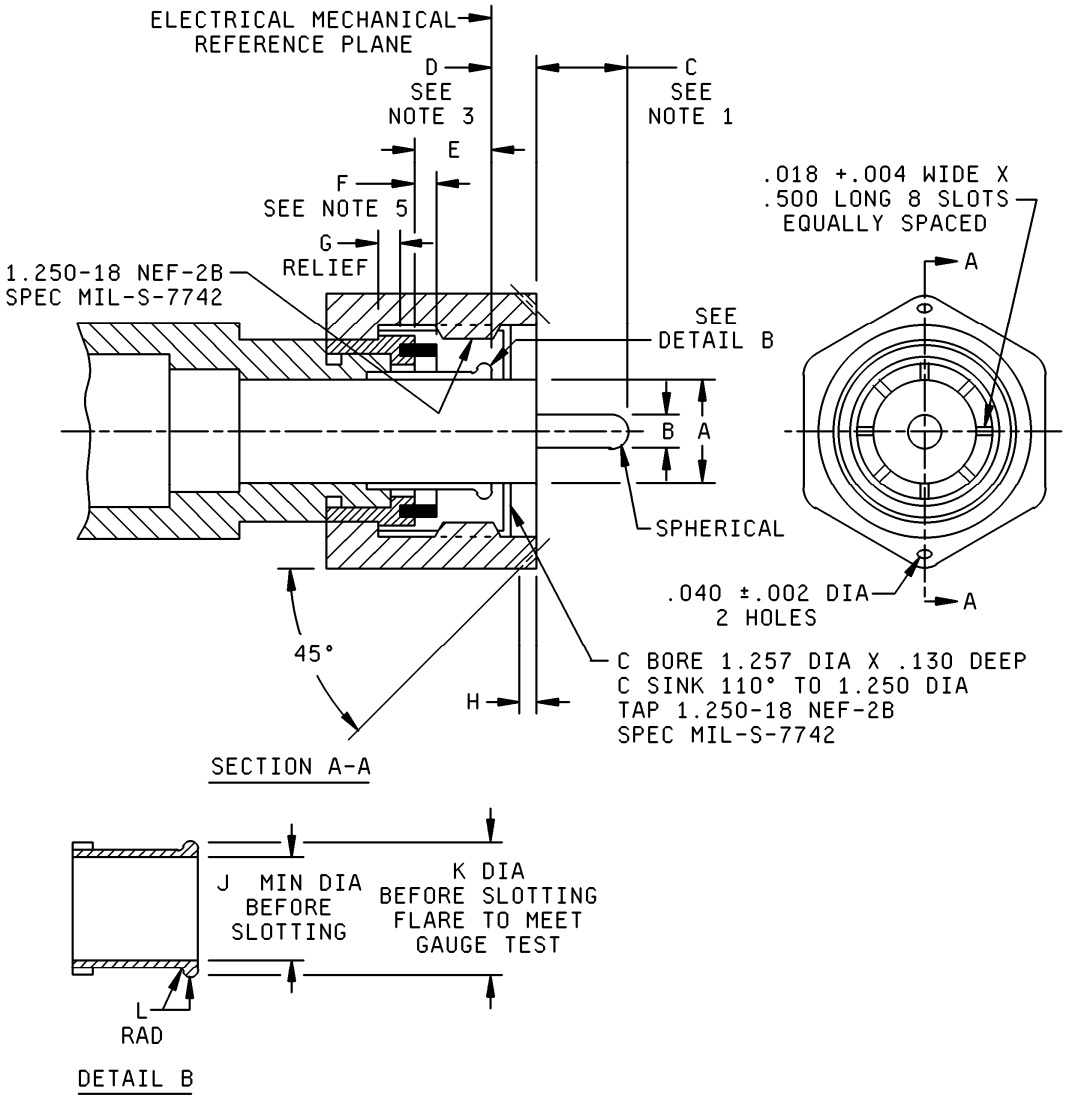


FIGURE 59. Interface, series LT, without contact.

Dimension 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 if from the end of the outer contact to the endof the dielectric.
4. Unless otherwise specified, all tolerances shall be +.005 inch.
5. The gasket upon mating with the mating connector shall meet the electrical and environmental performance requirements.
6. This connector shall meet the gauge requirements as specified in MIL-C-26637

FIGURE 59. Interface, series LT, without contact. - Continued

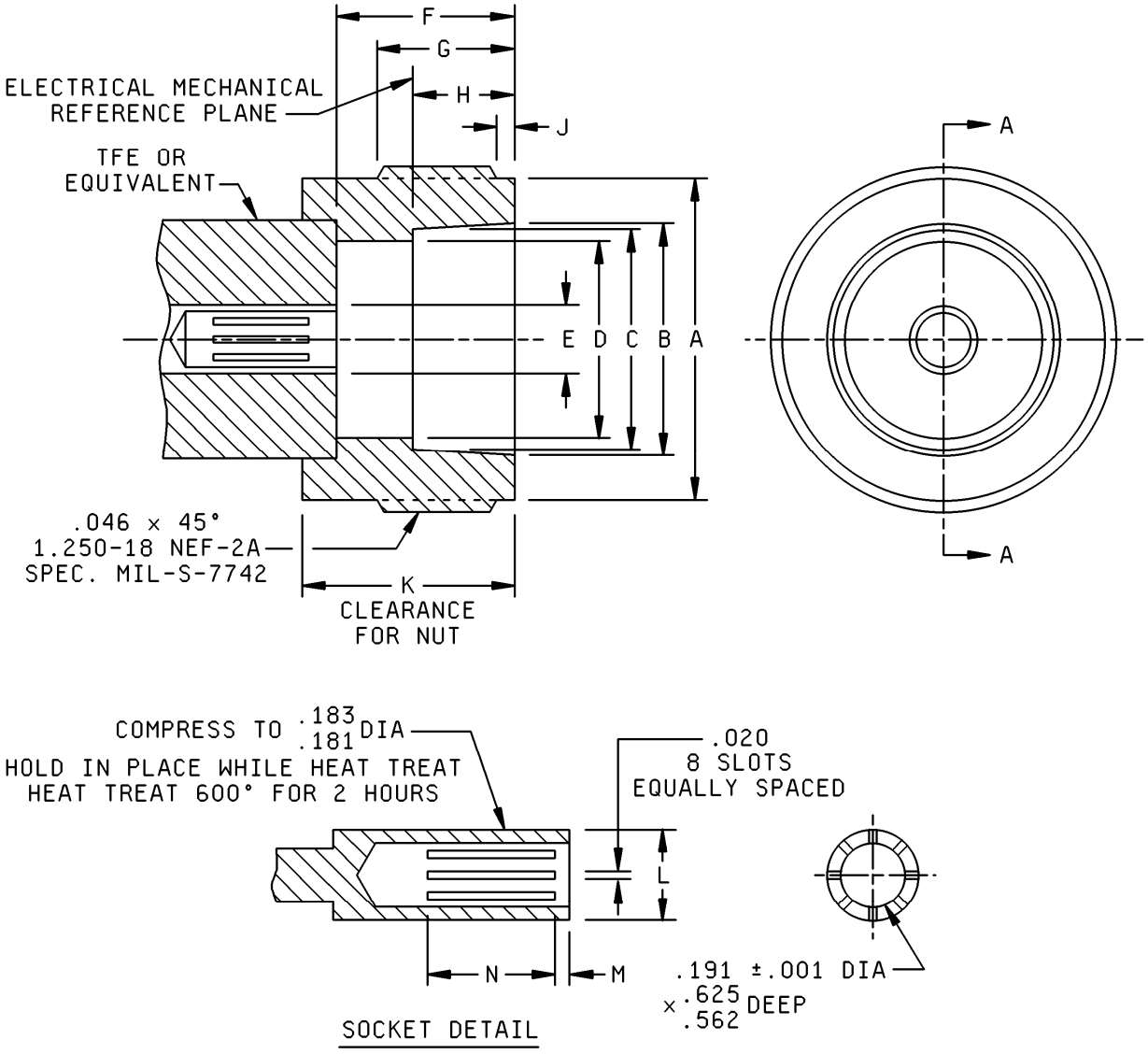
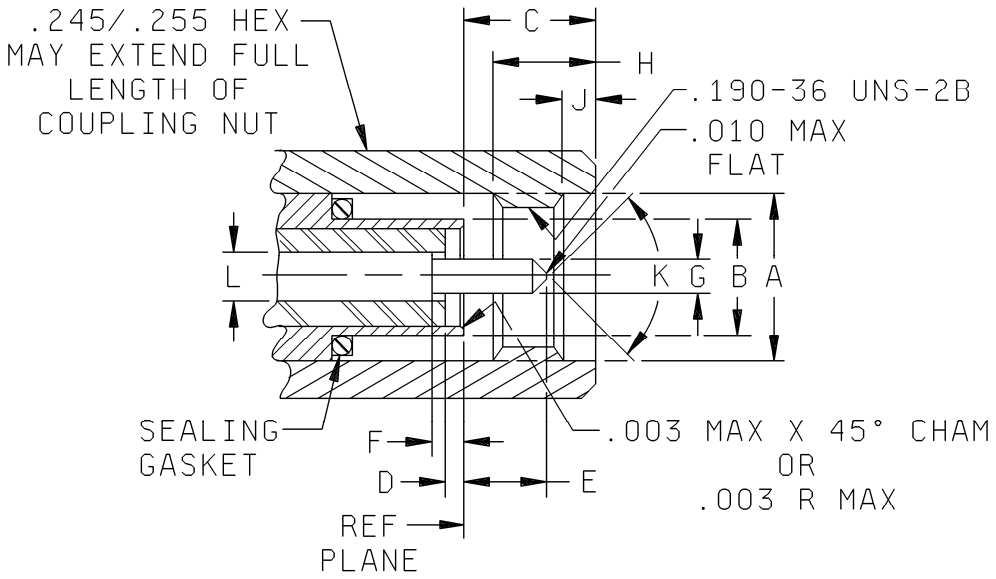


FIGURE 60. Interface, series LT, socket contact.

Dimension 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)	

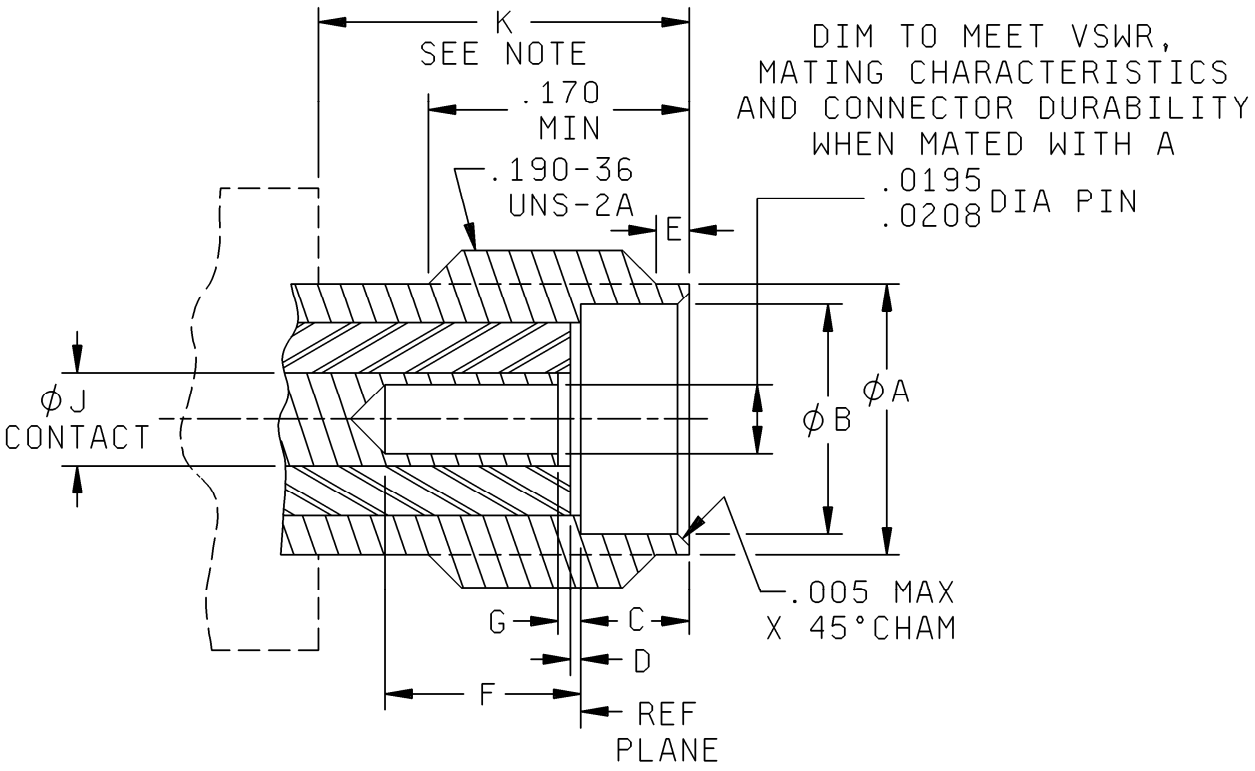
NOTES:
1. Dimensions are in inches.
2. Unless otherwise specified, all tolerances shall be $\pm$.005 inch.
3. This connector shall meet the gauge requirements as specified in MIL-C-26637.

FIGURE 60. Interface, series LT, socket contact. - Continued



Letter	Inches (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.	.0335 (0.85)	.0348 (0.88)

FIGURE 61. Interface, series SSMA, pin contact.



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 62. Interface, series SSMA, socket contact.

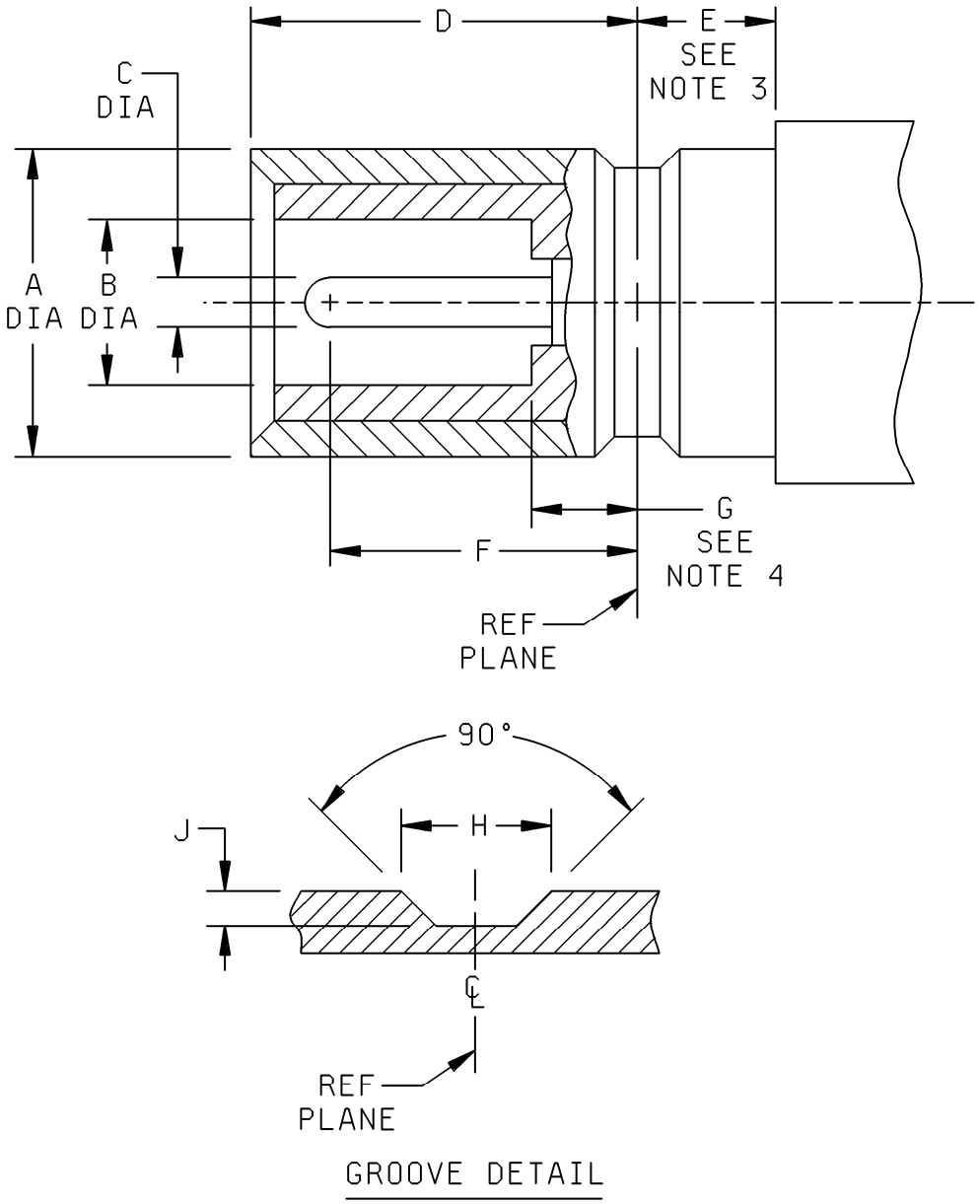
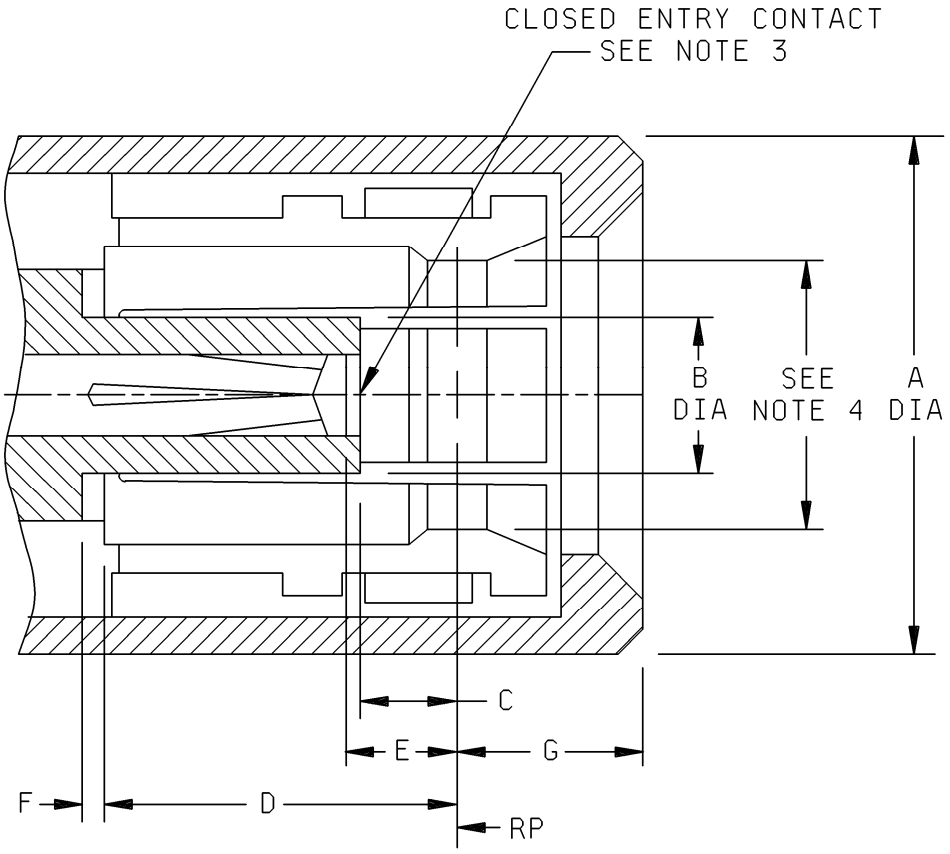


FIGURE 63. Interface, series SSMB, pin contact.

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 ±.005 inch.
3. Clearance for mating connector coupling nut.
4. This dimension (.033 max.) applies to both the insulator and the contact.

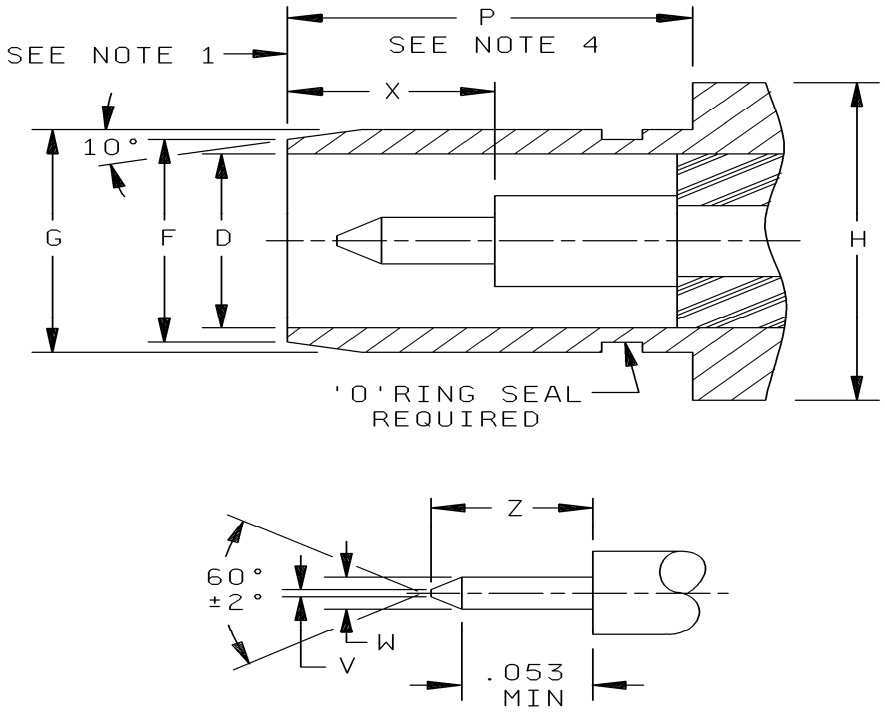
FIGURE 63. Interface, series SSMB, pin contact. - Continued



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)

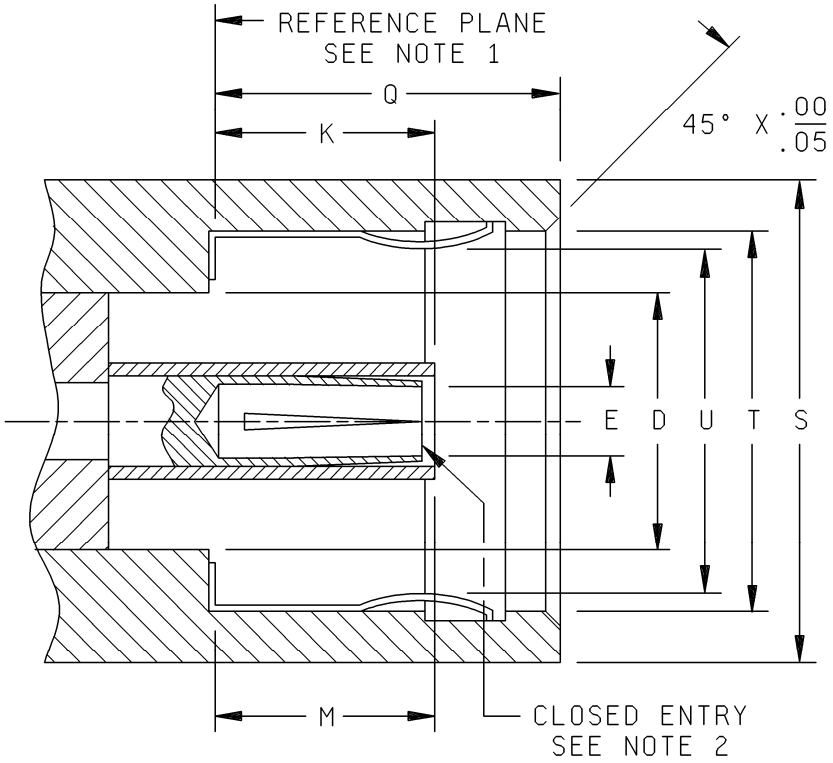
NOTES:
1. All undimensioned pictorial representations are for reference purposes only.
2. Unless otherwise specified, all tolerances shall be ±.005.
3. Inside diameter of contact to meet VSWR, mating characteristics and connector durability when mated with a .014/.015 inch diameter pin contact.
4. Must meet the force to engage/disengage requirement when mated with its mating part.

FIGURE 64. Interface, series SSMB, socket contact.



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)	.503 (12.78)
V	--------	.015 (0.38)
W	.0354 (0.90)	.0370 (0.94)
X	.128 (3.25)	--------
Z	.090 (2.29) nominal	

FIGURE 65. Interface, series BMA, pin contact.



Letter	Inches (mm)		Notes
	Minimum	Maximum	
D	.161 nominal		
E	--------	--------	2
K	.120	.127	
M	.115	--------	
Q	--------	.198	3
S	.290	--------	
T	.225	--------	
U	--------	.200	

NOTES:
1. Reference plane.
2. Bore diameter closed to meet electrical and mechanical requirements when mated with a .0355/.0370 inch pin.
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.

FIGURE 66. Interface dimension, series BMA, socket contact.

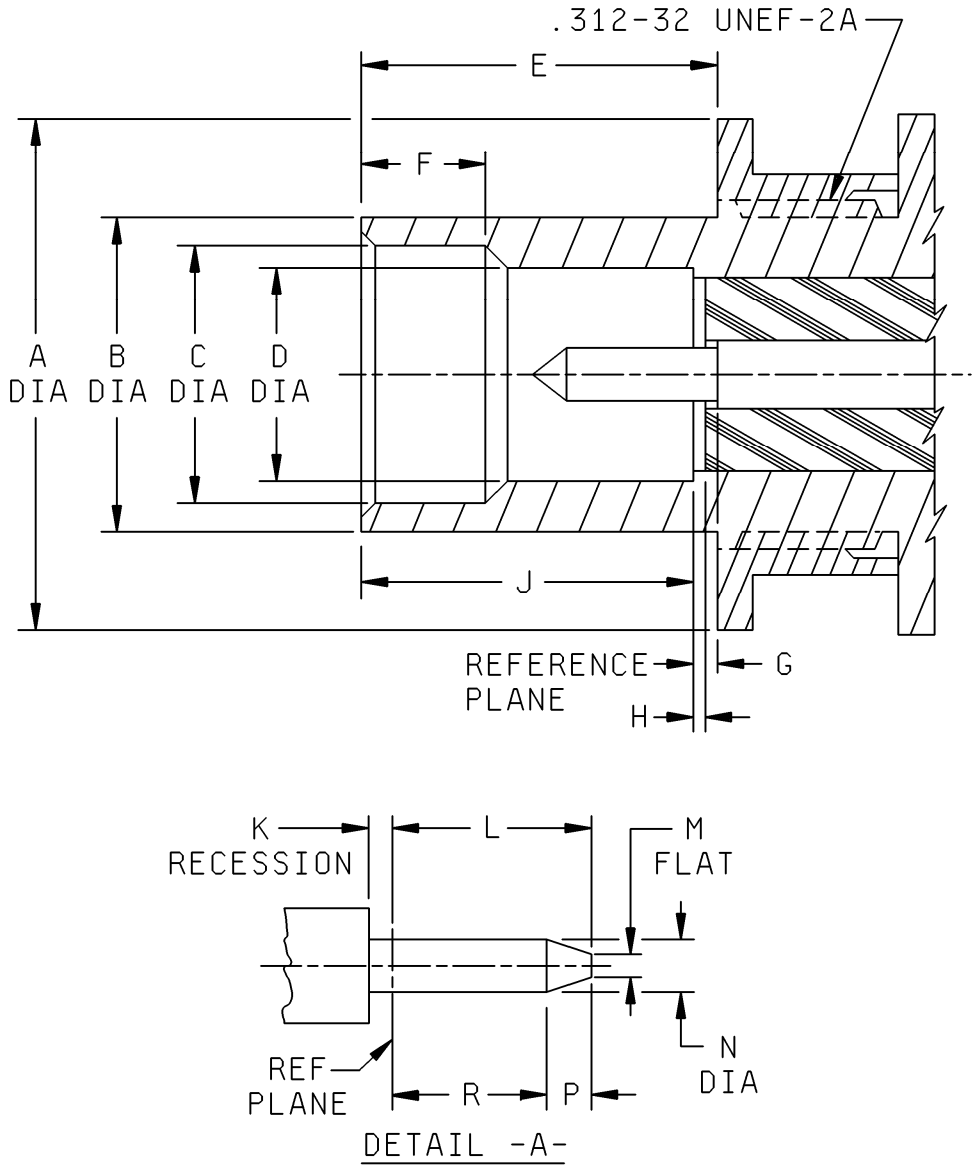


FIGURE 67. Interface, series BMB, pin contact.

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 ±.005 inch.

FIGURE 67. Interface, series BMB, pin contact. - Continued

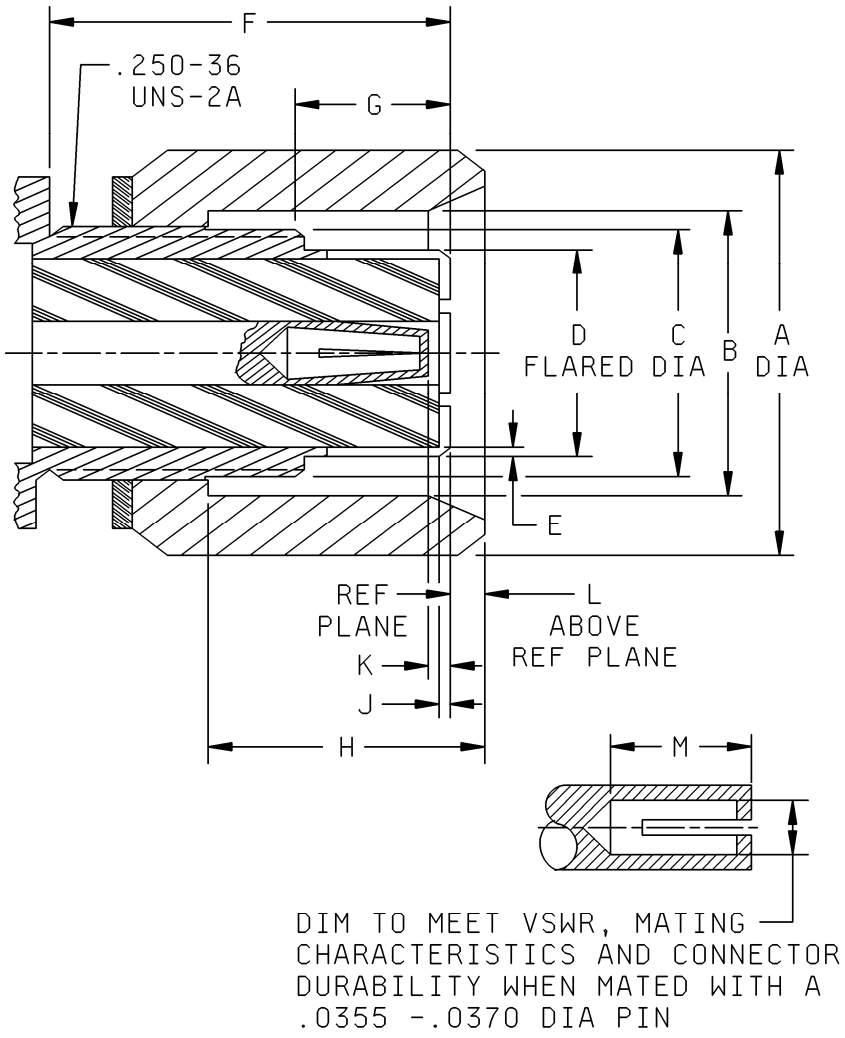
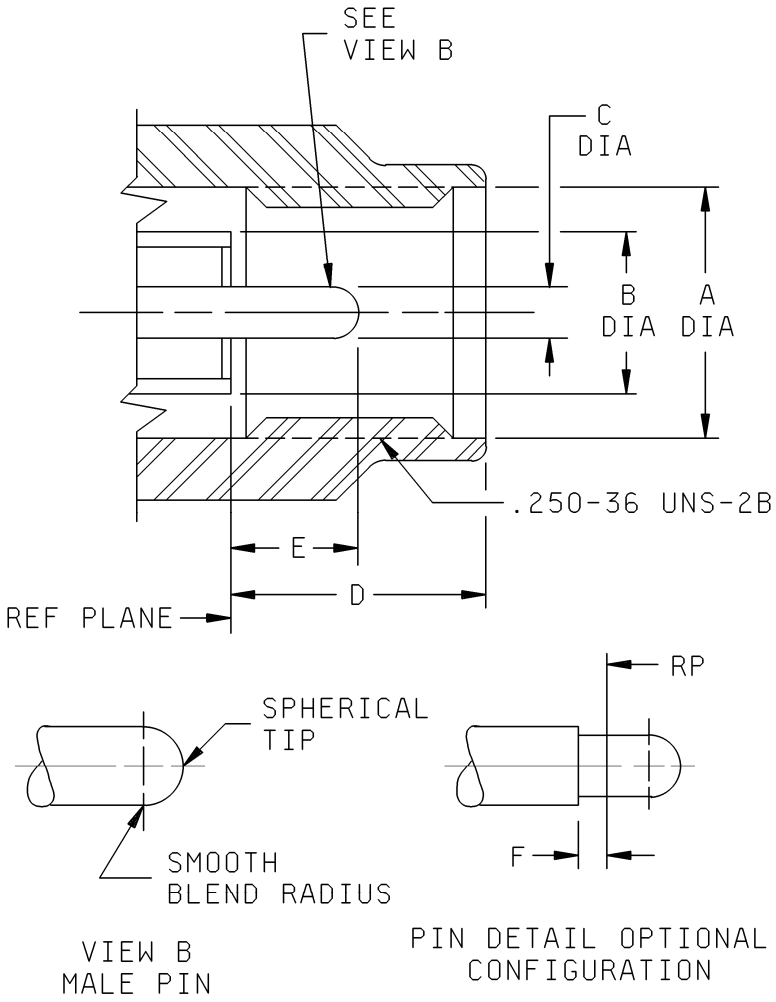


FIGURE 68. Interface, series BMB, socket contact.

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 $\pm$.005 inch.

FIGURE 68. Interface, series BMB, socket contact. - Continued



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.

FIGURE 69. Interface, series SMK, pin contact.

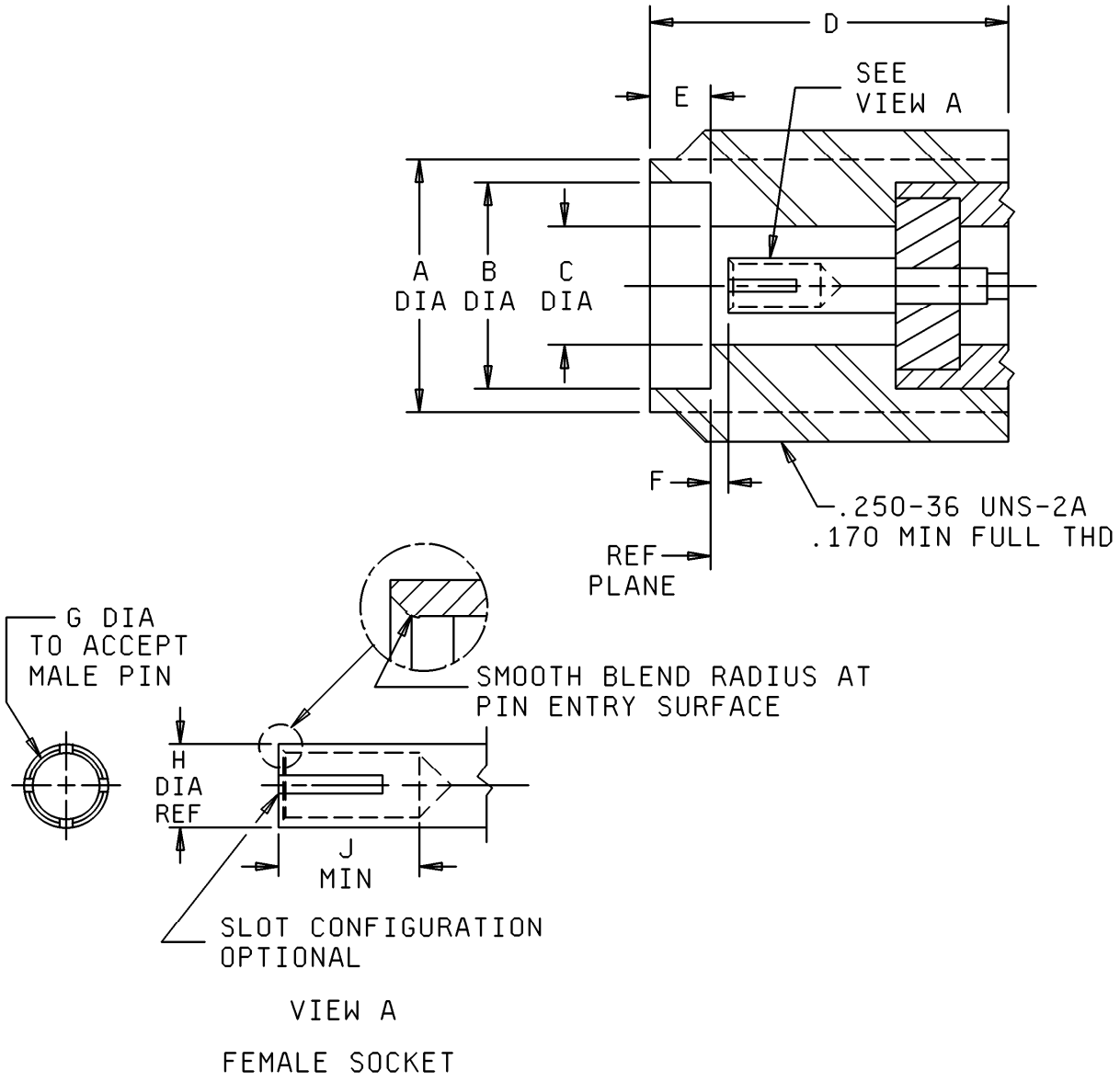
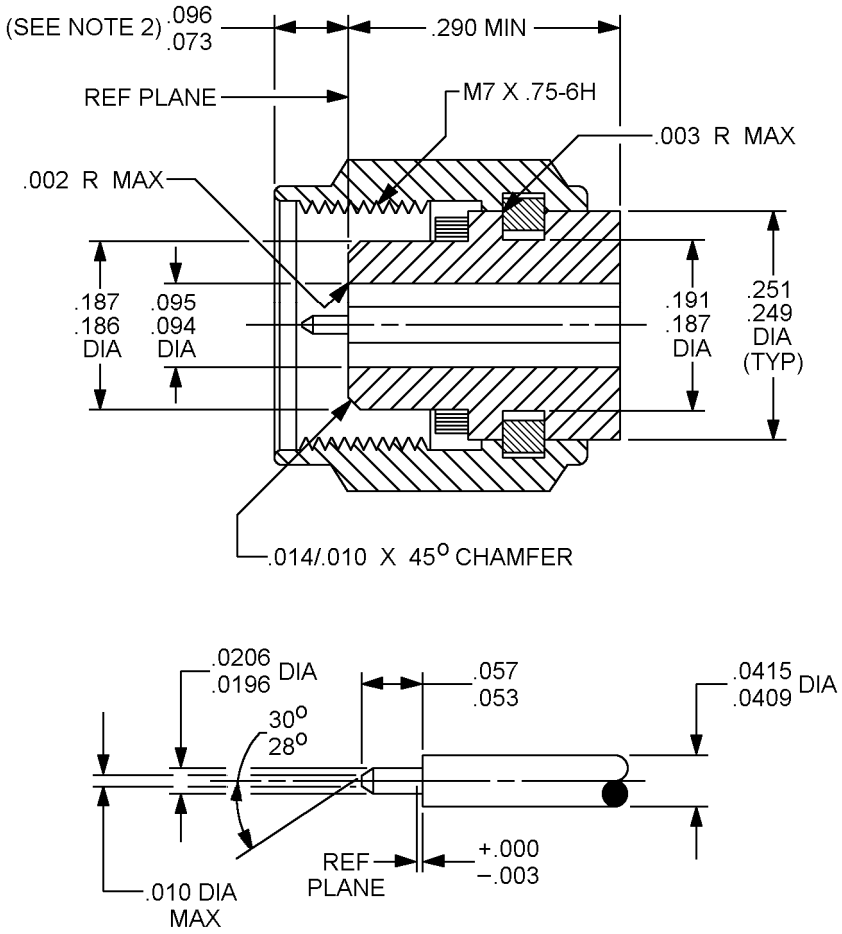


FIGURE 70. Interface, series SMK, socket contact.

Letter	Inches (mm)	
	Minimum	Maximum
A	.206 (5.23)	.214 (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	.0355 (.90)	.0370 (.94)
H	.050 (1.27) Ref.	
J	.105 (2.67)	--------

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only.
3. Unless otherwise specified, all tolerances shall be ±.005 inch.

FIGURE 70. Interface, series SMK, socket contact. - Continued

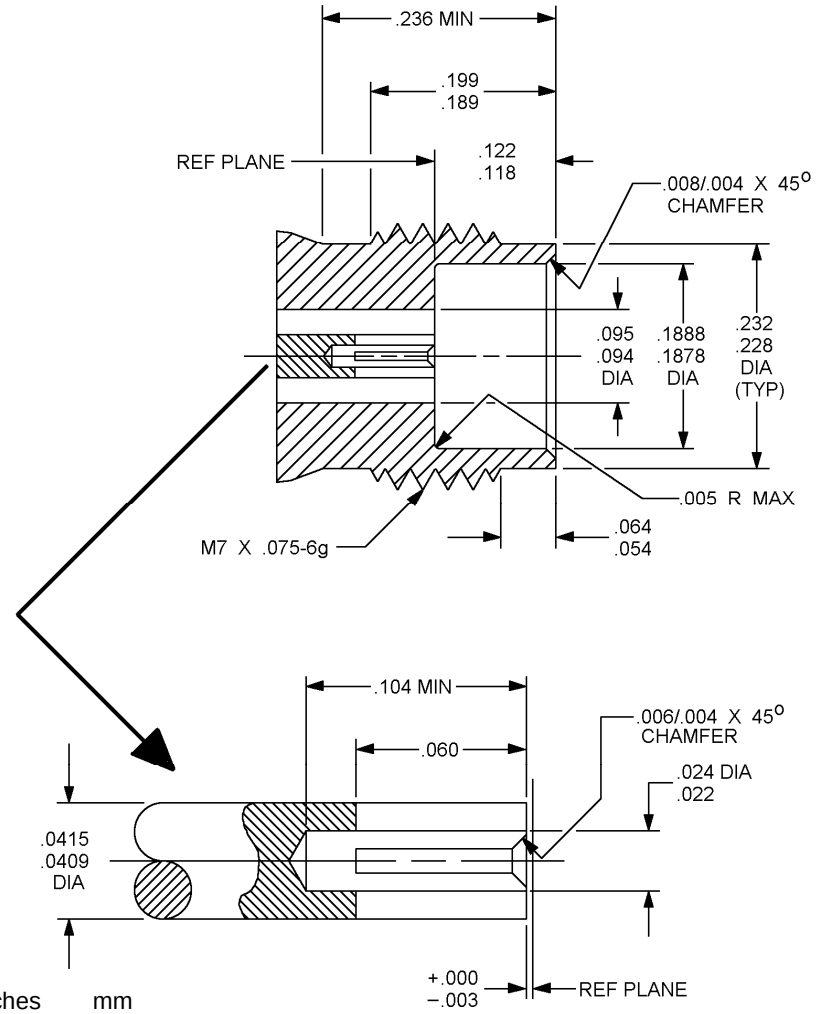


Inches	mm	Inches	mm
.002	0.05	.186	4.72
.003	0.08	.187	4.75
.010	0.25	.191	4.85
.014	0.35	.249	6.32
.0196	0.498	.251	6.37
.0206	0.523	.290	7.37
.0409	1.039	.290	7.37
.0415	1.054		
.053	1.35		
.057	1.45		
.073	1.85		
.094	2.39		
.095	2.41		
.096	2.44		

NOTES.:

1. Insulator to be flush to -.003 below reference plane.
2. With coupling nut biased in the forward direction.
3. Dimensions are in inches.
4. Metric equivalents are given for information only.

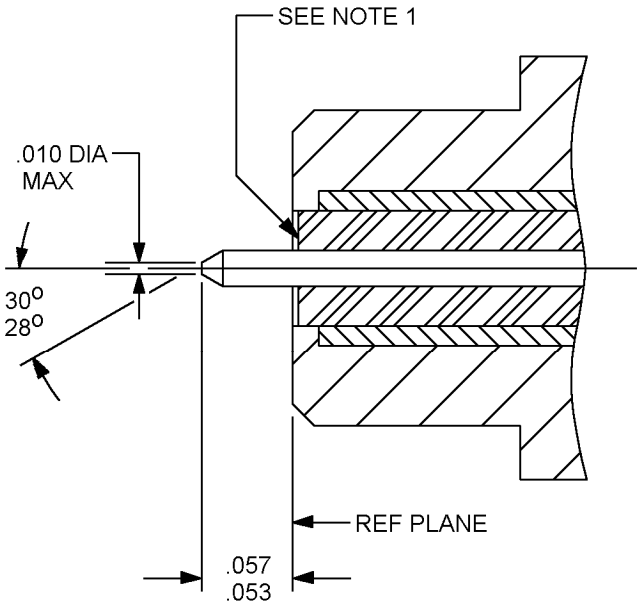
FIGURE 71. Interface dimensions (2.4 mm) pin contact.



Inches	mm	Inches	mm
.003	0.08	.095	2.41
.004	0.10	.104	2.64
.005	0.13	.118	3.00
.006	0.15	.122	3.10
.008	0.20	.1878	4.770
.022	0.56	.1888	4.795
.024	0.61	.189	4.80
.0409	1.039	.199	5.05
.0415	1.054	.228	5.79
.054	1.37	.232	5.89
.060	1.52	.236	5.99
.064	1.62		
.094	2.39		

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Metric equivalents are in parentheses.

FIGURE 72. Interface dimensions (2.4 mm) socket contact.



THE CABLE CENTER CONDUCTOR IS USED
AS THE CENTER CONTACT PIN

Inches	mm
.010	0.25
.053	1.35
.057	1.45

NOTES.

1. Insulator to be flush to -.003 below reference plane.
2. With coupling nut biased in the forward direction.
3. See the manufacturers assembly instructions for cable preparation.

FIGURE 73. 2.4 mm Connector Interface without contact.

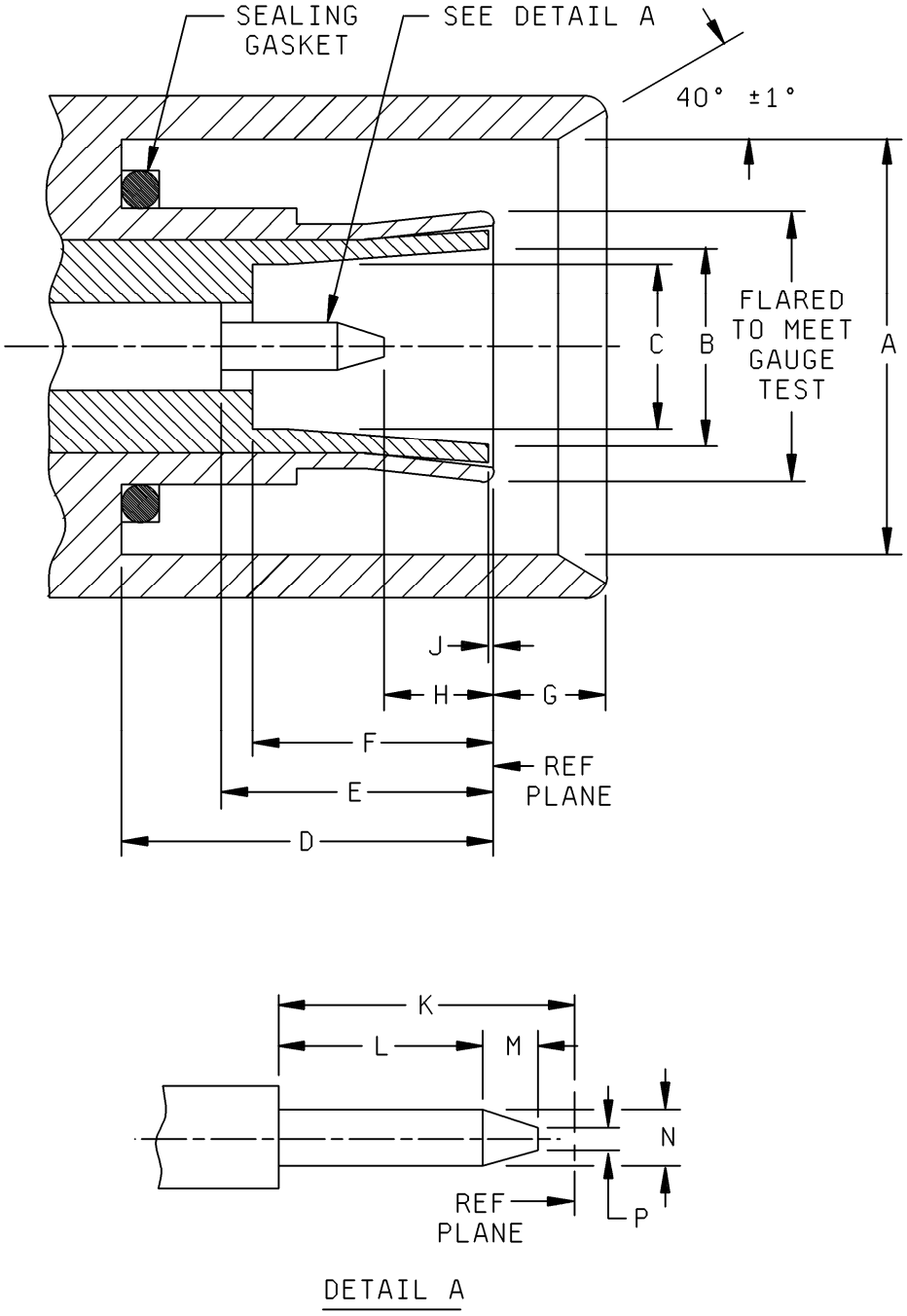


FIGURE 71. Interface, series BMZ, pin contact.

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 71. Interface, series BMZ, pin contact. - Continued

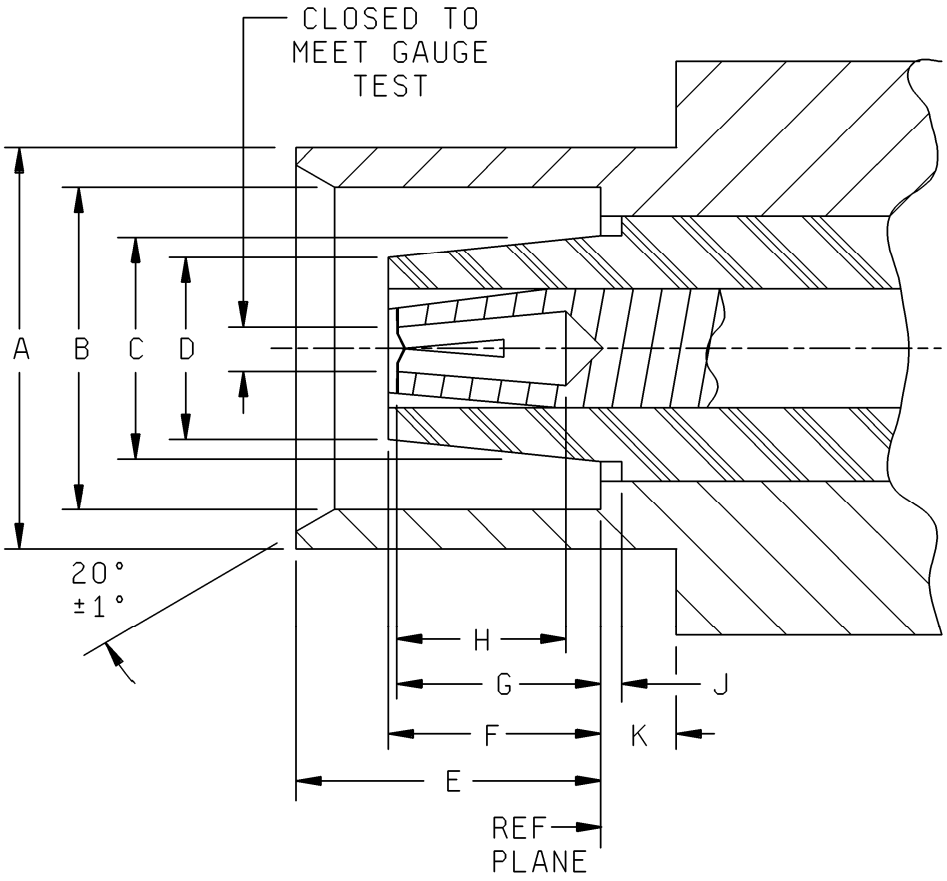
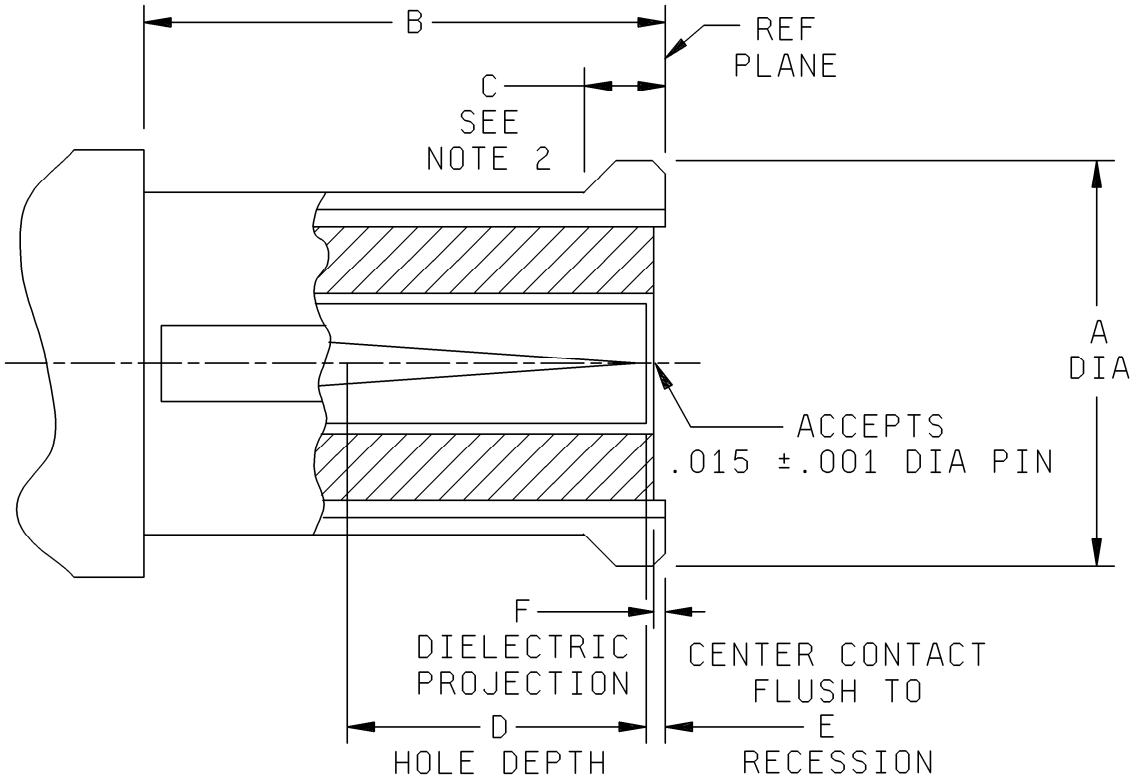


FIGURE 72. Interface, series BMZ, socket contact.

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.

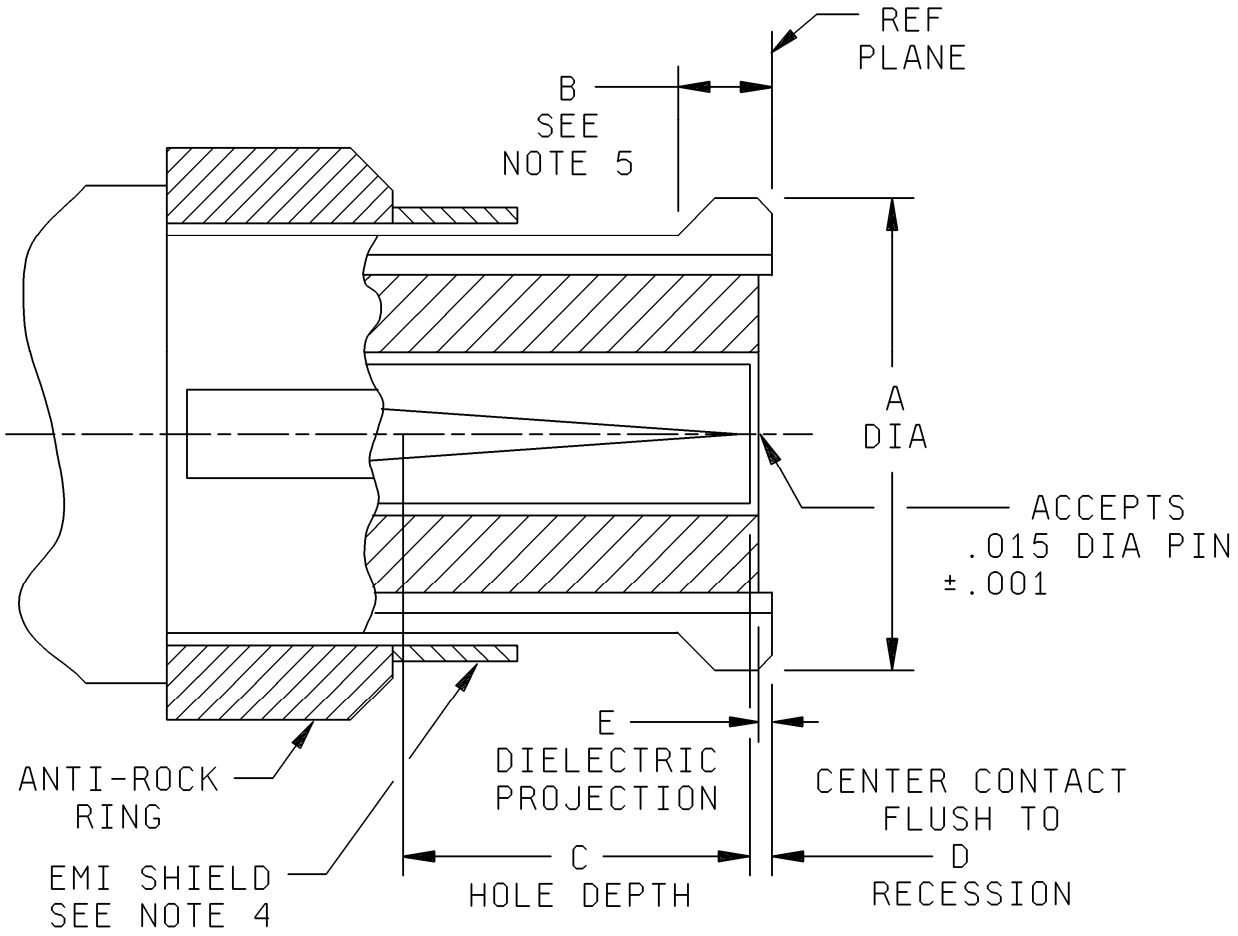
FIGURE 72. Interface, series BMZ, socket contact. - Continued



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.

FIGURE 73. Interface, series SMP, socket contact (uncabled connector).



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 are in inches.
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.

FIGURE 74. Interface, series SMP, socket contact (cabled connector).

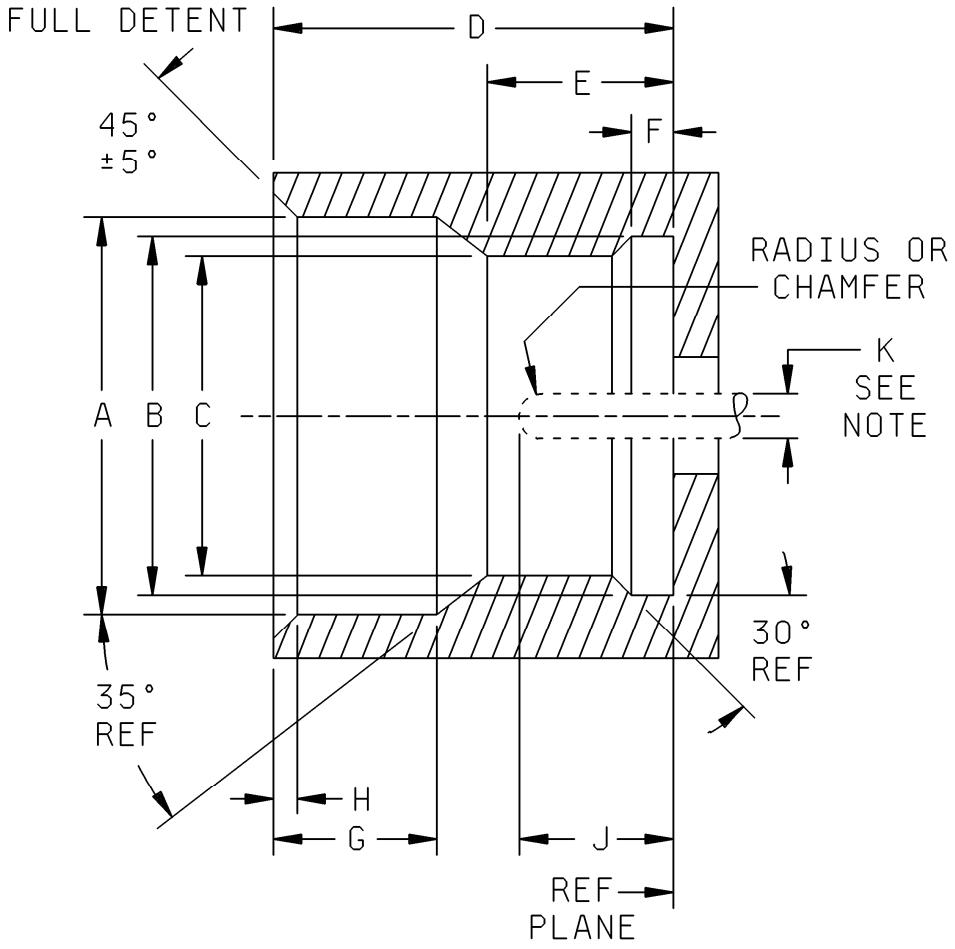
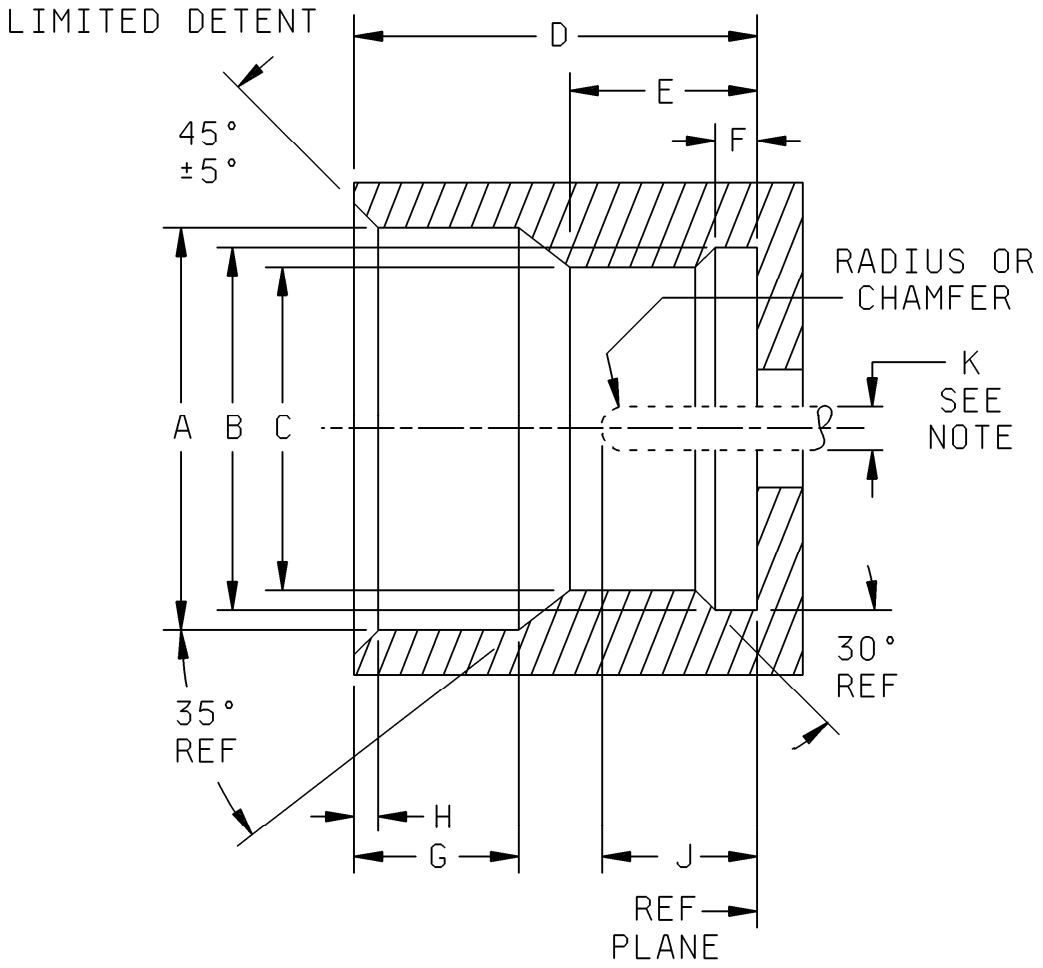


FIGURE 75. Interface, series SMP, pin contact, full detent.

Letter	Inches (mm)	
	Minimum	Maximum
A	.139 (3.53)	.145 (3.68)
B	.124 (3.15)	.126 (3.20)
C	.114 (2.90)	.118 (3.00)
D	.108 (2.74)	.112 (2.84)
E	.051 (1.30)	.057 (1.45)
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 supplied with shroud, refer to the applicable specification.

FIGURE 75. Interface, series SMP, pin contact, full detent. - Continued

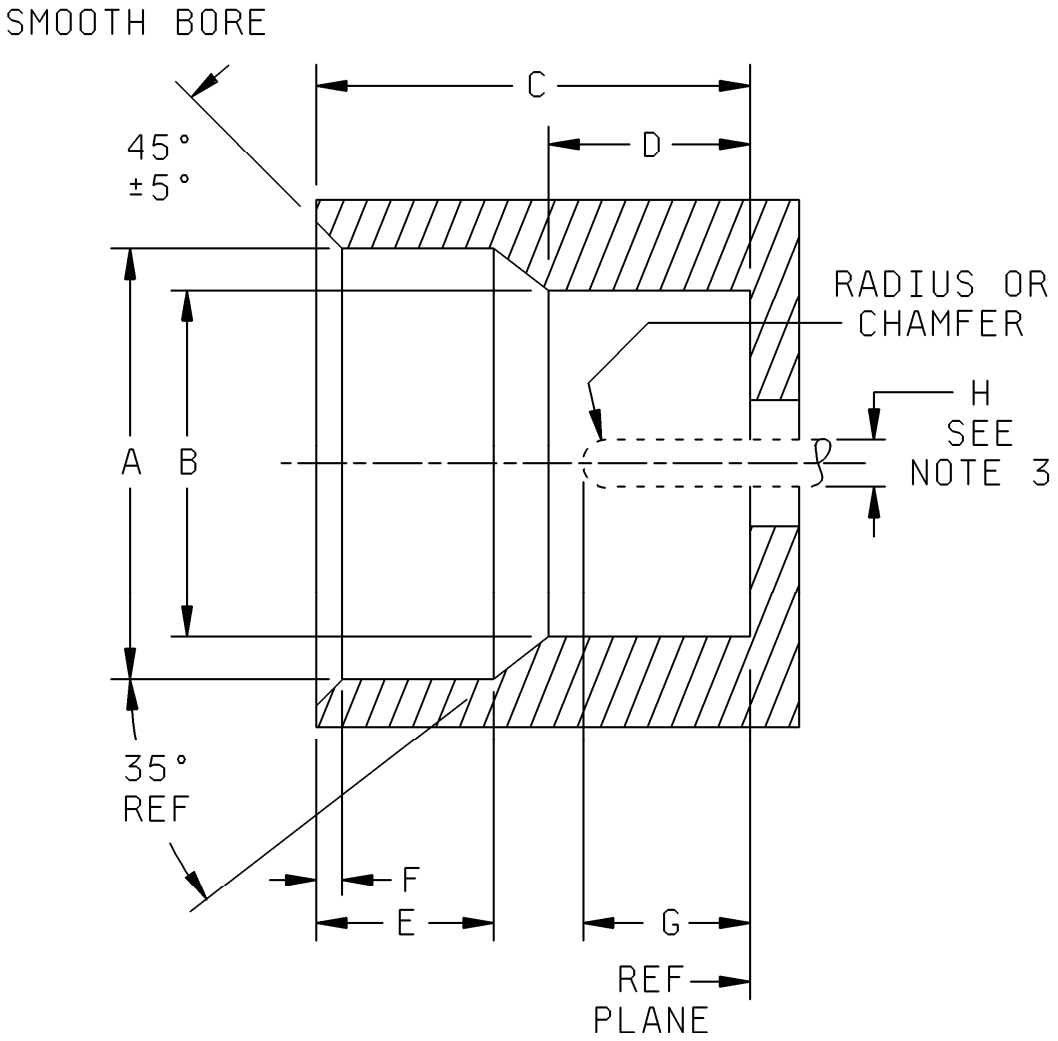


NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only.
3. Pin may not be shipped with shroud, refer to applicable specification.

FIGURE 76. Interface, series SMP, pin contact, limited detent.

Letter	Inches (mm)	
	Minimum	Maximum
A	.139 (3.53)	.145 (3.68)
B	.124 (3.15)	.126 (3.20)
C	.118 (3.00)	.122 (3.10)
D	.108 (2.74)	.112 (2.84)
E	.054 (1.37)	.060 (1.52)
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)

FIGURE 76. Interface, series SMP, pin contact, limited detent. - Continued

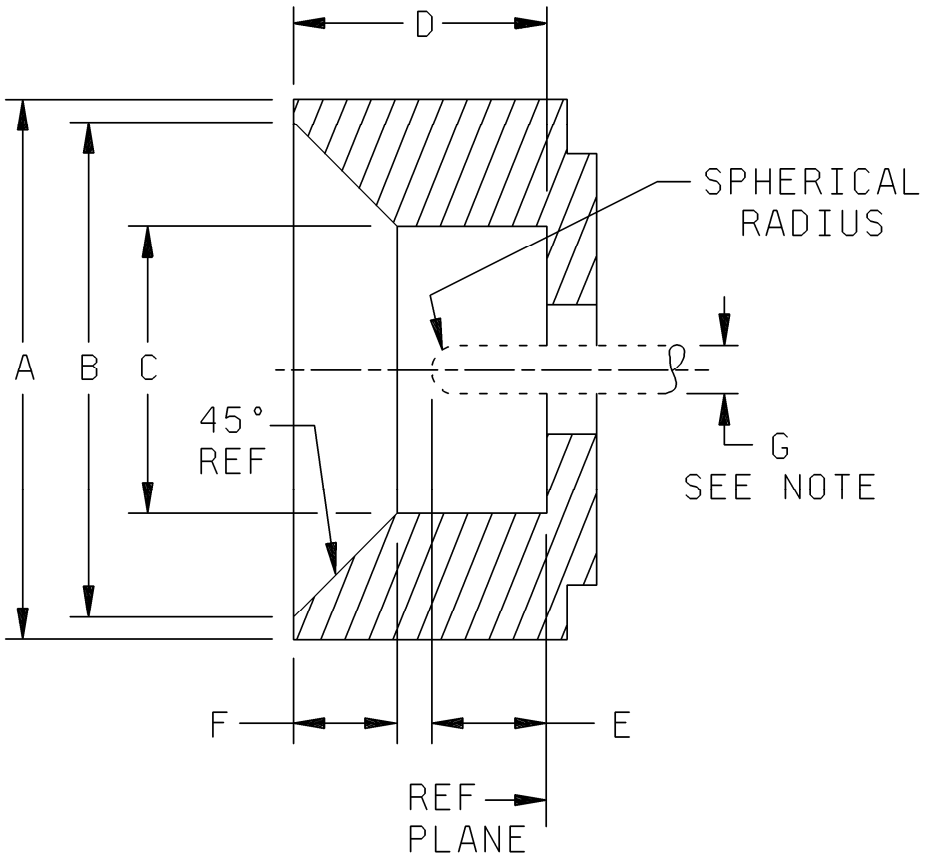


Notes:
1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only.
3. Pin may not be supplied with shroud, refer to applicable specification.

FIGURE 77. Interface, series SMP, pin contact, smooth bore.

Letter	Inches (mm)	
	Minimum	Maximum
A	.139 (3.53)	.145 (3.68)
B	.123 (3.12)	.127 (3.23)
C	.108 (2.74)	.112 (2.84)
D	.059 (1.50)	.065 (1.65)
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)

FIGURE 77. Interface, series SMP, pin contact, smooth bore. - Continued

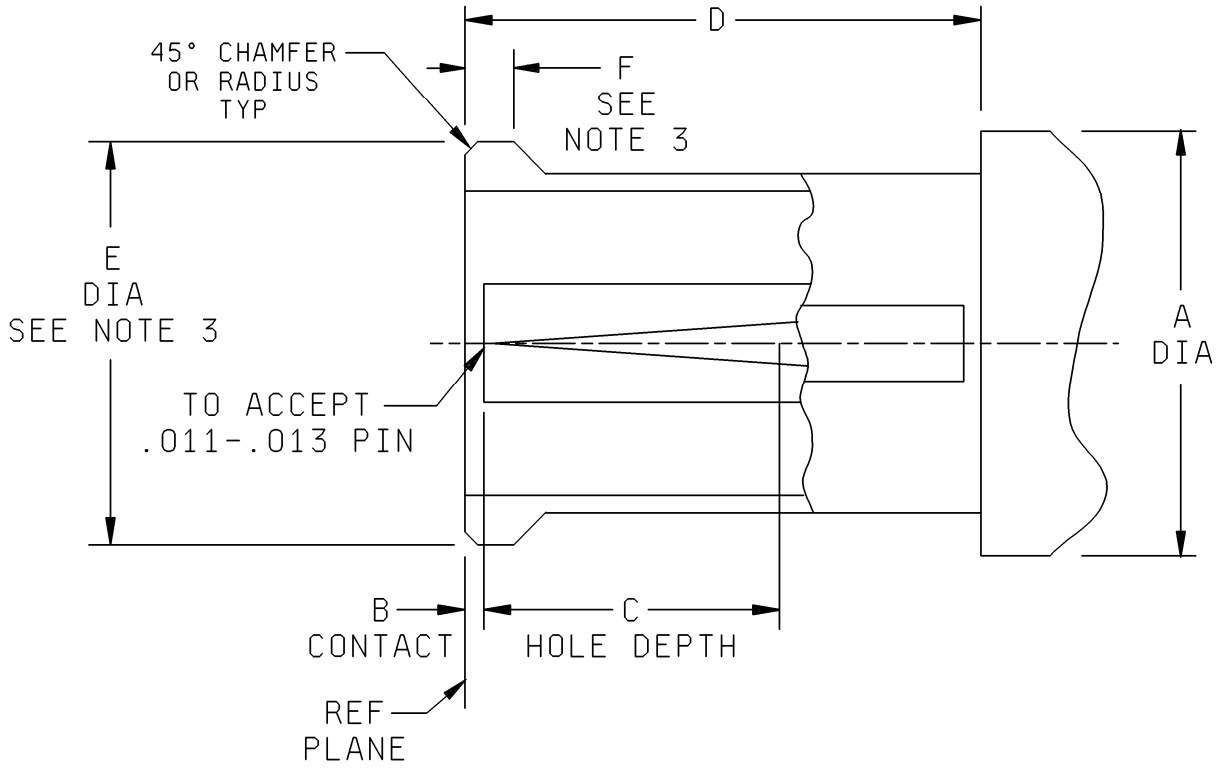


NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only.
3. Pin may not be supplied with shroud, refer to applicable specification.

FIGURE 78. Interface, series SMP, pin contact, catchers mit.

Letter	Inches (mm)	
	Minimum	Maximum
A	.230 (5.84)	.240 (6.10)
B	.210 (5.33)	.220 (5.59)
C	.120 (3.05)	.130 (3.30)
D	.108 (2.74)	.112 (2.84)
E	.045 (1.14)	.055 (1.40)
F	.043 (1.09)	.047 (1.19)
G see note 3	.014 (0.36)	.016 (.41)

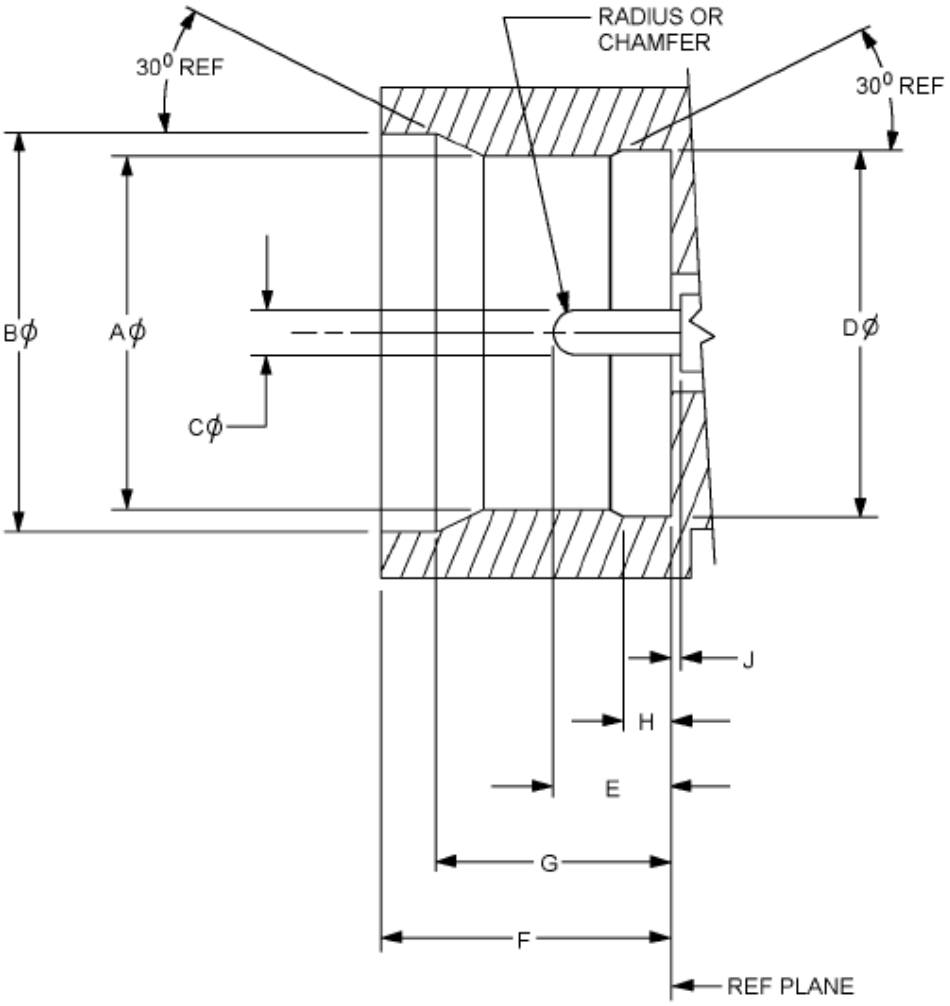
FIGURE 78. Interface, series SMP, pin contact, catchers mit. - Continued



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.

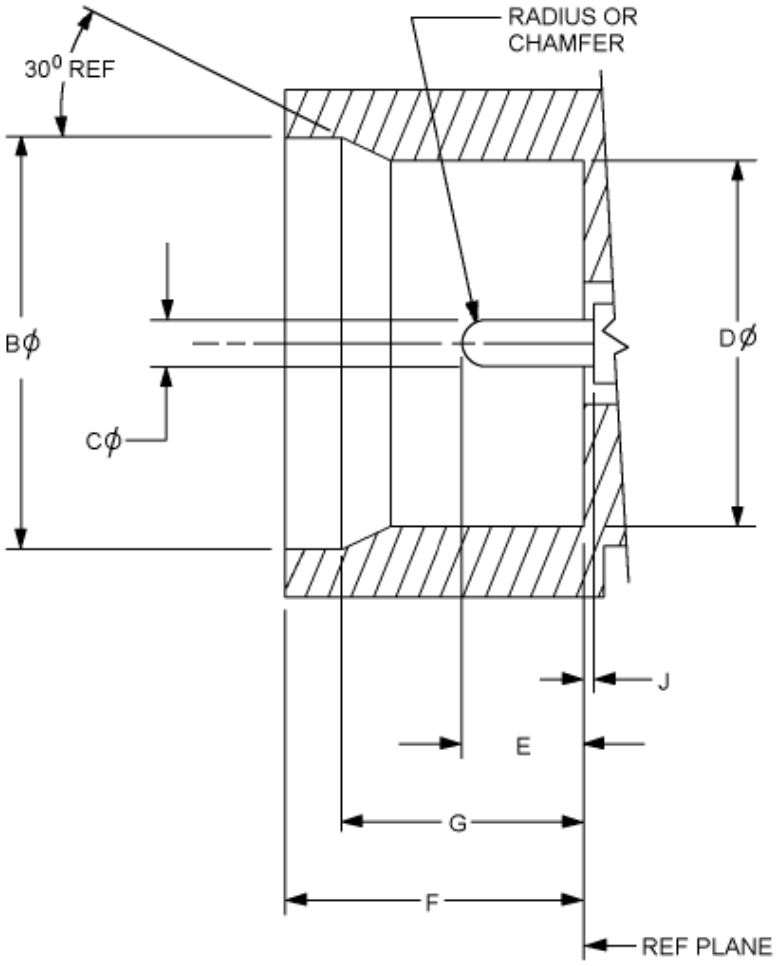
FIGURE 79. Interface, series SMPM, socket contact.



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.

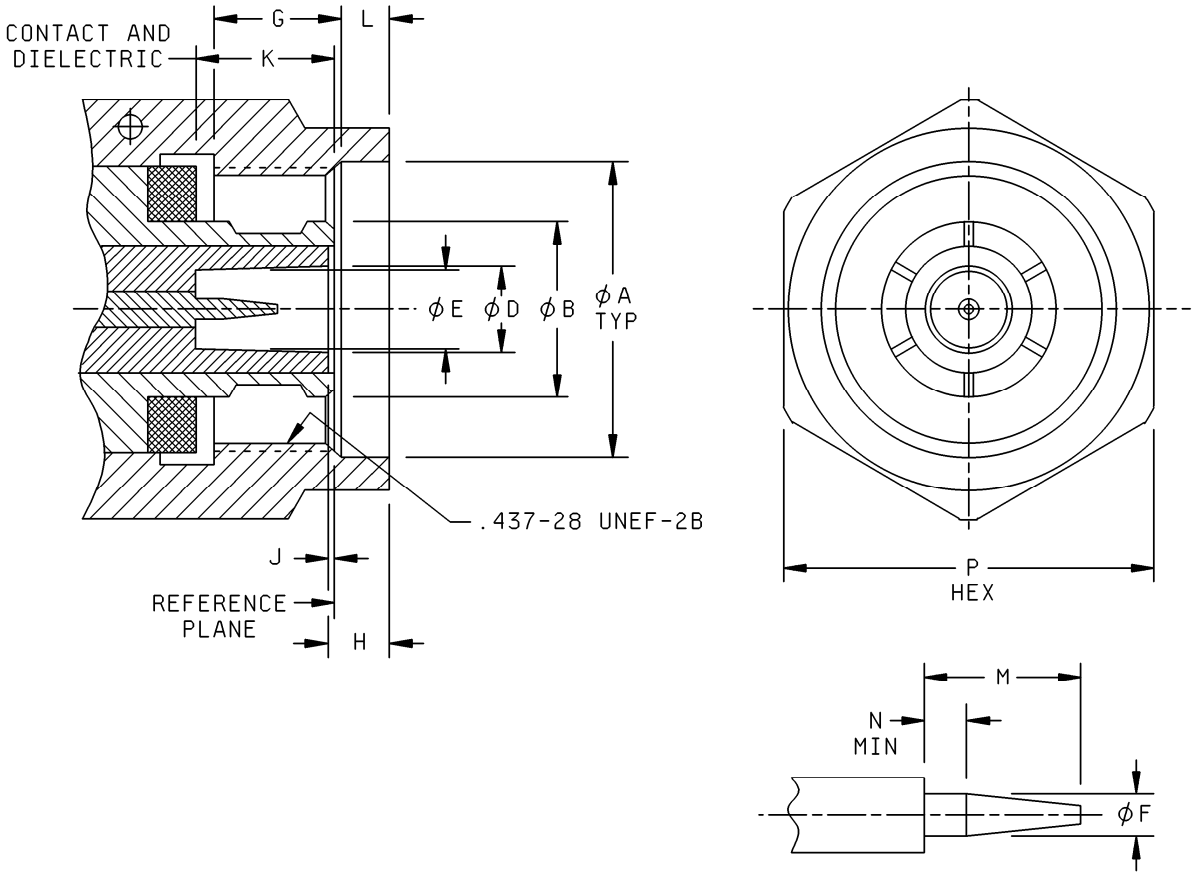
FIGURE 80. Interface, series SMPM, pin contact, (full detent).



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)	--------
P	.562 (14.27)	

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

FIGURE 81. Interface, series SMPM, pin contact (smooth bore).



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 contacts.
2. Metric equivalents are given for information purposes only.

FIGURE 82. Interface, series TK, pin contact, slotted outer contact.

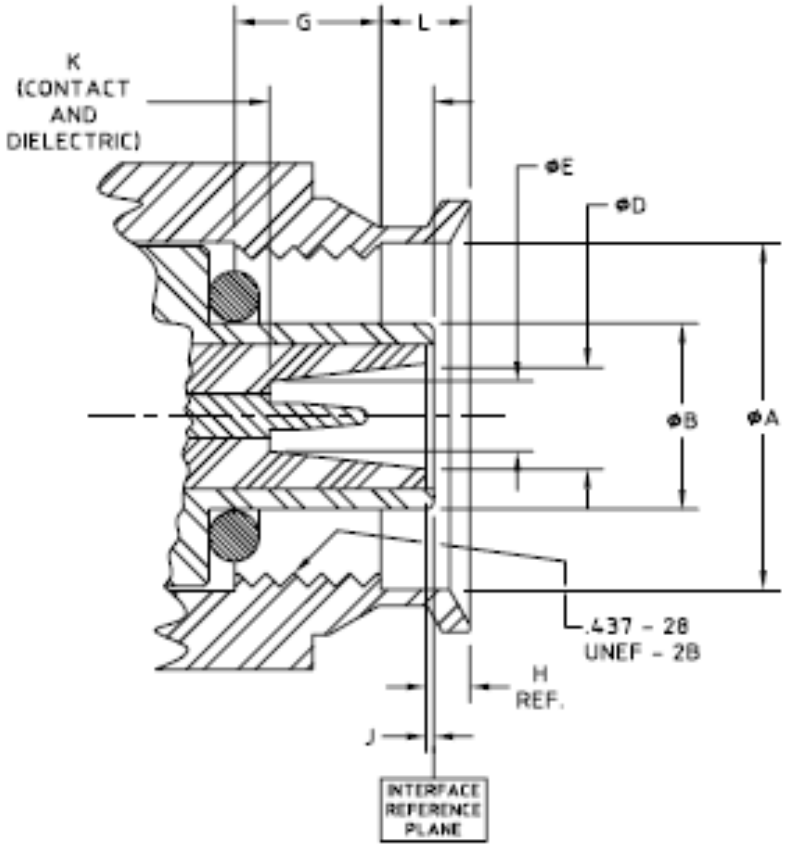
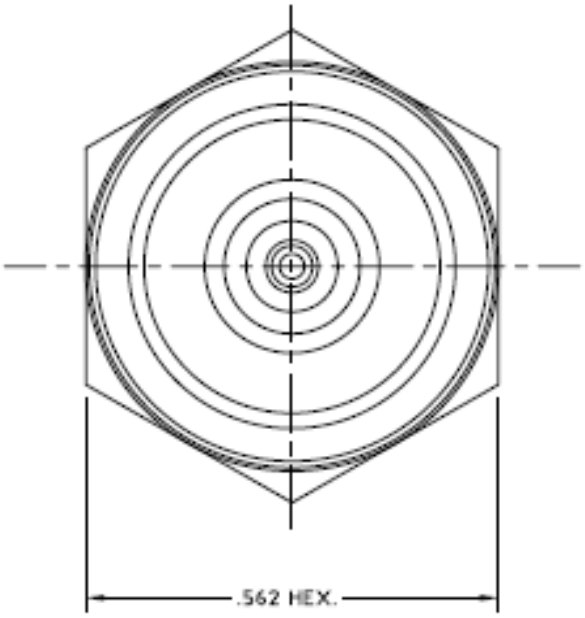
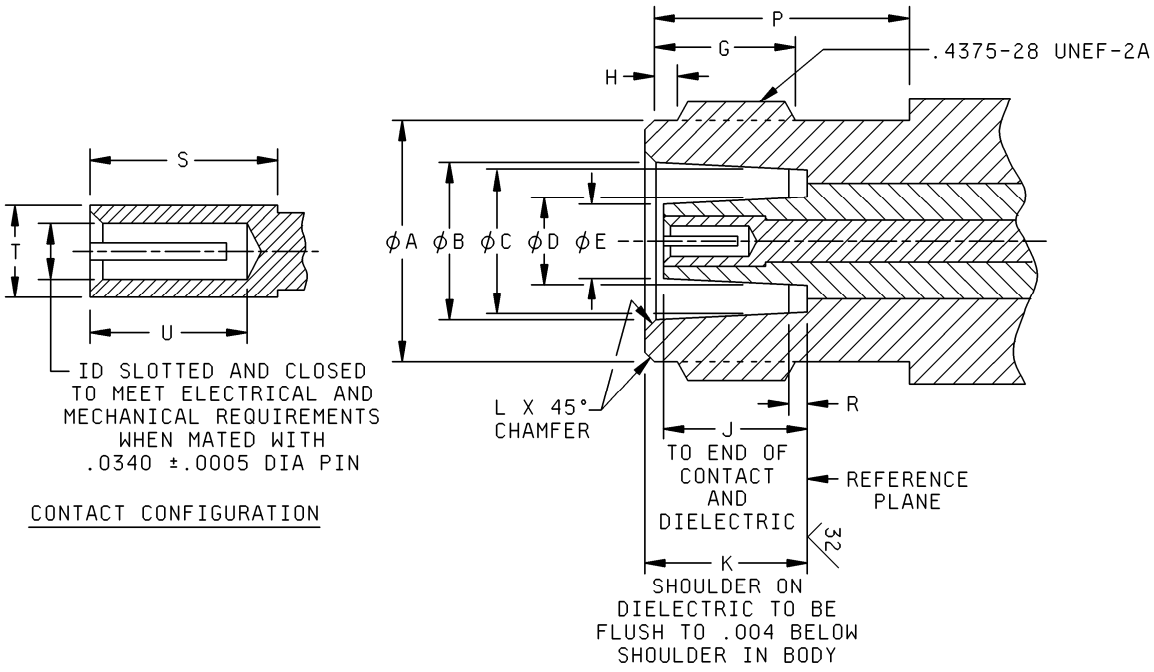


FIGURE 83. Interface, series TK, pin contact, unslotted outer contact.



LTR	MALE	
	MINIMUM	MAXIMUM
	INCHES [mm]	INCHES [mm]
ØA	.440 [11.18]	
ØB	.2370 [6.020]	.2380 [6.045]
ØD	.124 [3.15]	.126 [3.20]
ØE	.114 [2.90]	.116 [2.95]
ØF	.0335 [.085]	.0345 [.876]
G	.173 [4.39]	.215 [5.46]
H	.000 [.00]	.096 [2.44]
J	.000 [.00]	.004 [.10]
K	.209 [5.31]	.212 [5.38]
L	.063 [1.60]	.085 [2.16]
M	.120 [3.05]	.130 [3.30]
N	.030 [.76]	.040 [1.02]

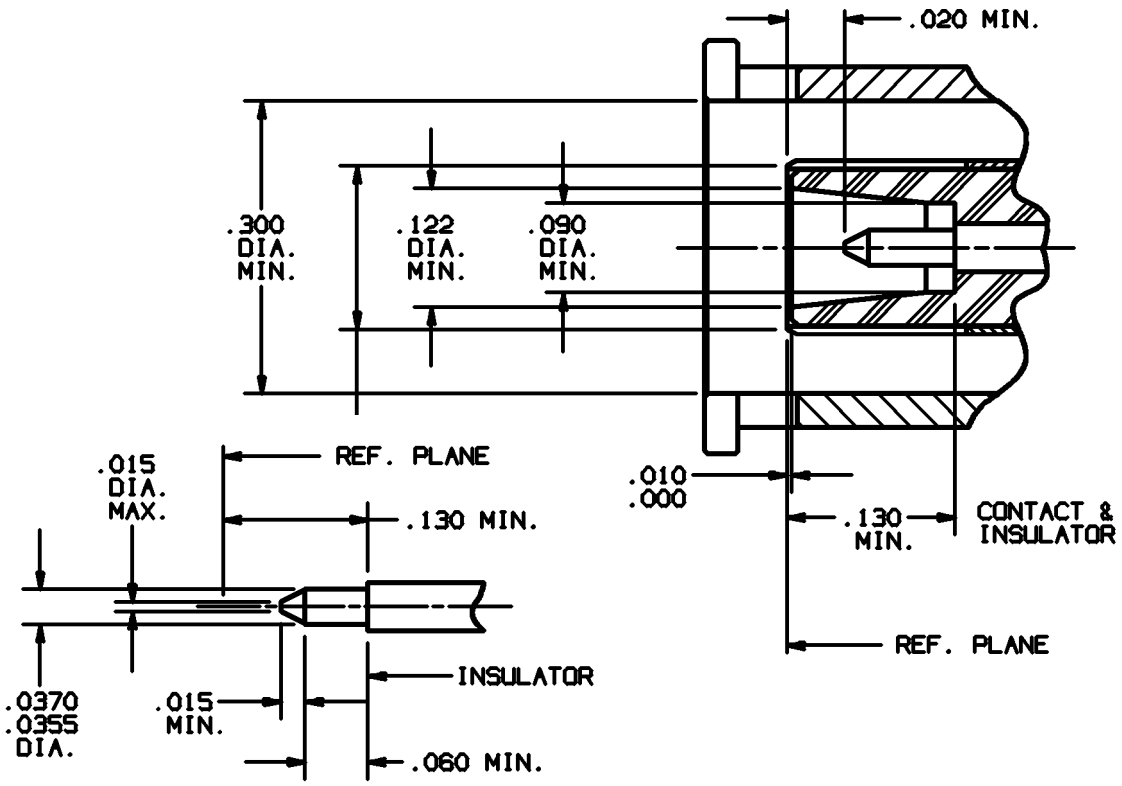
FIGURE 83. Interface, series TK, pin contact, unslotted outer contact. Continued



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.	.122 (3.10)	.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 contacts.
2. Metric equivalents are given for information purposes only.

FIGURE 83. Interface, series TK. socket contact.

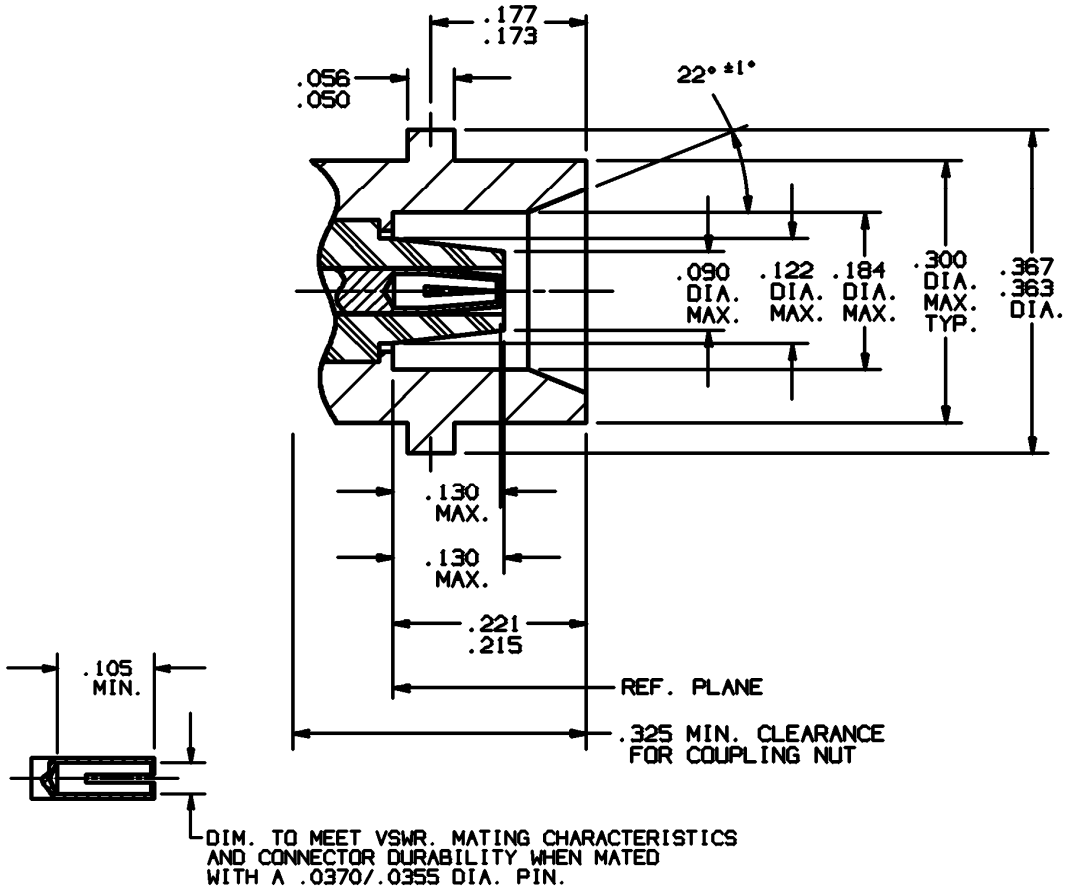


Inches	mm	Inches	mm
.010	0.25	.060	1.52
.015	0.38	.090	2.29
.020	0.51	.122	3.10
.0355	0.90	.130	3.30
.0370	0.94	.301	7.64

NOTES:

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

FIGURE 2. Interface dimensions, series ZMA pin.



Inches	mm	Inches	mm
.0355	0.90	.173	4.39
.0370	0.94	.177	4.49
.050	1.27	.184	4.67
.056	1.42	.300	7.62
.090	2.29	.325	8.25
.105	2.67	.363	9.22
.122	3.10	.367	9.32
.130	3.30		

NOTES:

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

FIGURE 2. Interface dimensions, series ZMA socket contact.

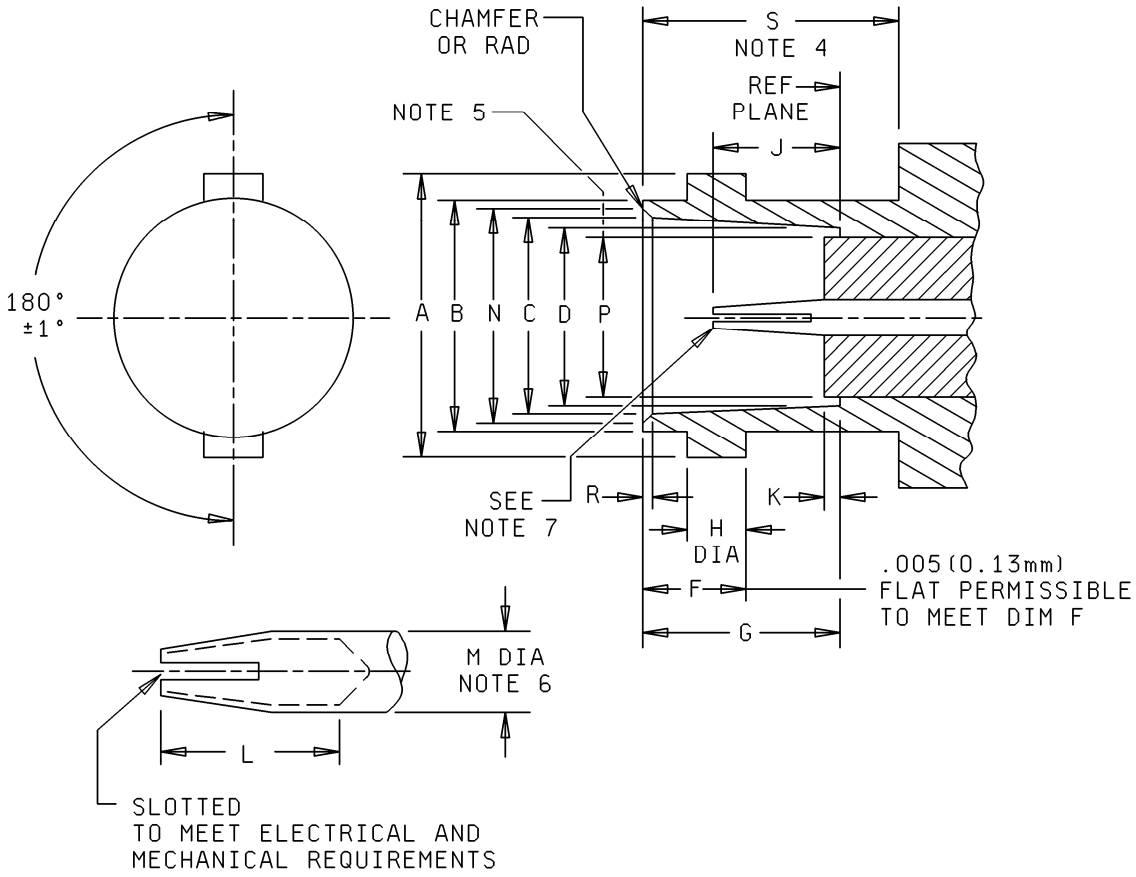


FIGURE 84. Interface, series BNC, socket contact, 75 ohm.

Dim Ltr	Inches (mm)	
	Minimum	Maximum
A	.432 (10.97)	.435 (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 parenthesis.
2. Metric equivalents are given for general information only.
3. This interface shall meet the gauge requirements as specified.
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”.
7. ID to meet contact resistance, mating characteristics and connector durability when mated with a .052/.054 inch (1.32/1.37 mm) diameter pin.

FIGURE 84. Interface, series BNC, socket contact, 75 ohm. - Continued

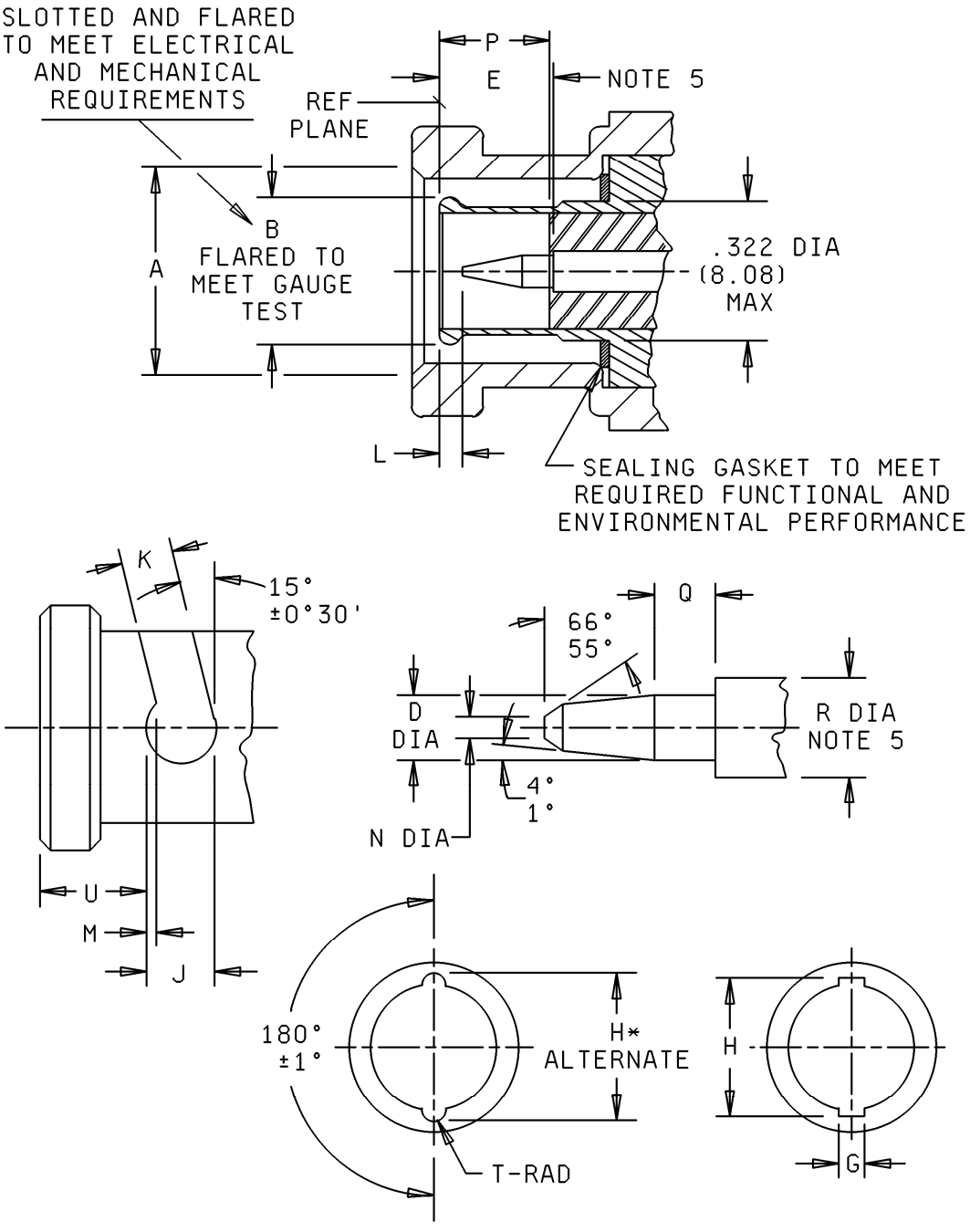
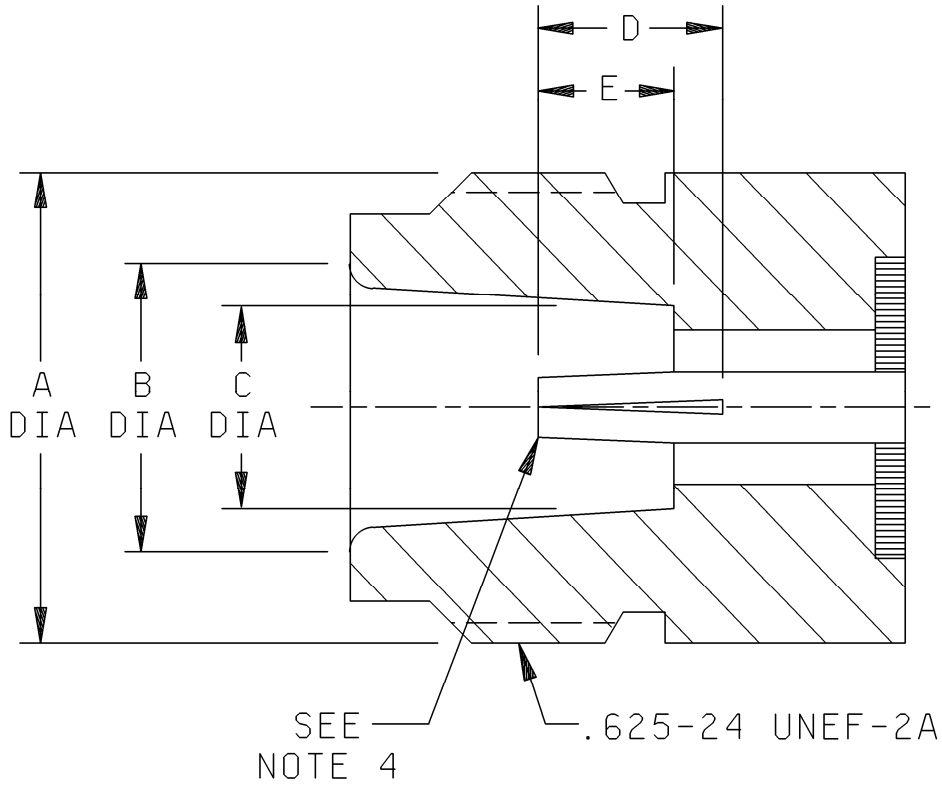


FIGURE 85. Interface, series BNC, pin contact, 75 ohm.

Dim 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*	.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)
R	.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.
5. This dimension applies only if R dimension is not the same as D dimension.

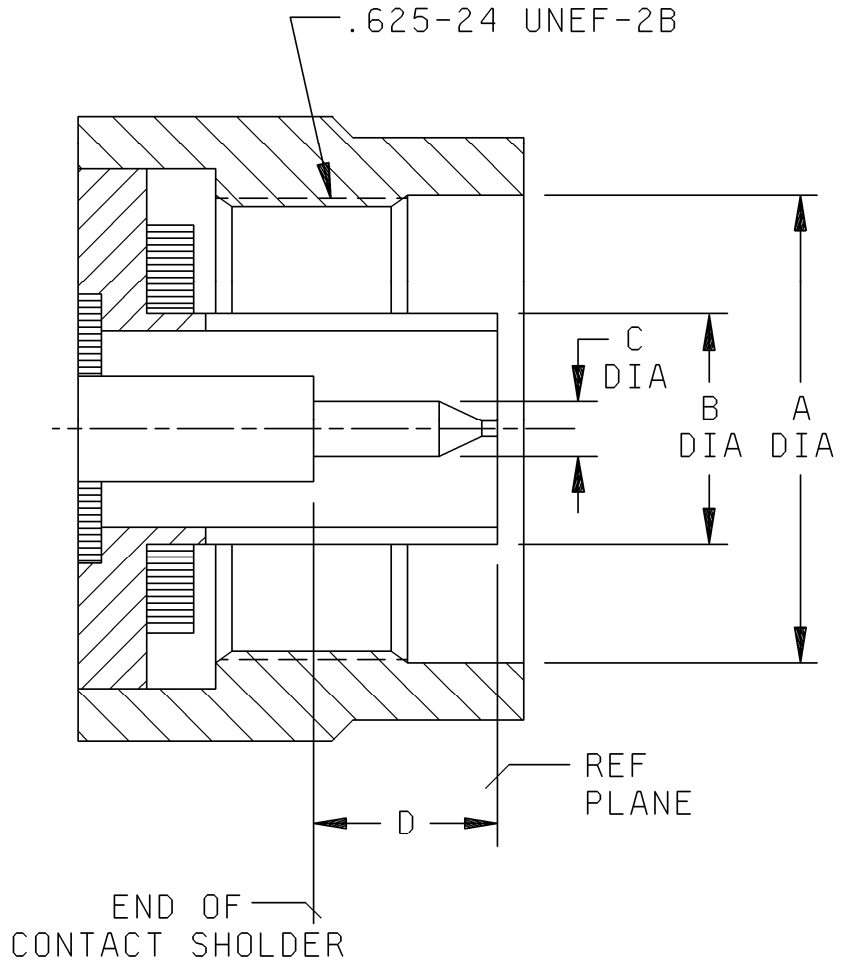
FIGURE 85. Interface, series BNC, pin contact, 75 ohm – Continued.



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	.204 (5.18)	.207 (5.26)

NOTES:
1. Dimensions are in inches. Metric equivalents are in parenthesis.
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)

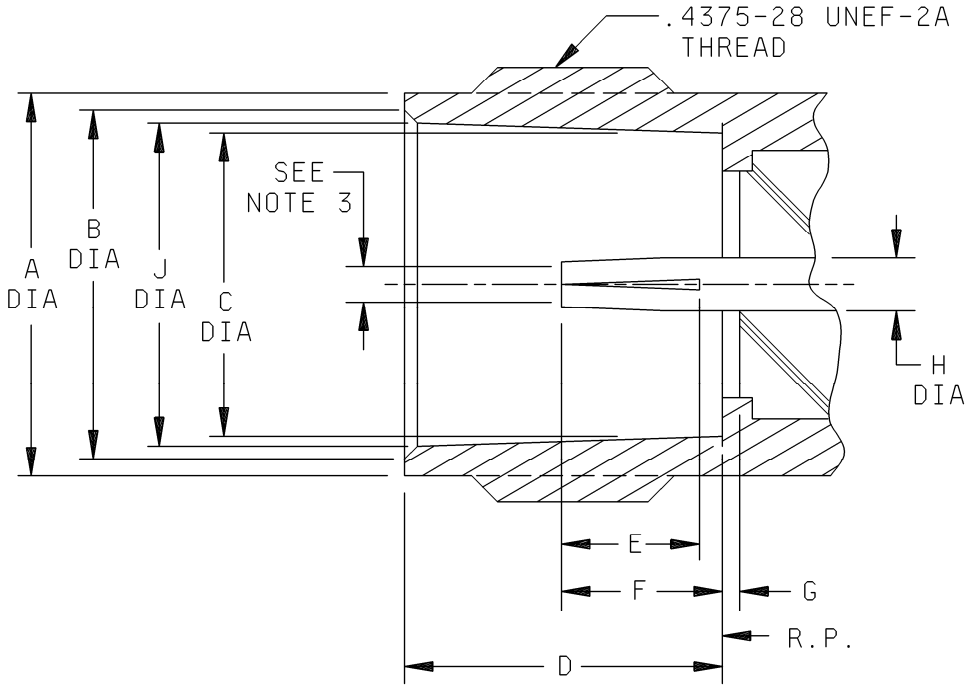
FIGURE 86. Interface, series N, socket contact, 75 ohm.



Letter	Inches (mm)	
	Minimum	Maximum
A	.610 (15.49)	--------
B	--------	.330 (8.38)
C	.036 (0.91)	.037 (0.94)
D	.208 (5.28)	.213 (5.41)

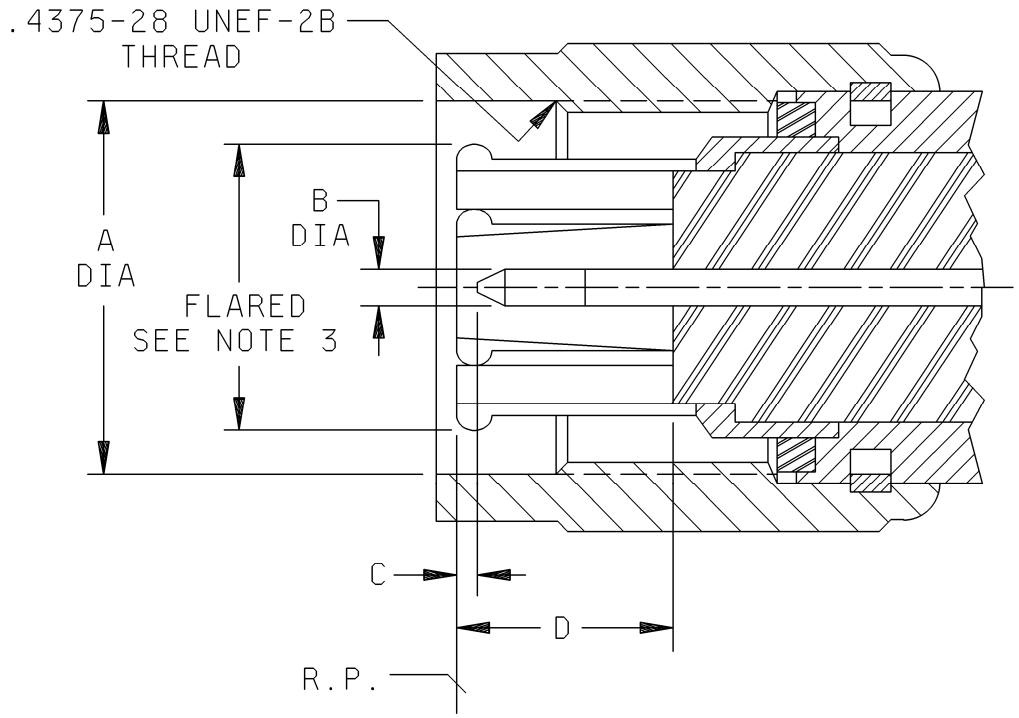
NOTES:
1. Dimensions are in inches. Metric equivalents are in parenthesis.
2. Metric equivalents are given for information only.
3. Utilizes standard 50Ω body with 75Ω contact/air dielectric configuration.

FIGURE 87. Interface, series N, pin contact, 75 ohm.



Letter	Inches (mm)	
	Minimum	Maximum
A	.378 (9.60)	.382 (9.70)
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	.185 (4.70)	.206 (5.23)
G	.000 (0.00)	--------
H	.081 (2.06)	.087 (2.21)
J	.327 (8.31)	.333 (8.46)

FIGURE 88. Interface, series TNC, socket contact, 75 ohm.



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)	.228 (5.79)

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

FIGURE 89. Interface, series TNC, pin contact, 75 ohm.

Concluding Material

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

Preparing activities:
DLA – CC

(Project 5935-2008-176)

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

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