NOTE: The cover page of this standard has been changed for administrative reasons. There are no changes to this document.

NOTICE OF CHANGE

MIL-STD-348A
20 April 1988
SUPERSEDING
MIL-STD-348
25 MAR 1986

DEPARTMENT OF DEFENSE

INTERFACE STANDARD

RADIO FREQUENCY CONNECTOR INTERFACES FOR

MIL-C-3643, MIL-C-3650, MIL-C-3655, MIL-C-25516, MIL-C-26637, MIL-C-39012, MIL-C-49142, MIL-A-55339, MIL-C-83517

AMSC N/A

FSC 5935

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DEPARTMENT OF DEFENSE
WASHINGTON, DC 20402

Radio Frequency Connector Interfaces

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

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: US Army Communications-Electronics Command, ATTN: AMSEL-ED-TD, Fort Monmouth, NJ 07703-5016, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

CONTENTS

FIGURES

CONTENTS - Continued

1. SCOPE

1.1 Purpose. The purpose of this standard is to standardize 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-C-3643, MIL-C-3650, MIL-C-3655, MIL-C-25516, MIL-C-26637, MIL-C-39012, MIL-C-49142, MIL-A-55339, and MIL-C-83517.

2. REFERENCED DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standard. The following specifications and standard form a part of this standard to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

SPECIFICATIONS

MILITARY

MIL-C-3643	-	Connectors, Coaxial, Radio Frequency, Series HN, and Associated Fittings, General Specification For.
MIL-C-3650	-	Connectors, Coaxial, Radio Frequency, Series LC.
MIL-C-3655	-	Connectors, Plug and Receptacle, Electrical (Coaxial, Series Twin), and Associated Fittings, General Specification For.
MIL-C-25516	-	Connectors, Electrical, Miniature, Coaxial, Environment Resistant Type, General Specification For.
MIL-C-26637	-	Connectors, Coaxial, Radio Frequency Series LT, General Specification For.
MIL-C-39012	-	Connectors, Coaxial, Radio Frequency; General Specification For.
MIL-C-49142	-	Connector, Triaxial, Radio Frequency, General Specification For.
MIL-A-55339	-	Adapters, Connector, Coaxial, Radio Frequency, (Between Series and Within Series), General Specification For.
MIL-C-83517	-	Connector, Coaxial, Radio Frequency For Coaxial, Strip or Microstrip Transmission Line.

STANDARD

MILITARY

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

(Copies of the specifications and standard, required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Order of precedence. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.

3. DEFINITIONS

3.1 Terms. The terms used in this standard are generally accepted by the electrical and electronics industries and commonly used in electrical connector engineering practice.

4. GENERAL REQUIREMENTS Not applicable

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 military standard.

a. Dimensions are in inches.

b. Metric equivalents are given for general 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.

6. NOTES

6.1 Subject term (key word) listing.

Connector interfaces
Connector, radio frequency
Interfaces, radio frequency connector

6.2 Changes from previous issue. Asterisks are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

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

Review activities:
Army - AT, AV, MI
Navy - AS, SH
Air Force - 10, 11, 17, 99
DLA - ES

User activities:
Navy - CG, MC
Air Force - 11

Preparing activity:
Army - CR

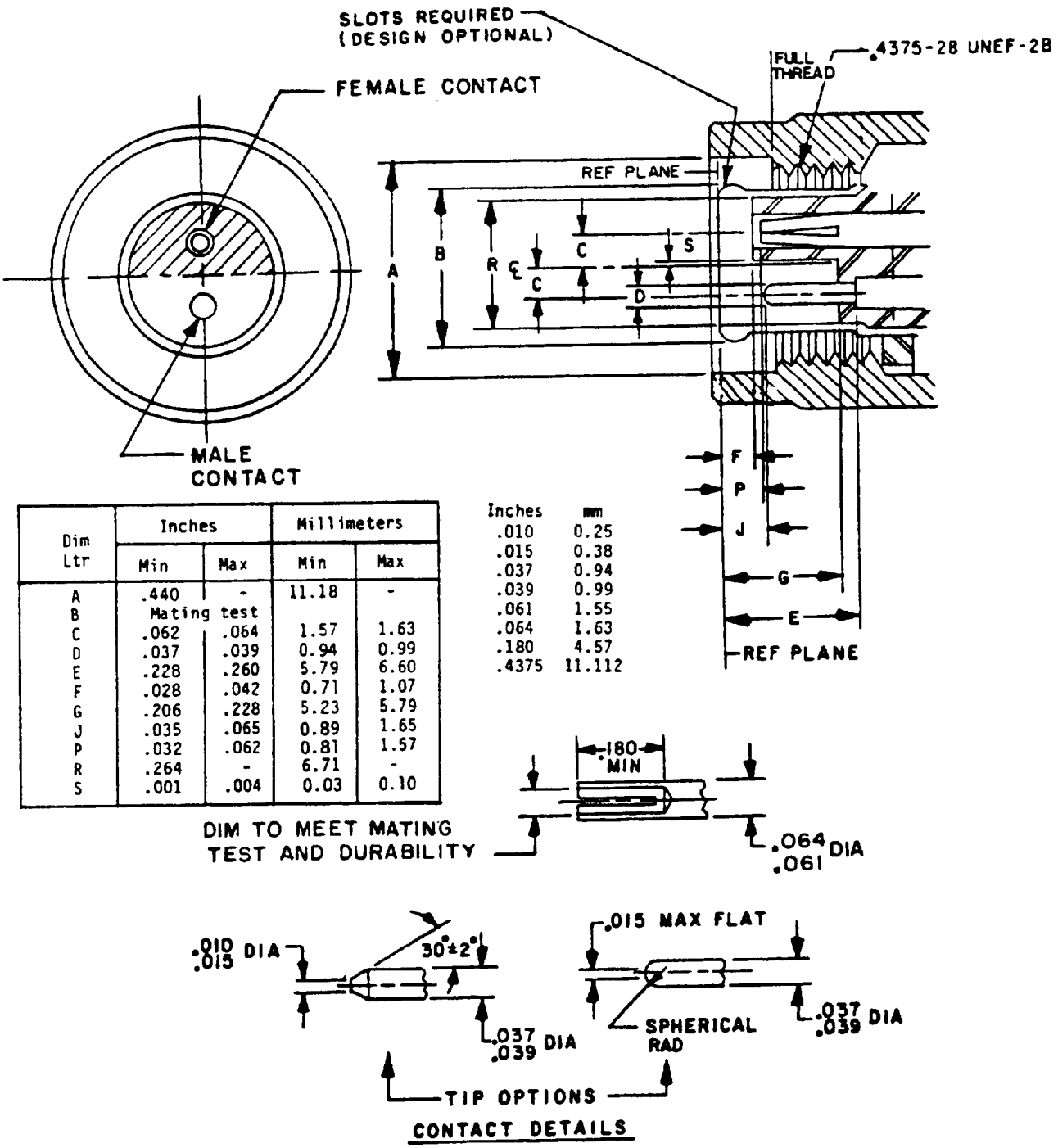
Agent:
DLA - ES

(Project 5935-3555)

SECTION 100

Interface Dimensions for MIL-C-3655

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

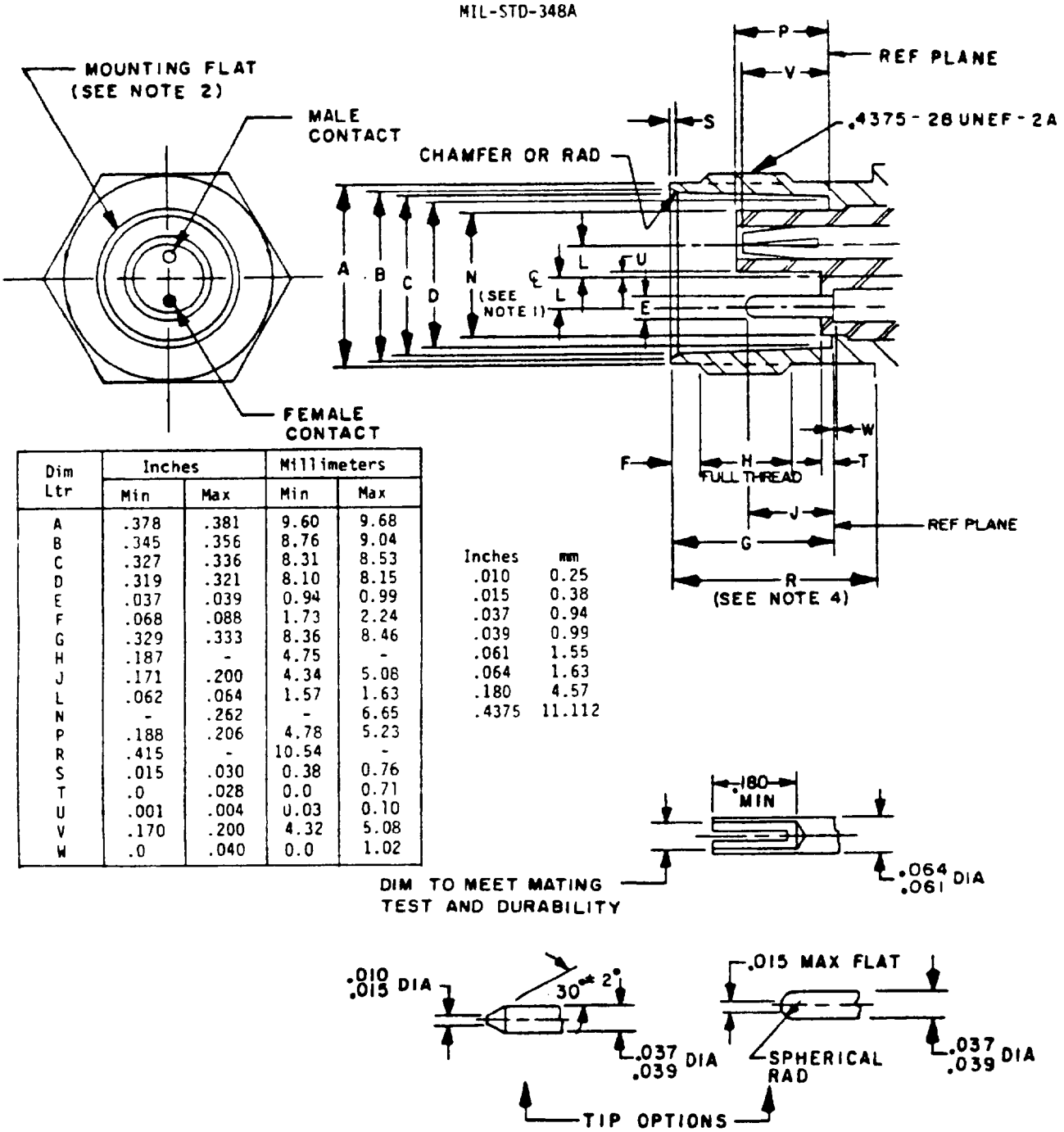


Dim Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.440	-	11.18	-
B	Mating test			
C	.062	.064	1.57	1.63
D	.037	.039	0.94	0.99
E	.228	.260	5.79	6.60
F	.028	.042	0.71	1.07
G	.206	.228	5.23	5.79
J	.035	.065	0.89	1.65
P	.032	.062	0.81	1.57
R	.264	-	6.71	-
S	.001	.004	0.03	0.10

Inches	mm
.010	0.25
.015	0.38
.037	0.94
.039	0.99
.061	1.55
.064	1.63
.180	4.57
.4375	11.112

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-C-3655/14.

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

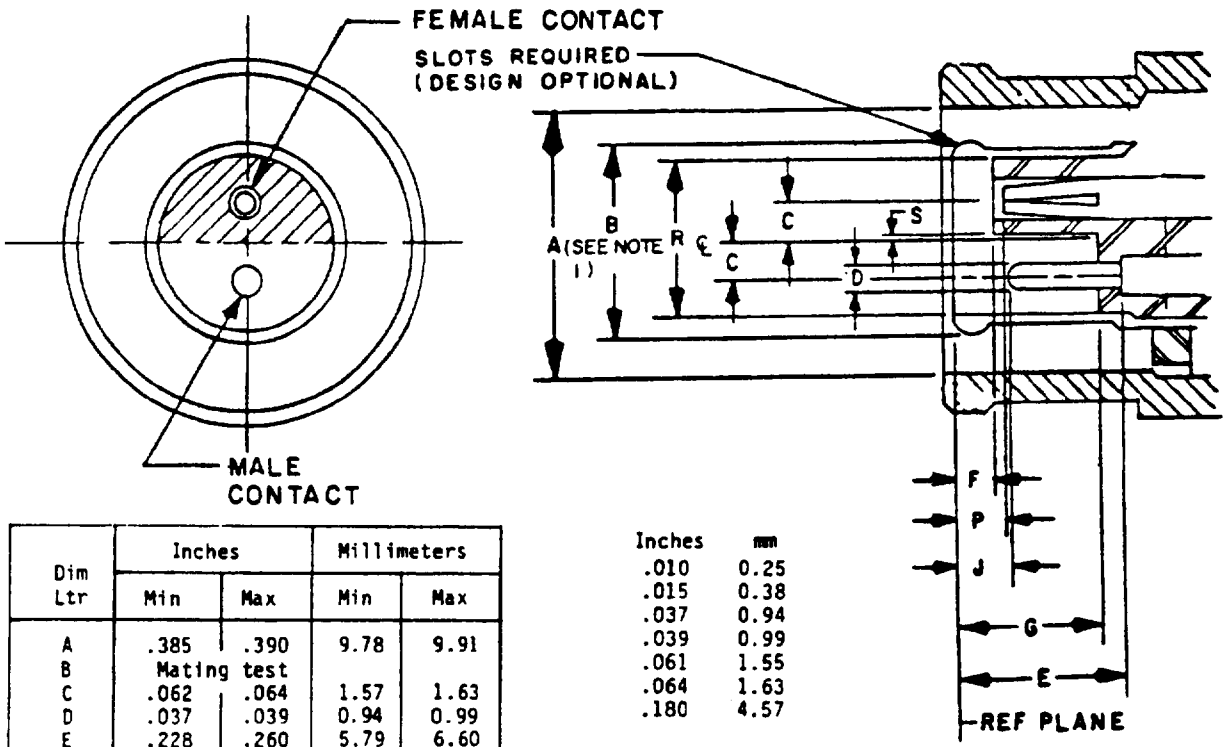


Dim Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.378	.381	9.60	9.68
B	.345	.356	8.76	9.04
C	.327	.336	8.31	8.53
D	.319	.321	8.10	8.15
E	.037	.039	0.94	0.99
F	.068	.088	1.73	2.24
G	.329	.333	8.36	8.46
H	.187	-	4.75	-
J	.171	.200	4.34	5.08
L	.062	.064	1.57	1.63
N	-	.262	-	6.65
P	.188	.206	4.78	5.23
R	.415	-	10.54	-
S	.015	.030	0.38	0.76
T	.0	.028	0.0	0.71
U	.001	.004	0.03	0.10
V	.170	.200	4.32	5.08
W	.0	.040	0.0	1.02

Inches	mm
.010	0.25
.015	0.38
.037	0.94
.039	0.99
.061	1.55
.064	1.63
.180	4.57
.4375	11.112

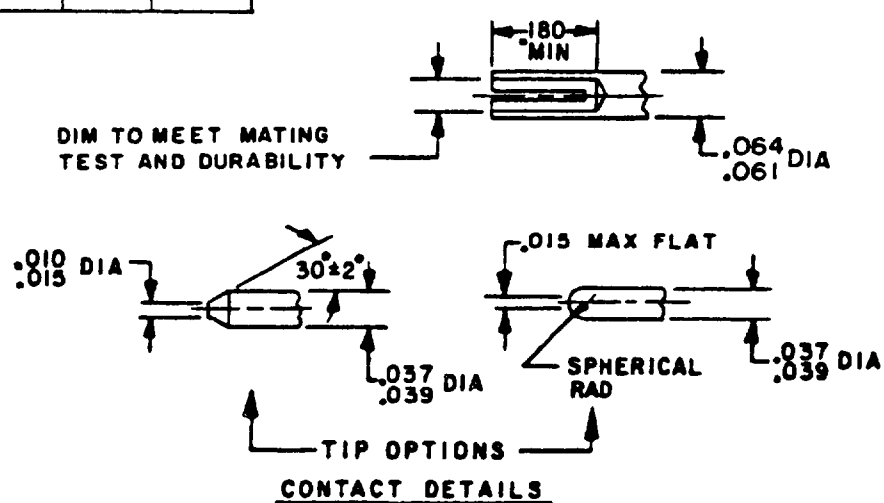
NOTES:
1. N dimension applies to portion of dielectric protruding beyond reference plane.
2. Contacts, insulator, and mounting flat shall be oriented within ±3° of orientation shown.
3. This interface shall meet the guage requirements as specified in MIL-C-3655/13.
4. Clearance for mating connector coupling nut.

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



Dim Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.385	.390	9.78	9.91
B	Mating test			
C	.062	.064	1.57	1.63
D	.037	.039	0.94	0.99
E	.228	.260	5.79	6.60
F	.028	.042	0.71	1.07
G	.206	.228	5.23	5.79
J	.035	.065	0.89	1.65
P	.032	.062	0.81	1.57
R	.264	-	6.71	-
S	.001	.004	0.03	0.10

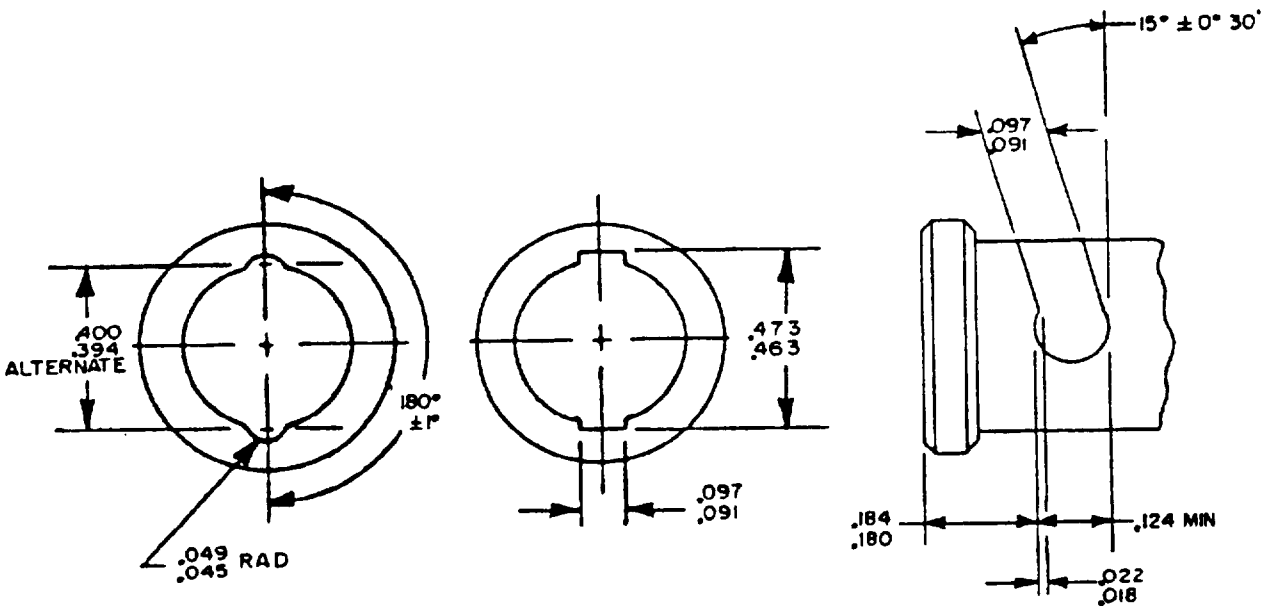
Inches	mm
.010	0.25
.015	0.38
.037	0.94
.039	0.99
.061	1.55
.064	1.63
.180	4.57



CONTACT DETAILS

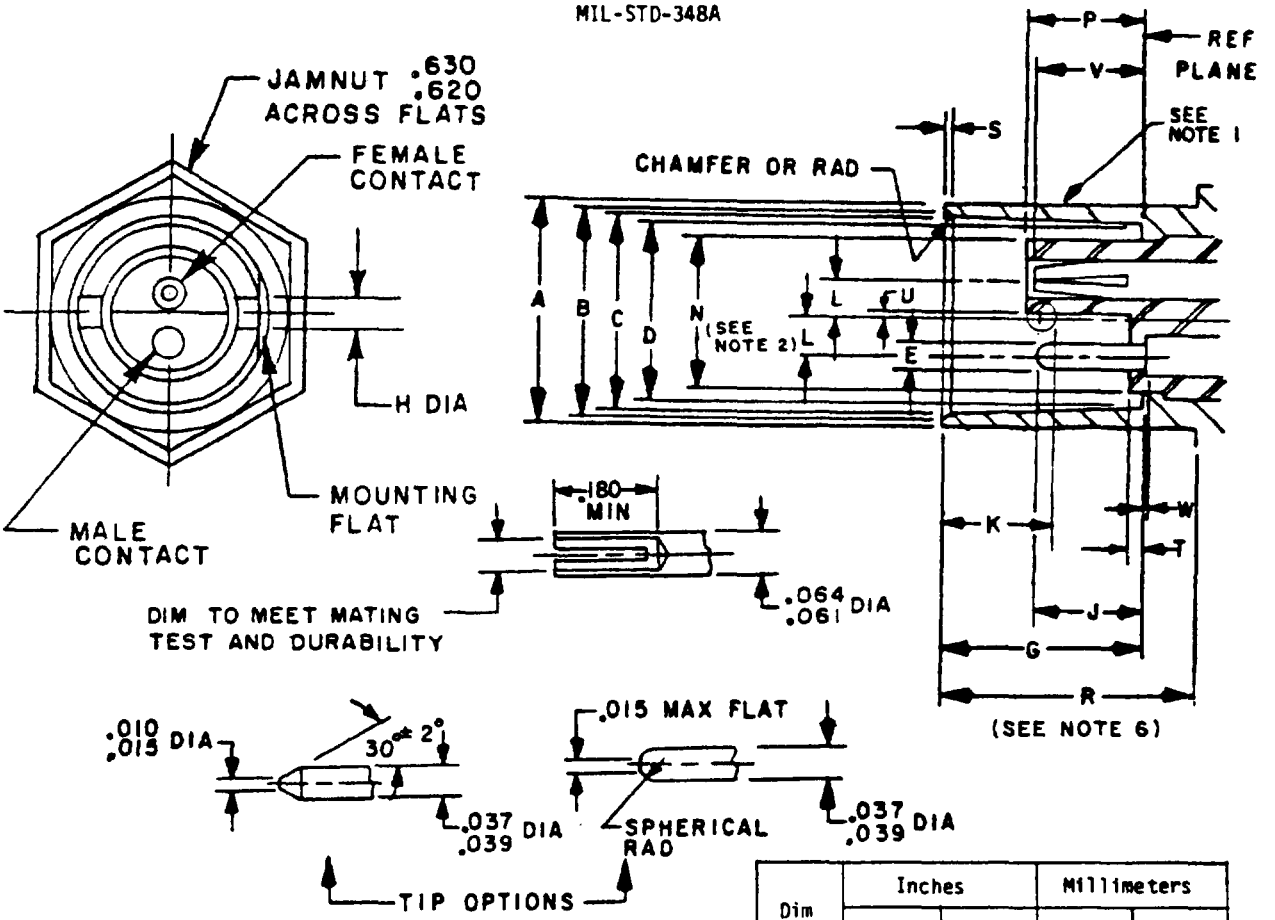
NOTES:
1. Flare to meet gauge test.
2. This interface shall meet the gauge requirements as specified in MIL-C-3655/15.

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



Inches	mm	Inches	mm
.018	0.46	.180	4.57
.022	0.56	.184	4.67
.045	1.14	.394	10.01
.049	1.24	.400	10.16
.091	2.31	.463	11.76
.097	2.46	.473	12.01
.124	3.15		

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



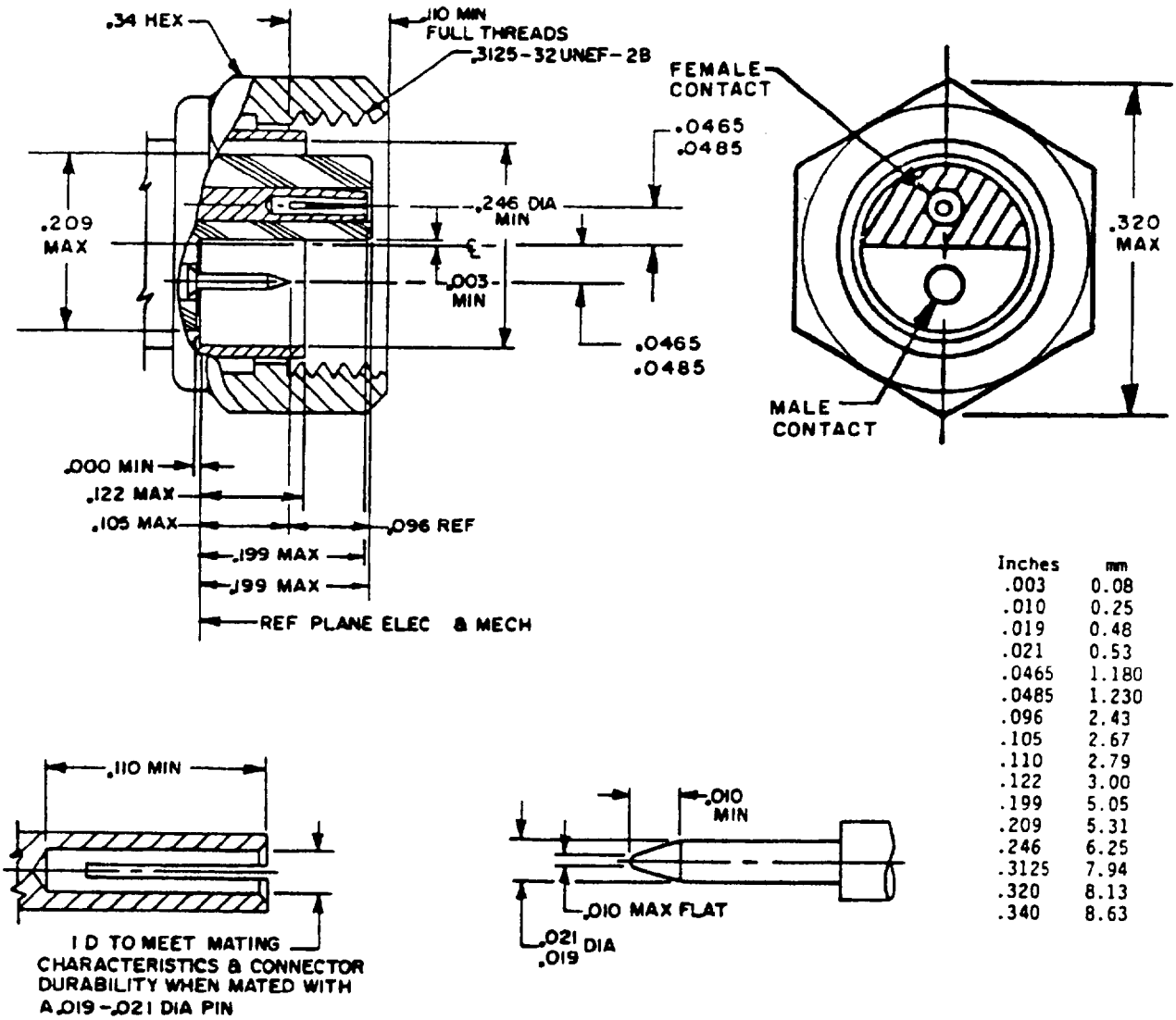
CONTACT DETAILS

Inches	mm
.005	0.13
.010	0.25
.015	0.38
.037	0.94
.039	0.99
.061	1.55
.064	1.63
.100	2.54
.180	4.57
.620	15.75
.630	16.00

Dim Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.378	.381	9.60	9.68
B	.345	.356	8.76	9.04
C	.327	.336	8.31	8.53
D	.319	.321	8.10	8.15
E	.037	.039	0.94	0.99
F	.432	.436	10.97	10.07
G	.329	.333	8.36	8.46
H	.075	.081	1.90	2.06
J	.171	.200	4.34	5.08
K	.204	.208	5.18	7.11
L	.062	.064	1.57	1.63
N	-	.262	-	6.65
P	.188	.206	4.78	5.23
R	.415	-	10.54	-
S	.015	.030	0.38	0.76
T	0	.028	0.0	0.71
U	.001	.004	0.03	0.10
V	.170	.200	4.32	5.08
W	0	.040	0.0	1.02

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 ±3° of orientation shown.
4. Contacts, insulator and mounting flat shall be oriented within ±3° of orientation shown.
5. This interface shall meet the guage requirements as specified in MIL-C-3655/16.
6. Clearance for mating connector coupling nut.

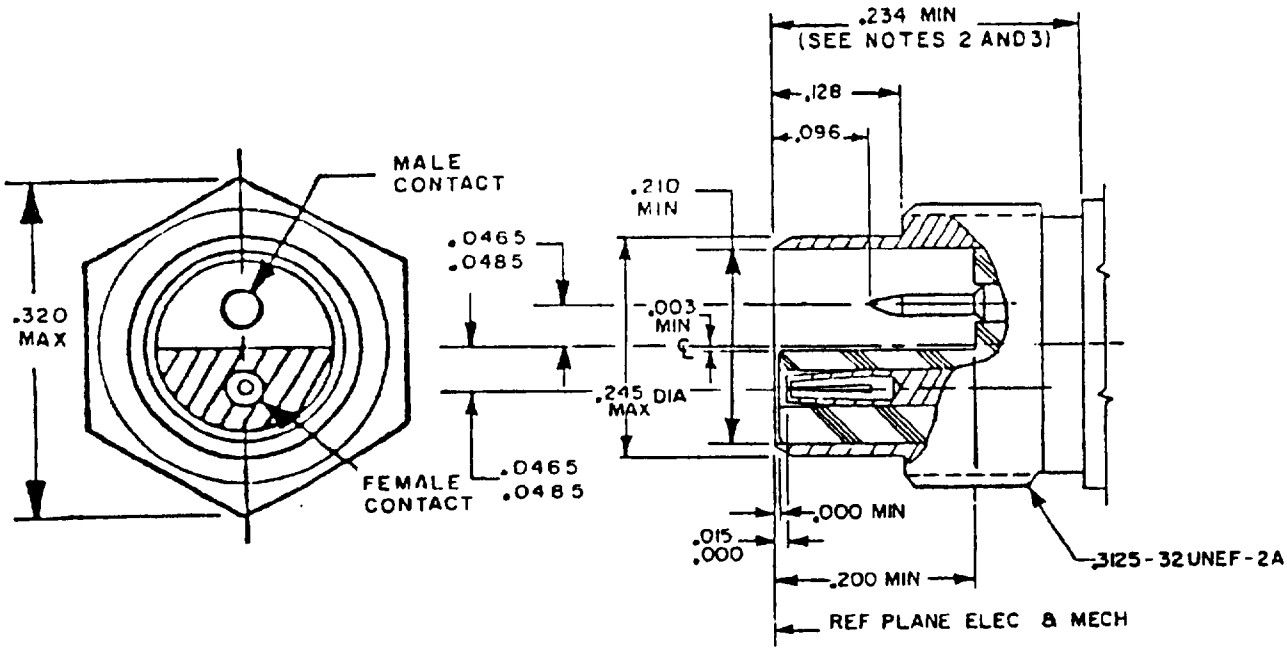
FIGURE 102-3. Interface, series TWBNC, without coupling nut.

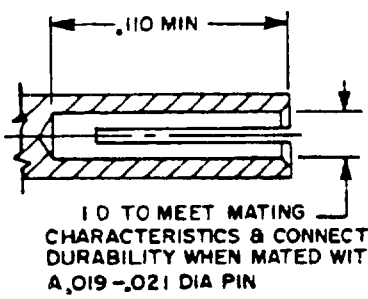


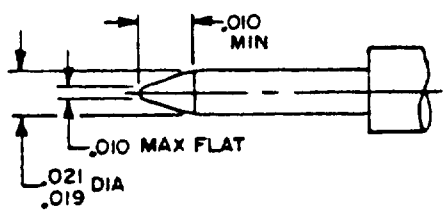
Inches	mm
.003	0.08
.010	0.25
.019	0.48
.021	0.53
.0465	1.180
.0485	1.230
.096	2.43
.105	2.67
.110	2.79
.122	3.00
.199	5.05
.209	5.31
.246	6.25
.3125	7.94
.320	8.13
.340	8.63

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-3655/18.
2. Thread gauge must go .234 (5.94 mm) minimum from reference plane.

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



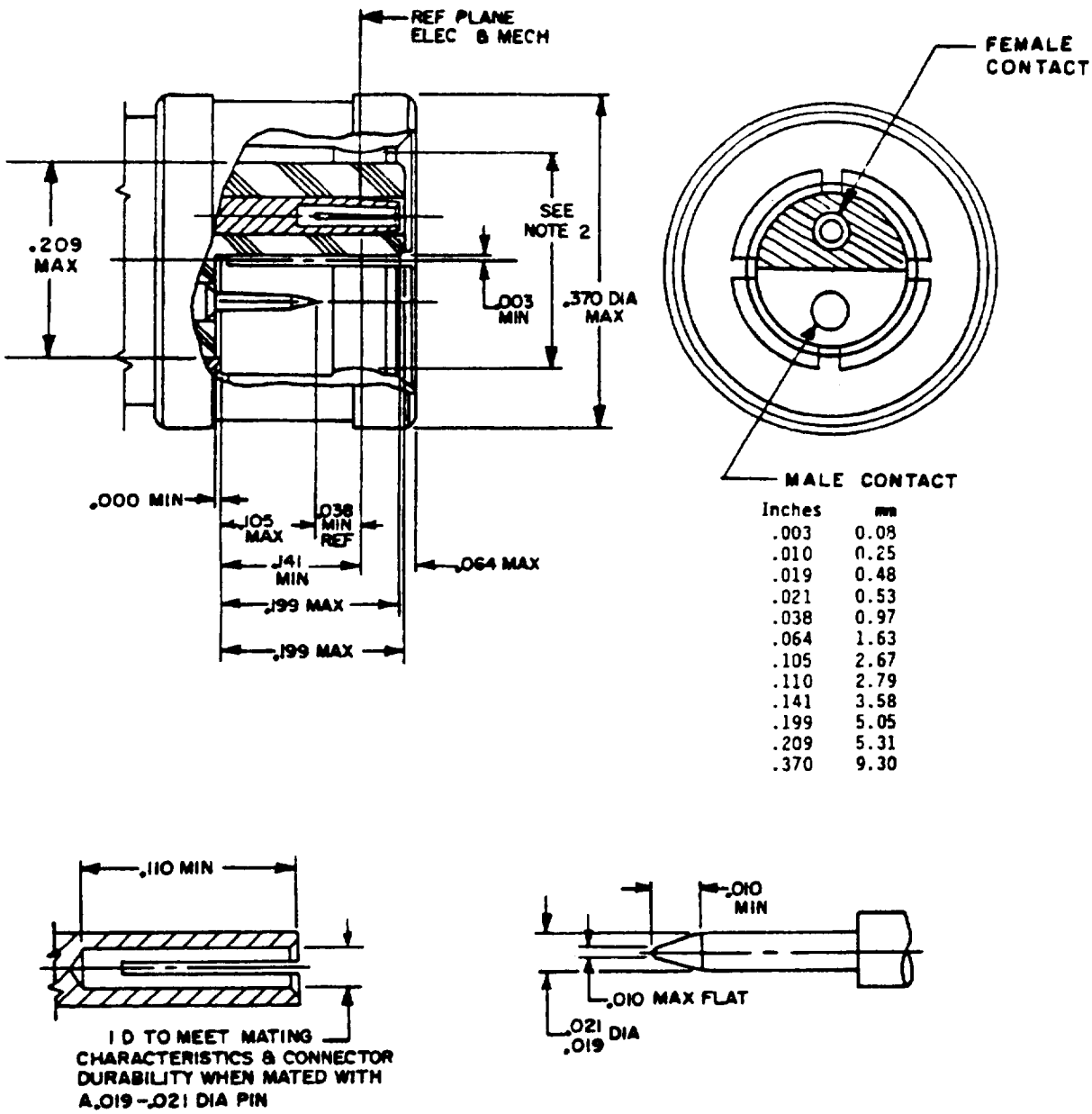




Inches	mm
.003	0.08
.010	0.25
.015	0.38
.019	0.48
.021	0.53
.0465	1.18
.0485	1.23
.096	2.44
.110	2.79
.128	3.25
.200	5.08
.210	5.33
.234	5.94
.245	6.22
.3125	7.94
.320	8.13

NOTES:
1. This interface shall meet mating requirements as specified in MIL-C-3655/19.
2. Thread guage must go .234 (5.94 mm) minimum from reference plane.
3. Clearance for mating connector coupling nut.

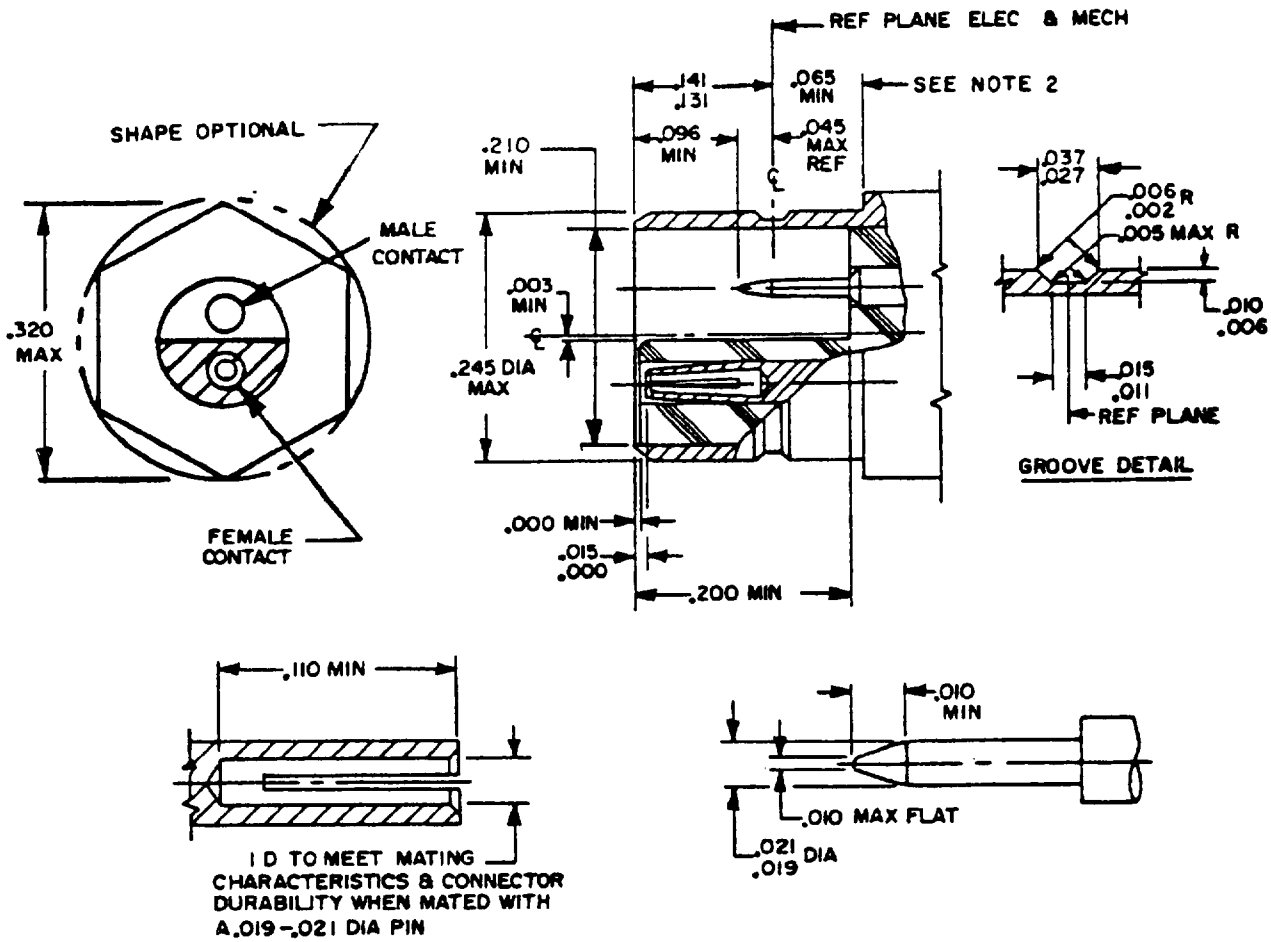
FIGURE 103-2. Interface, series TWSMC, without coupling nut.



Inches	mm
.003	0.08
.010	0.25
.019	0.48
.021	0.53
.038	0.97
.064	1.63
.105	2.67
.110	2.79
.141	3.58
.199	5.05
.209	5.31
.370	9.30

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-3655/20.
2. This interface shall meet the force to engage/disengage as specified in MIL-C-39012/20.

FIGURE 104-1. Interface, series TWSMC, with coupling mechanism.



Inches	mm	Inches	mm
.002	0.05	.037	0.94
.003	0.08	.045	1.14
.005	0.13	.065	1.65
.006	0.15	.110	2.79
.010	0.25	.131	3.33
.011	0.28	.141	3.58
.015	0.38	.200	5.08
.019	0.48	.210	5.33
.021	0.53	.245	6.22
.027	0.69	.320	8.13

NOTES:
1. This interface shall meet the mating requirements as specified in MIL-C-3655/21.
2. Clearance for mating connector coupling nut.

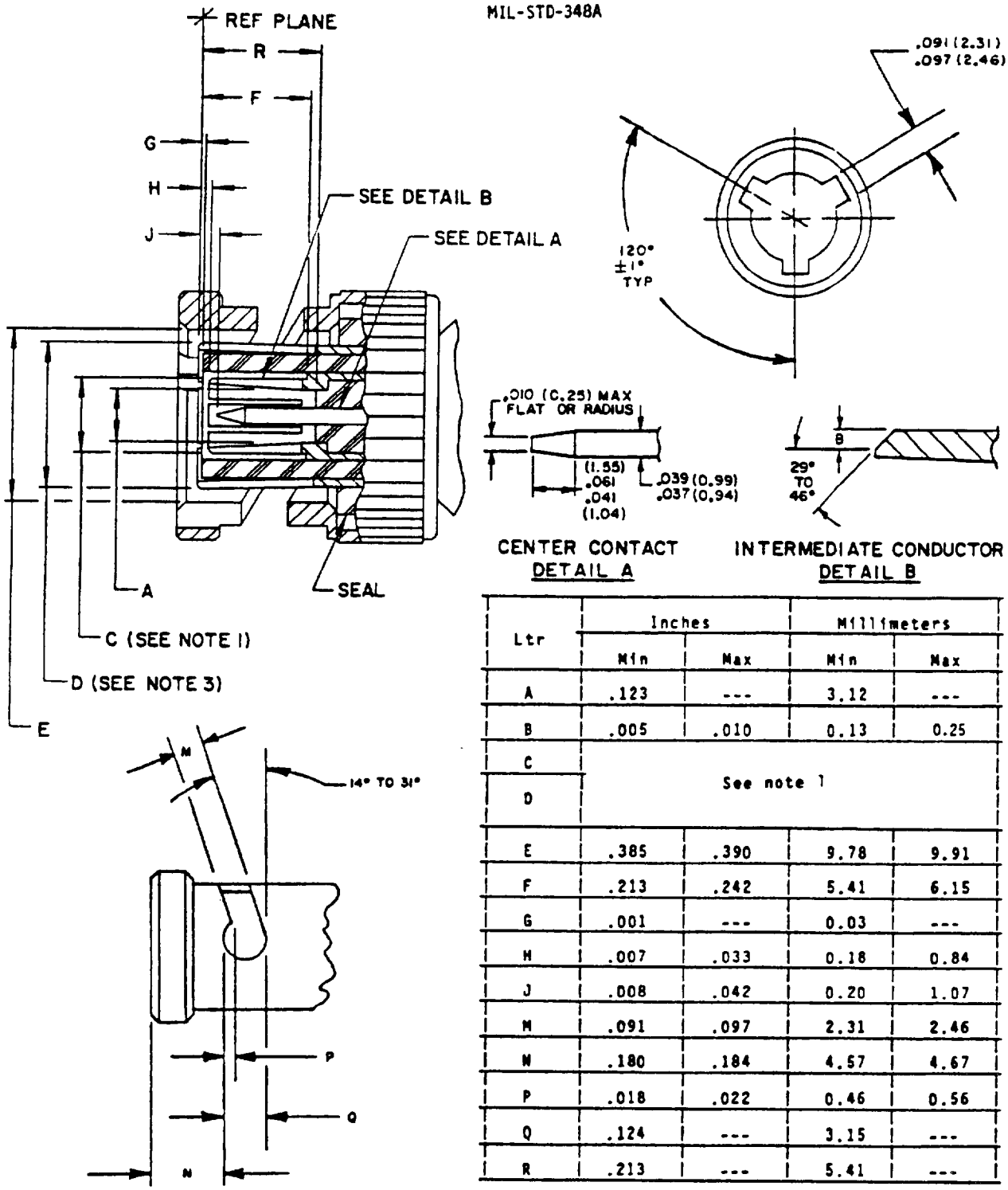
FIGURE 104-2. Interface, series TWSMB, without coupling mechanism.

SECTION 200

Interface Dimensions for MIL-C-49142

Section 201 Series TRB

Section 202 Series TRT



CENTER CONTACT
DETAIL A

INTERMEDIATE CONDUCTOR
DETAIL B

Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.123	---	3.12	---
B	.005	.010	0.13	0.25
C	See note 1			
D				
E	.385	.390	9.78	9.91
F	.213	.242	5.41	6.15
G	.001	---	0.03	---
H	.007	.033	0.18	0.84
J	.008	.042	0.20	1.07
M	.091	.097	2.31	2.46
N	.180	.184	4.57	4.67
P	.018	.022	0.46	0.56
Q	.124	---	3.15	---
R	.213	---	5.41	---

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-C-49142.

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

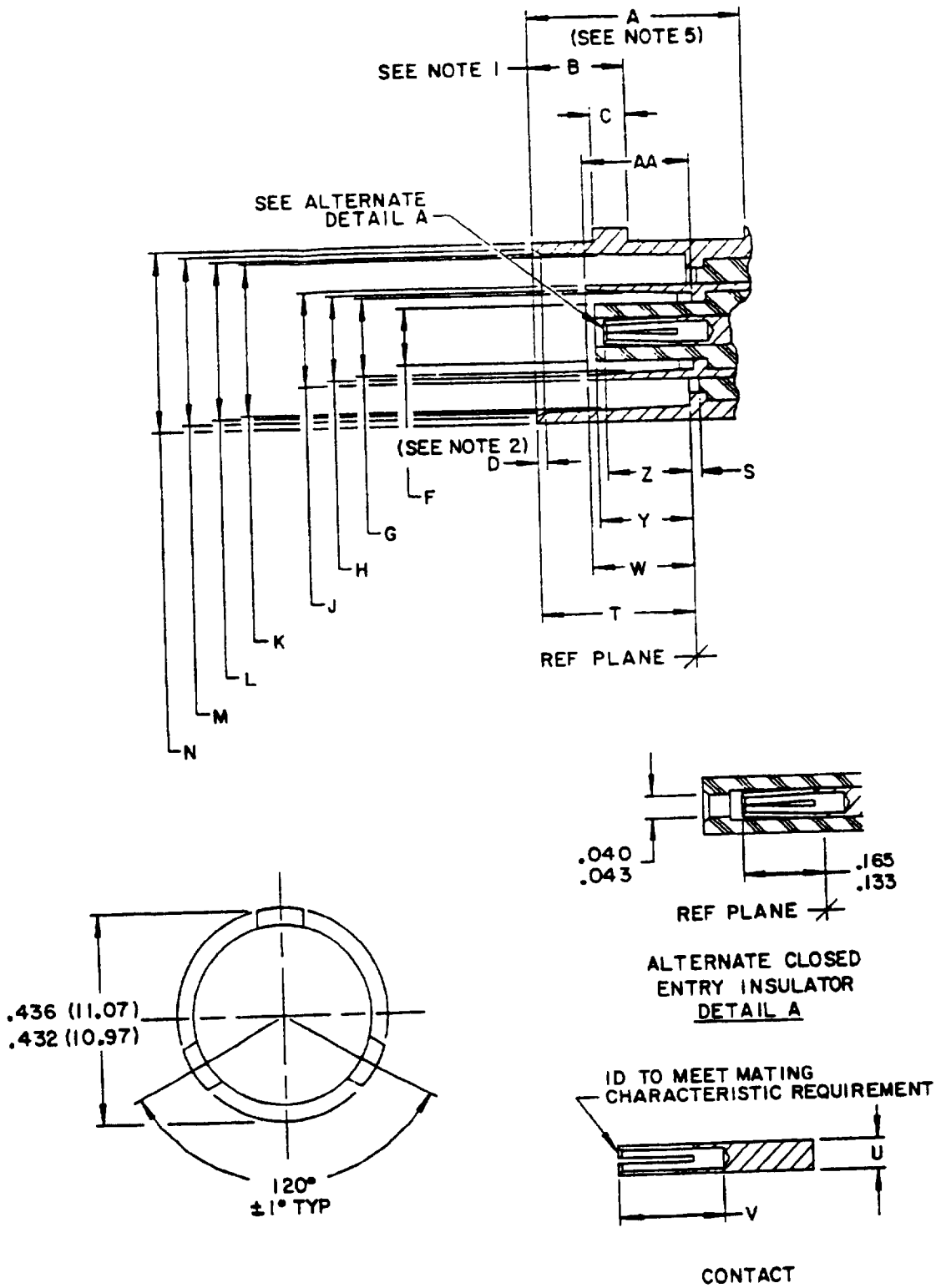
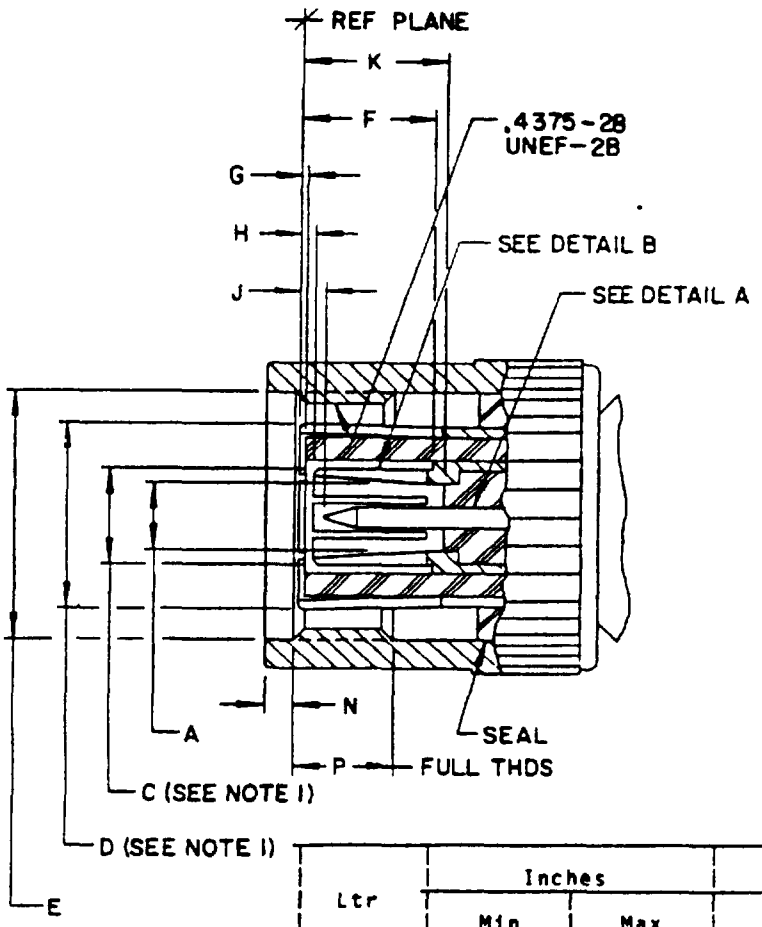


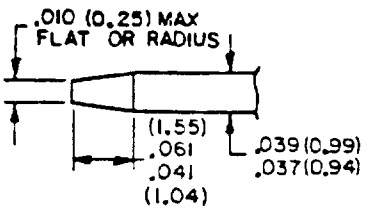
FIGURE 201-2. Interface, series TRB, socket contact.

Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.414	---	10.52	---
AA	.206	.213	5.23	5.41
B	.204	.208	5.18	5.28
C	.075	.081	1.90	2.06
D	.015	.030	0.38	0.76
F	.117	.122	2.97	3.10
G	.169	.171	4.29	4.34
H	.178	.182	4.52	4.62
J	.195	.199	4.95	5.05
K	.319	.321	8.10	8.15
L	.327	.333	8.31	8.46
M	.346	.356	8.79	9.04
N	.378	.382	9.60	9.70
S	.001	---	0.03	---
T	.327	.335	8.31	8.51
U	.062	.064	1.57	1.63
V	.213	---	5.41	---
W	.187	.213	4.75	5.41
Y	---	.213	---	5.41
Z	.165	.203	4.19	5.16

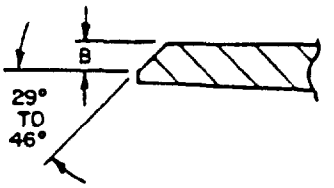
NOTES:
1. .005 (0.13 mm) flat permissible to meet dimension B.
2. Chamfer or radius.
3. Metric equivalents are in parentheses or tabulated.
4. This interface shall meet the gauge requirements of MIL-C-49142.
5. Clearance for mating connector coupling nut.

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





CENTER CONDUCTOR
DETAIL A

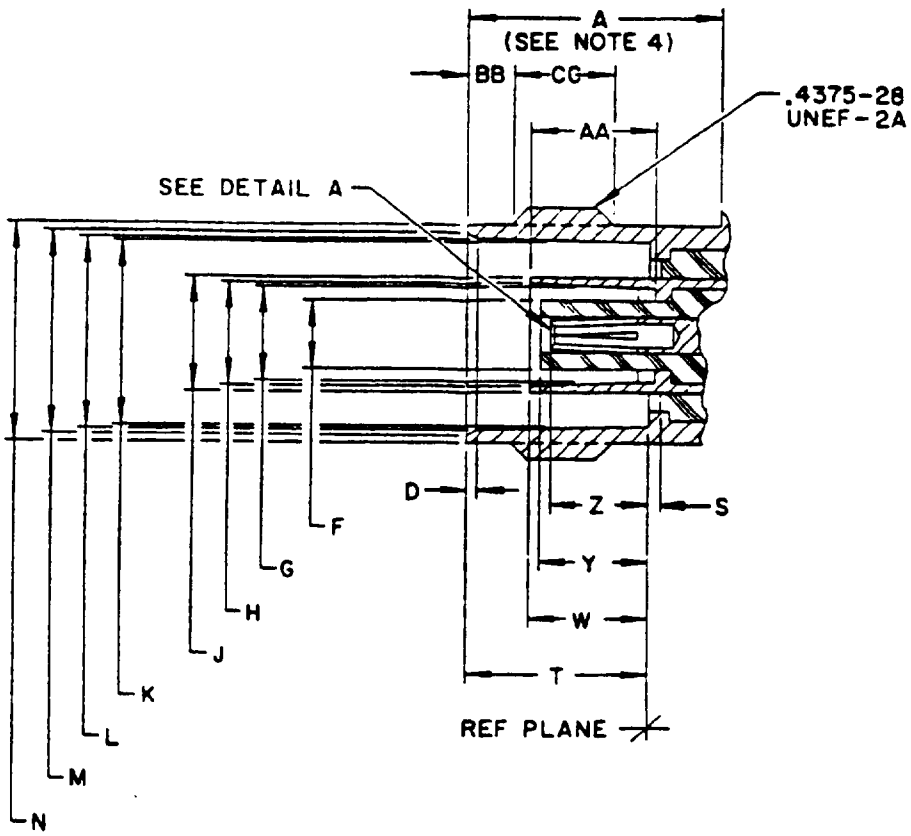


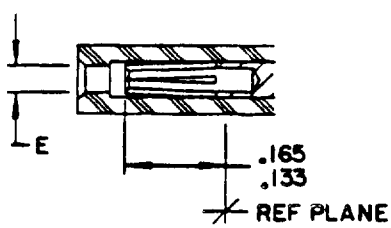
INTERMEDIATE CONDUCTOR
DETAIL B

Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.123	---	3.12	---
B	.005	.010	0.13	0.25
C	.172	.178	4.37	4.52
D	See note 1			
E	.440	---	11.18	
F	.213	.242	5.41	6.15
G	.001	---	0.03	---
H	.007	.033	0.18	0.84
J	.008	.042	0.20	1.07
K	.213	---	5.41	---
N	.063	---	1.60	---
P	.156	---	3.96	---

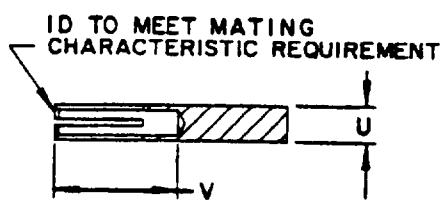
NOTES:
1. Flared to meet mating characteristic test.
2. Metric equivalents are in parentheses or tabulated.
3. This interface shall meet the gauge requirements of MIL-C-49142.

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





ALTERNATE CLOSED
ENTRY INSULATOR
DETAIL A



CONTACT

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

Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.414	---	10.52	---
D	.015	.030	0.38	0.76
E	.040	.043	1.02	1.09
F	.117	.122	2.97	3.10
G	.169	.171	4.29	4.34
H	.178	.182	4.52	4.62
J	.195	.199	4.95	5.05
K	.319	.321	8.10	8.15
L	.327	.333	8.31	8.46
M	.346	.356	8.79	9.04
N	.378	.382	9.60	9.70
S	.001	---	0.03	---
T	.327	.335	8.31	8.51
U	.062	.064	1.57	1.63
V	.213	---	5.41	---
W	.187	.213	4.75	5.41
Y	---	.213	---	5.41
Z	.165	.263	4.19	5.16
AA	.201	.213	5.23	5.41
BB	.068	.088	1.73	2.24
CC	.187	---	4.75	---

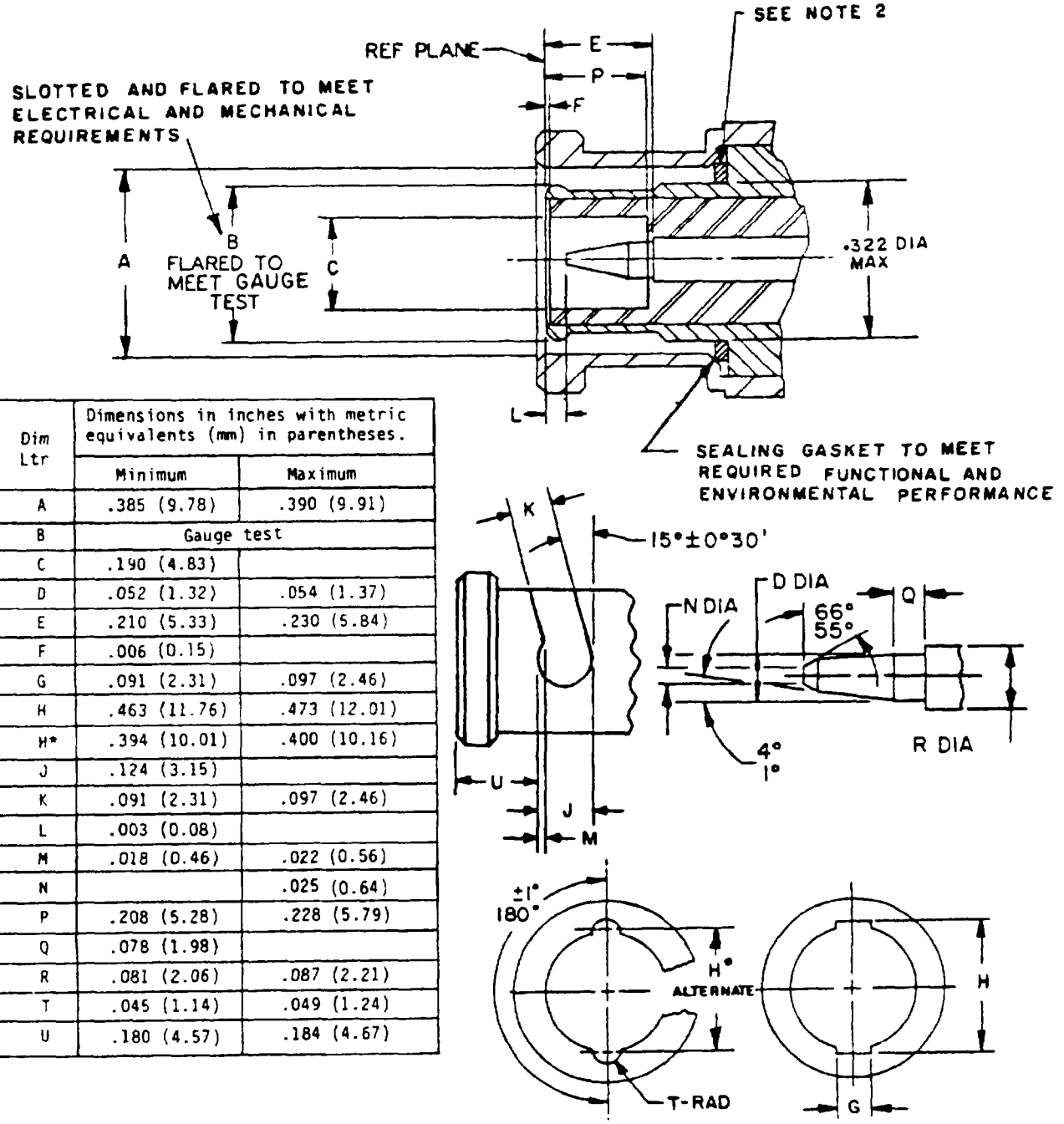
NOTES:
1. Metric equivalents are tabulated.
2. Chamfer or radius.
3. This interface shall meet the gauge requirements of MIL-C-49142.
4. Clearance for mating connector coupling nut.

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

SECTION 300

Interface Dimensions for MIL-C-3643, MIL-C-3650, MIL-C-26637, MIL-C-39012, MIL-A-55339, and MIL-C-83517

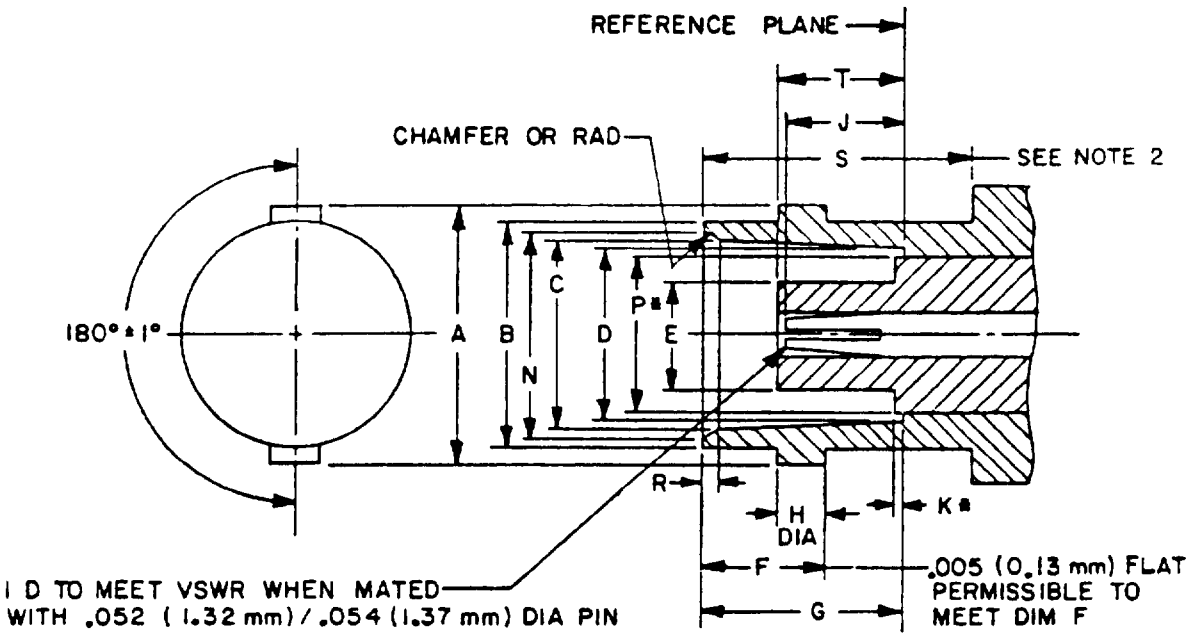
Section 301	Series BNC
Section 302	Series C
Section 303	Series MHV
Section 304	Series N
Section 305	Series QL
Section 306	Series QM
Section 307	Series QNC
Section 308	Series QSC
Section 309	Series SC
Section 310	Series SMA
Section 311	Series SMB
Section 312	Series SMC
Section 313	Series TNC
Section 314	Series SHV
Section 315	Series LC
Section 316	Environment resistant
Section 317	Series HN
Section 318	Series LT
Section 319	Series SSMA

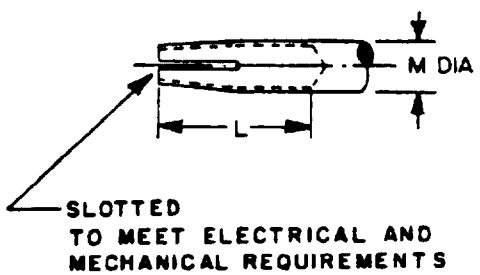


Dim Ltr	Dimensions in inches with metric equivalents (mm) in parentheses.	
	Minimum	Maximum
A	.385 (9.78)	.390 (9.91)
B	Gauge test	
C	.190 (4.83)	
D	.052 (1.32)	.054 (1.37)
E	.210 (5.33)	.230 (5.84)
F	.006 (0.15)	
G	.091 (2.31)	.097 (2.46)
H	.463 (11.76)	.473 (12.01)
H*	.394 (10.01)	.400 (10.16)
J	.124 (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. 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-C-39012/16.

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



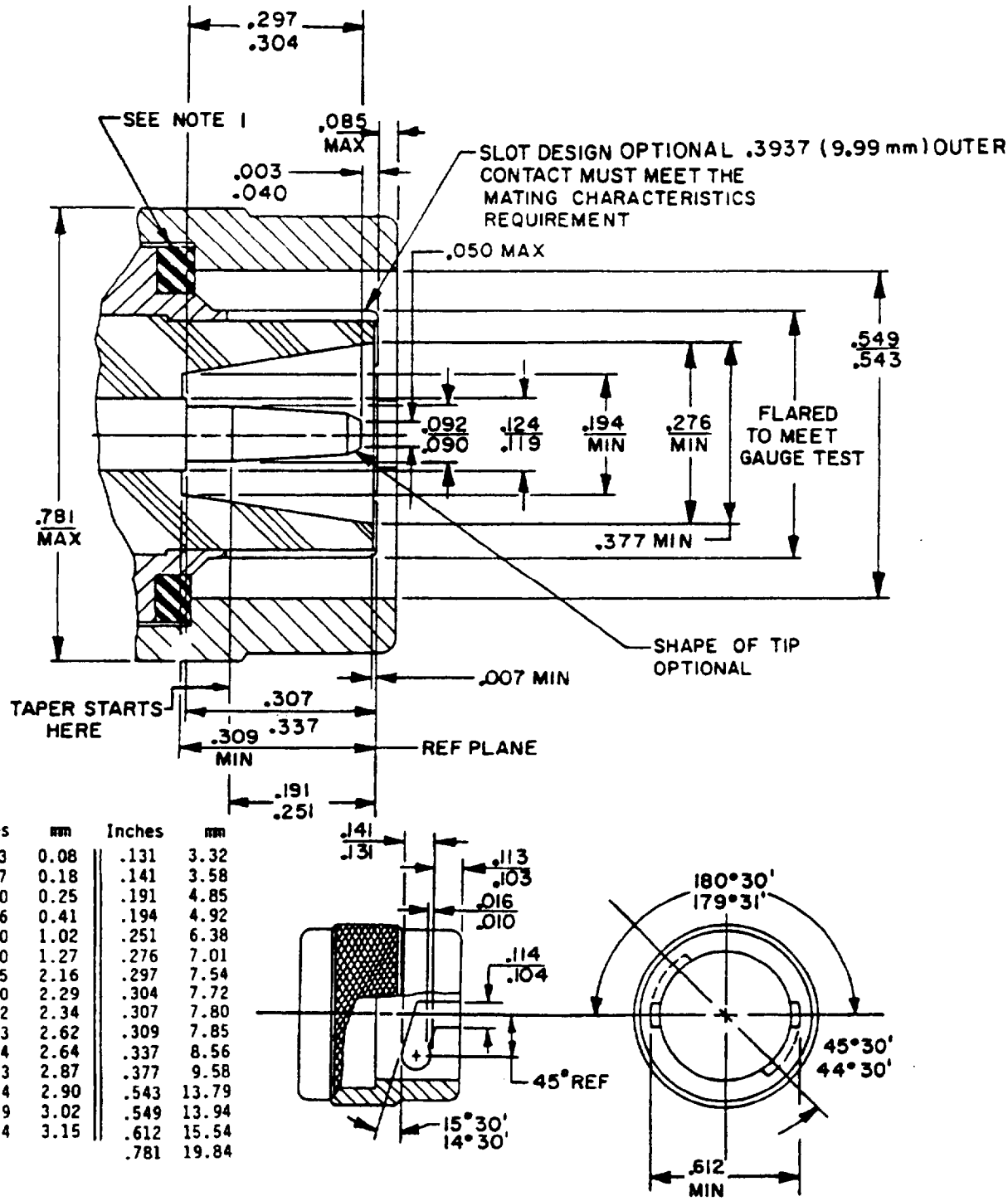


Dim Ltr	Dimensions in inches with metr c equivalents (mm) in parentheses	
	Minimum	Maximum
A	.432 (10.97)	.436 (11.07)
B	.378 (9.60)	.382 (9.70)
C	.327 (8.31)	.333 (8.46)
D	.319 (8.10)	.321 (8.15)
E		.186 (4.72)
F	.204 (5.18)	.208 (5.28)
G	.327 (8.31)	.335 (8.51)
H	.075 (1.91)	.081 (2.06)
J	.186 (4.72)	.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)

P dimension applies to that portion (if applicable) of dielectric which extends beyond reference plane by dimension K.

NOTES:
1. This interface shall meet the gauge requirements as specified is MIL-C-39012/17.
2. Clearance for mating connector coupling nut.

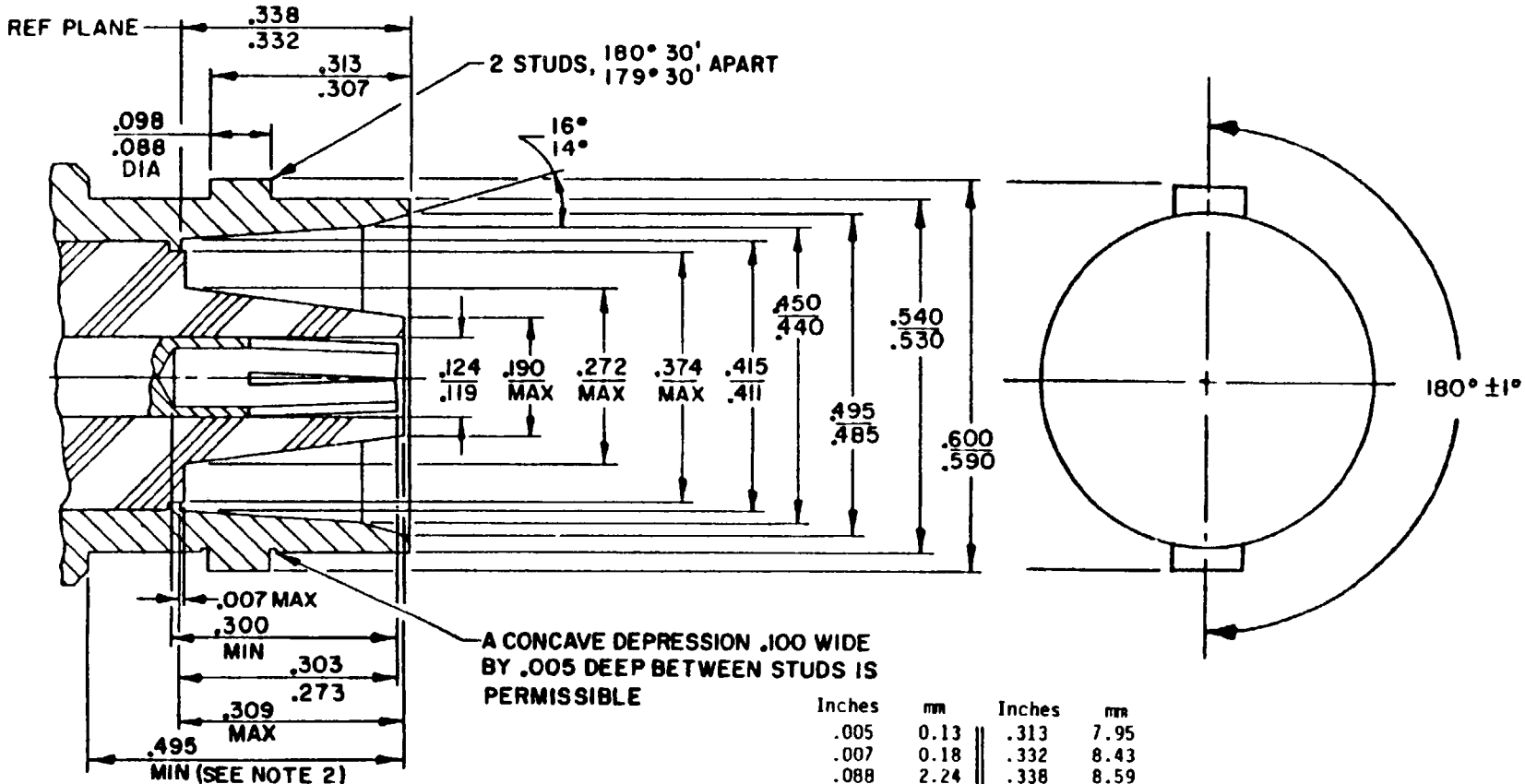
FIGURE 301-2. Interface, series BNC, socket contact.



Inches	mm	Inches	mm
.003	0.08	.131	3.32
.007	0.18	.141	3.58
.010	0.25	.191	4.85
.016	0.41	.194	4.92
.040	1.02	.251	6.38
.050	1.27	.276	7.01
.085	2.16	.297	7.54
.090	2.29	.304	7.72
.092	2.34	.307	7.80
.103	2.62	.309	7.85
.104	2.64	.337	8.56
.113	2.87	.377	9.58
.114	2.90	.543	13.79
.119	3.02	.549	13.94
.124	3.15	.612	15.54
		.781	19.84

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-C-39012/6.
3. The I.D. of outer contact when inserted into a .411 (10.44 mm) maximum ring gauge shall be .377 (9.58 mm) minimum.

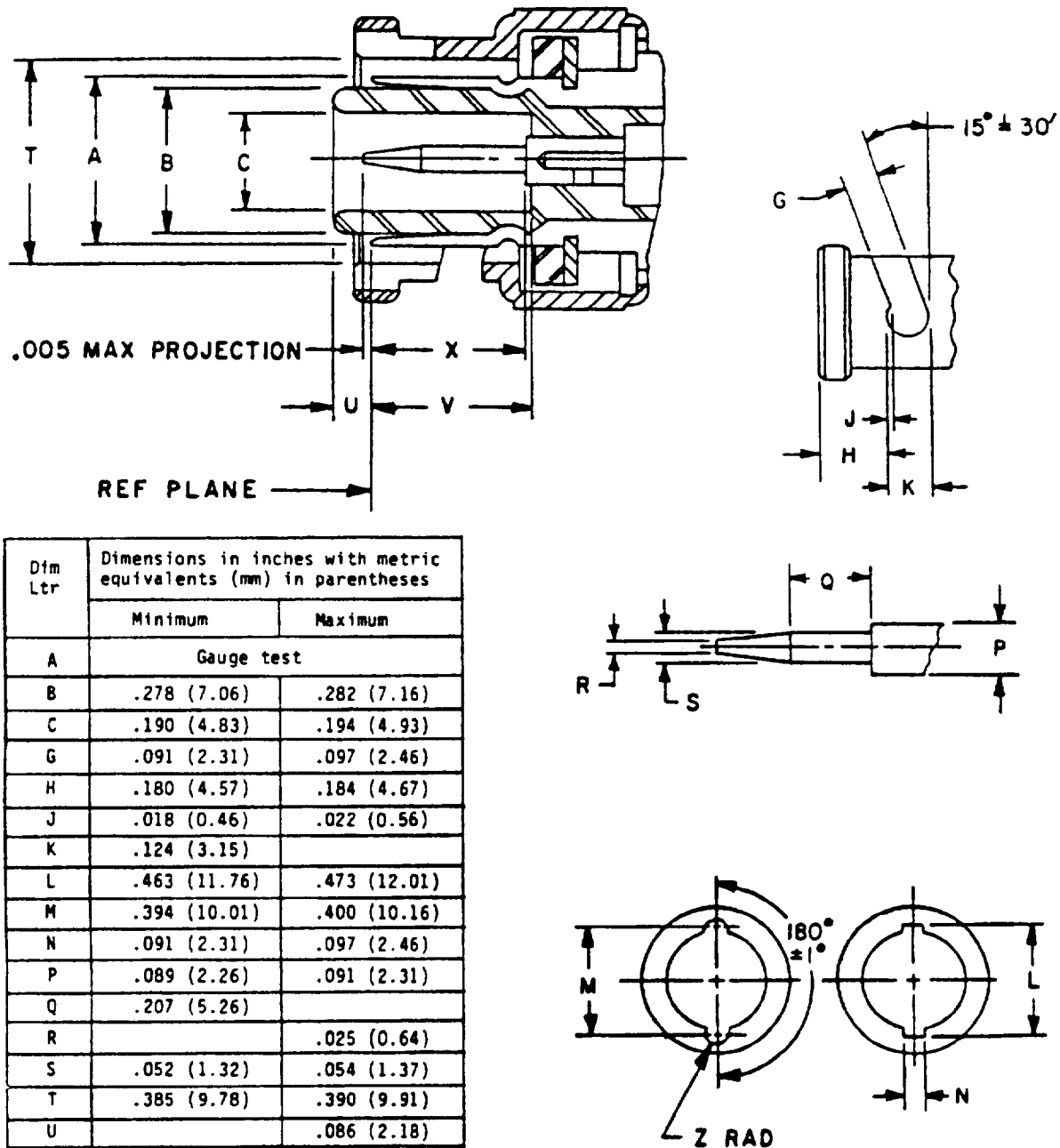
FIGURE 302-1. Interface, series C, pin contact.



Inches	mm	Inches	mm
.005	0.13	.313	7.95
.007	0.18	.332	8.43
.088	2.24	.338	8.59
.098	2.49	.374	9.50
.100	2.54	.411	10.44
.119	3.02	.415	10.54
.124	3.15	.440	11.18
.190	4.83	.450	11.43
.272	6.91	.485	12.32
.273	6.93	.495	12.57
.300	7.62	.530	13.46
.303	7.70	.540	13.72
.307	7.80	.590	14.99
.309	7.85	.600	15.24

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

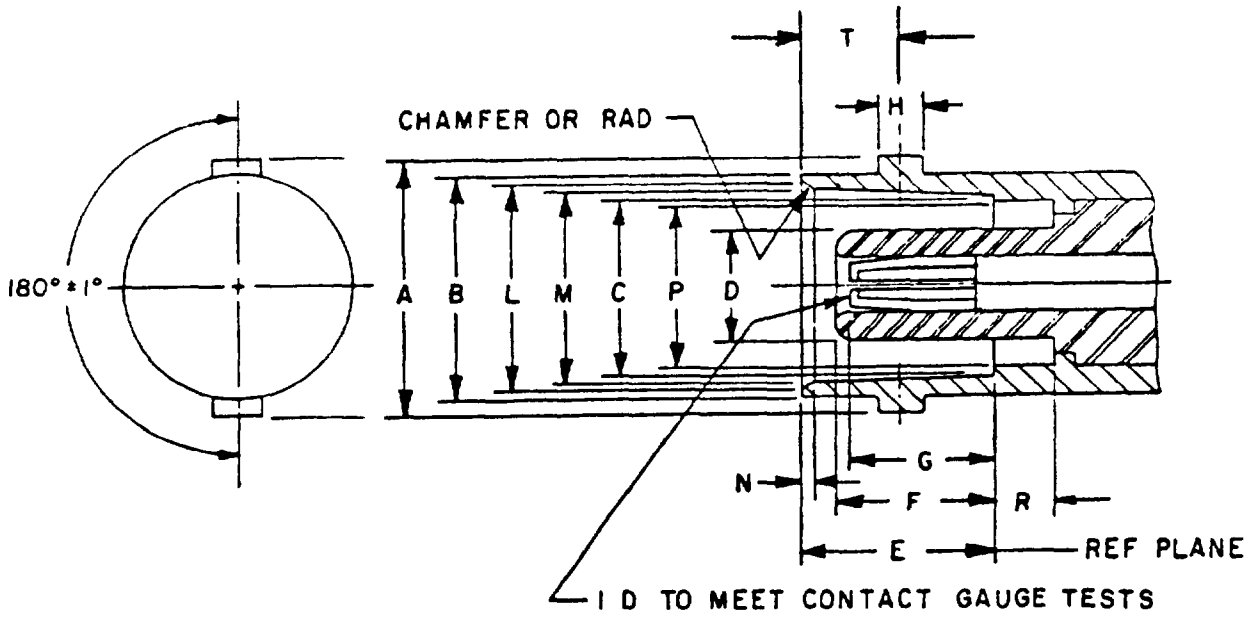
FIGURE 302-2. Interface, series C, socket contact.



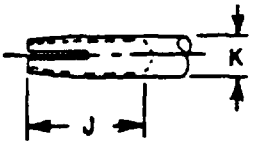
Dim Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	Gauge test	
B	.278 (7.06)	.282 (7.16)
C	.190 (4.83)	.194 (4.93)
G	.091 (2.31)	.097 (2.46)
H	.180 (4.57)	.184 (4.67)
J	.018 (0.46)	.022 (0.56)
K	.124 (3.15)	
L	.463 (11.76)	.473 (12.01)
M	.394 (10.01)	.400 (10.16)
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-C-39012/100.

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

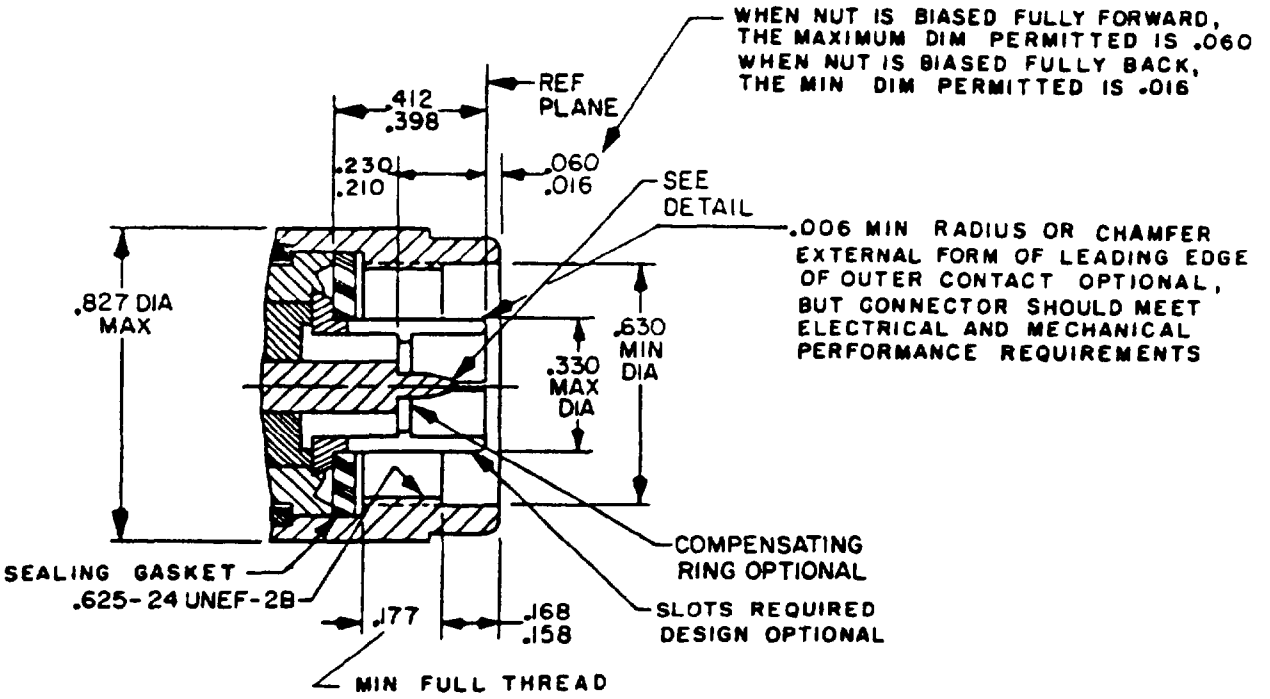


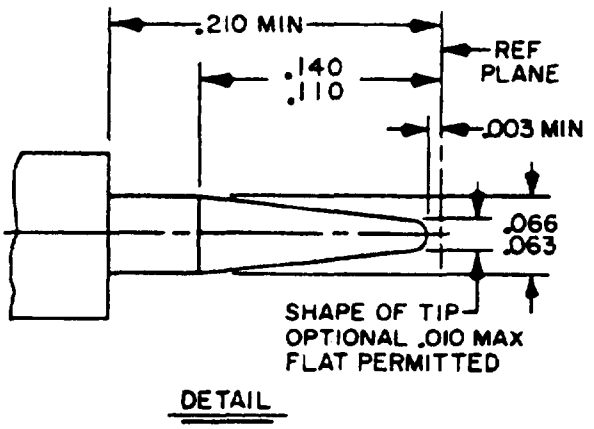
Dim Ltr	Dimensions in inches with metric equivalents (mm) in parentheses.	
	Minimum	Maximum
A	.432 (10.97)	.436 (11.07)
B	.378 (9.60)	.382 (9.70)
C	.319 (8.10)	.321 (8.15)
D		.186 (4.72)
E	.327 (8.31)	.335 (8.51)
F	.289 (7.34)	.311 (7.90)
G	.253 (6.43)	.280 (7.11)
H	.075 (1.91)	.081 (2.06)
J	.270 (6.86)	
K	.081 (2.06)	.091 (2.31)
L	.346 (8.79)	.356 (9.04)
M	.327 (8.31)	.333 (8.46)
N	.015 (0.38)	.030 (0.76)
P	.284 (7.21)	.290 (7.37)
R	.086 (2.18)	
T	.165 (4.19)	.169 (4.29)



NOTE: This interface shall meet the gauge requirements as specified in MIL-C-39012/101.

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

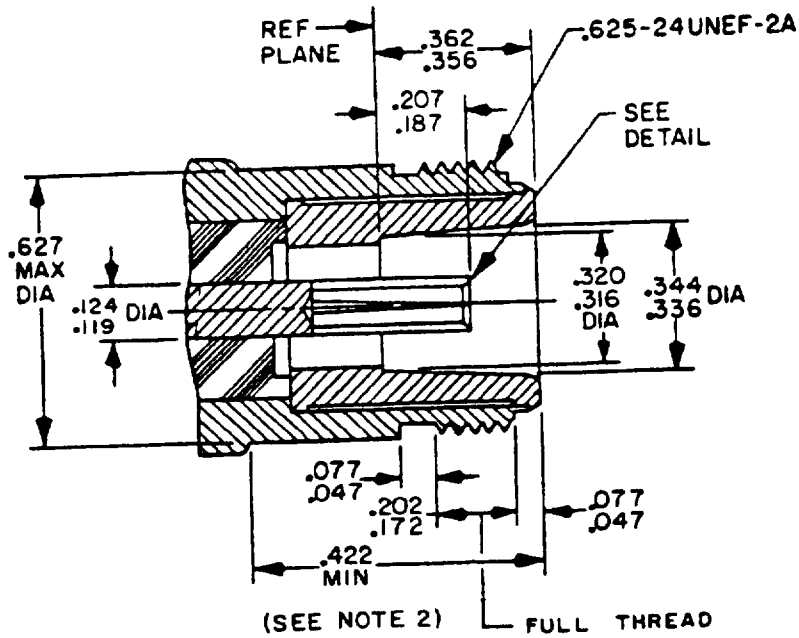


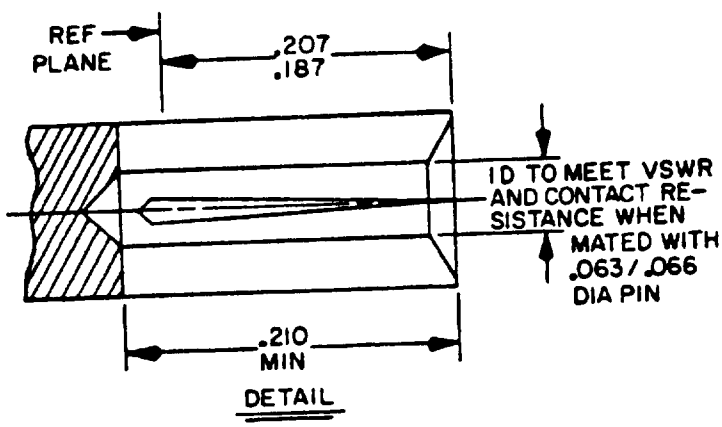


Inches	mm	Inches	mm
.003	0.08	.177	4.50
.010	0.25	.210	5.33
.016	0.41	.230	5.84
.060	1.52	.330	8.38
.063	1.60	.398	10.11
.066	1.68	.412	10.46
.110	2.79	.625	15.88
.140	3.56	.630	16.00
.158	4.01	.827	21.01
.168	4.27		

NOTE: This interface shall meet the gauge requirements as specified in MIL-C-39012/1.

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

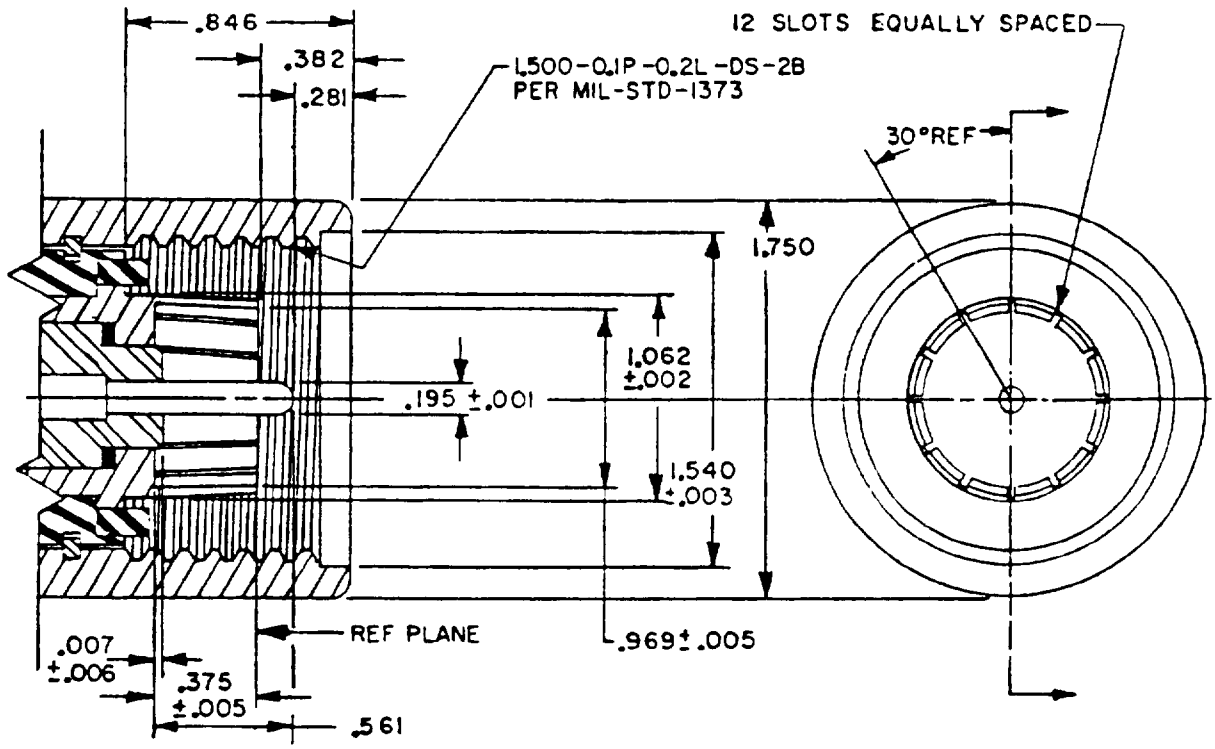




Inches	mm
.047	1.19
.063	1.60
.066	1.68
.077	1.96
.119	3.02
.124	3.15
.172	4.37
.187	4.75
.202	5.13
.207	5.26
.210	5.33
.316	8.03
.320	8.13
.336	8.53
.344	8.74
.356	9.04
.362	9.19
.422	10.72
.625	15.88
.627	15.93

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-39012/2.
2. Clearence for mating connector coupling nut.

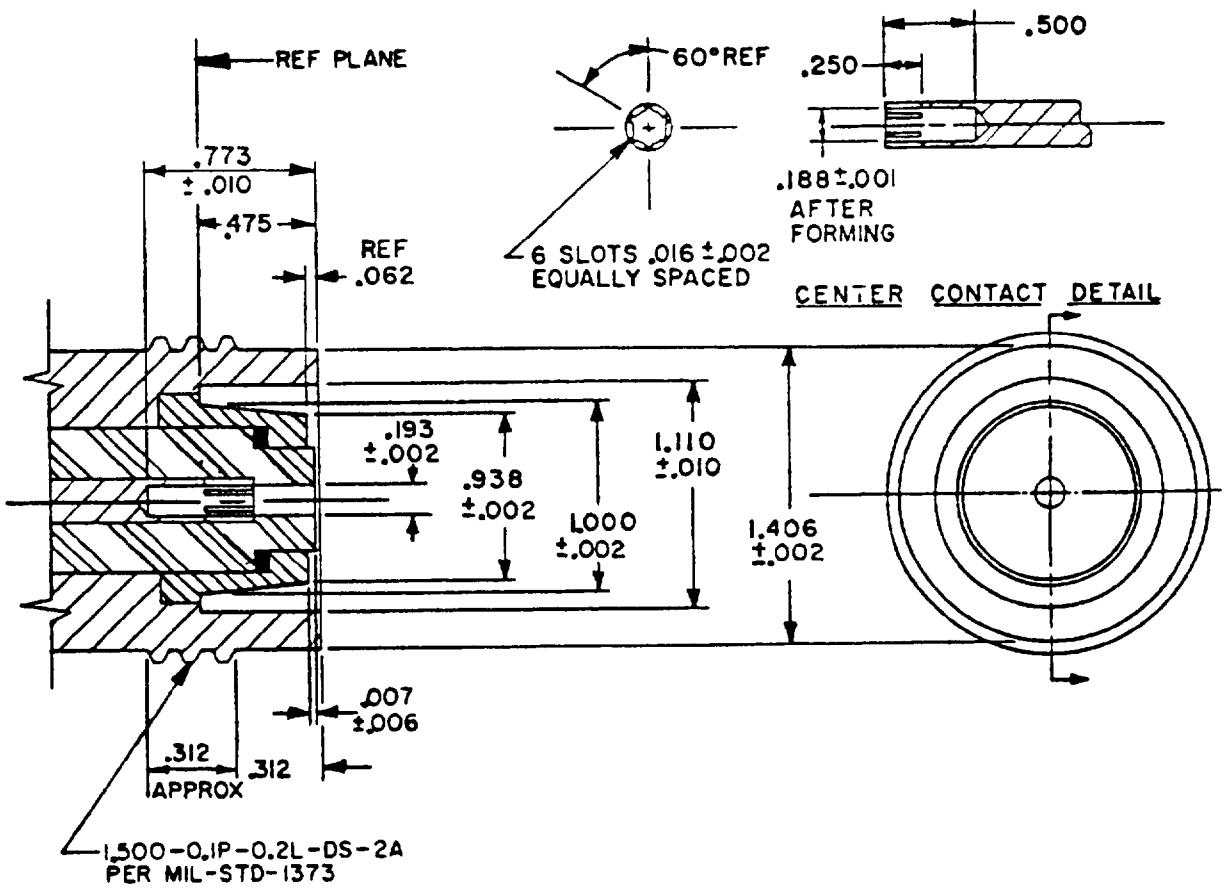
FIGURE 304-2. Interface, series N, socket contact.



Inches	mm	Inches	mm
.001	0.03	.375	9.53
.002	0.05	.382	9.70
.003	0.08	.561	14.25
.005	0.13	.846	21.49
.006	0.15	.969	24.61
.007	0.18	1.062	27.03
.195	4.95	1.500	38.10
.281	7.14	1.540	39.12
		1.750	44.45

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-39012/44.
2. Unless otherwise specified, tolerances are ±.010 (0.25 mm).

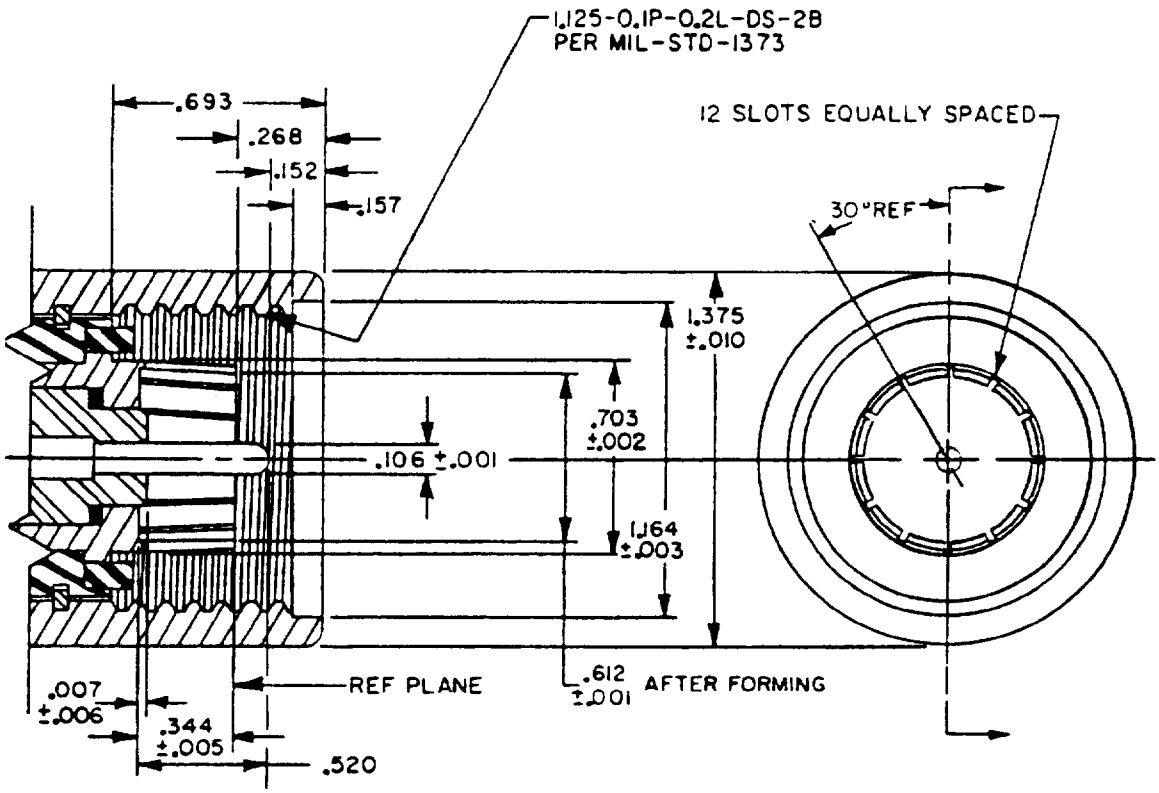
FIGURE 305-1. Interface, series QL, pin contact.



Inches	mm	Inches	mm
.001	0.03	.250	6.35
.002	0.05	.312	7.92
.006	0.15	.475	12.07
.007	0.18	.500	12.70
.010	0.25	.773	19.63
.016	0.41	.938	23.83
.062	1.57	1.000	25.40
.188	4.78	1.110	28.19
.193	4.90	1.500	38.10

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-39012/45.
2. Unless otherwise specified, tolerances are ±.010 (0.25 mm).

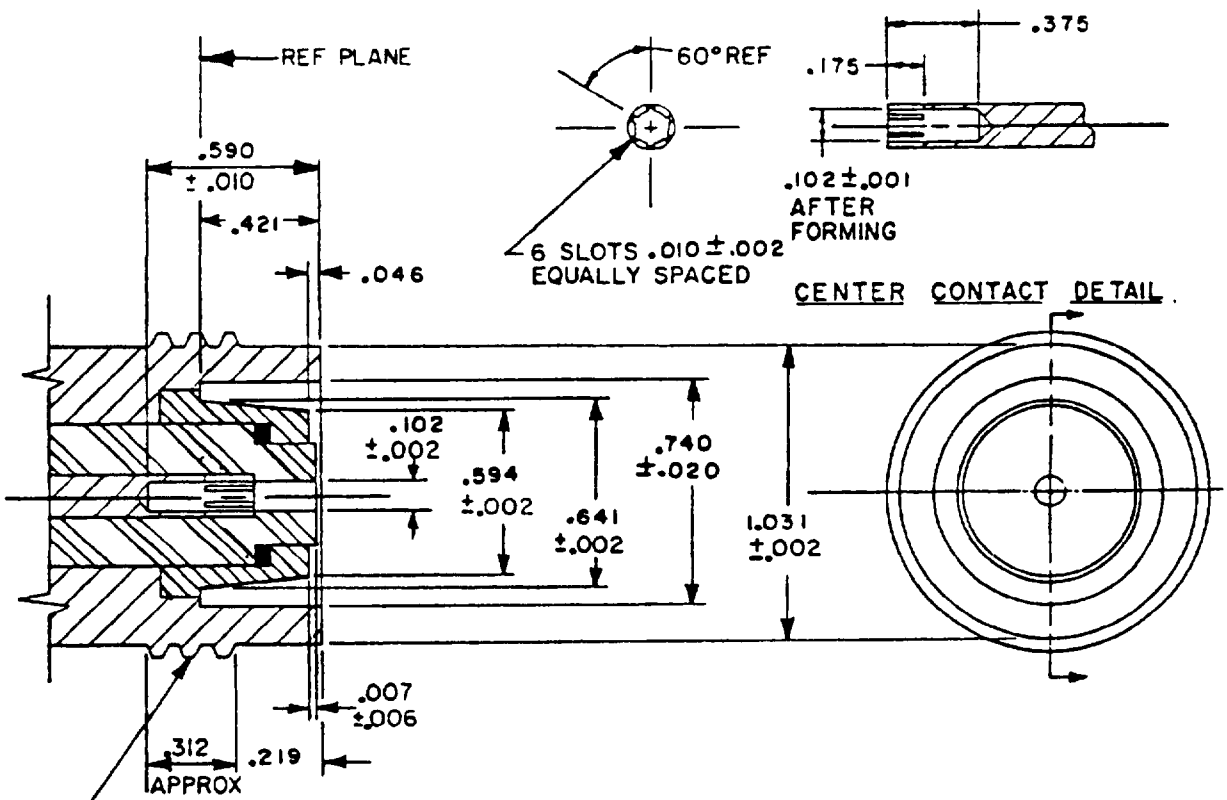
FIGURE 305-2. Interface, series QL, socket contact.



Inches	mm	Inches	mm
.001	0.03	.157	3.99
.002	0.05	.268	6.81
.003	0.08	.344	8.74
.005	0.13	.520	13.21
.006	0.15	.612	15.54
.007	0.18	.693	17.60
.010	0.25	.703	17.86
.106	2.69	1.125	28.58
.152	3.86	1.164	29.57
		1.375	34.93

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-39012/48.
2. Unless otherwise specified, tolerances are ±.010 (0.25 mm).

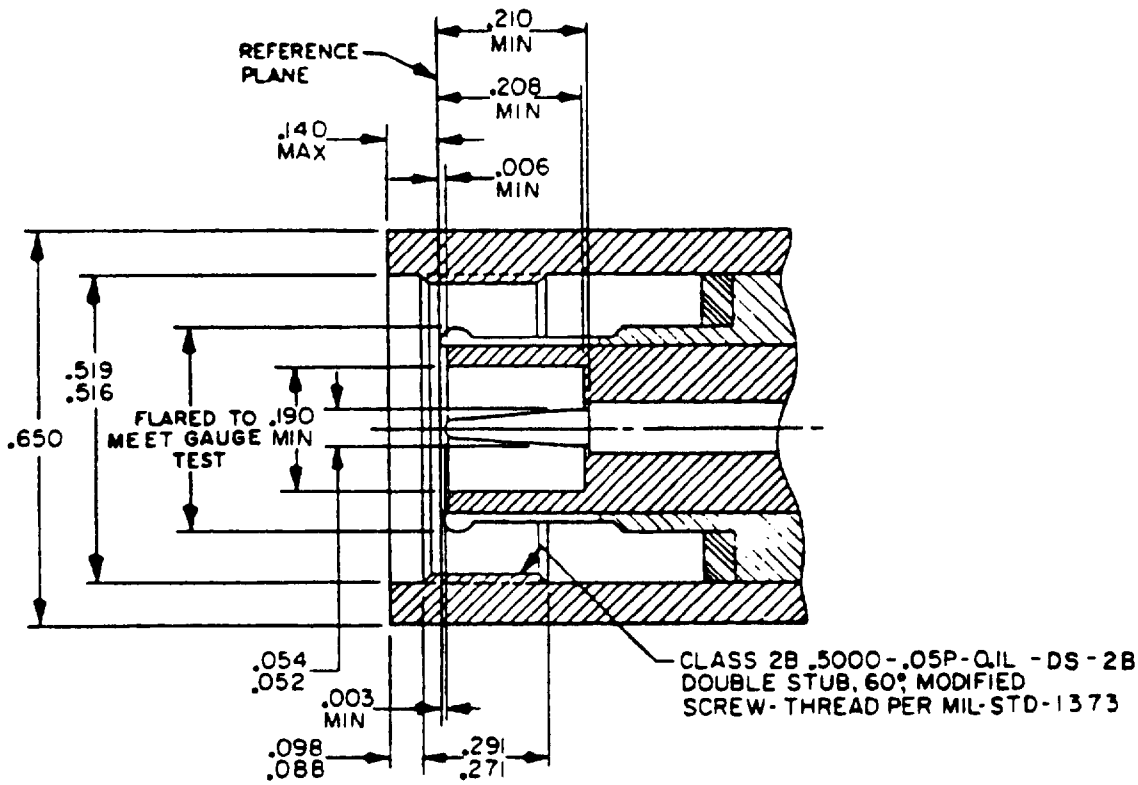
FIGURE 306-1. Interface, series QM, pin contact.

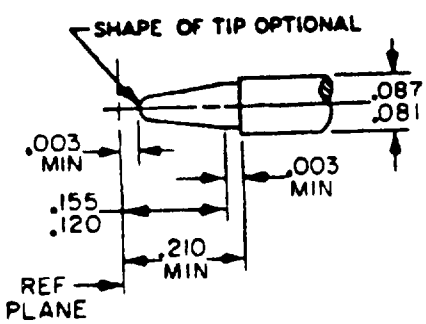


Inches	mm	Inches	mm
.001	0.03	.312	7.92
.002	0.05	.375	9.53
.006	0.15	.421	10.69
.007	0.18	.590	14.99
.010	0.25	.594	15.09
.020	0.51	.641	16.28
.046	1.17	.740	18.80
.102	2.59	1.031	26.19
.175	4.45	1.125	28.58
.219	5.56		

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-39012/49.
2. Unless otherwise specified, tolerances are ±.010 (0.25 mm).

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

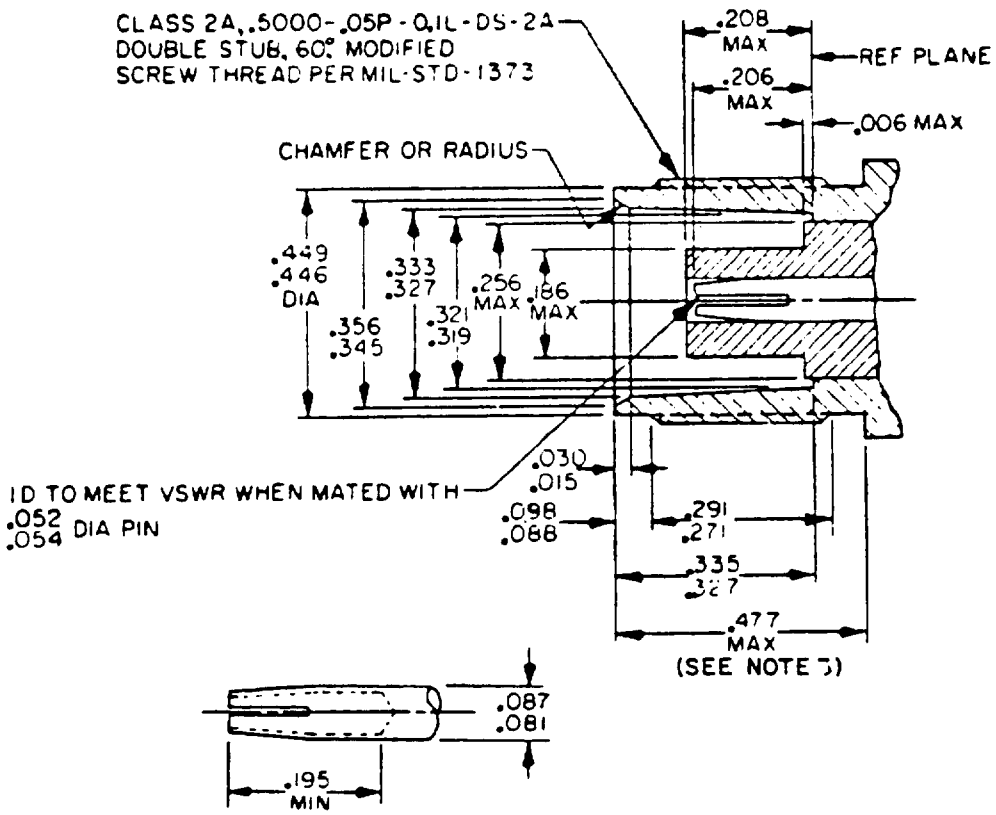




Inches	mm	Inches	mm
.003	0.08	.155	3.94
.006	0.15	.190	4.83
.052	1.32	.208	5.28
.054	1.37	.210	5.33
.081	2.06	.271	6.88
.087	2.21	.291	7.39
.088	2.24	.5000	12.70
.098	2.50	.516	13.11
.120	3.04	.519	13.18
.140	3.56	.650	16.51

NOTE: This connector shall meet the gauge requirements as specified in MIL-C-39012/65.

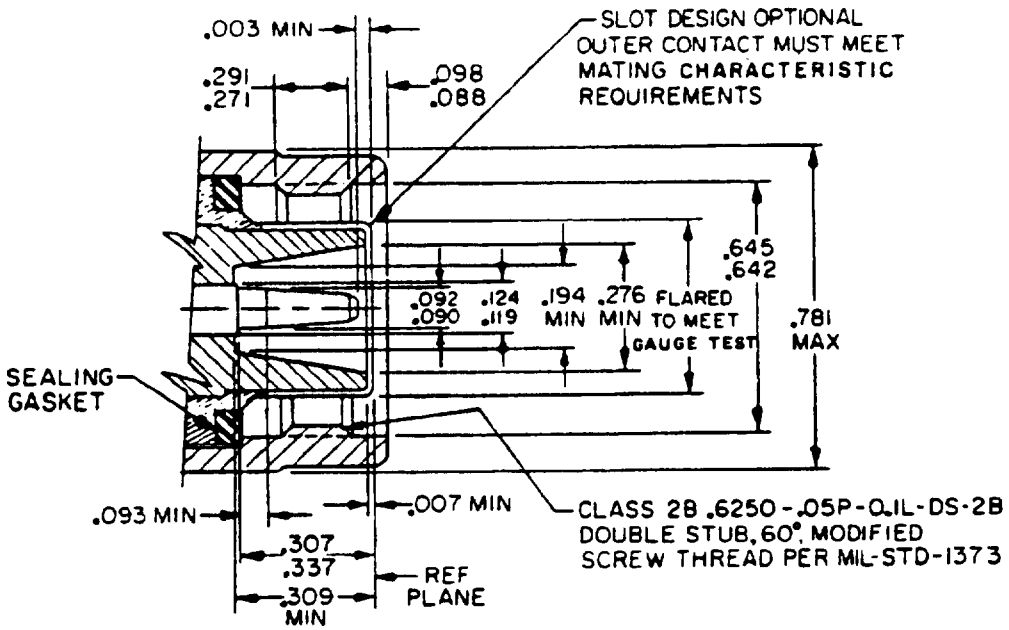
FIGURE 307-1. Interface, series QNC, pin contact.



Inches	mm	Inches	mm	Inches	mm
.006	0.15	.186	4.72	.327	8.31
.015	0.38	.195	4.95	.333	8.46
.030	0.76	.206	5.23	.335	8.51
.052	1.32	.208	5.28	.345	8.76
.054	1.37	.256	6.50	.356	9.06
.081	2.06	.271	6.88	.446	11.32
.087	2.21	.291	7.39	.449	11.40
.088	2.24	.319	8.10	.477	12.12
.098	2.50	.321	8.15	.5000	12.70

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-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.

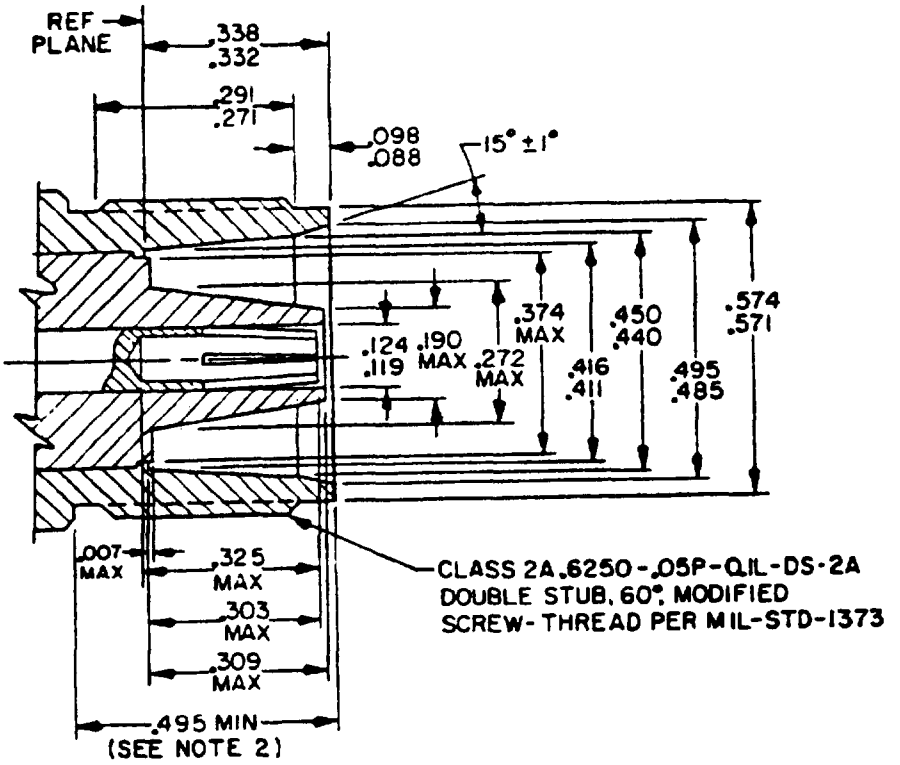
FIGURE 307-2. Interface, series QNC, socket contact.



Inches	mm	Inches	mm
.003	0.08	.271	6.88
.007	0.18	.276	7.01
.088	2.24	.291	7.39
.090	2.29	.307	7.80
.092	2.34	.309	7.85
.093	2.36	.337	8.56
.098	2.50	.6250	15.88
.119	3.02	.642	16.31
.124	3.15	.645	16.38
.194	4.93	.781	19.84

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

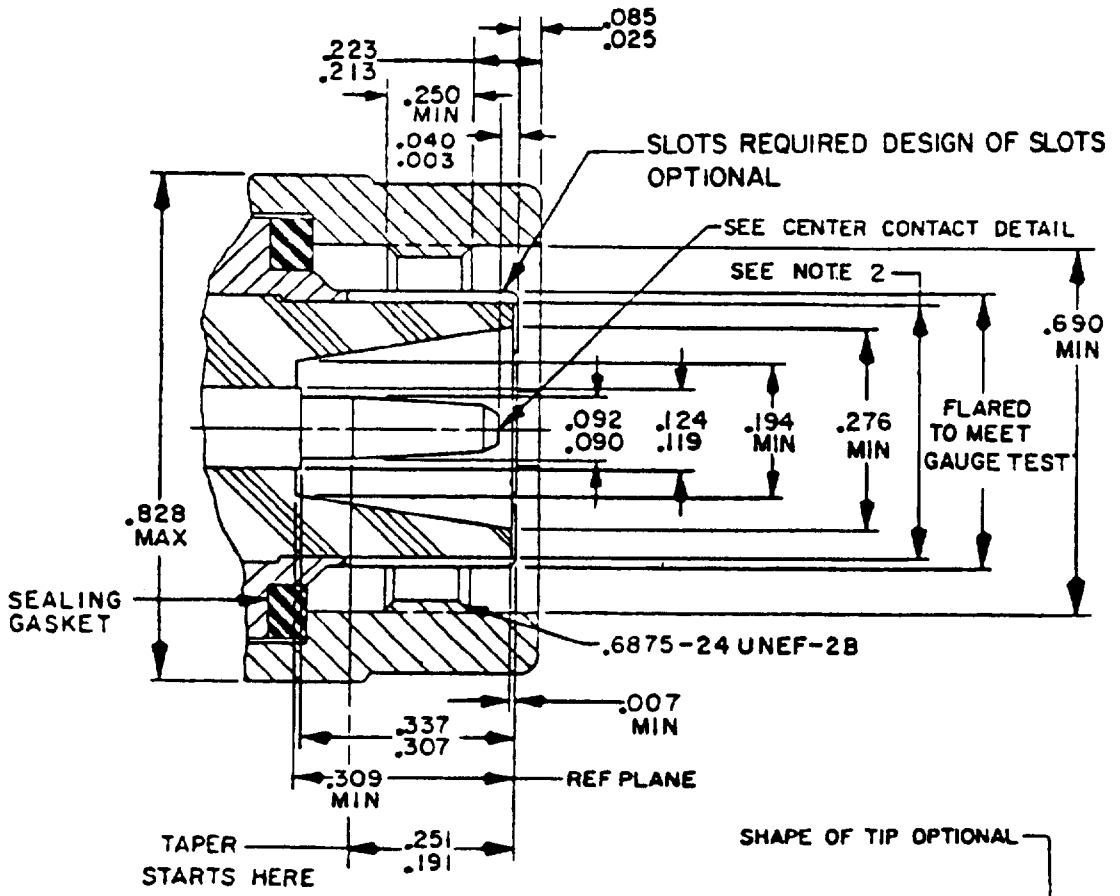
FIGURE 308-1. Interface, series QSC, pin contact.

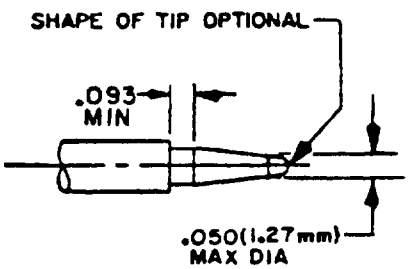


Inches	mm	Inches	mm	Inches	mm
.007	0.18	.291	7.39	.416	10.56
.088	2.24	.303	7.70	.440	11.18
.098	2.50	.309	7.85	.450	11.43
.119	3.02	.325	8.26	.485	12.32
.124	3.15	.332	8.43	.495	12.57
.190	4.83	.338	8.59	.571	14.50
.271	6.88	.374	9.50	.574	14.58
.272	6.91	.411	10.44	.6250	15.88

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

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



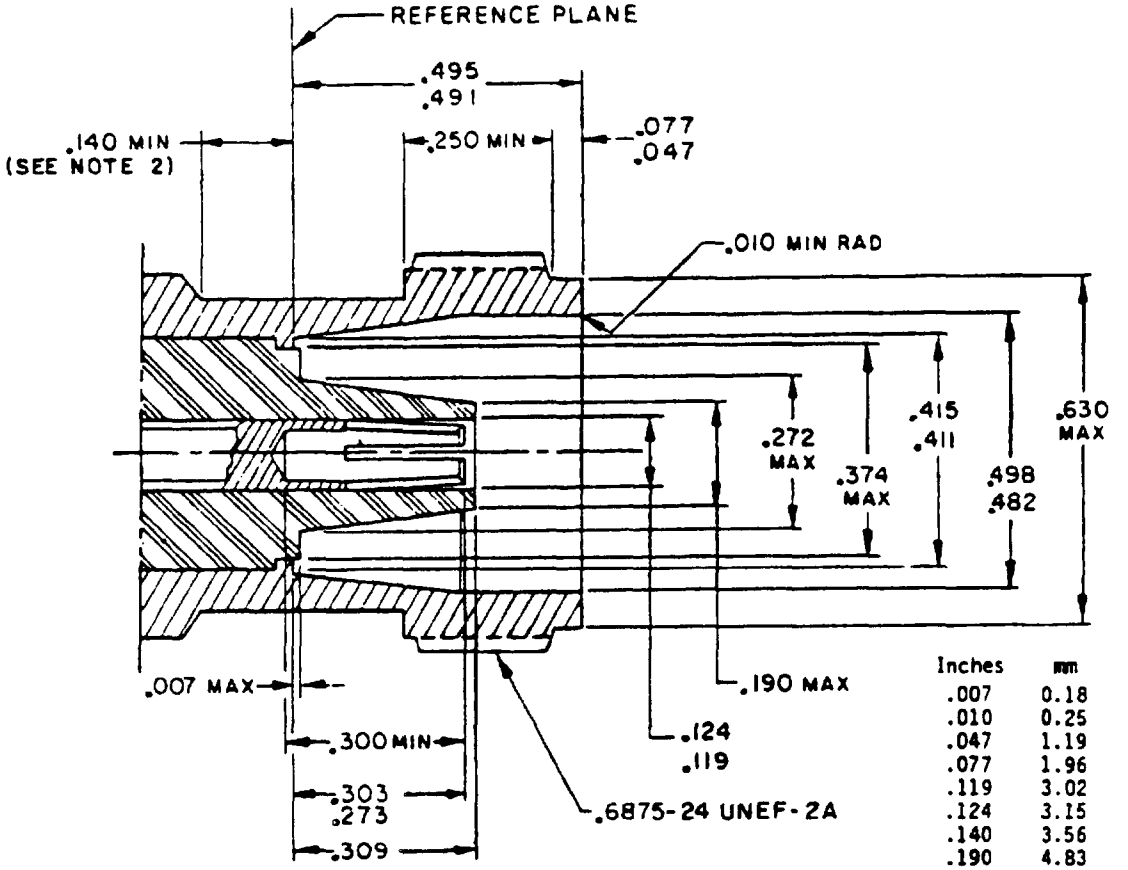


CENTER CONTACT DETAIL

Inches	mm	Inches	mm
.003	0.08	.194	4.93
.007	0.18	.213	5.41
.025	0.64	.223	5.66
.040	1.02	.250	6.35
.050	1.27	.251	6.38
.085	2.16	.276	7.01
.090	2.29	.307	7.80
.092	2.34	.309	7.85
.093	2.36	.337	8.56
.119	3.02	.6875	17.460
.124	3.23	.690	17.53
.191	4.85	.828	21.03

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-39012/35.
2. The I.D. of outer contact when inserted into a .411 (10.44 mm) maximum ring gauge shall be .377 (9.58 mm) minimum.

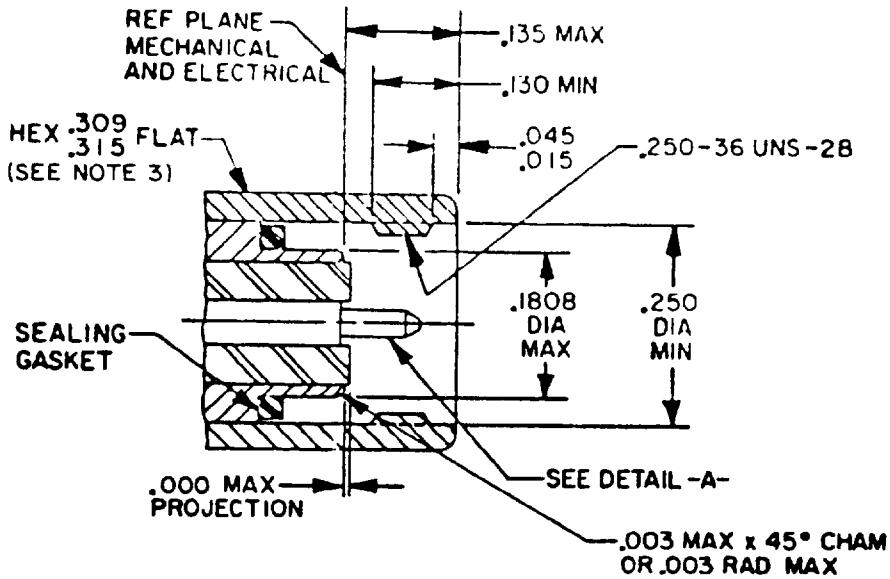
FIGURE 309-1. Interface, series SC, pin contact.

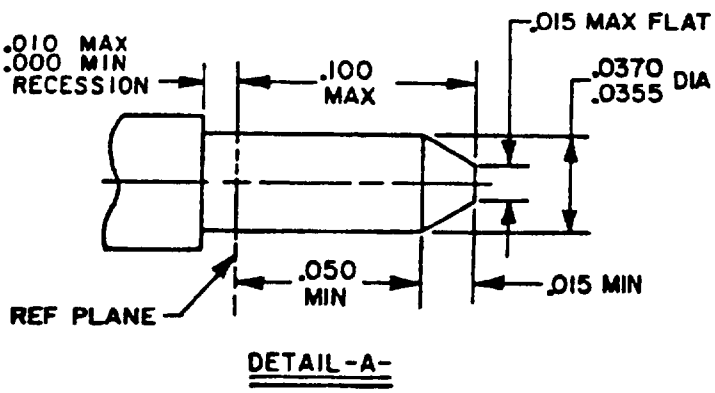


Inches	mm
.007	0.18
.010	0.25
.047	1.19
.077	1.96
.119	3.02
.124	3.15
.140	3.56
.190	4.83
.250	6.35
.272	6.91
.273	6.93
.300	7.62
.303	7.70
.309	7.85
.374	9.50
.411	10.44
.415	10.54
.482	12.24
.491	12.47
.495	12.57
.498	12.65
.630	16.00
.6875	17.460

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-39012/40.
2. Clearance for mating connector coupling nut.

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



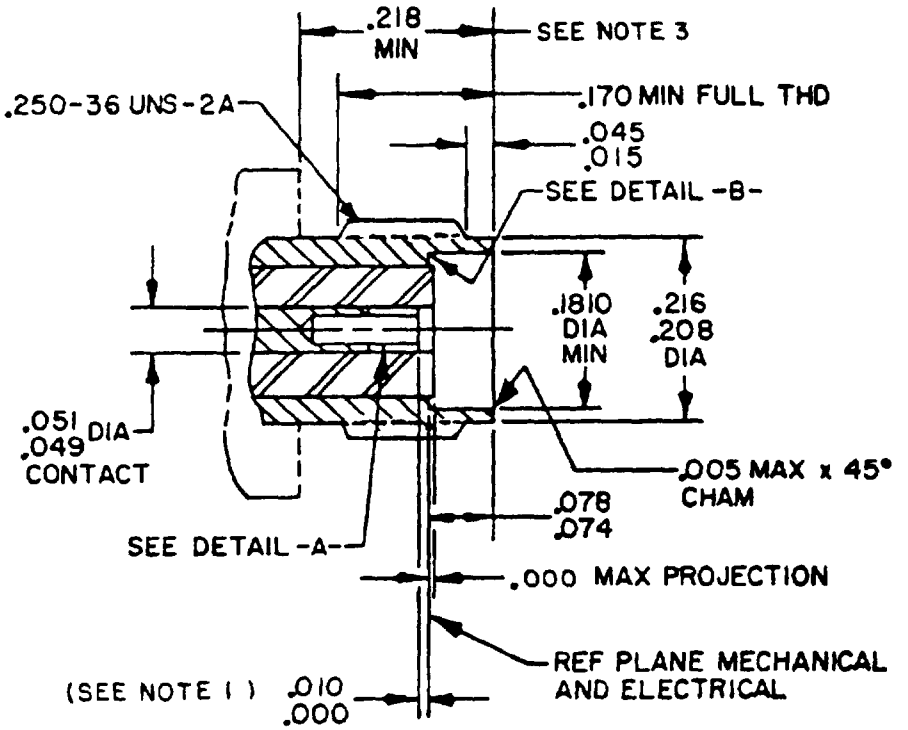


DETAIL -A-

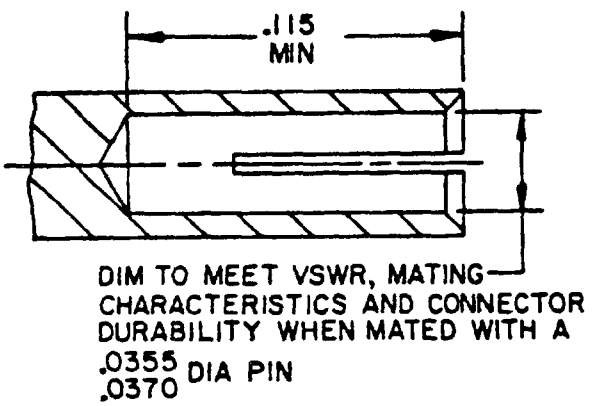
Inches	mm
.003	0.08
.010	0.25
.015	0.38
.0355	0.900
.0370	0.940
.045	1.14
.050	1.27
.100	2.54
.130	3.30
.135	3.43
.1808	4.590
.250	6.35
.309	7.85
.315	8.00

NOTES:
1. This interface shall meet the guage requirements as specified in MIL-C-39012/79.
2. Connector interfaces (after connector mating) shall be kept free from dust and moisture.
3. May extend throughout the full length of the coupling nut.

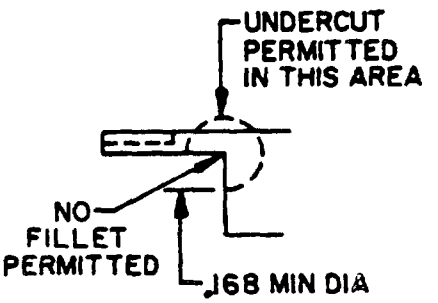
FIGURE 310-1. Interface, series SMA, pin contact.



Inches	mm
.005	0.13
.010	0.25
.015	0.38
.0355	0.90
.0370	0.94
.045	1.14
.049	1.24
.051	1.29
.074	1.88
.078	1.98
.115	2.92
.168	4.27
.170	4.32
.1810	4.597
.208	5.28
.216	5.49
.218	5.54
.250	6.35



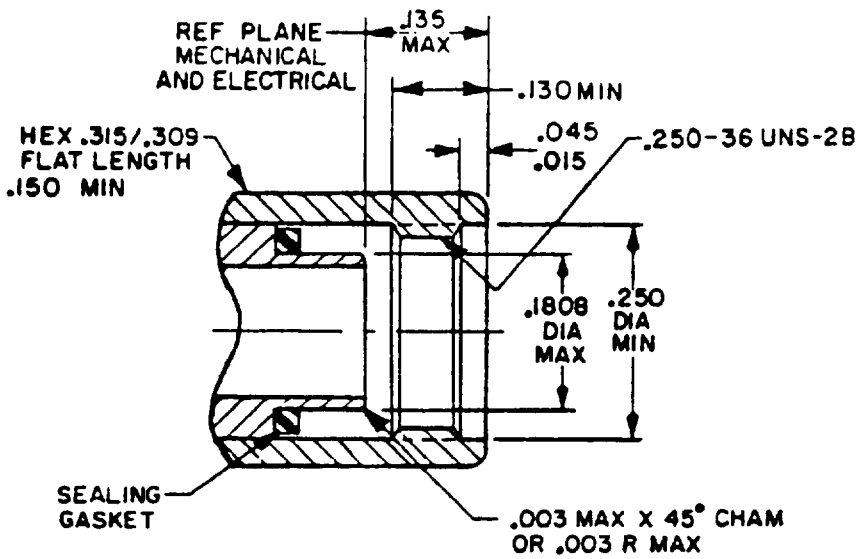
DETAIL -A-



DETAIL -B-

NOTES:
1. A .030 inch (0.76 mm) maximum contact recession is permissible for thick wall designs only.
2. This interface shall meet the guage requirements as specified in MIL-C-39012/83.
3. Clearance for mating connector coupling nut.

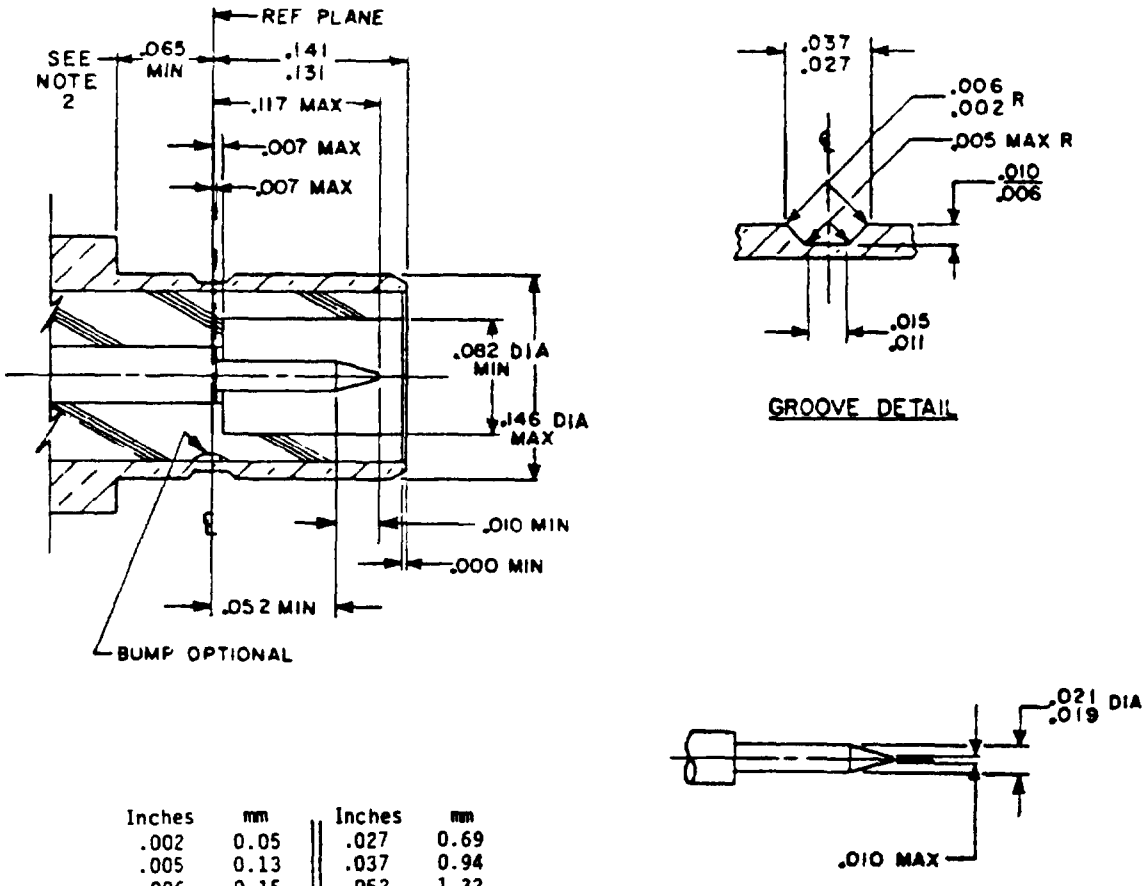
FIGURE 310-2. Interface, series SMA, socket contact.



Inches	mm
.003	0.08
.015	0.38
.045	1.14
.130	3.30
.135	3.43
.150	3.81
.1808	4.59
.250	6.35
.309	7.85
.315	8.00

NOTES:
1. This interface shall meet the gauge requirements as specified in MIL-C-39012/92.
2. Reference MIL-C-39012/92 for cable stripping dimensions.

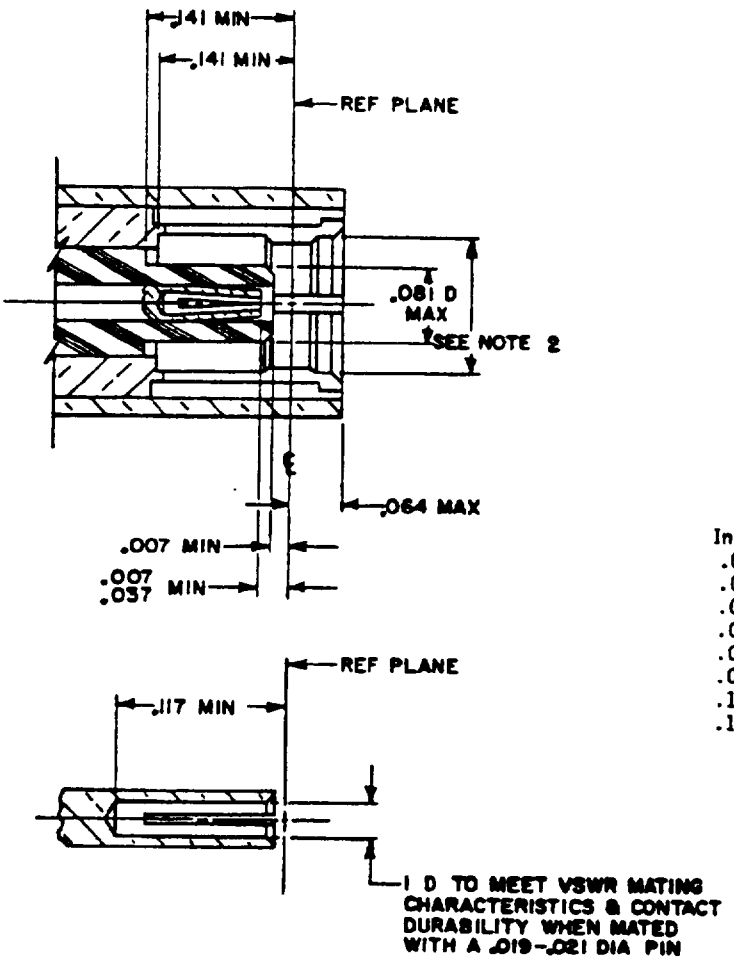
FIGURE 310-3. Interface, series SMA, no contact.



Inches	mm	Inches	mm
.002	0.05	.027	0.69
.005	0.13	.037	0.94
.006	0.15	.052	1.32
.007	0.18	.065	1.65
.010	0.25	.082	2.08
.011	0.28	.117	2.97
.015	0.38	.131	3.33
.019	0.48	.141	3.58
.021	0.53	.146	3.71

NOTES:
1. This interface shall meet the guage requirements as specified in MIL-C-39012/68.
2. Clearance for mating connector coupling nut.

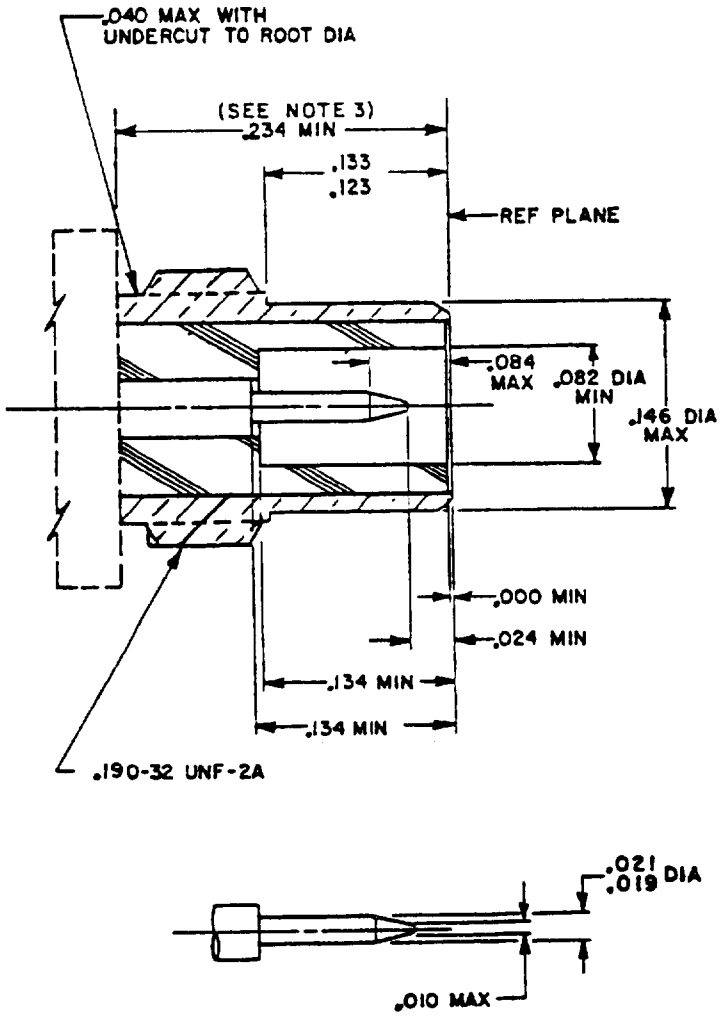
FIGURE 311-1. Interface, series SMB, pin contact.



Inches	mm
.007	0.18
.019	0.48
.021	0.53
.037	0.94
.064	1.63
.081	2.06
.117	2.97
.141	3.58

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-C-39012/67.

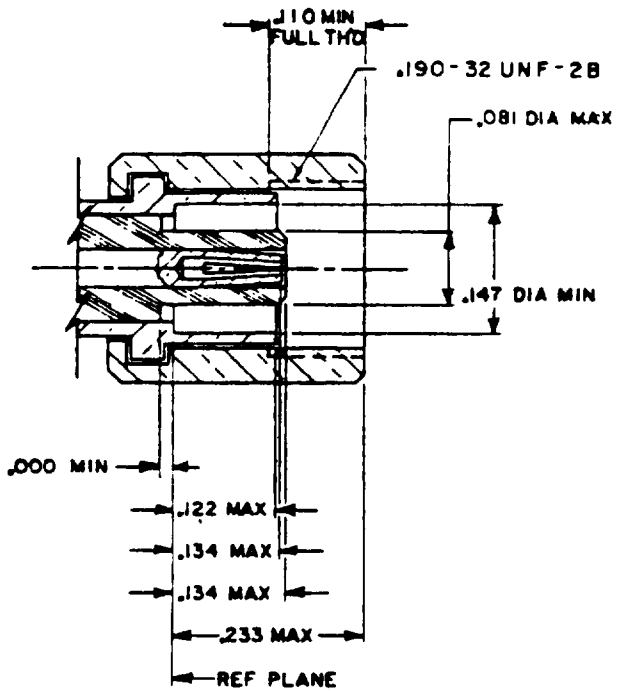
FIGURE 311-2. Interface, series SMB, socket contact.



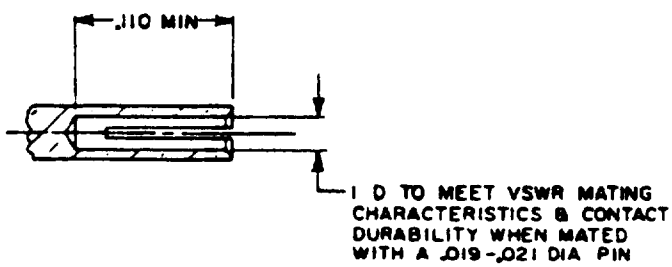
Inches	mm
.010	0.25
.019	0.48
.021	0.53
.024	0.61
.040	1.02
.082	2.08
.084	2.13
.123	3.12
.133	3.38
.146	3.71
.190	4.83
.234	5.94

NOTES:
1. This interface shall meet the guage requirements as specified in MIL-C-39012/74.
2. Thread guage must go .234 (5.94 mm) minimum from reference plane.
3. Clearance for mating connector coupling nut.

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

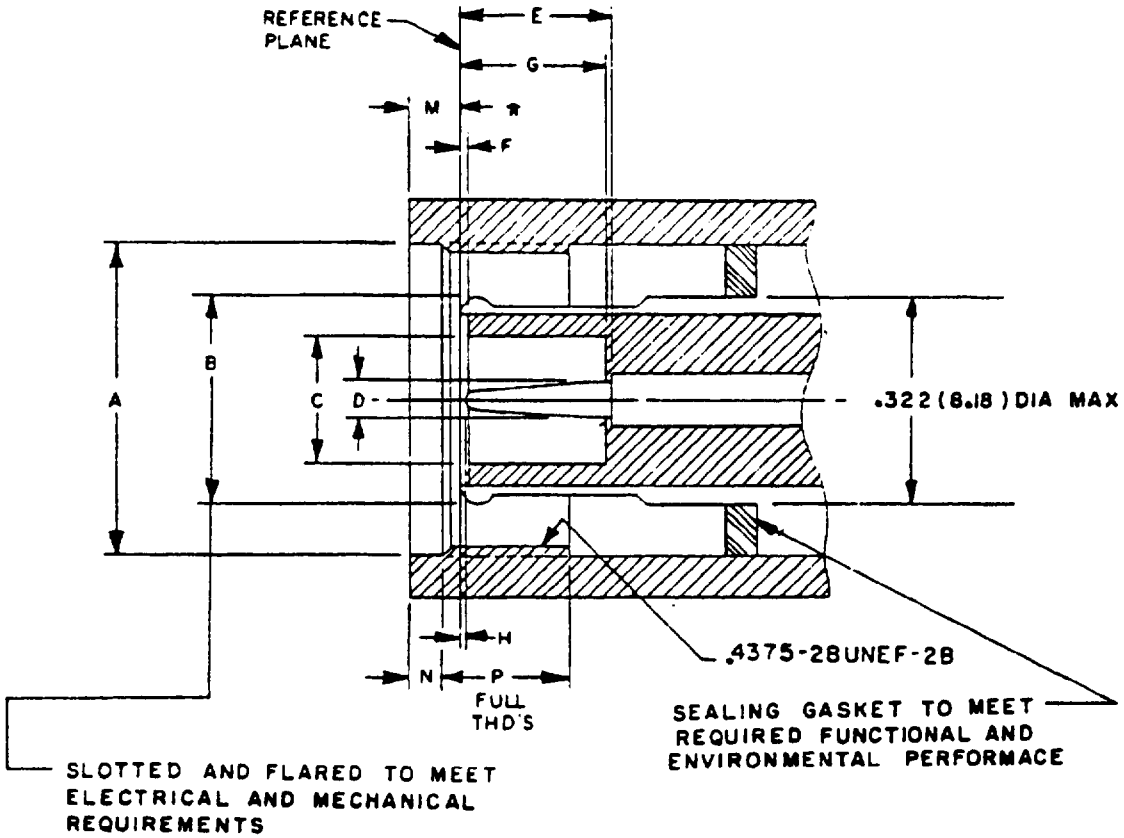


Inches	mm
.019	0.48
.021	0.53
.081	2.06
.110	2.79
.122	3.10
.134	3.40
.147	3.73
.190	4.83
.233	5.92

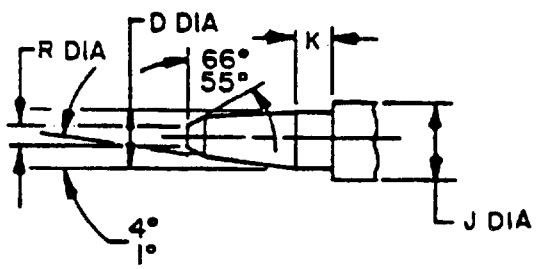


NOTES:
1. Method of slotting of inner contact optional.
2. This interface shall meet the gauge requirements as specified in MIL-C-39012/73.

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



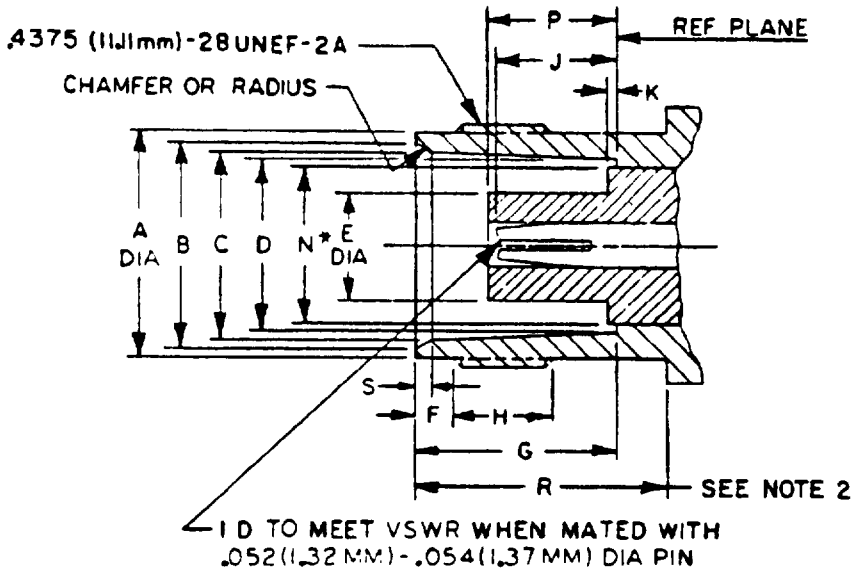
Dim Ltr	Dimensions in inches with metric equivalents (mm) in parentheses.	
	Minimum	Maximum
A	.440 (11.18)	
B	Gauge test	
C	.190 (4.83)	
D	.052 (1.32)	.054 (1.37)
E	.210 (5.33)	.230 (5.84)
F	.006 (0.15)	
G	.208 (5.28)	.228 (5.79)
H	.003 (0.08)	.040 (1.02)
J	.081 (2.06)	.087 (2.21)
K	.078 (1.98)	
M		.078 (1.98)
N	.063 (1.60)	
P	.156 (3.96)	
R		.025 (0.64)



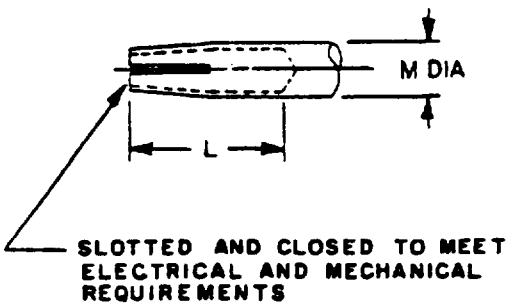
* THIS DIMENSION SHOWS THE POSITION WITH NUT BIASED FULLY FORWARD

NOTE: This interface shall meet the gauge requirements as specified in MIL-C-39012/26.

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



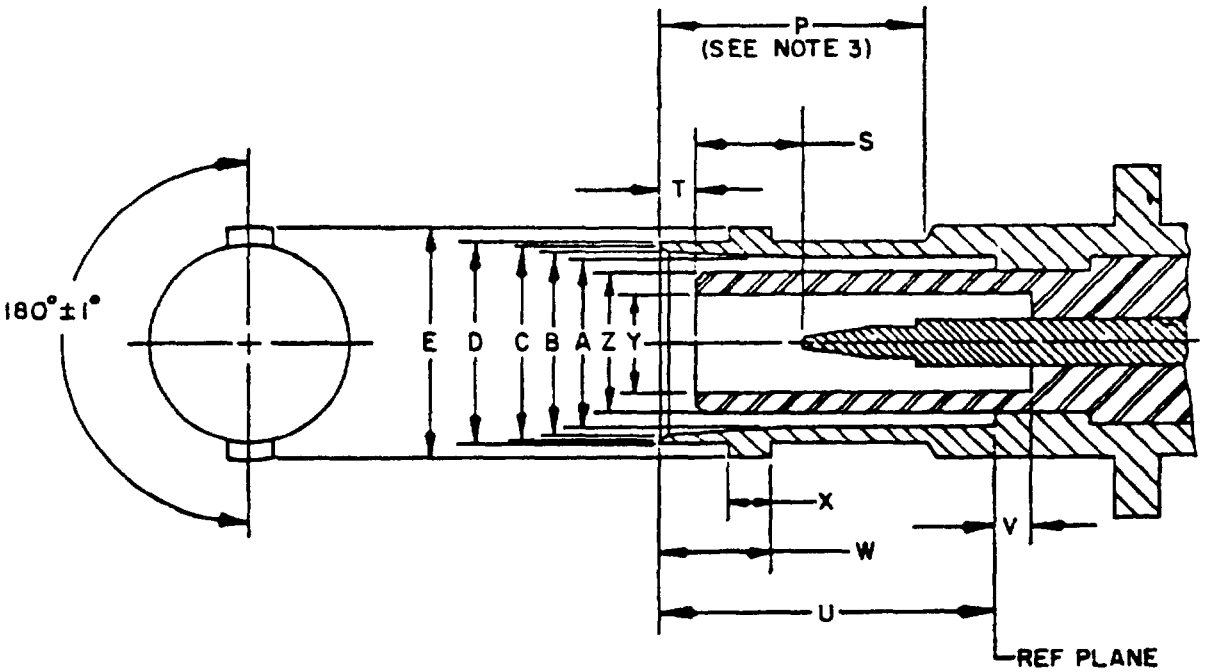
Dim Ltr	Dimensions in inches with metric equivalents (mm) in parentheses (see note)	
	Minimum	Maximum
A	.378 (9.60)	.381 (9.68)
B	.346 (8.79)	.356 (9.04)
C	.327 (8.31)	.333 (8.46)
D	.319 (8.10)	.321 (8.15)
E		.186 (4.72)
F	.068 (1.73)	.088 (2.24)
G	.327 (8.31)	.335 (8.51)
H	.187 (4.75)	
J	.186 (4.72)	.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)	
S	.015 (0.38)	.030 (0.76)

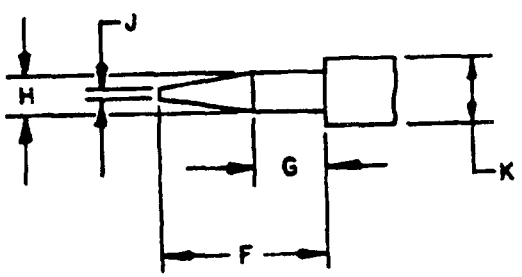


*N dimension applies to that portion (if applicable) of the dielectric which protrudes beyond the metal shoulder (or reference plane) by dimension K.

NOTES:
1. This interface shall meet the guage requirements as specified in MIL-C-39012/28.
2. Clearance for mating connector coupling nut.

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

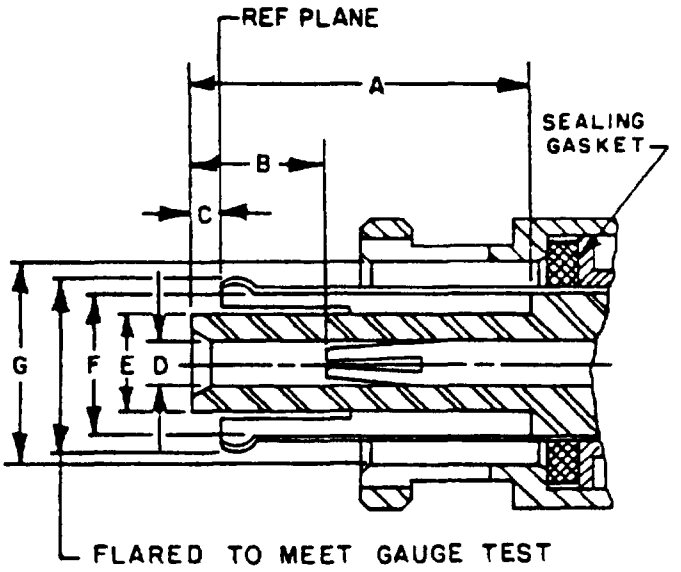


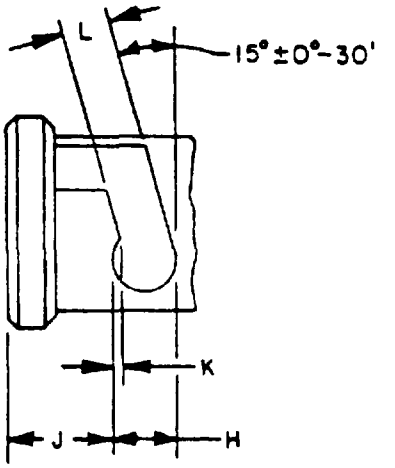


Dim Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.319	.321	8.10	8.15
B	.328	.333	8.33	8.46
C	.347	.357	8.81	9.07
D	.378	.382	9.60	9.70
E	.432	.436	10.97	11.07
F	.207	.214	5.26	5.44
G	.130		3.30	
H	.052	.054	1.32	1.37
J	.015	.025	0.38	0.64
K	.081	.083	2.06	2.11
P	.427		10.85	
S	.188	.208	4.78	5.28
T	.061	.078	1.55	1.98
U	.626	.630	15.90	16.00
V	.064	.086	1.63	2.18
W	.204	.208	5.18	5.28
X	.075	.081	1.90	2.06
Y	.190	.196	4.83	4.98
Z		.260		6.60

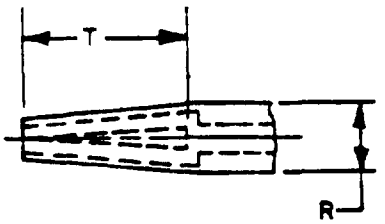
NOTES:
1. This interface shall meet the guage requirements as specified in MIL-C-39012/107.
2. .005 (0.13 mm) flat permissible to meet dimension W.
3. Clearance for mating connector coupling nut.

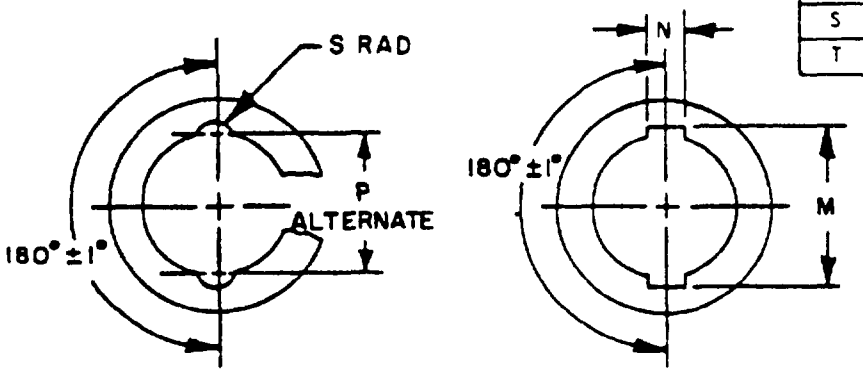
FIGURE 314-1. Interface, series SHV, pin contact.





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





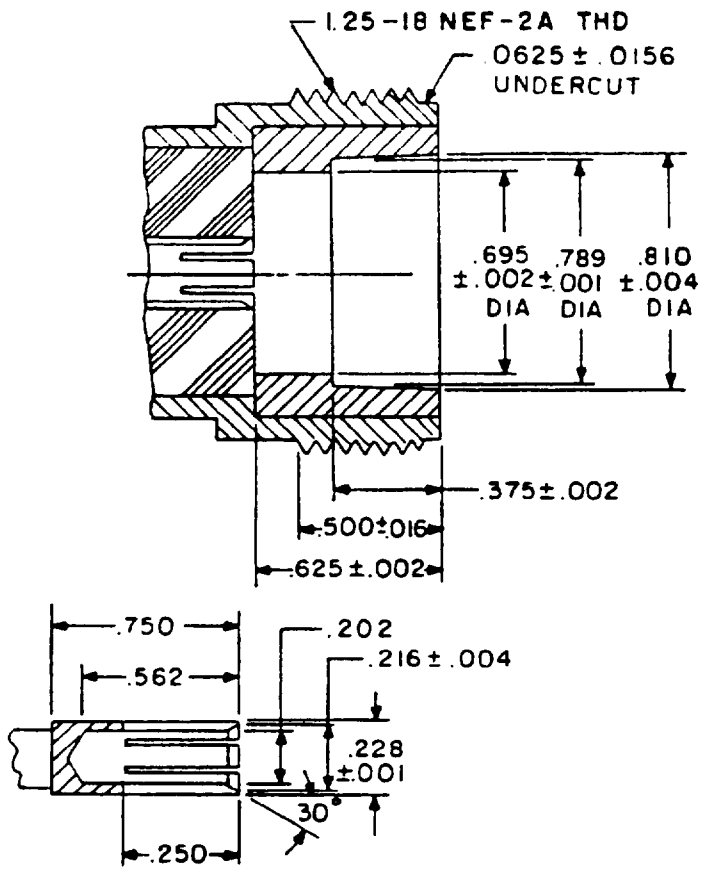
NOTE: This interface shall meet the gauge requirements as specified in MIL-C-39012/106.

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

SECTION 300

INTERFACE DIMENSIONS FOR MIL-C-3650

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



SOCKET DETAIL

Inches	mm	Inches	mm	Inches	mm
.001	0.03	.216	5.49	.625	15.88
.002	0.05	.228	5.79	.695	17.65
.004	0.10	.250	6.35	.750	19.05
.0156	0.40	.375	9.52	.789	20.04
.016	0.41	.500	12.70	.810	20.57
.0625	1.59	.562	14.28	1.25	31.75
.202	5.13				

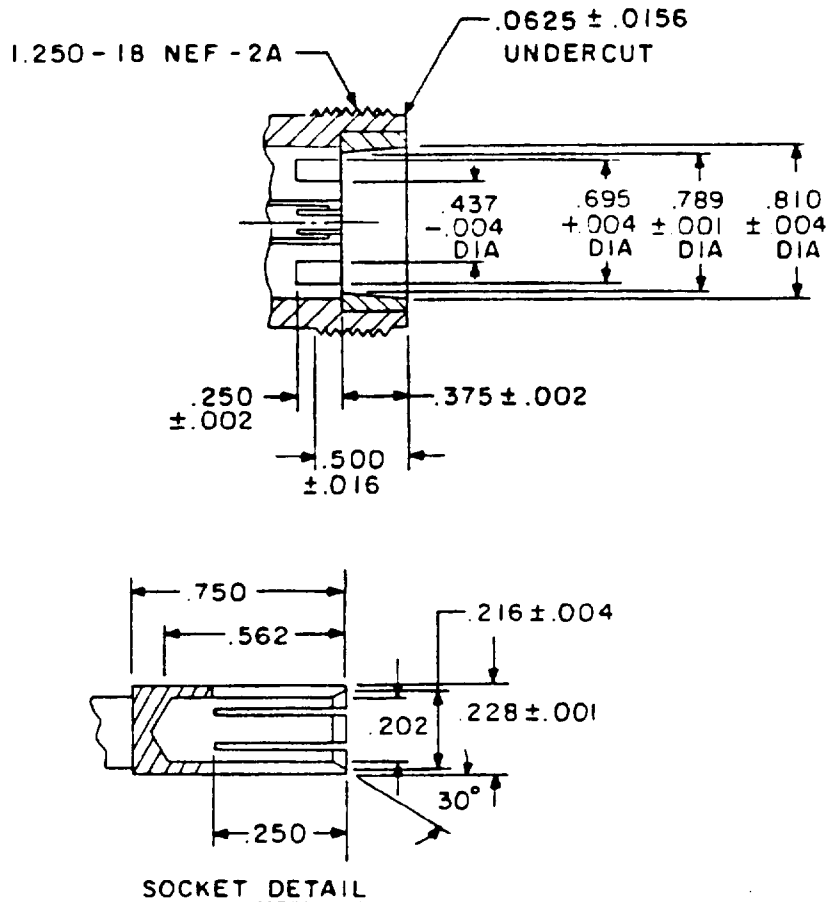
NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. This interface shall meet tne gauge requirements as specified in MIL-C-3650.

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

SECTION 300

INTERFACE DIMENSIONS FOR MIL-C-3650

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



Inches	mm	Inches	mm	Inches	mm
.001	0.03	.216	5.49	.625	15.88
.002	0.05	.228	5.79	.695	17.65
.004	0.10	.250	6.35	.750	19.05
.0156	0.40	.375	9.52	.789	20.04
.016	0.41	.437	11.10	.810	20.57
.0625	1.59	.500	12.70	1.25	31.75
.202	5.13	.562	14.28		

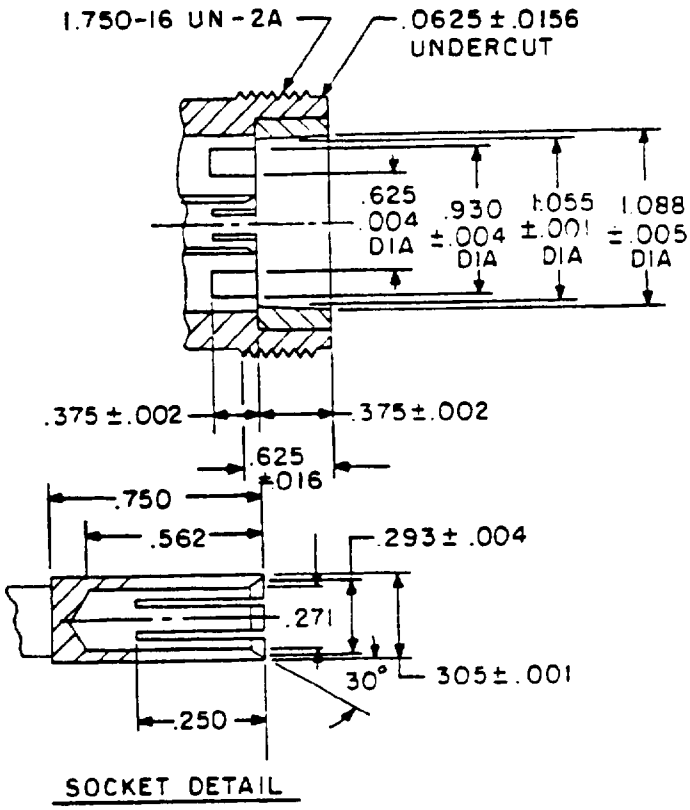
NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. This interface shall meet tne gauge requirements as specified in MIL-C-3650.

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

SECTION 300

INTERFACE DIMENSIONS FOR MIL-C-3650

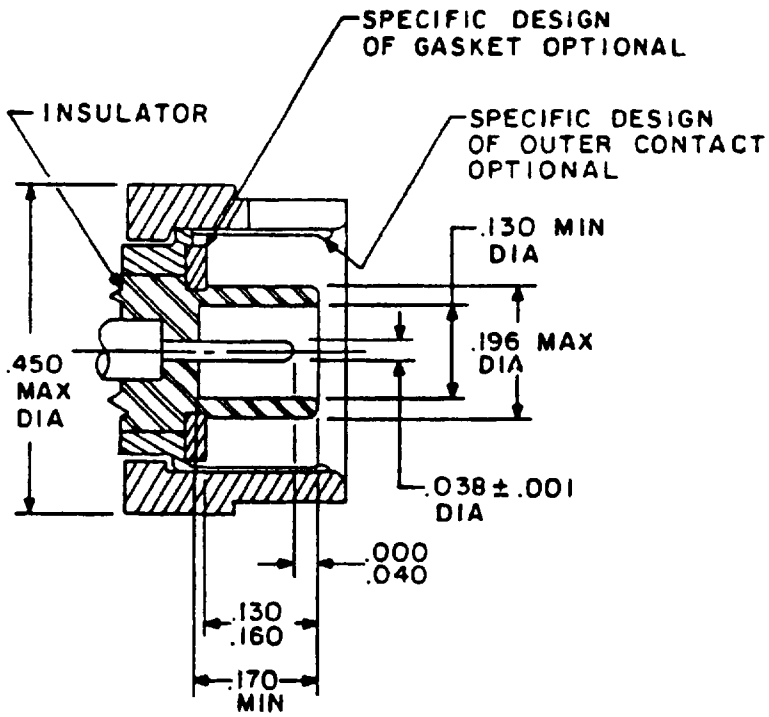
FIGURE 315-5. Interface, series LC, pin contact.



Inches	mm	Inches	mm	Inches	mm
.001	0.03	.250	6.35	.625	15.88
.002	0.05	.271	6.88	.750	19.05
.004	0.10	.293	7.44	.930	23.62
.0156	0.40	.305	7.45	1.055	26.84
.016	0.41	.375	9.52	1.088	27.64
.0625	1.59	.562	14.28	1.750	44.45

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

FIGURE 315-6. Interface, series LC, socket contact.

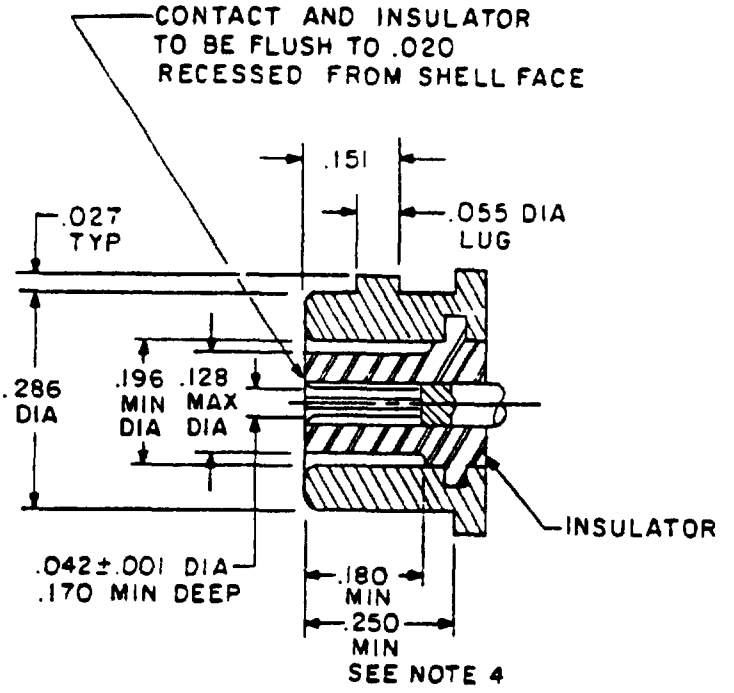


PLUG WITH PIN CONTACT

Inches	mm	Inches	mm	Inches	mm
.001	0.03	.042	1.07	.170	4.32
.020	0.51	.055	1.40	.180	4.57
.027	0.69	.128	3.25	.250	6.35
.030	0.76	.130	3.30	.286	7.26
.038	0.97	.151	3.84	.450	11.43
.040	1.02	.160	4.06		

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

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

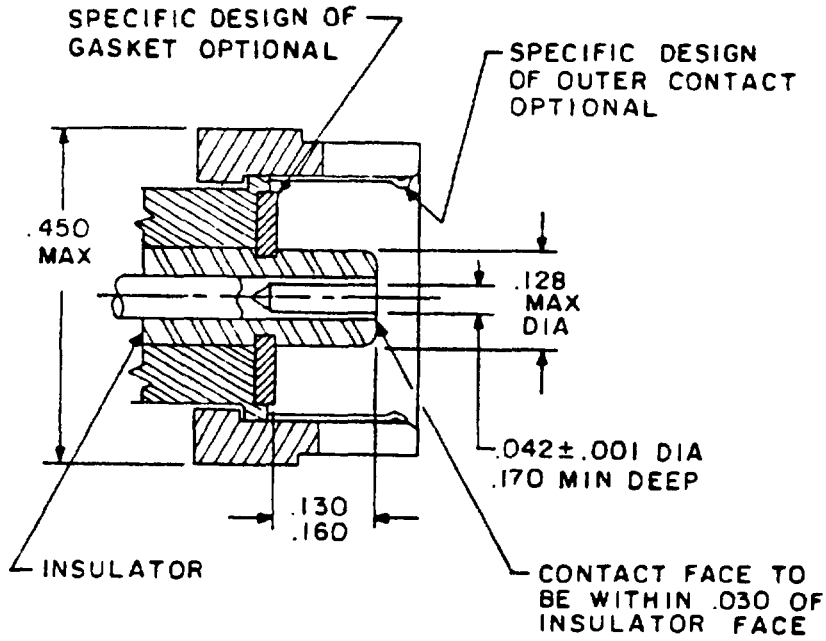


RECEPTACLE WITH SOCKET CONTACT

Inches	mm	Inches	mm	Incnes	mm
.001	0.03	.055	1.40	.180	4.57
.020	0.51	.100	2.54	.196	4.98
.027	0.69	.128	3.25	.250	6.35
.038	0.97	.130	3.30	.286	7.26
.040	1.02	.151	3.84	.450	11.43
.042	1.07	.170	4.32		

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

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

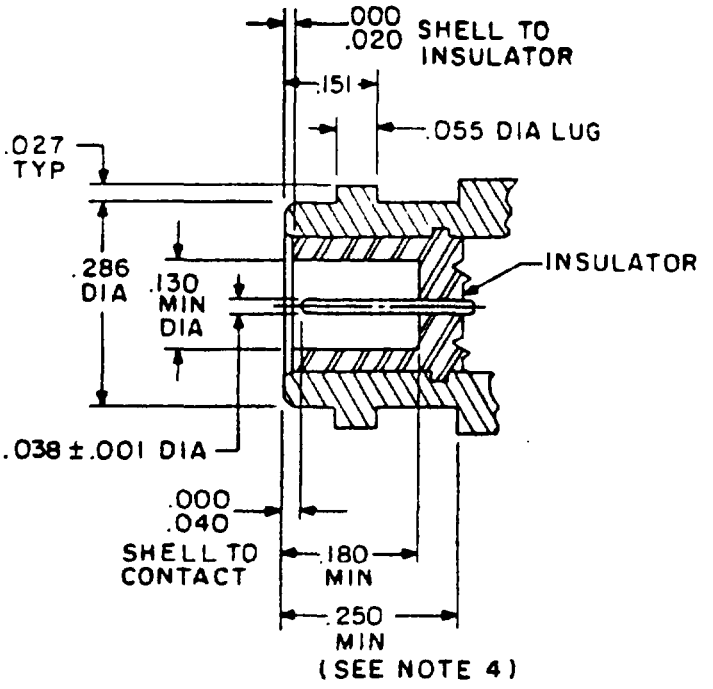


PLUG WITH SOCKET CONTACT

Inches	mm	Inches	mm	Inches	mm
.001	0.03	.055	1.40	.180	4.57
.020	0.51	.100	2.54	.196	4.98
.027	0.69	.128	3.25	.250	6.35
.038	0.97	.130	3.30	.286	7.26
.040	1.02	.151	3.84	.450	11.43
.042	1.07	.170	4.32		

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

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



RECEPTACLE WITH PIN CONTACT

Inches	mm	Inches	mm	Inches	mm
.001	0.03	.042	1.07	.170	4.32
.020	0.51	.055	1.40	.180	4.57
.027	0.69	.128	3.25	.250	6.35
.030	0.76	.130	3.30	.286	7.26
.038	0.97	.151	3.84	.450	11.43
.040	1.02	.160	4.06		

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

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

SECTION 300

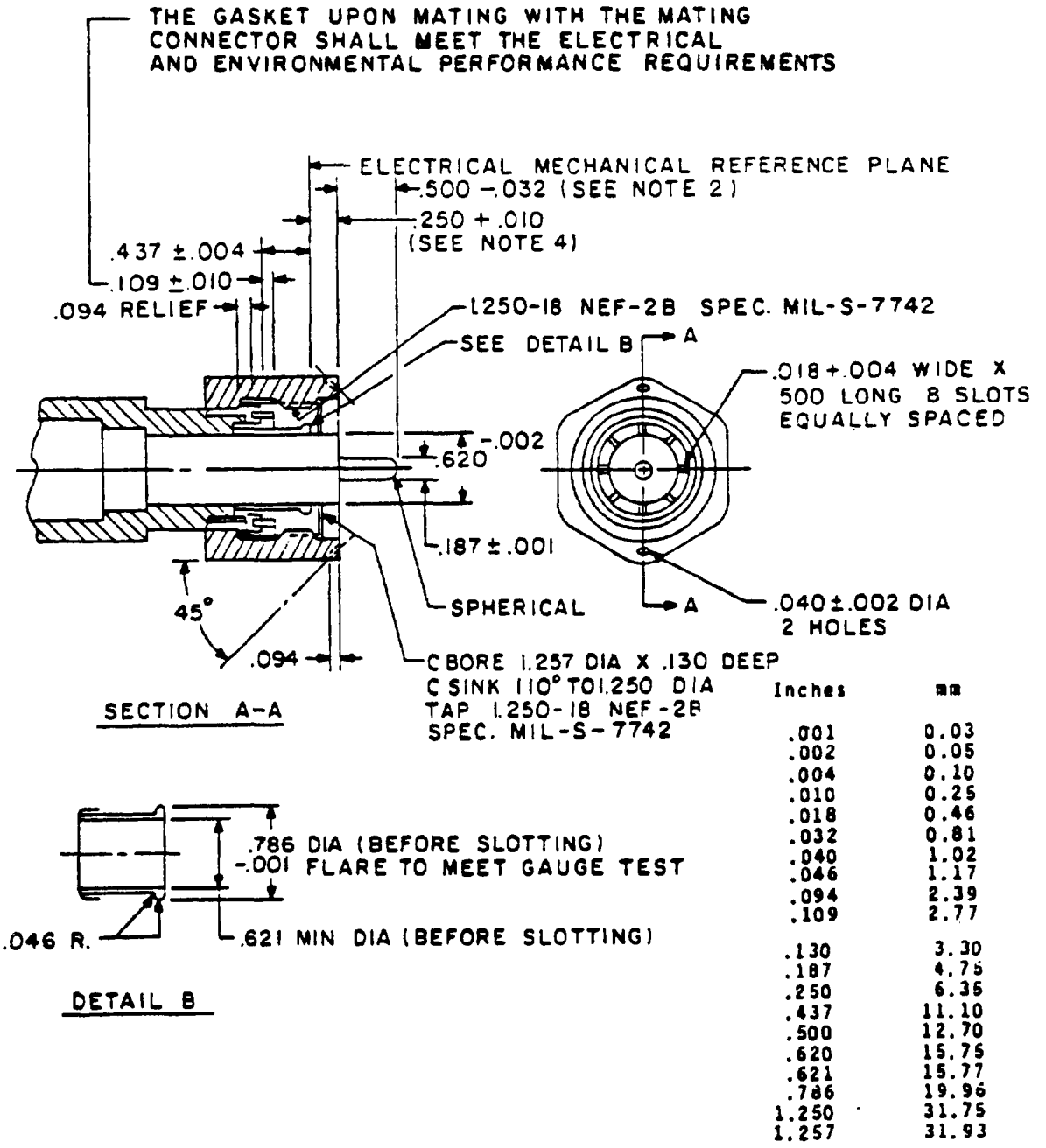
INTERFACE DIMENSIONS FOR MIL-C-3643

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

SECTION 300

INTERFACE DIMENSIONS FOR MIL-C-3643

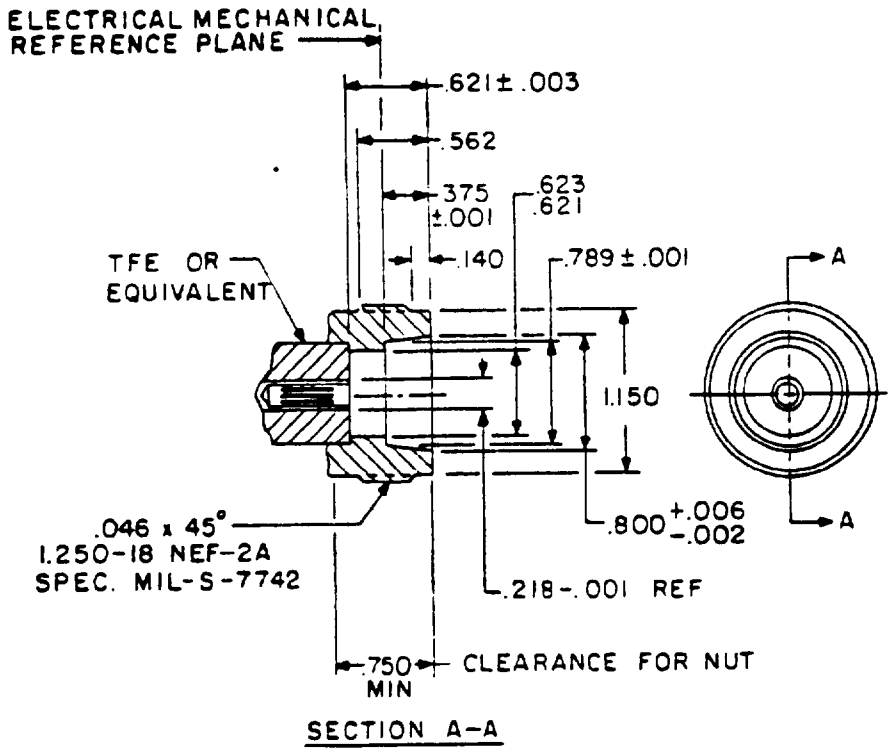
FIGURE 317-2. Interface, series HN, socket contact.



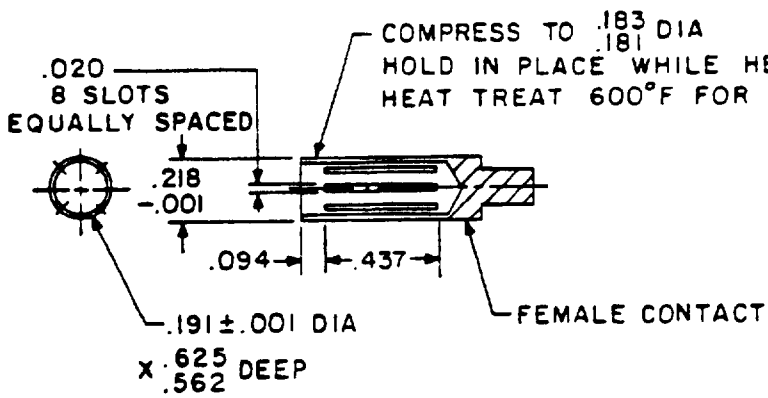
Inches	mm
.001	0.03
.002	0.05
.004	0.10
.010	0.25
.018	0.46
.032	0.81
.040	1.02
.046	1.17
.094	2.39
.109	2.77
.130	3.30
.187	4.75
.250	6.35
.437	11.10
.500	12.70
.620	15.75
.621	15.77
.786	19.96
1.250	31.75
1.257	31.93

NOTES:
1. Dimensions are in inches.
2. This dimension is from the tip of the center contact to the end of the dielectric.
3. Unless otherwise specified, all tolerances shall be ±.005 inch.
4. This dimension is from the end of the outer contact to the end of the dielectric.
5. This connector shall meet the gauge requirements as specified in MIL-C-26637.

FIGURE 318-1. Interface, series LT, no contact.



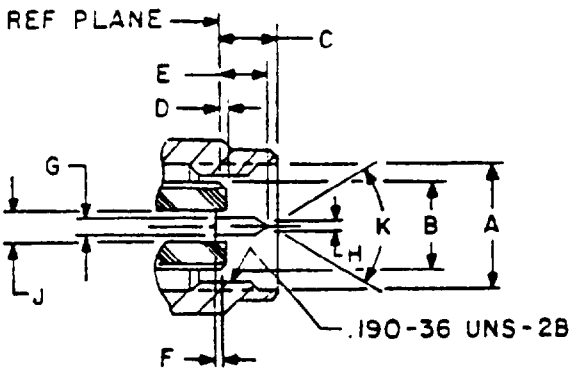
SECTION A-A



NOTES:
1. Dimensions are in inches.
2. All tolerances are ±.005 unless otehrwise specified.
3. This connector shall meet the gauge requirements as specified in MIL-C-26637.

Inches	mm
.001	0.03
.002	0.05
.003	0.08
.006	0.15
.046	1.17
.094	2.39
.140	3.56
.181	4.60
.183	4.65
.191	4.85
.218	5.54
.375	9.53
.437	11.10
.562	14.27
.621	15.77
.623	15.82
.625	15.88
.750	19.05
.789	20.04
.800	20.32
1.150	29.21
1.250	31.75

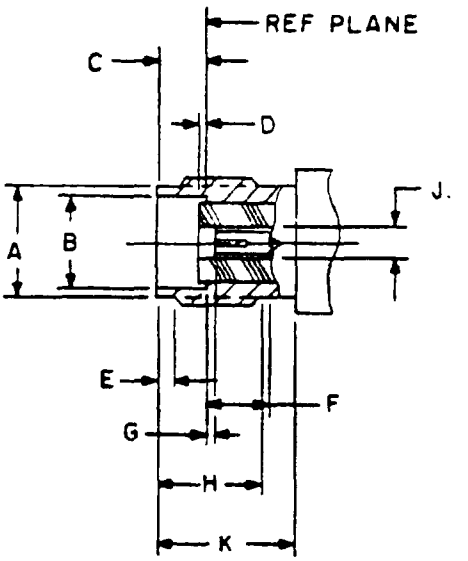
FIGURE 318-2. Interface, series LT, socket contact.



Ltr	Minimum		Maximum	
	Inches	mm*	Inches	mm*
A dia	.196	4.98	.202	5.13
B dia	.124	3.15	.1258	3.221
C	.100	2.54	.133	3.38
D	-.005	-0.13	.002	0.05
E	.060	1.27	.065	1.65
F	.000	0.00	.010	0.25
G dia	.0195	0.495	.0208	0.523
H dia	.000	0.00	.010	0.25
J dia	.0335	0.851	.0348	0.884
K	70°		95°	

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

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



(SEE NOTE 3)

Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.153	3.89	.160	4.06
B	.127	3.23	.130	3.30
C	.075	1.90	.077	1.96
D	-.005	-0.13	.002	0.05
E	.020	0.51	.040	1.02
F	.115	2.92	---	---
G	.000	0.00	.010	0.25
H	.190	4.83	.210	5.33
J	.0335	0.851	.0348	0.884
K	.230	5.84	---	---

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Clearance for mating connector coupling nut.

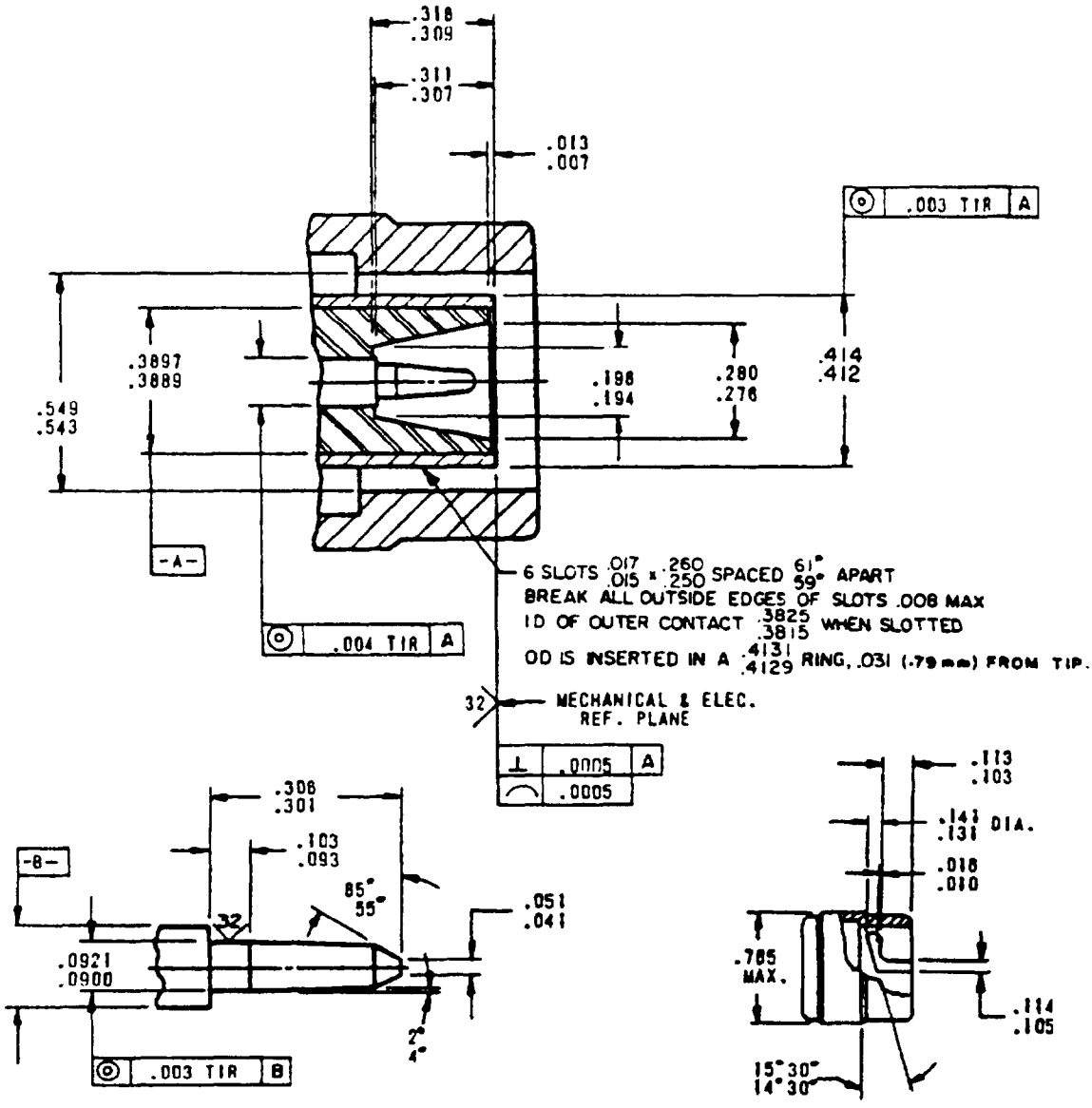
FIGURE 319-2. Interface, series SSMA, socket contact.

SECTION 400

TEST CONNECTOR

Interface Dimensions for MIL-C-39012, MIL-A-55339, and MIL-C-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 QMC
Section 410	Series QSC

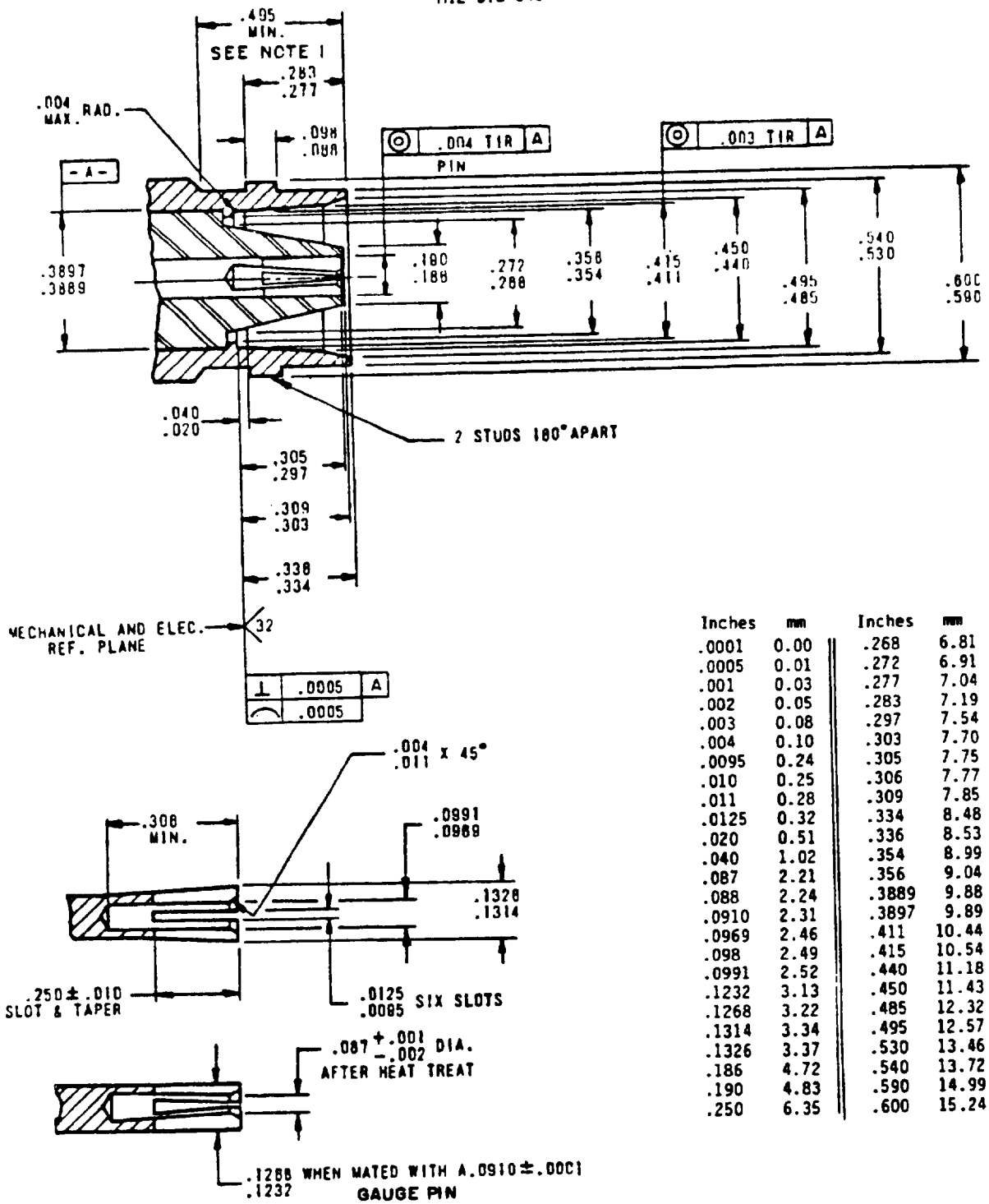


PIN DETAIL

SLOT DETAIL

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.0005	0.01	.051	1.30	.198	5.03	.3815	9.69
.003	0.08	.0900	2.29	.250	6.35	.3825	9.72
.004	0.10	.0921	2.34	.260	6.60	.3889	9.88
.007	0.18	.093	2.36	.276	7.01	.3897	9.90
.008	0.20	.103	2.62	.280	7.11	.412	10.46
.010	0.25	.105	2.67	.301	7.65	.4129	10.49
.013	0.33	.113	2.87	.306	7.77	.4131	10.49
.015	0.38	.114	2.90	.307	7.80	.414	10.52
.016	0.41	.131	3.33	.309	7.85	.543	13.79
.017	0.43	.141	3.58	.311	7.90	.549	13.94
.041	1.04	.194	4.93	.318	8.08	.765	19.43

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

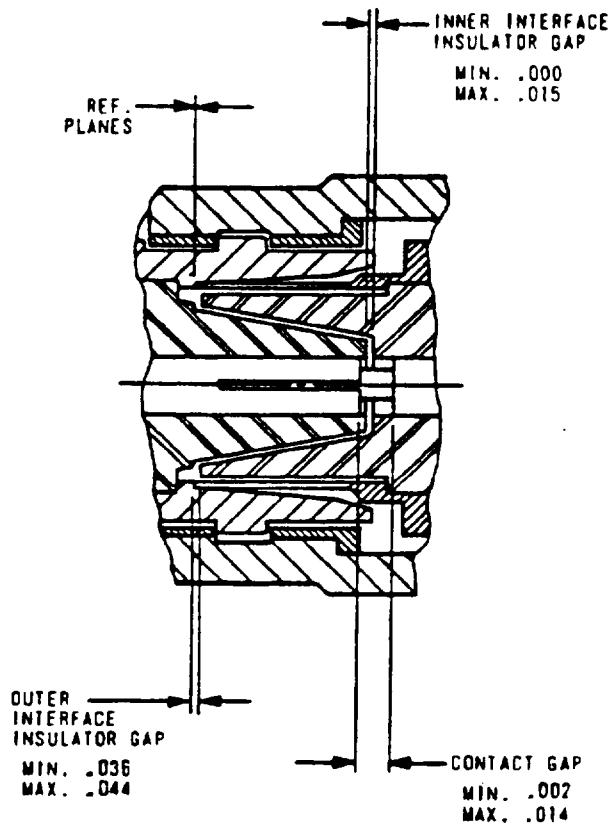


DETAIL OF INNER CONTACT

Inches	mm	Inches	mm
.0001	0.00	.268	6.81
.0005	0.01	.272	6.91
.001	0.03	.277	7.04
.002	0.05	.283	7.19
.003	0.08	.297	7.54
.004	0.10	.303	7.70
.0095	0.24	.305	7.75
.010	0.25	.306	7.77
.011	0.28	.309	7.85
.0125	0.32	.334	8.48
.020	0.51	.336	8.53
.040	1.02	.354	8.99
.087	2.21	.356	9.04
.088	2.24	.3889	9.88
.0910	2.31	.3897	9.89
.0969	2.46	.411	10.44
.098	2.49	.415	10.54
.0991	2.52	.440	11.18
.1232	3.13	.450	11.43
.1268	3.22	.485	12.32
.1314	3.34	.495	12.57
.1326	3.37	.530	13.46
.186	4.72	.540	13.72
.190	4.83	.590	14.99
.250	6.35	.600	15.24

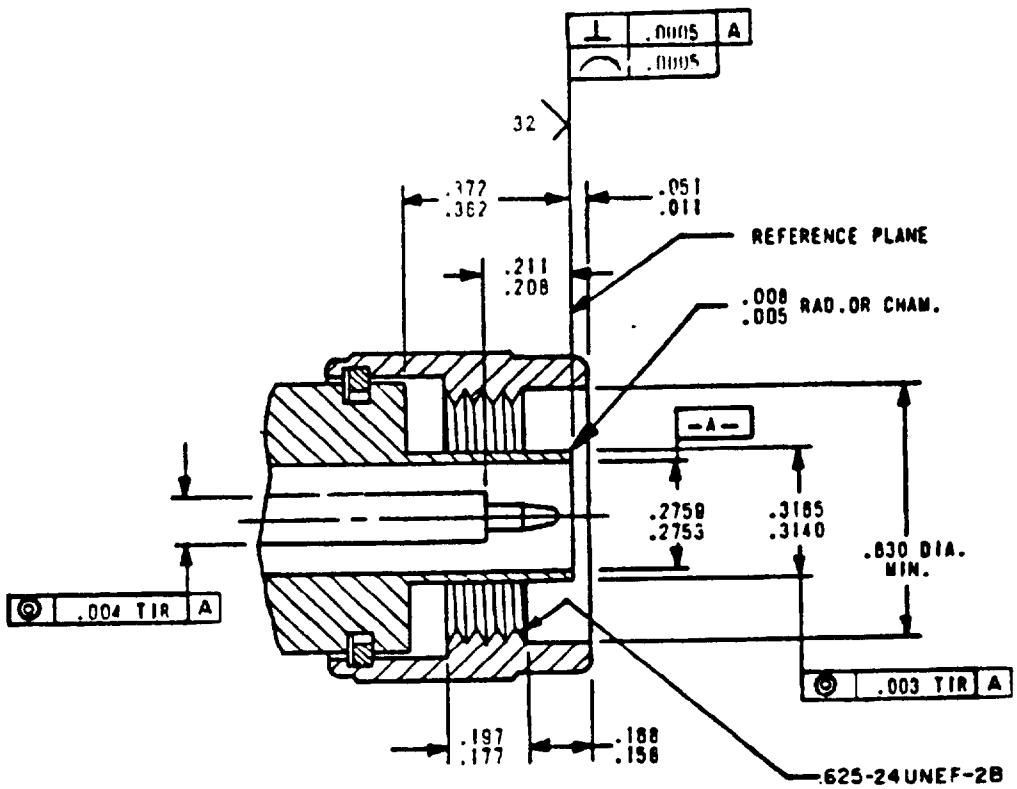
NOTE: Clearance for mating connector coupling nut.

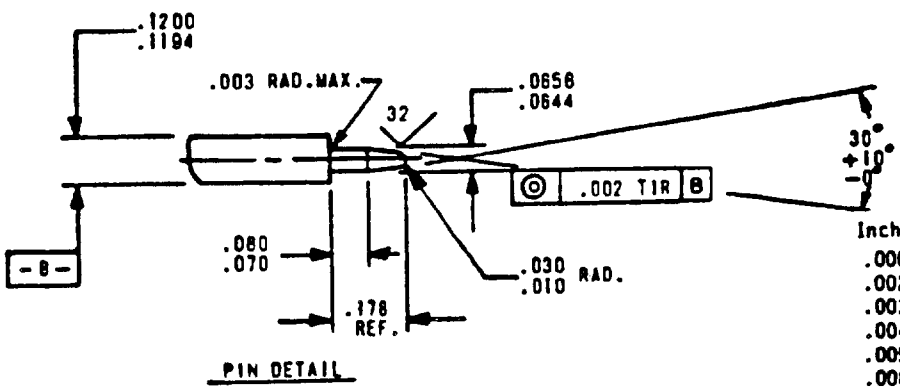
FIGURE 401-2. Interface test connector, series C, socket contact.



Inches	mm
.002	0.05
.014	0.36
.015	0.38
.036	0.91
.044	1.12

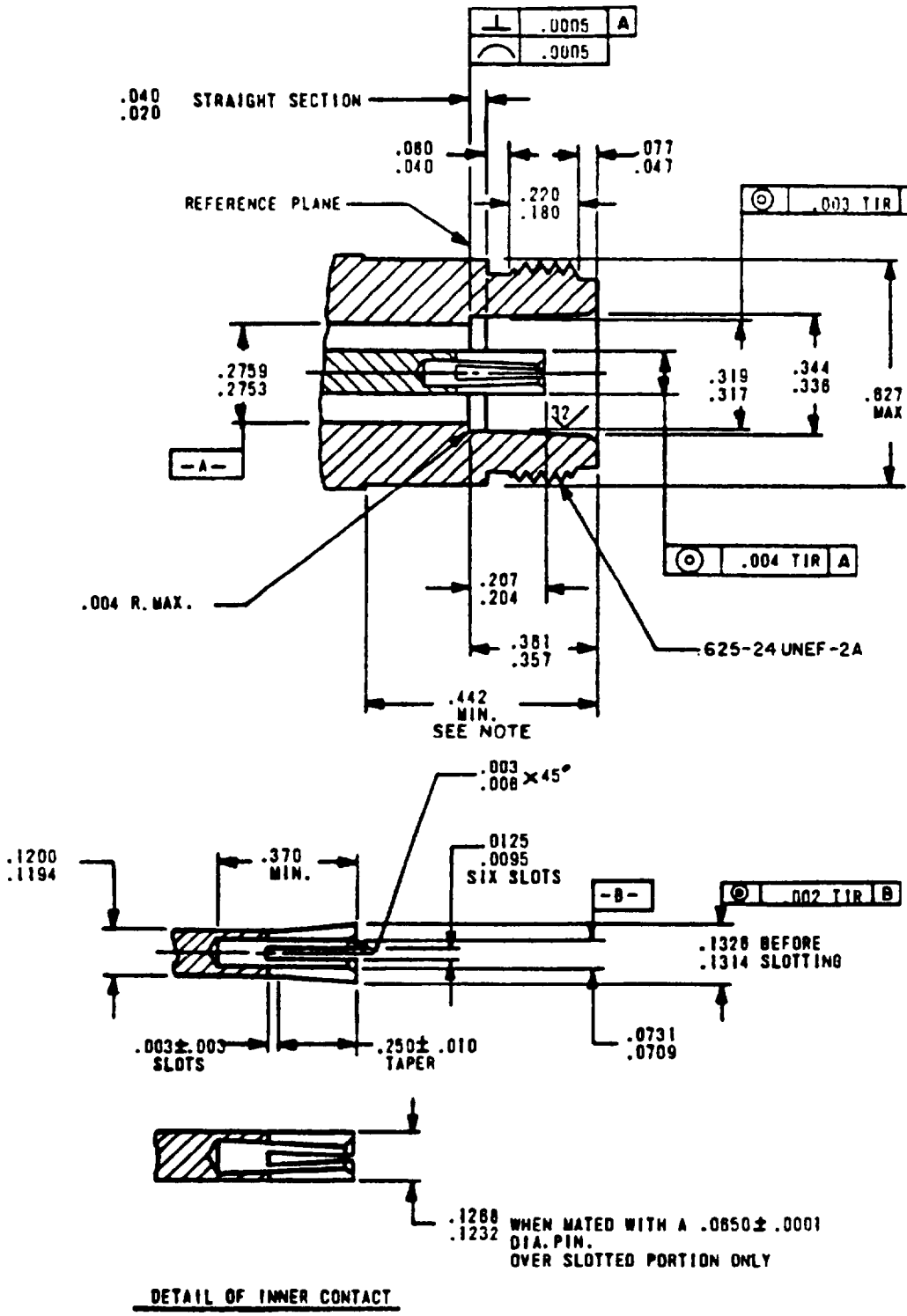
FIGURE 401-3. Interface, mated test connector, series C.





Inches	mm	Inches	mm
.0005	0.01	.1200	3.05
.002	0.05	.158	4.01
.003	0.08	.168	4.27
.004	0.10	.177	4.50
.005	0.13	.178	4.52
.008	0.20	.197	5.00
.010	0.25	.208	5.28
.011	0.28	.211	5.36
.030	0.76	.2753	6.99
.051	1.30	.2759	7.01
.0644	1.64	.3140	7.98
.0656	1.67	.3165	8.04
.070	1.78	.362	9.19
.080	2.03	.372	9.45
.1194	3.03	.625	15.88
		.630	16.00

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

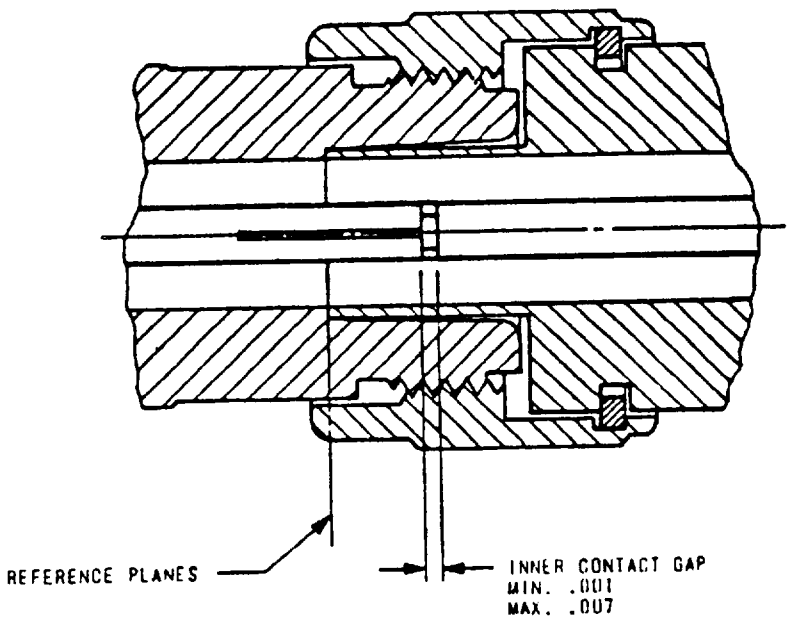


DETAIL OF INNER CONTACT

NOTE: Clearance for mating connector coupling nut.

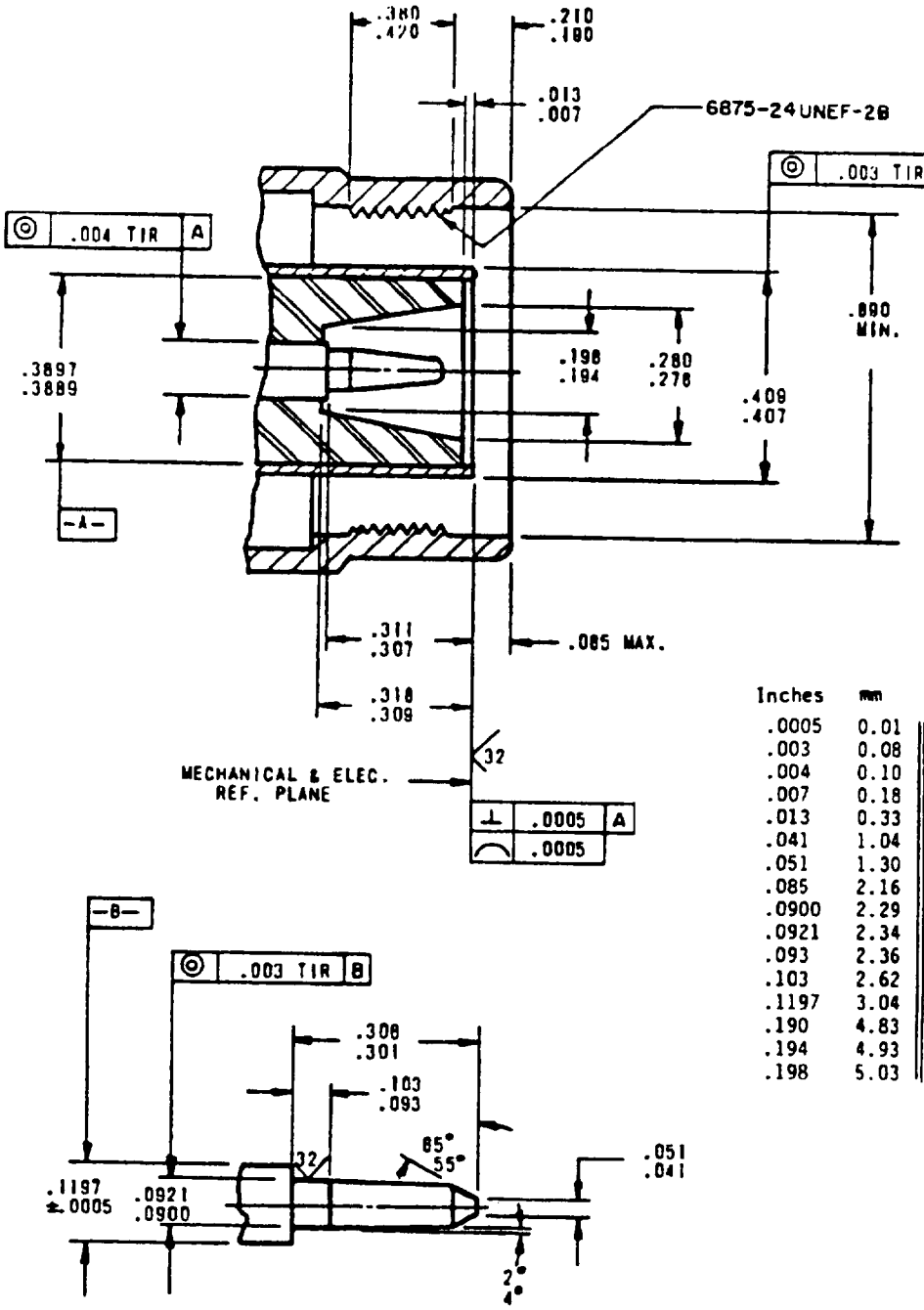
Inches	mm
.0001	0.00
.0005	0.01
.002	0.05
.003	0.08
.004	0.10
.006	0.15
.0095	0.24
.010	0.25
.0125	0.32
.020	0.51
.040	1.02
.047	1.19
.0650	1.65
.0709	1.80
.0731	1.86
.077	1.96
.080	2.03
.1194	3.03
.1200	3.05
.1232	3.13
.1268	3.22
.1314	3.34
.1326	3.37
.180	4.57
.204	5.18
.207	5.26
.220	5.59
.250	6.35
.2753	6.99
.2759	7.01
.317	8.05
.319	8.10
.336	8.53
.344	8.74
.357	9.07
.361	9.17
.370	9.40
.442	11.23
.625	15.88
.627	15.93

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



Inches	mm
.001	0.03
.007	0.18

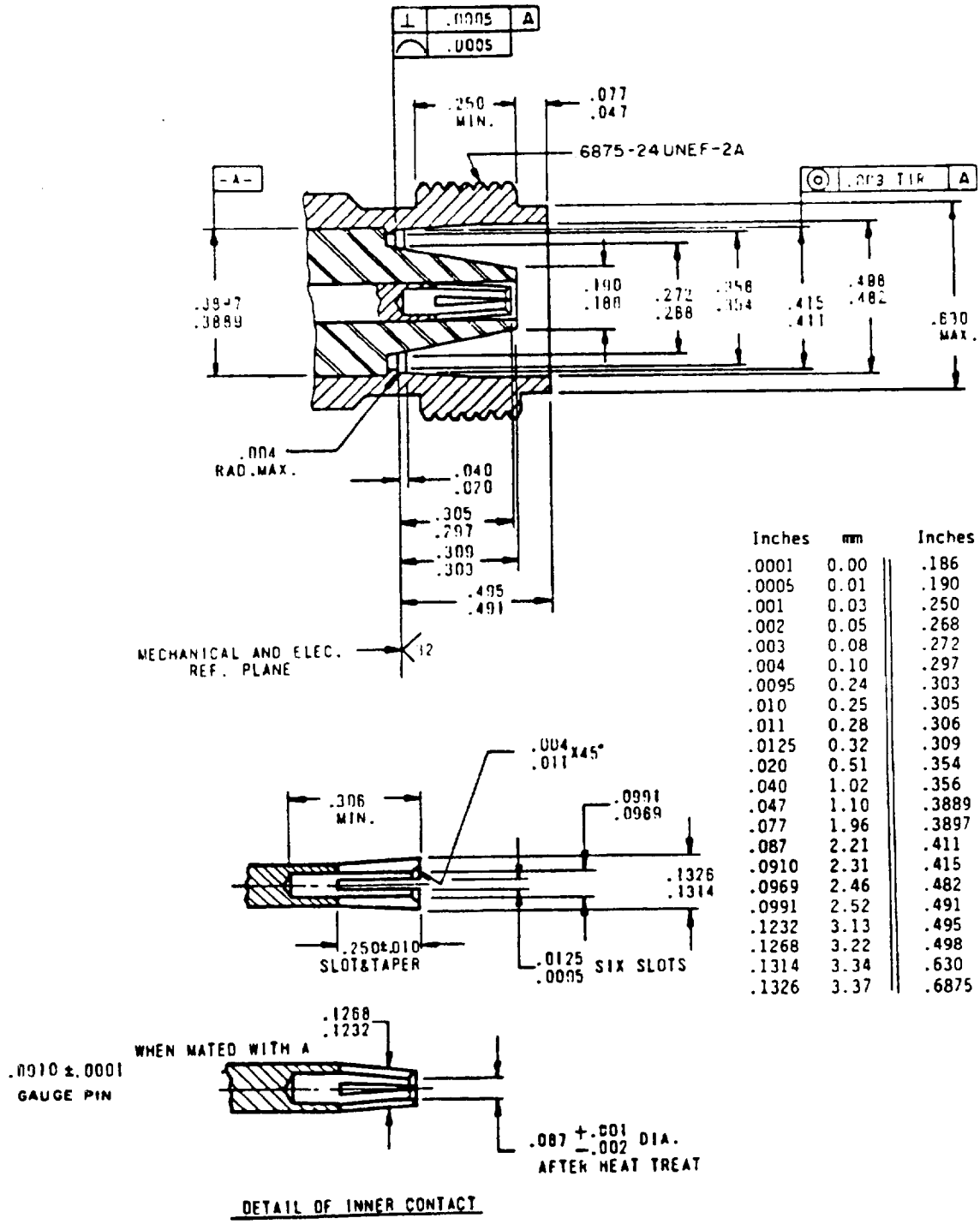
FIGURE 402-3. Interface, mated test connector, series N.



PIN DETAIL

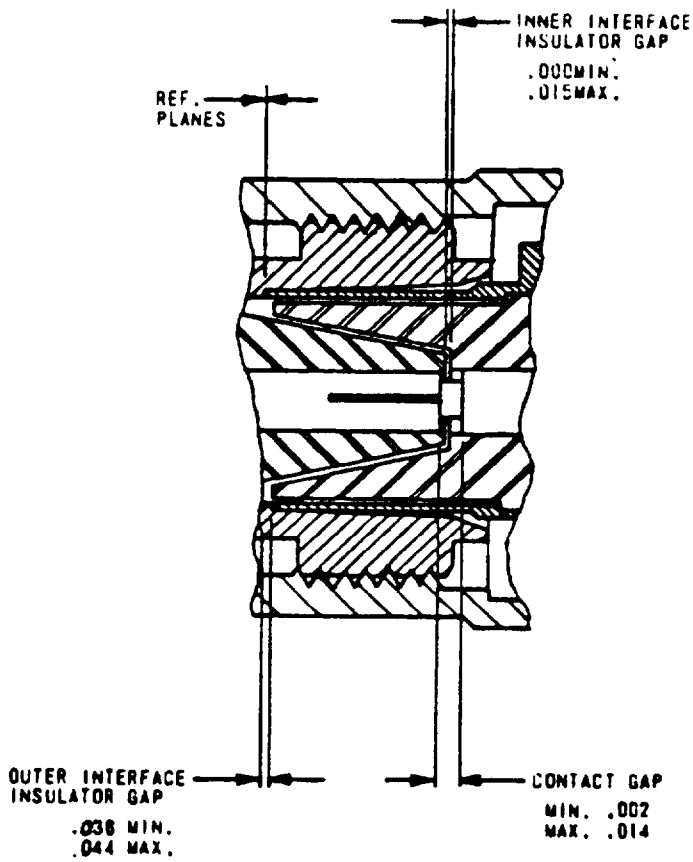
Inches	mm	Inches	mm
.0005	0.01	.210	5.33
.003	0.08	.276	7.01
.004	0.10	.280	7.11
.007	0.18	.301	7.64
.013	0.33	.306	7.77
.041	1.04	.307	7.80
.051	1.30	.309	7.85
.085	2.16	.311	7.90
.0900	2.29	.318	8.08
.0921	2.34	.380	9.65
.093	2.36	.3889	9.88
.103	2.62	.3897	9.90
.1197	3.04	.407	10.34
.190	4.83	.409	10.39
.194	4.93	.420	10.67
.198	5.03	.6875	17.46
		.690	17.53

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



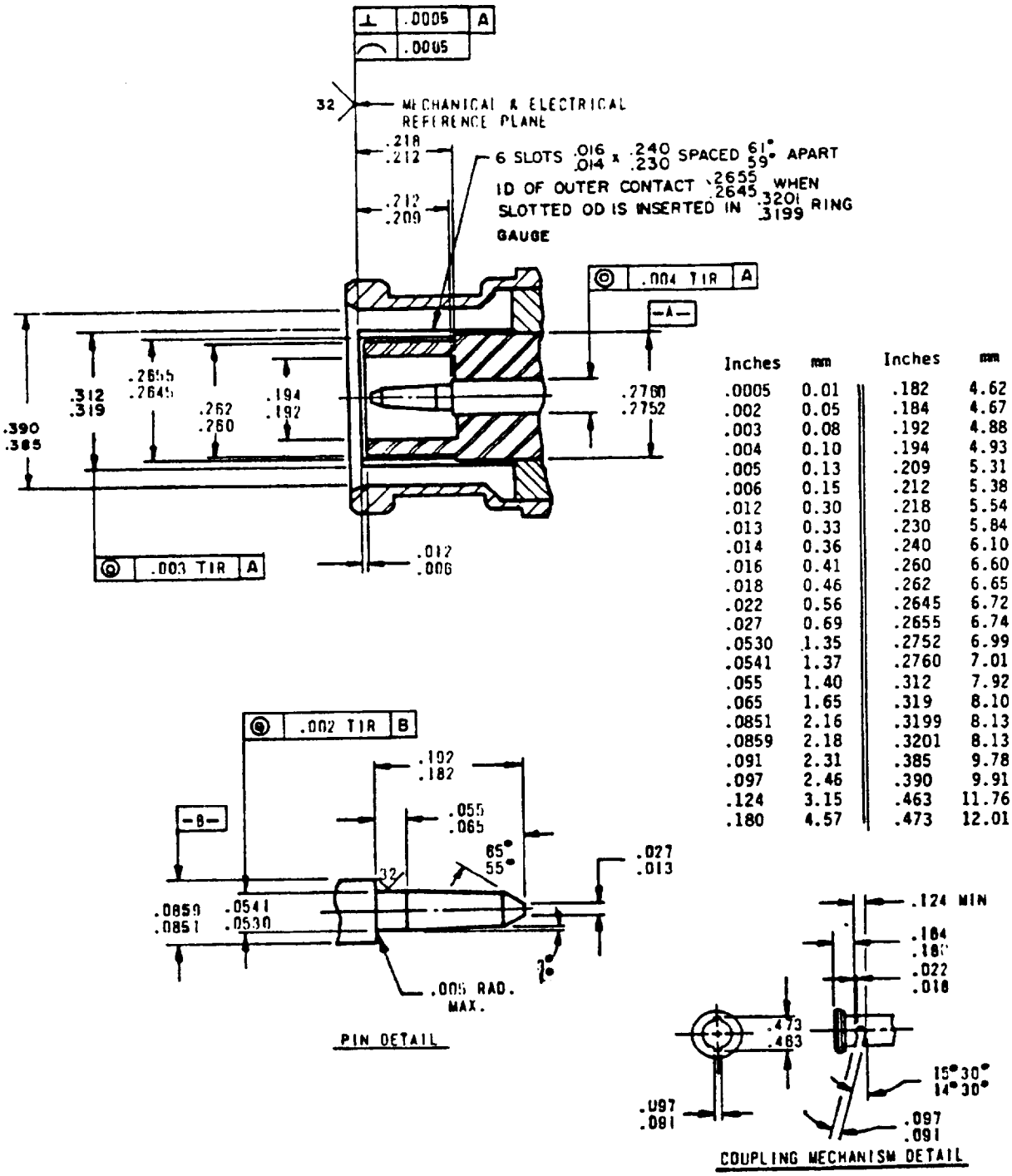
Inches	mm	Inches	mm
.0001	0.00	.186	4.72
.0005	0.01	.190	4.83
.001	0.03	.250	6.35
.002	0.05	.268	6.81
.003	0.08	.272	6.91
.004	0.10	.297	7.54
.0095	0.24	.303	7.70
.010	0.25	.305	7.75
.011	0.28	.306	7.77
.0125	0.32	.309	7.85
.020	0.51	.354	8.99
.040	1.02	.356	9.04
.047	1.10	.3889	9.88
.077	1.96	.3897	9.90
.087	2.21	.411	10.44
.0910	2.31	.415	10.54
.0969	2.46	.482	12.24
.0991	2.52	.491	12.47
.1232	3.13	.495	12.57
.1268	3.22	.498	12.65
.1314	3.34	.630	16.00
.1326	3.37	.6875	17.46

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



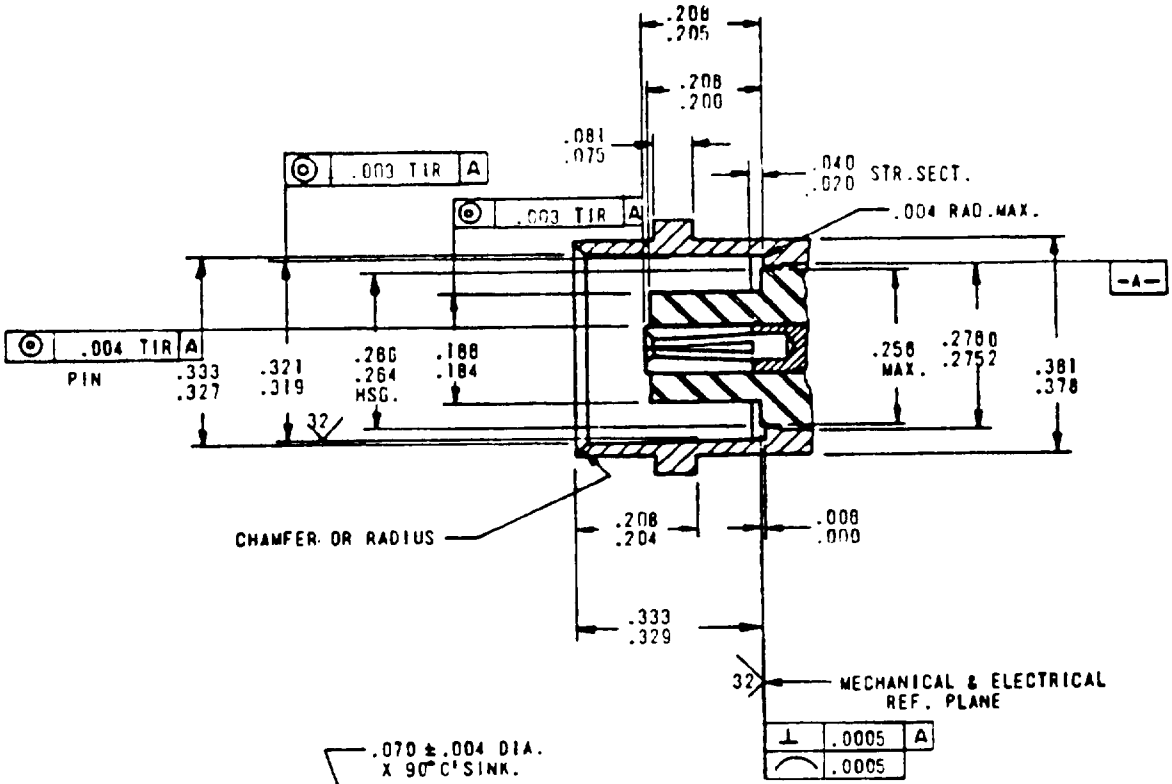
Inches	mm
.002	0.05
.014	0.36
.015	0.38
.036	0.91
.044	1.12

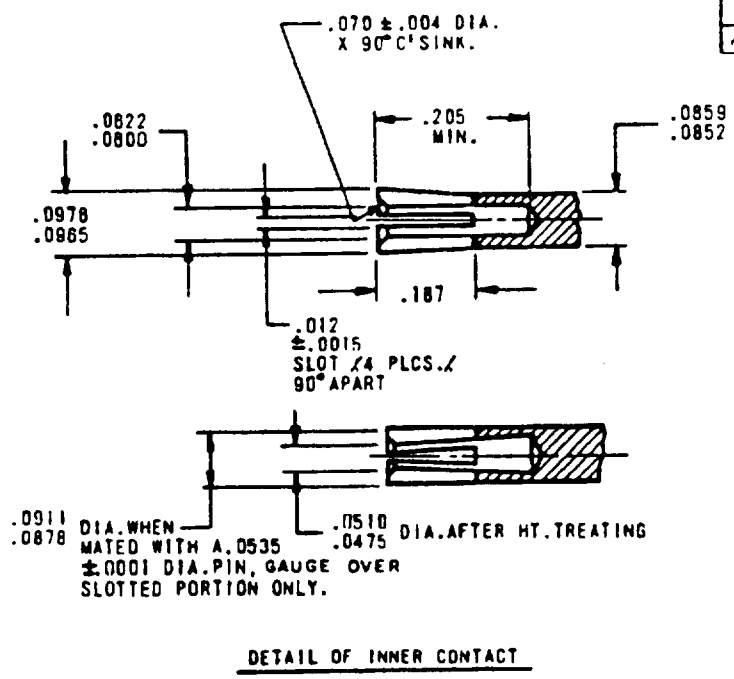
FIGURE 403-3. Interface, mated test connector, series SC.



Inches	mm	Inches	mm
.0005	0.01	.182	4.62
.002	0.05	.184	4.67
.003	0.08	.192	4.88
.004	0.10	.194	4.93
.005	0.13	.209	5.31
.006	0.15	.212	5.38
.012	0.30	.218	5.54
.013	0.33	.230	5.84
.014	0.36	.240	6.10
.016	0.41	.260	6.60
.018	0.46	.262	6.65
.022	0.56	.2645	6.72
.027	0.69	.2655	6.74
.0530	1.35	.2752	6.99
.0541	1.37	.2760	7.01
.055	1.40	.312	7.92
.065	1.65	.319	8.10
.0851	2.16	.3199	8.13
.0859	2.18	.3201	8.13
.091	2.31	.385	9.78
.097	2.46	.390	9.91
.124	3.15	.463	11.76
.180	4.57	.473	12.01

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

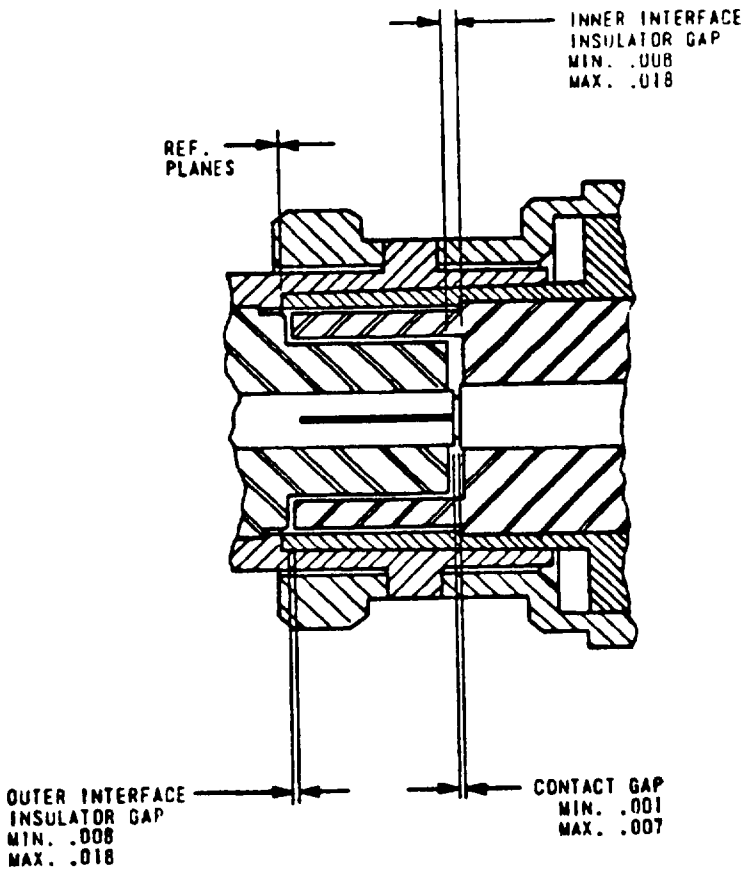




DETAIL OF INNER CONTACT

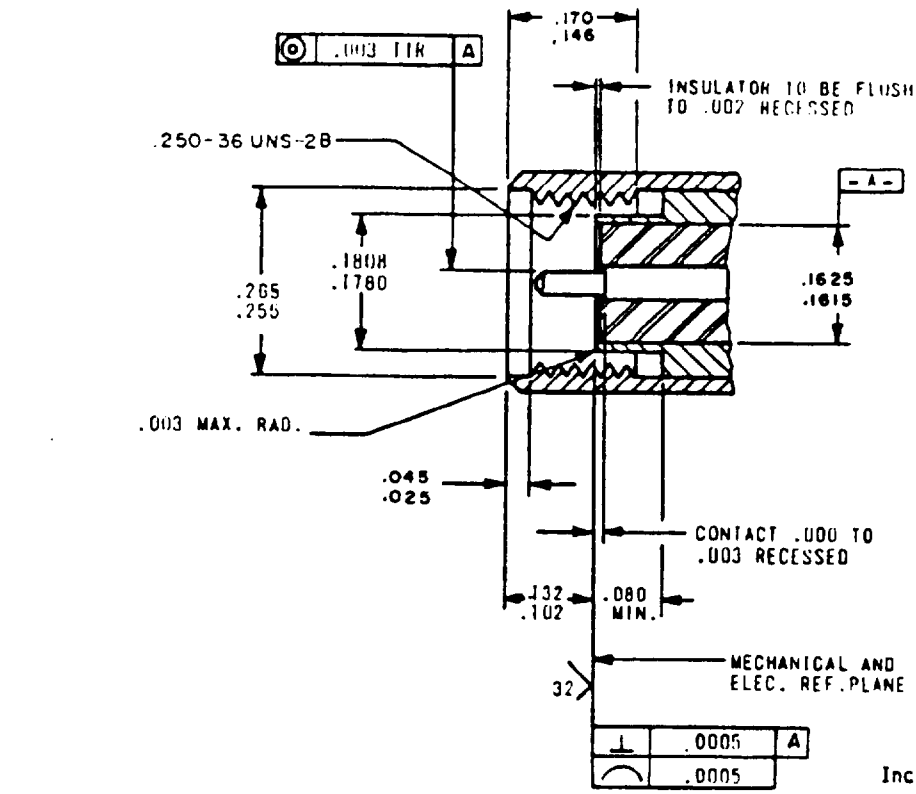
Inches	mm	Inches	mm
.0001	0.00	.0965	2.45
.0005	0.01	.0976	2.48
.0015	0.04	.184	4.67
.003	0.08	.186	4.72
.004	0.10	.187	4.75
.006	0.15	.200	5.08
.012	0.30	.204	5.18
.020	0.51	.205	5.21
.040	1.02	.206	5.23
.0475	1.21	.208	5.28
.0510	1.30	.256	6.50
.0535	1.36	.264	6.71
.0600	1.52	.266	6.76
.0622	1.58	.2752	6.99
.070	1.78	.2760	7.01
.075	1.91	.319	8.10
.081	2.00	.321	8.15
.0852	2.16	.327	8.31
.0859	2.18	.329	8.36
.0878	2.23	.333	8.46
.0911	2.31	.378	9.60
		.381	9.68

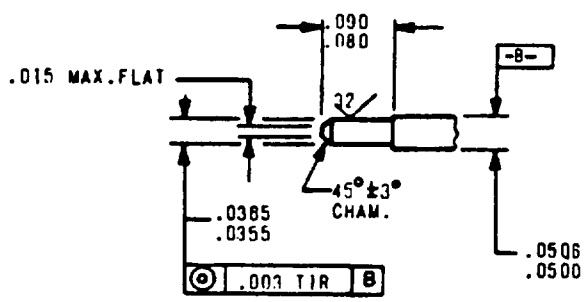
FIGURE 404-2. Interface, test connector, series BNC, socket contact.



Inches	mm
.001	0.03
.006	0.15
.007	0.18
.018	0.46

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

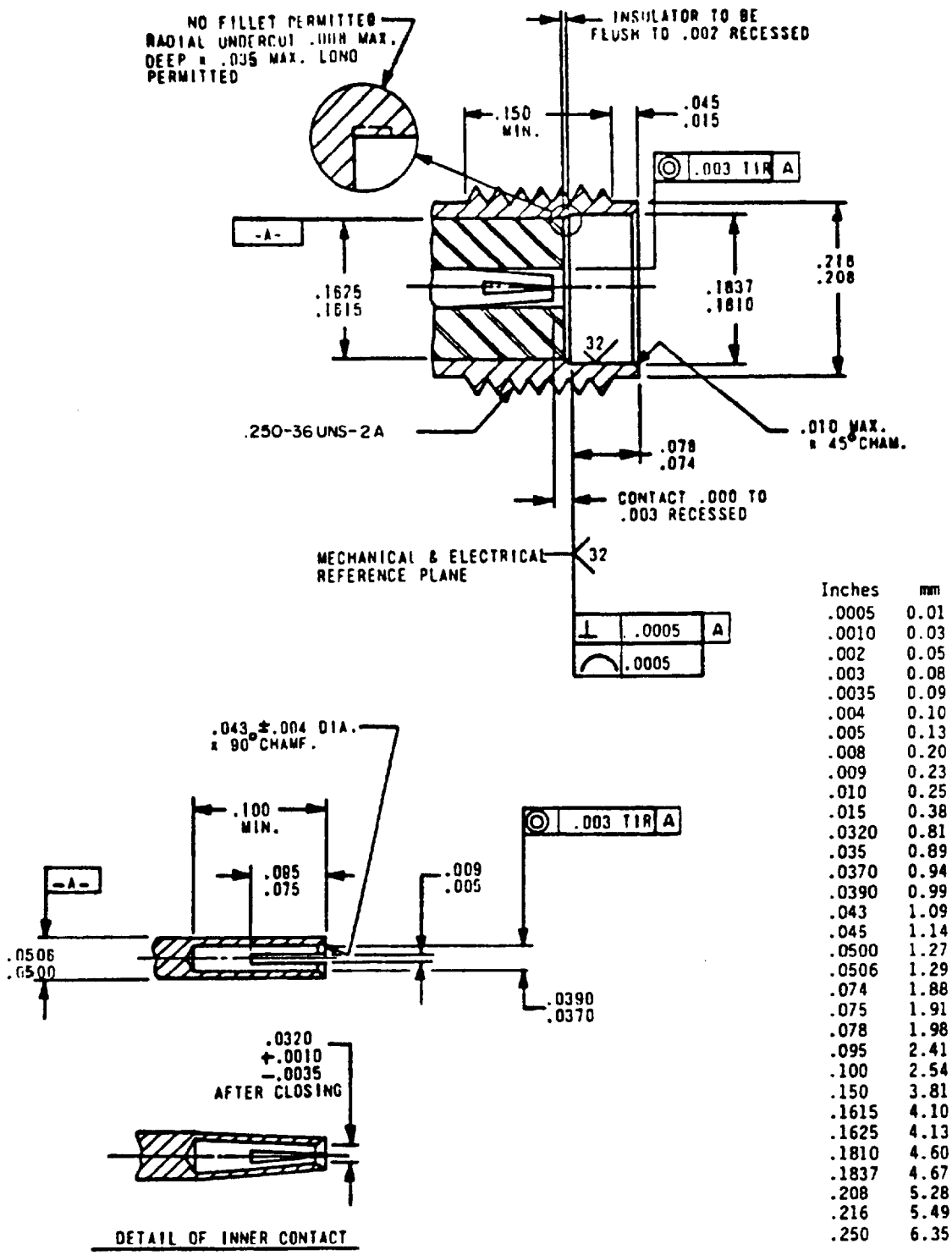




DETAIL OF INNER CONTACT

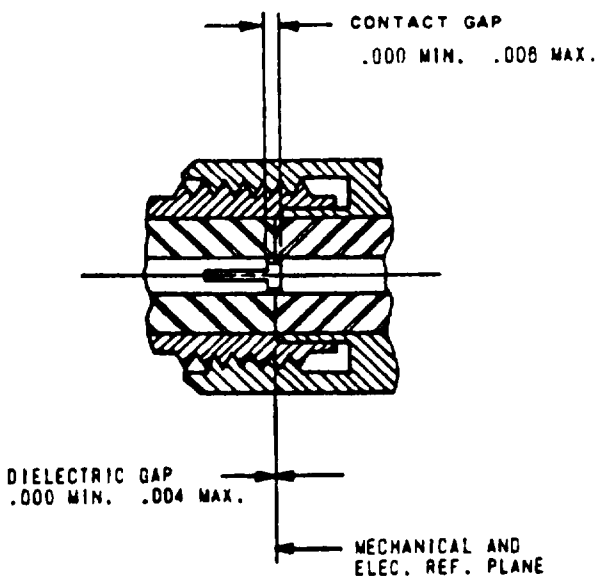
Inches	mm
.0005	0.01
.002	0.05
.003	0.08
.015	0.38
.025	0.64
.0355	0.90
.0365	0.93
.045	1.14
.0500	1.27
.0506	1.29
.080	2.03
.090	2.29
.102	2.59
.132	3.35
.146	3.71
.1615	4.10
.1625	4.13
.170	4.32
.1780	4.52
.1808	4.59
.250	6.35
.255	6.48
.265	6.73

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



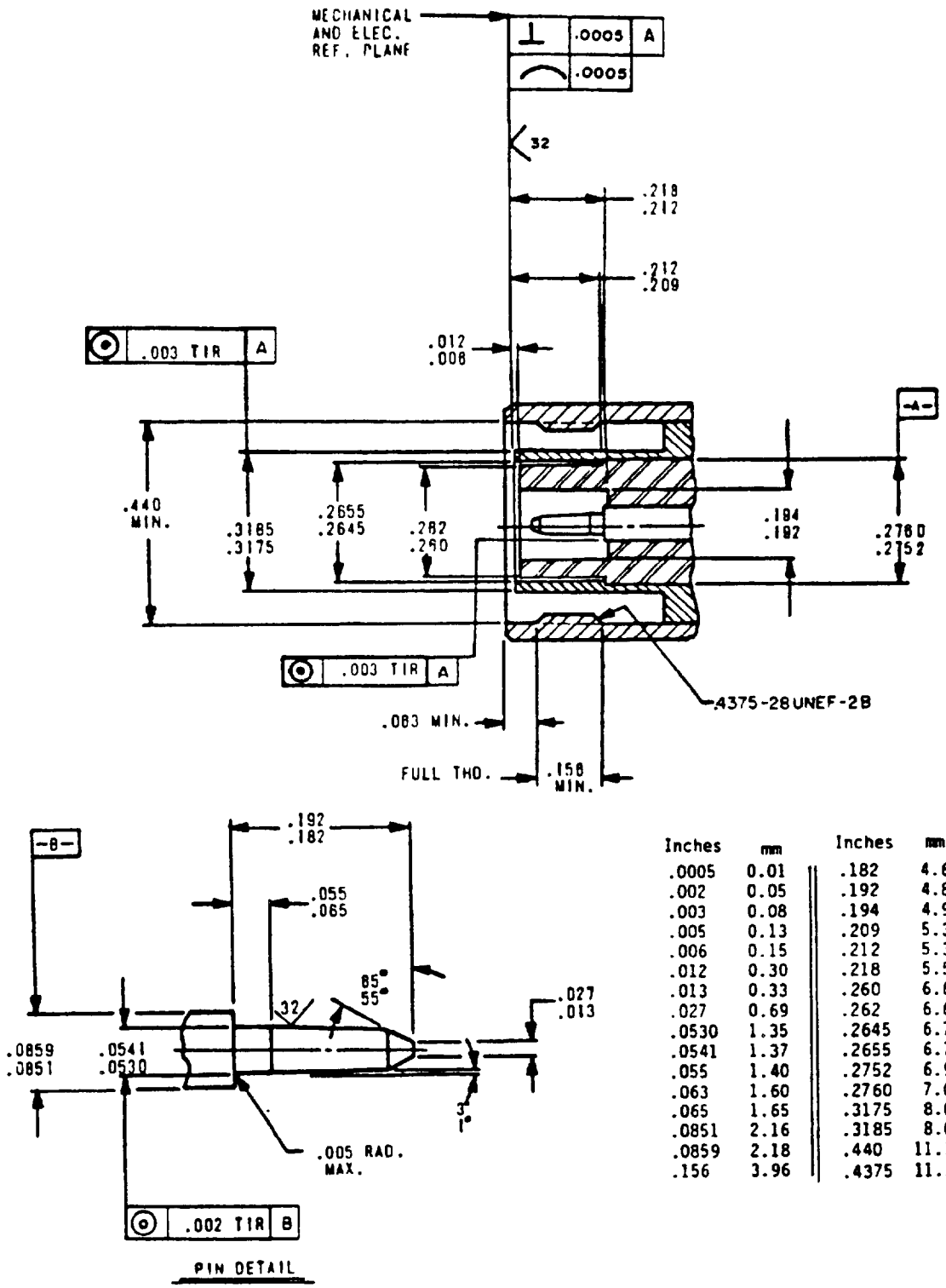
Inches	mm
.0005	0.01
.0010	0.03
.002	0.05
.003	0.08
.0035	0.09
.004	0.10
.005	0.13
.008	0.20
.009	0.23
.010	0.25
.015	0.38
.0320	0.81
.035	0.89
.0370	0.94
.0390	0.99
.043	1.09
.045	1.14
.0500	1.27
.0506	1.29
.074	1.88
.075	1.91
.078	1.98
.095	2.41
.100	2.54
.150	3.81
.1615	4.10
.1625	4.13
.1810	4.60
.1837	4.67
.208	5.28
.216	5.49
.250	6.35

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



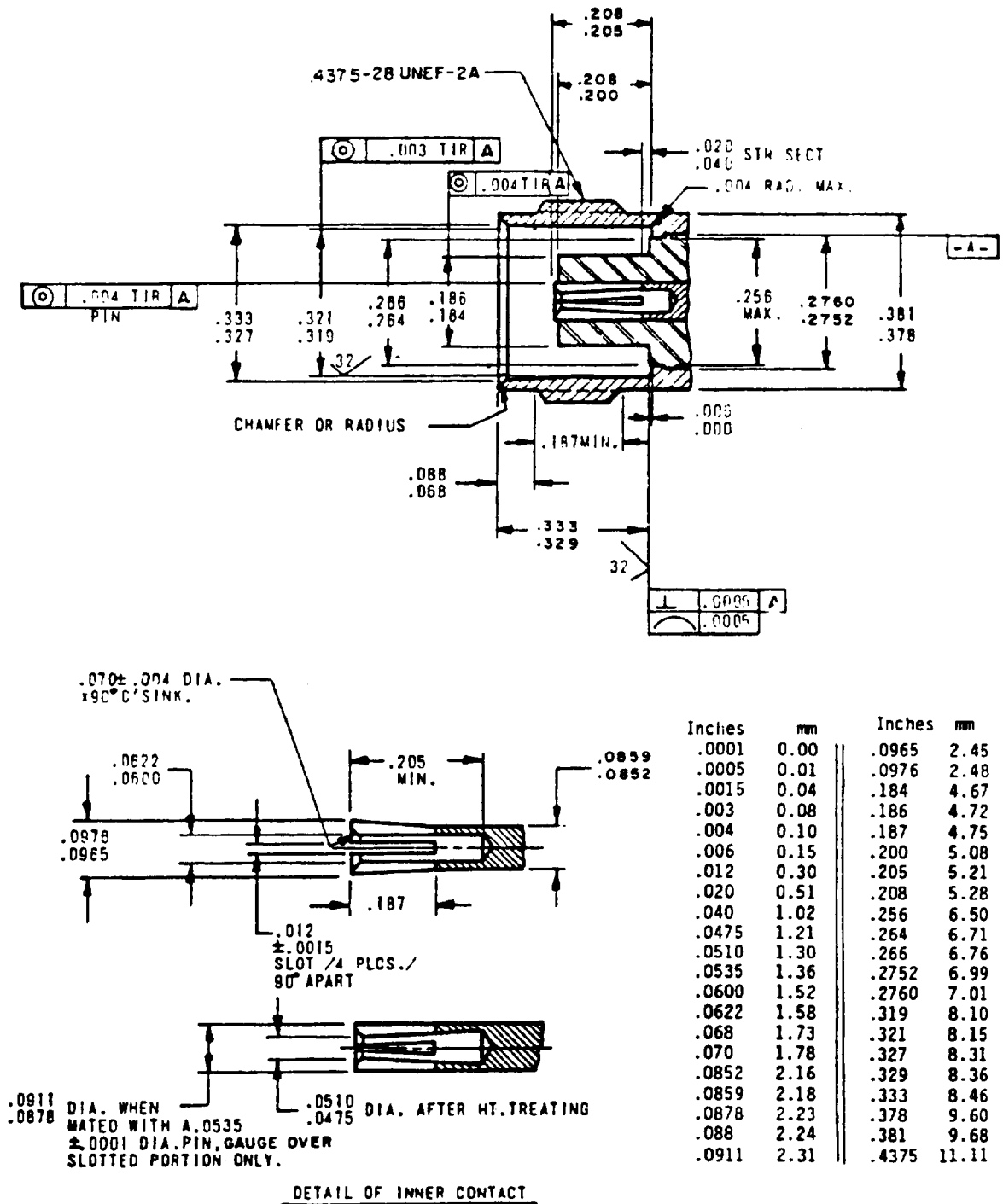
Inches	mm
.004	0.10
.006	0.15

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



Inches	mm	Inches	mm
.0005	0.01	.182	4.62
.002	0.05	.192	4.88
.003	0.08	.194	4.93
.005	0.13	.209	5.31
.006	0.15	.212	5.38
.012	0.30	.218	5.54
.013	0.33	.260	6.60
.027	0.69	.262	6.65
.0530	1.35	.2645	6.72
.0541	1.37	.2655	6.74
.055	1.40	.2752	6.99
.063	1.60	.2760	7.01
.065	1.65	.3175	8.06
.0851	2.16	.3185	8.09
.0859	2.18	.440	11.18
.156	3.96	.4375	11.11

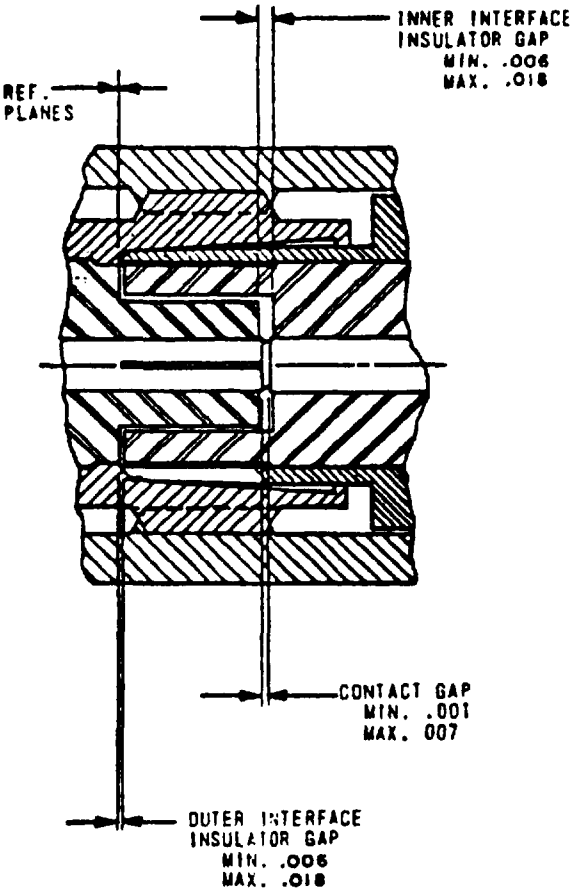
FIGURE 406-1. Interface, test connector, series TNC, pin contact.



DETAIL OF INNER CONTACT

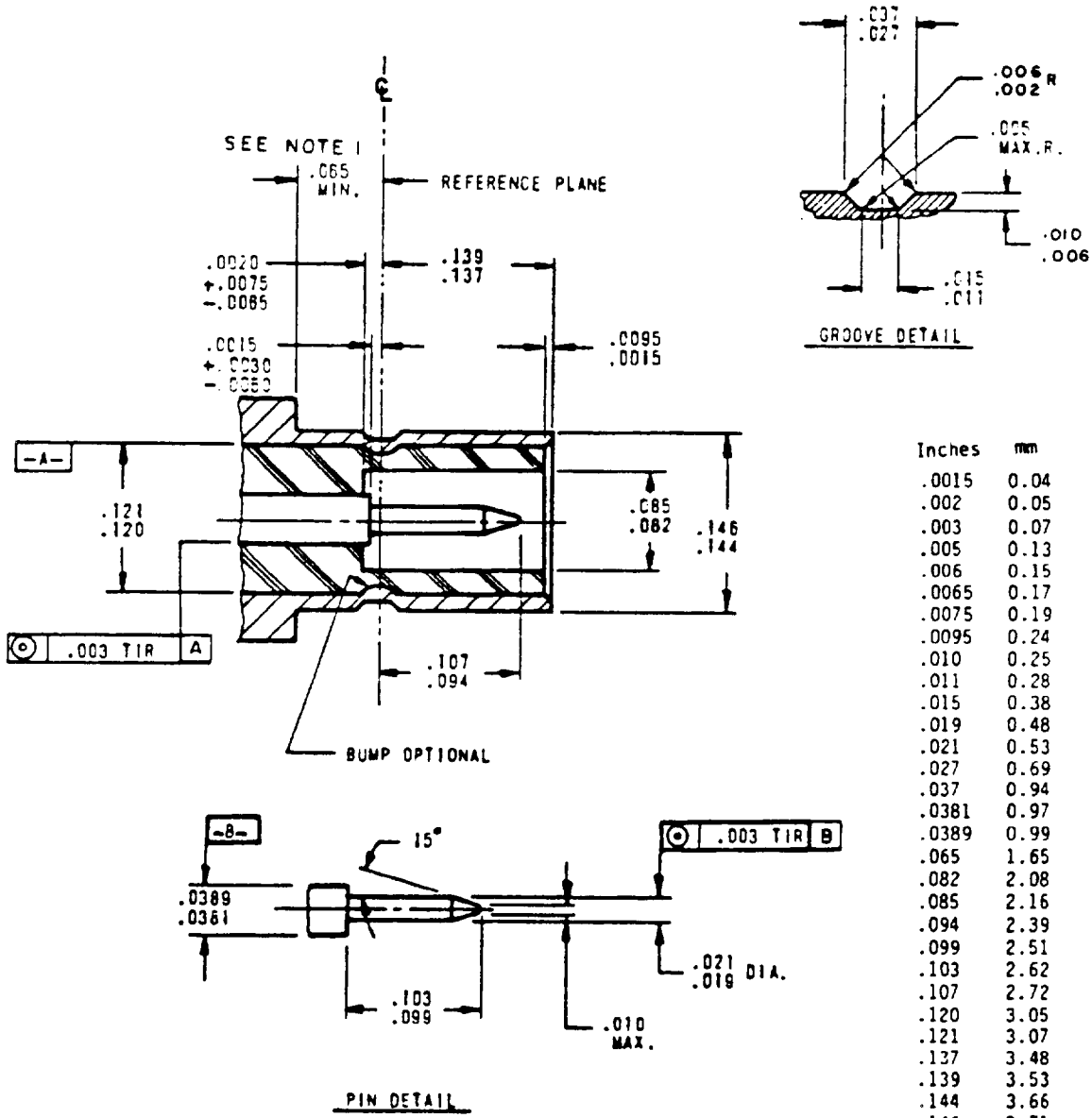
Inches	mm	Inches	mm
.0001	0.00	.0965	2.45
.0005	0.01	.0976	2.48
.0015	0.04	.184	4.67
.003	0.08	.186	4.72
.004	0.10	.187	4.75
.006	0.15	.200	5.08
.012	0.30	.205	5.21
.020	0.51	.208	5.28
.040	1.02	.256	6.50
.0475	1.21	.264	6.71
.0510	1.30	.266	6.76
.0535	1.36	.2752	6.99
.0600	1.52	.2760	7.01
.0622	1.58	.319	8.10
.068	1.73	.321	8.15
.070	1.78	.327	8.31
.0852	2.16	.329	8.36
.0859	2.18	.333	8.46
.0878	2.23	.378	9.60
.088	2.24	.381	9.68
.0911	2.31	.4375	11.11

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



Inches	mm
.001	0.03
.006	0.15
.007	0.18
.018	0.46

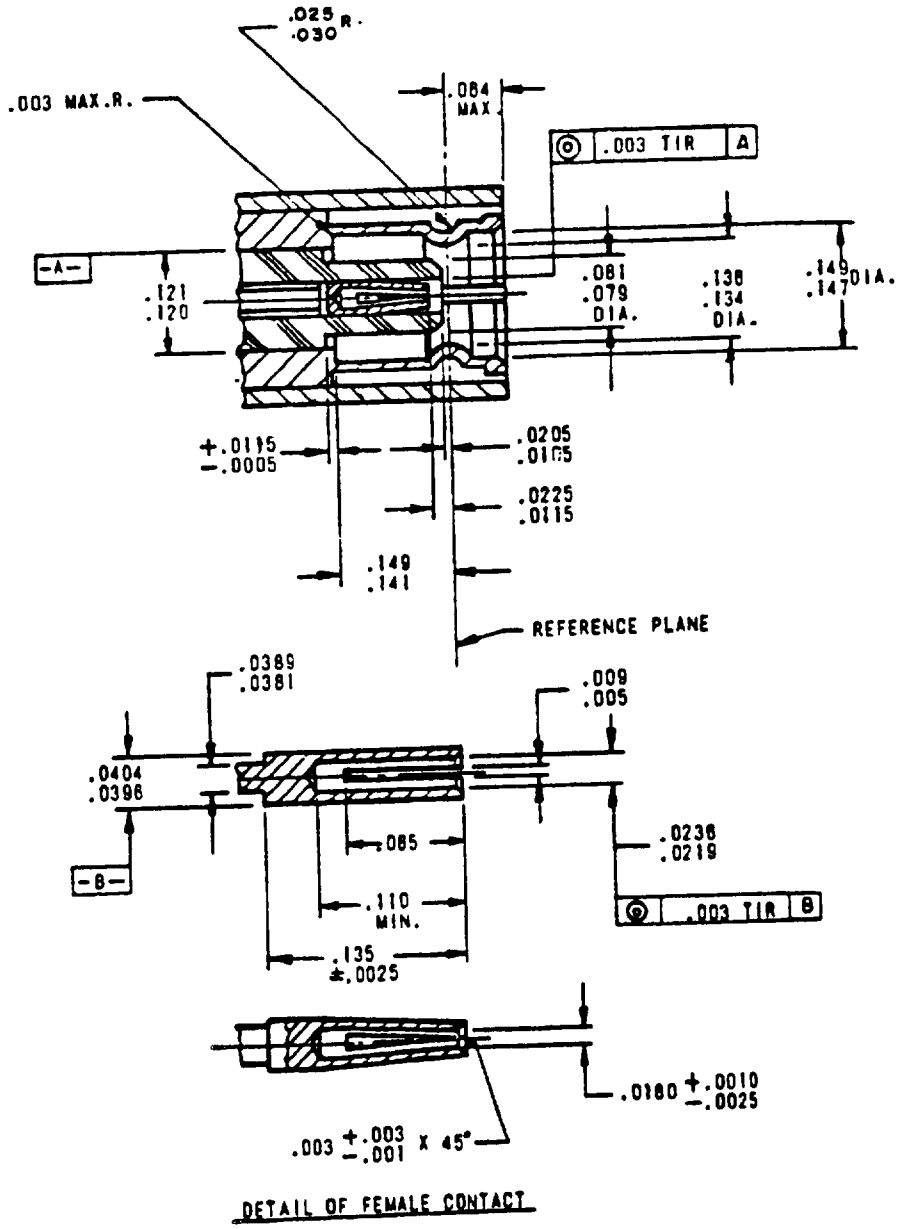
FIGURE 406-3. Interface, mated test connector, series TNC.



Inches	mm
.0015	0.04
.002	0.05
.003	0.07
.005	0.13
.006	0.15
.0065	0.17
.0075	0.19
.0095	0.24
.010	0.25
.011	0.28
.015	0.38
.019	0.48
.021	0.53
.027	0.69
.037	0.94
.0381	0.97
.0389	0.99
.065	1.65
.082	2.08
.085	2.16
.094	2.39
.099	2.51
.103	2.62
.107	2.72
.120	3.05
.121	3.07
.137	3.48
.139	3.53
.144	3.66
.146	3.71

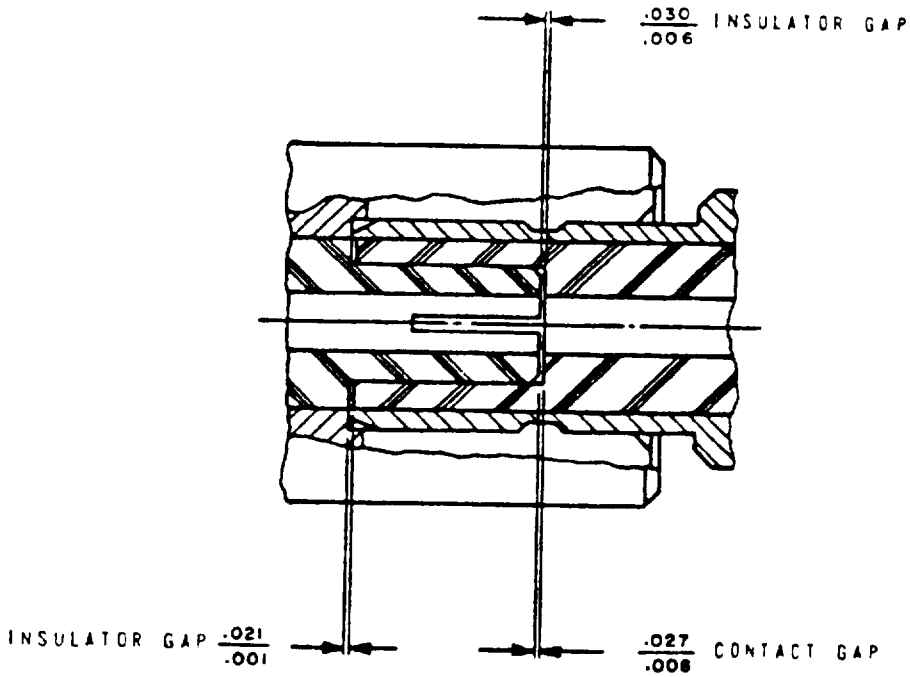
NOTE: Clearance for mating connector coupling nut.

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



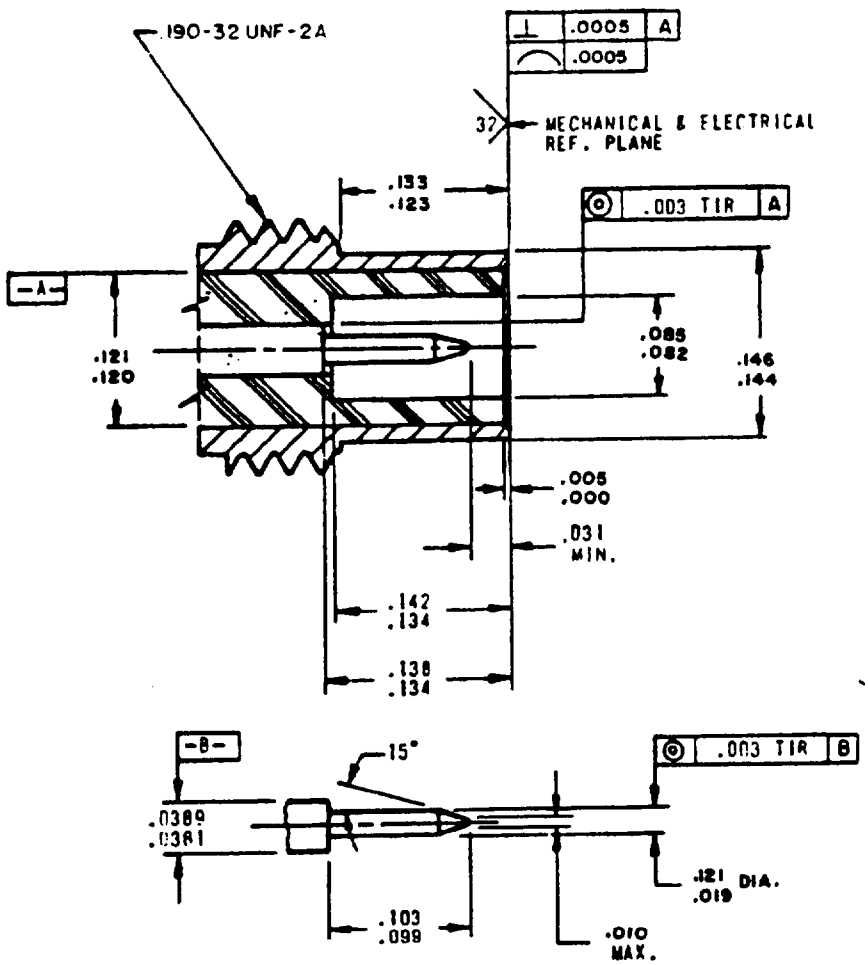
Inches	mm
.0005	0.01
.0010	0.03
.0025	0.06
.003	0.08
.005	0.13
.009	0.23
.0105	0.27
.0115	0.29
.0180	0.46
.0205	0.52
.0219	0.56
.0225	0.57
.0236	0.60
.025	0.64
.030	0.76
.0381	0.97
.0389	0.99
.0396	1.01
.0404	1.03
.064	1.63
.065	1.65
.079	2.01
.081	2.06
.110	2.79
.120	3.05
.121	3.07
.134	3.40
.135	3.43
.136	3.45
.141	3.58
.147	3.73
.149	3.78

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



Inches	mm
.001	0.03
.006	0.15
.008	0.20
.021	0.53
.027	0.69
.030	0.76

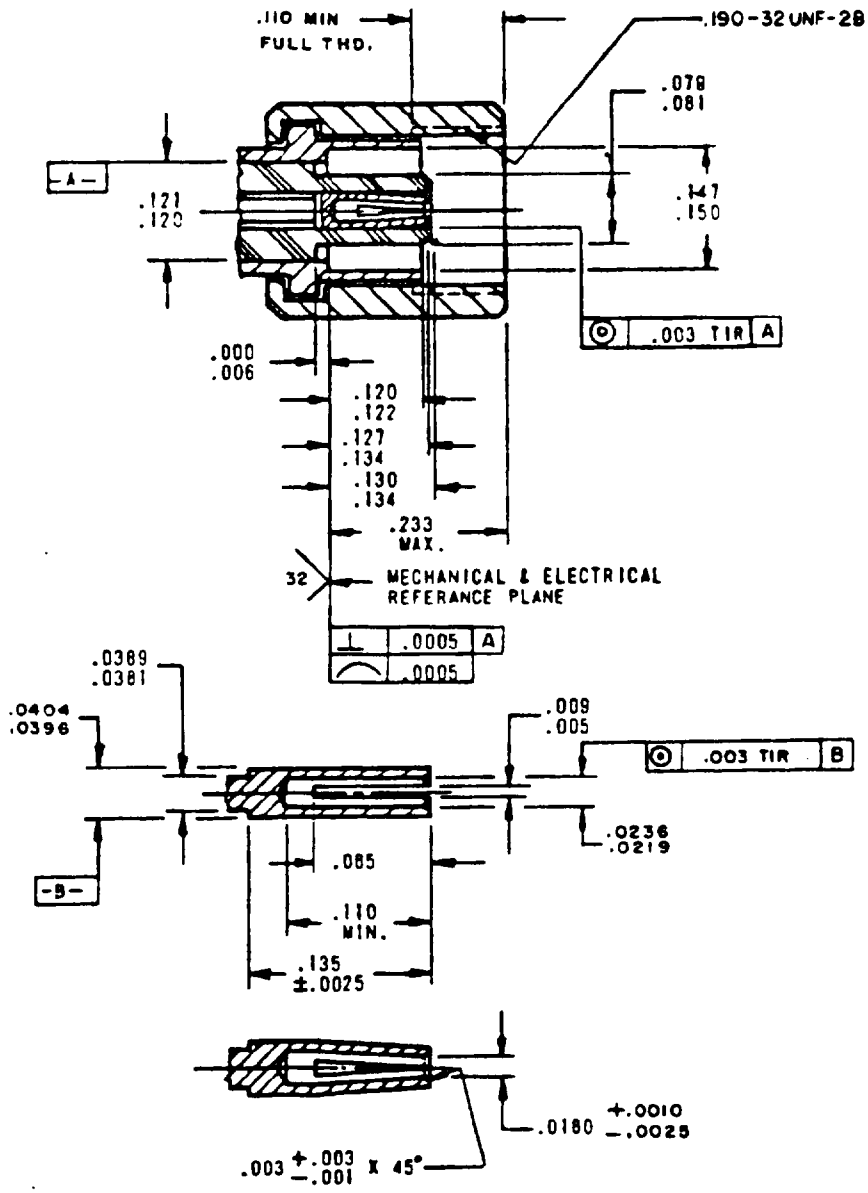
FIGURE 407-3. Interface, mated test connector, series SMB.



PIN DETAIL

Inches	mm
.0005	0.01
.003	0.08
.005	0.13
.010	0.25
.019	0.48
.021	0.53
.031	0.79
.0381	0.97
.0389	0.99
.082	2.08
.085	2.16
.099	2.51
.103	2.62
.120	3.05
.121	3.07
.123	3.12
.133	3.38
.134	3.40
.138	3.51
.142	3.61
.144	3.66
.146	3.71
.190	4.83

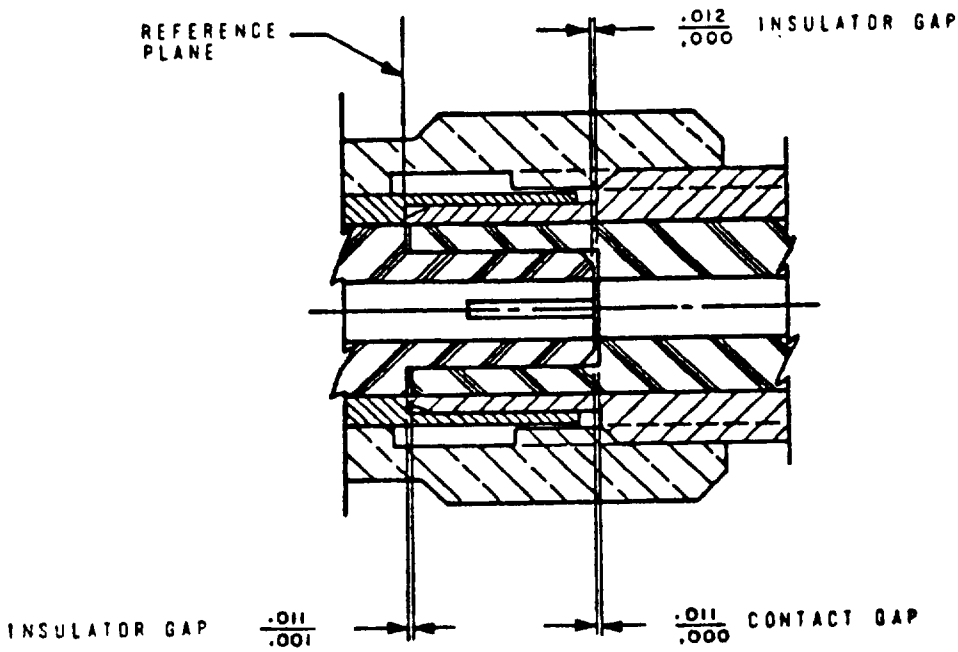
FIGURE 408-1. Interface, test connector, series SMC, pin contact.



DETAIL FEMALE CONTACT

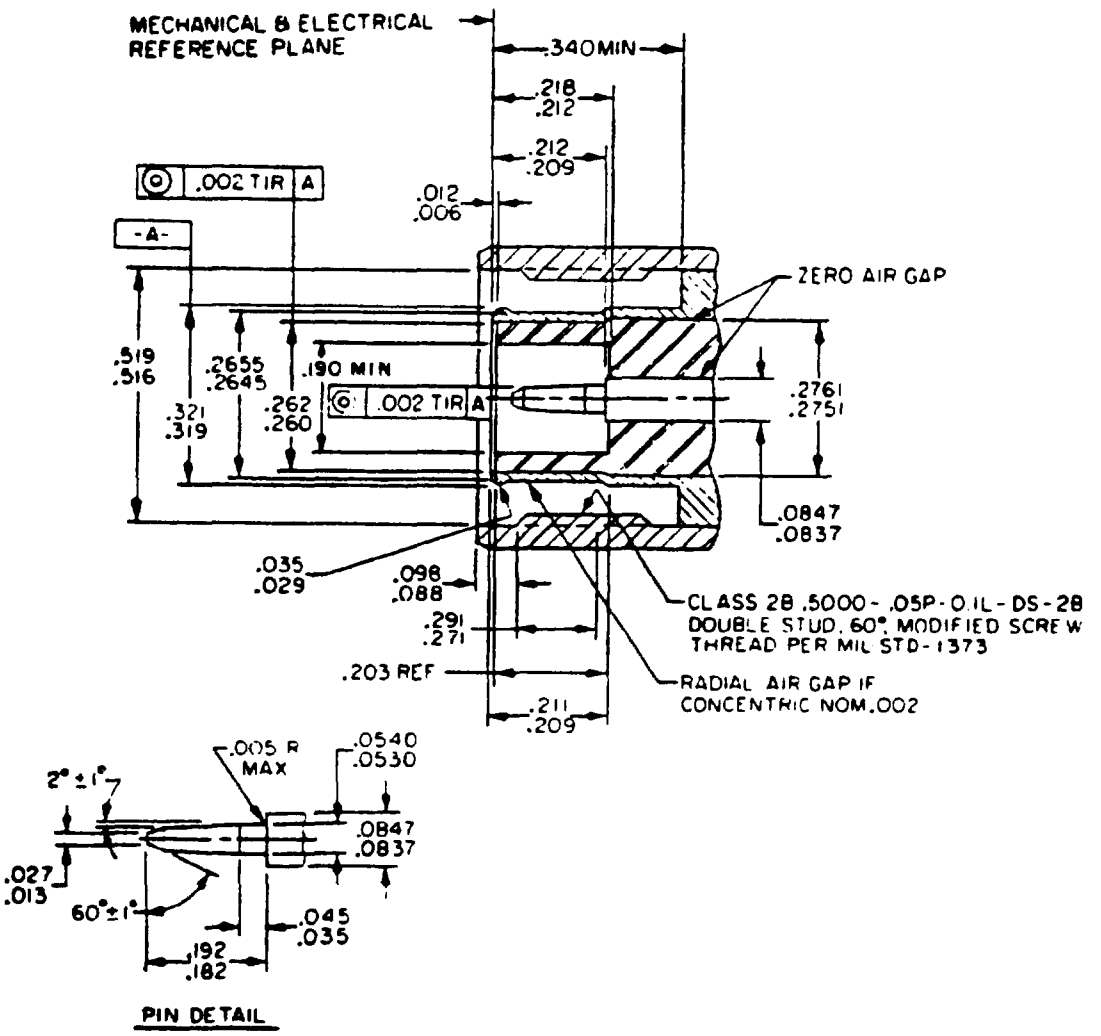
Inches	mm
.0005	0.01
.0010	0.03
.0025	0.06
.003	0.07
.005	0.13
.006	0.15
.009	0.23
.0180	0.46
.0219	0.56
.0236	0.60
.0381	0.97
.0389	0.99
.0396	1.01
.0404	1.03
.065	1.65
.079	2.01
.081	2.06
.110	2.79
.120	3.05
.121	3.07
.122	3.10
.127	3.23
.130	3.30
.134	3.40
.135	3.43
.147	3.73
.150	3.81
.190	4.83
.233	5.92

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



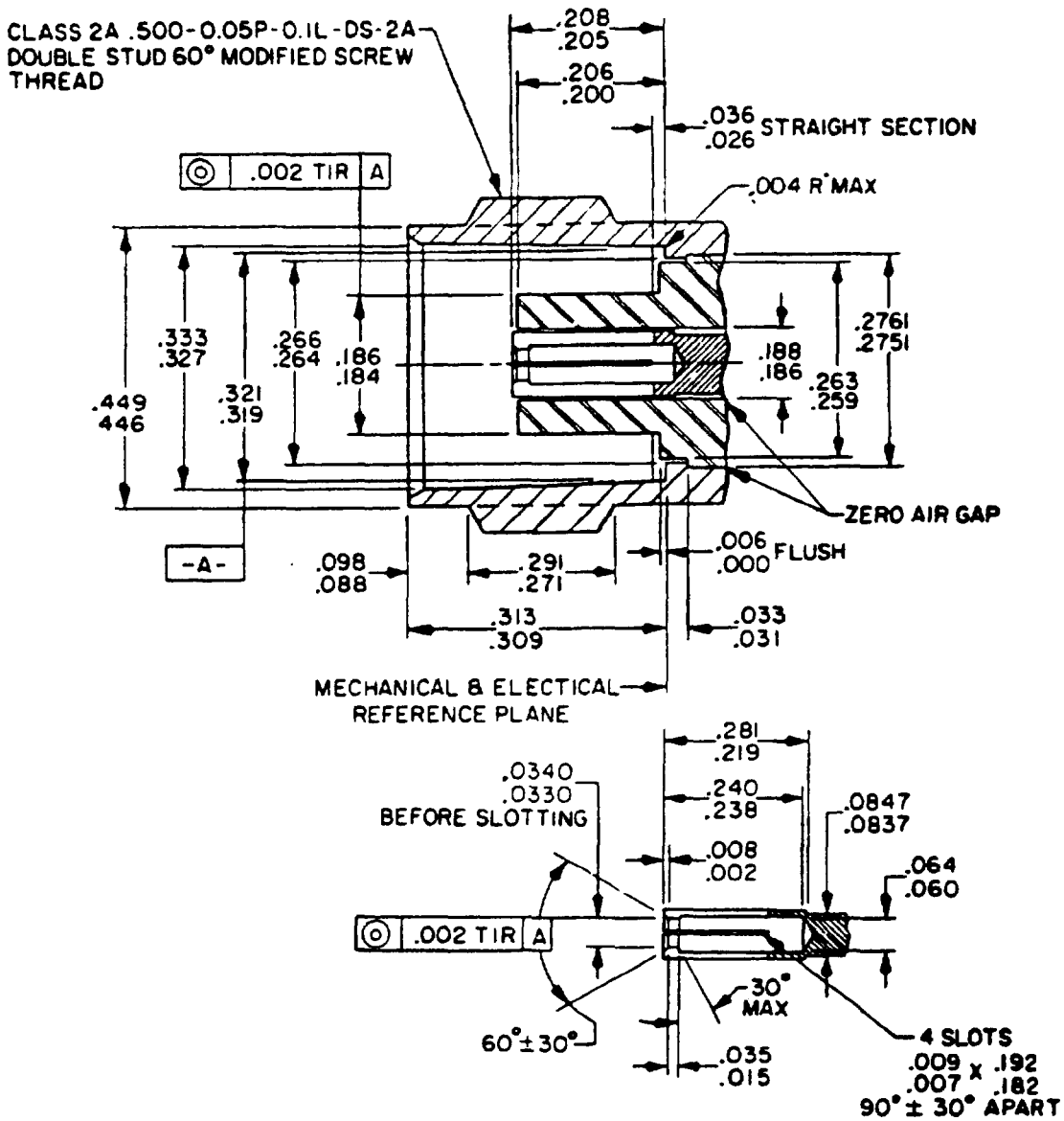
Inches	mm
.001	0.03
.011	0.28
.012	0.30

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



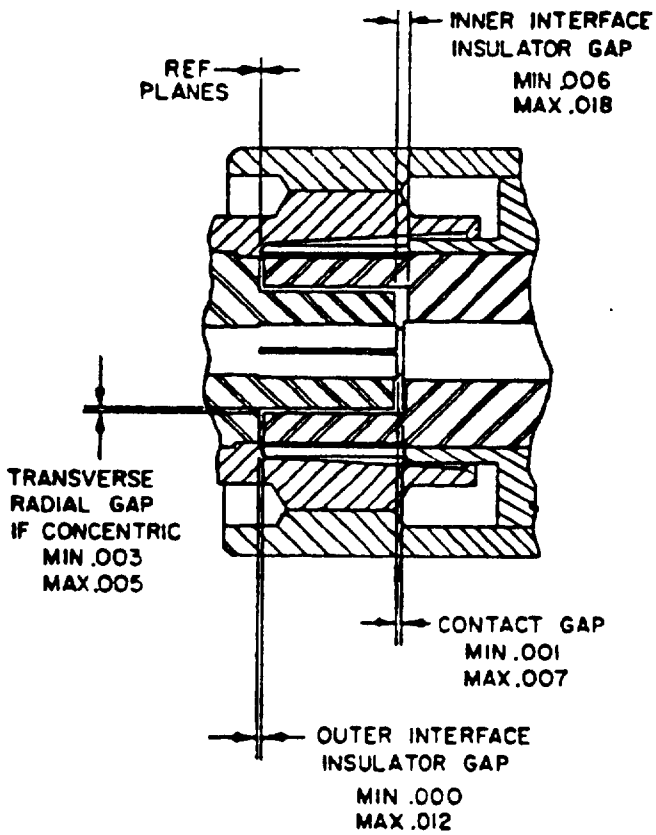
Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.05	.0530	1.346	.209	5.31	.2751	6.987
.005	0.13	.0540	1.371	.211	5.36	.2761	7.012
.006	0.15	.0837	2.125	.212	5.38	.291	7.39
.012	0.30	.0847	2.151	.218	5.54	.319	8.10
.013	0.33	.088	2.24	.260	6.60	.321	8.15
.027	0.69	.098	2.49	.262	6.65	.340	8.64
.029	0.74	.182	4.62	.2645	6.718	.5000	12.700
.035	0.89	.192	4.88	.2655	6.743	.516	13.11
.045	1.14	.203	5.16	.271	6.88	.519	13.18

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



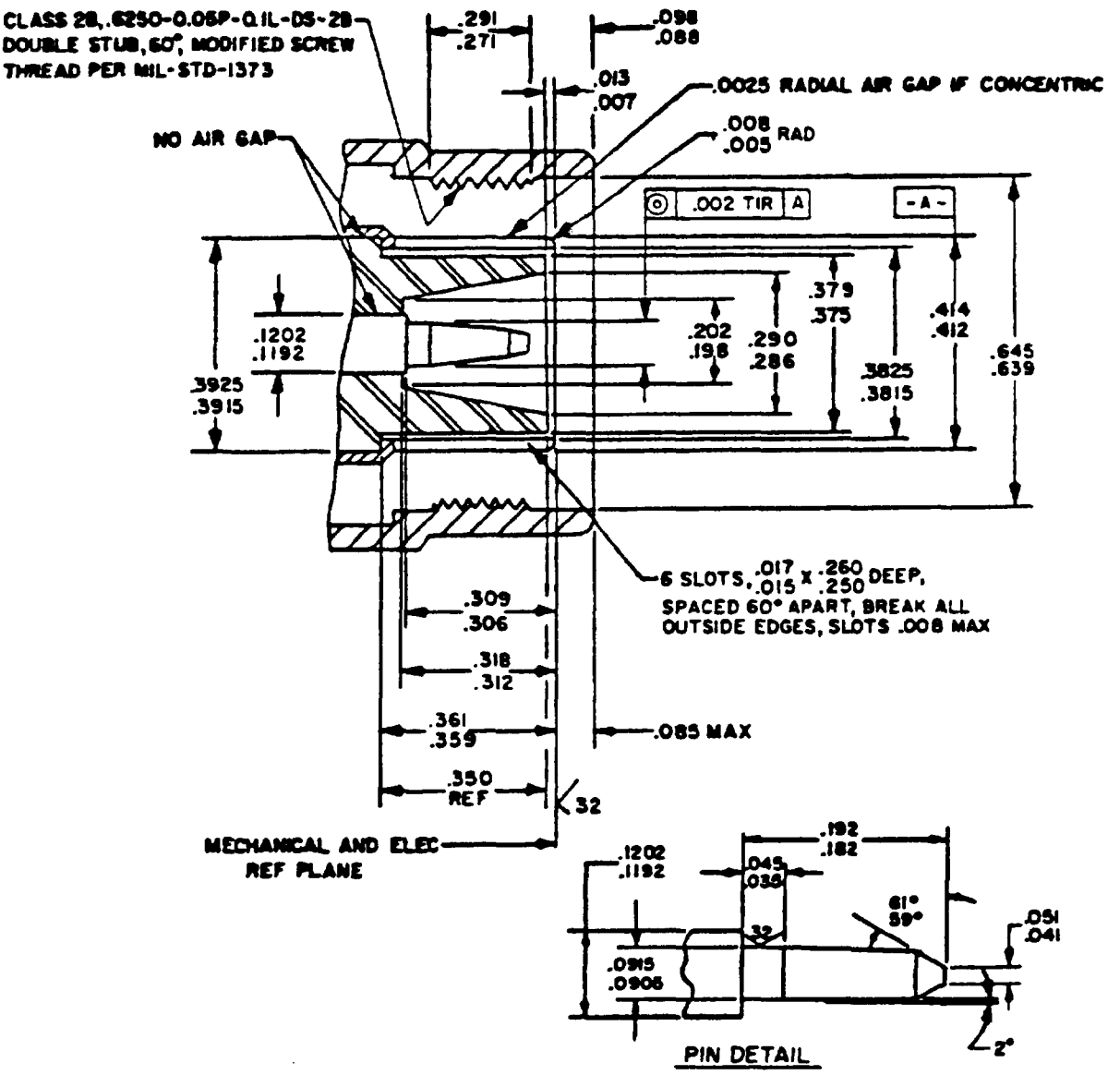
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.05	.034	0.86	.184	4.67	.240	6.10	.313	7.95
.004	0.10	.035	0.89	.186	4.72	.259	6.58	.319	8.10
.006	0.15	.036	0.91	.188	4.78	.263	6.68	.321	8.15
.007	0.18	.060	1.52	.192	4.88	.264	6.71	.327	8.31
.008	0.20	.064	1.63	.200	5.08	.271	6.88	.333	8.46
.009	0.23	.0837	2.13	.205	5.21	.2751	6.987	.446	11.33
.015	0.38	.0847	2.15	.206	5.23	.2761	7.012	.449	11.40
.026	0.66	.088	2.24	.208	5.28	.281	7.14	.500	12.70
.031	0.79	.098	2.49	.219	5.56	.291	7.39		
.033	0.84	.182	4.62	.238	6.05	.309	7.85		

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



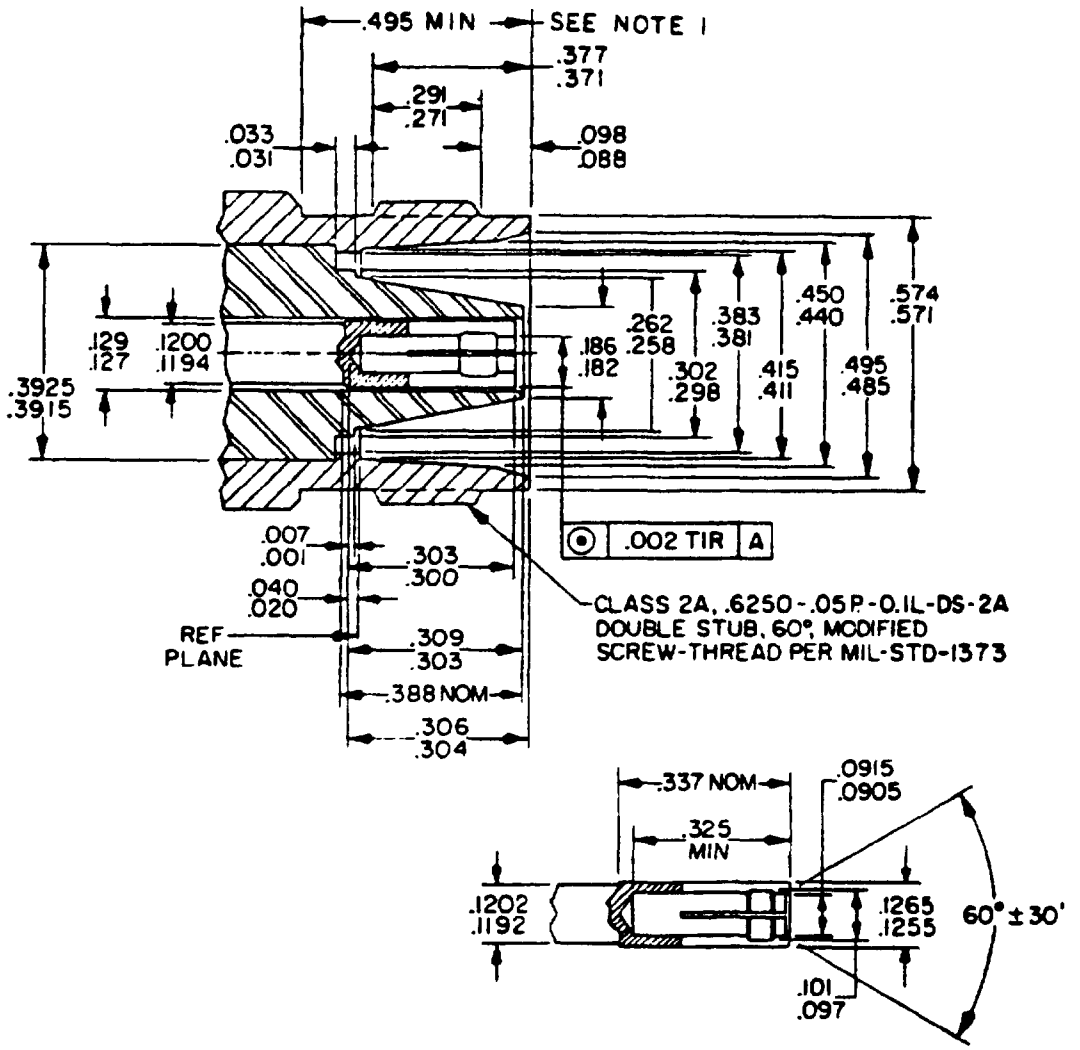
Inches	mm
.001	0.03
.003	0.08
.005	0.13
.006	0.15
.007	0.18
.012	0.30
.018	0.46

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



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.05	.0905	2.298	.286	7.26	.3815	9.690
.0025	0.06	.0915	2.324	.290	7.37	.3825	9.715
.005	0.13	.098	2.49	.291	7.39	.3915	9.944
.007	0.18	.1192	3.027	.306	7.77	.3925	9.969
.008	0.20	.1202	3.053	.309	7.85	.412	10.46
.013	0.33	.182	4.62	.312	7.92	.414	10.52
.015	0.38	.192	4.88	.318	8.08	.6250	15.875
.017	0.43	.198	5.03	.350	8.89	.639	16.23
.035	0.89	.202	5.13	.359	9.12	.645	16.38
.045	1.14	.250	6.35	.361	9.17		
.085	2.16	.260	6.60	.375	9.53		
.088	2.24	.271	6.88	.379	9.63		

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

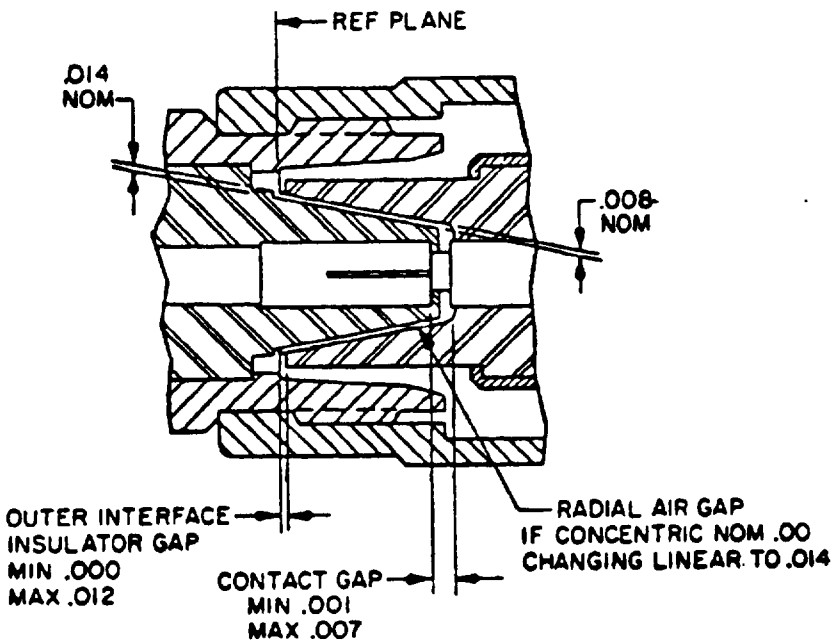


SERIES QSC

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.098	2.49	.186	4.72	.309	7.85	.415	10.54
.002	0.05	.101	2.57	.258	6.55	.325	8.26	.440	11.18
.007	0.18	.1192	3.027	.262	6.65	.337	8.56	.450	11.43
.020	0.51	.1194	3.032	.271	6.88	.371	9.42	.485	12.32
.031	0.79	.1200	3.048	.291	7.39	.377	9.58	.495	12.57
.033	0.84	.1202	3.053	.298	7.57	.381	9.68	.571	14.50
.040	1.02	.1255	3.187	.300	7.62	.383	9.73	.574	14.58
.088	2.24	.1265	3.213	.302	7.67	.388	9.86	.6250	15.875
.0905	2.298	.127	3.23	.303	7.70	.3915	9.944		
.0915	2.324	.129	3.28	.304	7.72	.3925	9.969		
.097	2.46	.182	4.62	.306	7.77	.411	10.44		

NOTE: Clearance for mating connector coupling nut.

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



SERIES QSC

Inches	mm
.001	0.03
.007	0.18
.008	0.20
.012	0.30
.014	0.36

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