MILITARY 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,
AND MIL-C-83517

TO ALL HOLDERS OF MIL-STD-348A:

1. THE FOLLOWING PAGES OF MIL-STD-348A ARE NEW OR HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
iii		iii	12 January 1990
iv		iv	12 January 1990
v/vi		v	12 January 1990
SECTION 300		SECTION 300	12 January 1990
310.1		310.1	12 January 1990
310.2		310.2	12 January 1990
310.3/310.4		310.3	12 January 1990
323.1		NEW	---
323.2		NEW	---
325.1		NEW	---
325.2		NEW	---

2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of MIL-STD-348A will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the military standard is completely revised or canceled.

CONCLUDING MATERIAL

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

Preparing activity:
  Army – CR

Agent:
  DLA – ES

(Project 5935-3815)

AMSC N/A
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

FSC 5935

MIL-STD-348A
NOTICE 2

CONTENTS

FIGURES

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Notice 1.

MIL-STD-348A
NOTICE 2

CONTENTS

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Notice 1.

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MIL-STD-348A
NOTICE 2

CONTENTS

Supersedes page v of
Notice 1.

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 and TNCA

Section 314   Series SHV

Section 315   Series LC

Section 316   Environment resistant

Section 317   Series HN

Section 318   Series LT

Section 319   Series SSMA

Section 320   Series SSMB

Section 321   Series BMA

Section 322   Series BMB

Section 323   Series SMK

Section 324   Reserved for 2.4 mm

Section 325   Series BMZ

Supersedes section 300 of
Notice 1.

REF PLANE
MECHANICAL
AND ELECTRICAL

HEX .315 FLAT
.309
(SEE NOTE 4)

.135 MAX
.130 MIN

.045
.015

.250-36 UNS-2B

SEALING GASKET

.1808 DIA MAX

.250 DIA MIN

.000 MAX PROJECTION

SEE DETAIL A

.003 MAX X 45° CHAM
OR .003 RAD MAX

.010
.000

.100 MAX

34°
35°

.012 MAX

ø .0370
.0355

.050 MIN

R.P.

DETAIL A

Inches	mm
.000	0.00
.003	0.08
.010	0.25
.012	0.30
.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. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Connector interfaces (after connector mating) shall be kept free from dust and moisture.
4. May extend throughout the full length of the coupling nut.

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

Supersedes page 310.1 of
Notice 1.

310.1
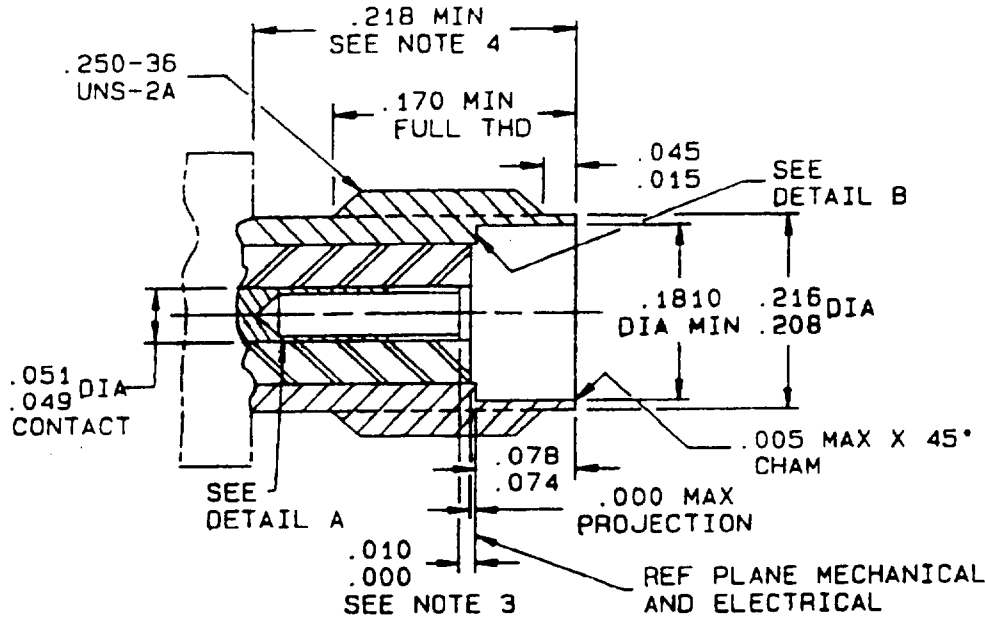
Inches	mm
.005	0.13
.008	0.20
.010	0.25
.015	0.38
.0355	0.900
.0370	0.940
.043	1.08
.045	1.14
.047	1.19
.049	1.24
.051	1.29
.074	1.88
.078	1.98
.105	2.67
.168	4.27
.170	4.32
.1810	4.597
.208	5.28
.216	5.49
.218	5.54
.250	6.35
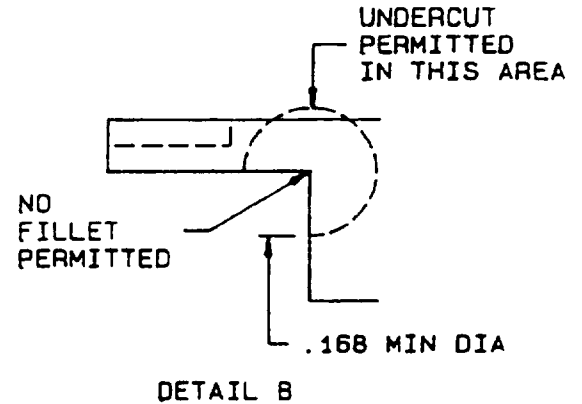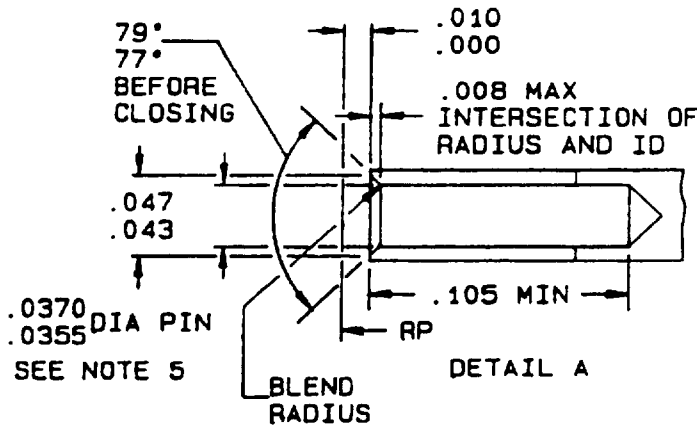
NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Previously qualified parts utilizing a .030 inch maximum contact recession are not acceptable for Government procurement. Caution should be exercised to determine whether a .030 inch recession design 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 diameter pin

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

Supersedes page 310.2 of
Notice 1.

310.2
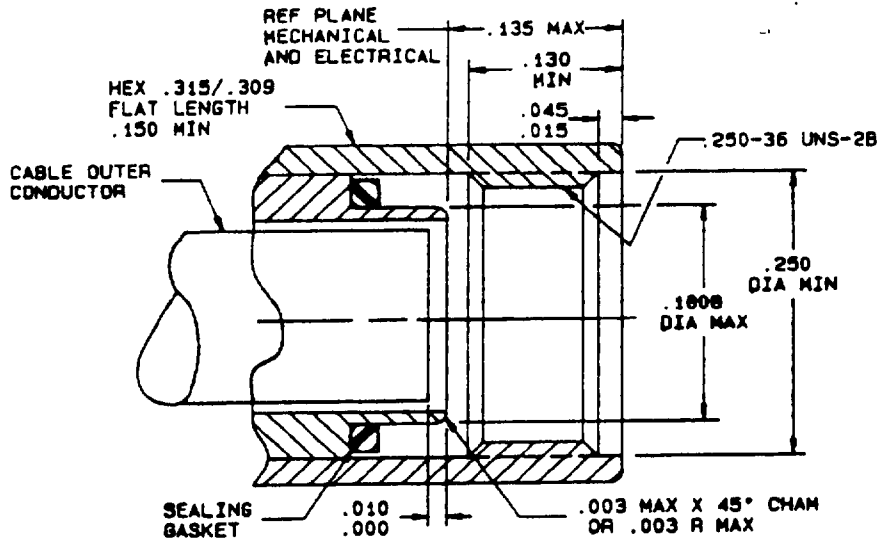
Inches	mm
.000	0.00
.003	0.08
.010	0.25
.015	0.38
.045	1.14
.130	3.30
.135	3.43
.150	3.81
.1808	4.59
.250	6.35
.309	7.85
.315	8.00

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

FIGURE 301-3. Interface, series SMA, no contact.

Supersedes page 310.3 of
Notice 1.

310.3/310.4

SEE
VIEW B

.0370 DIA
.0355

.180 DIA
.178

.255 DIA MIN

.250-36 UNS-2B

.065
.055

.135 MAX

REF PLANE

RP

SPHERICAL TIP

SMOOTH BLEND RADIUS

.005
.000
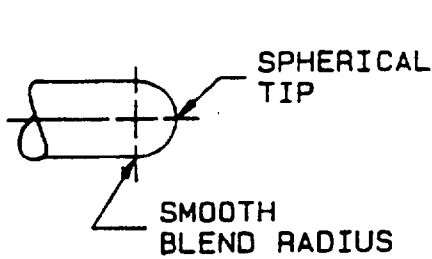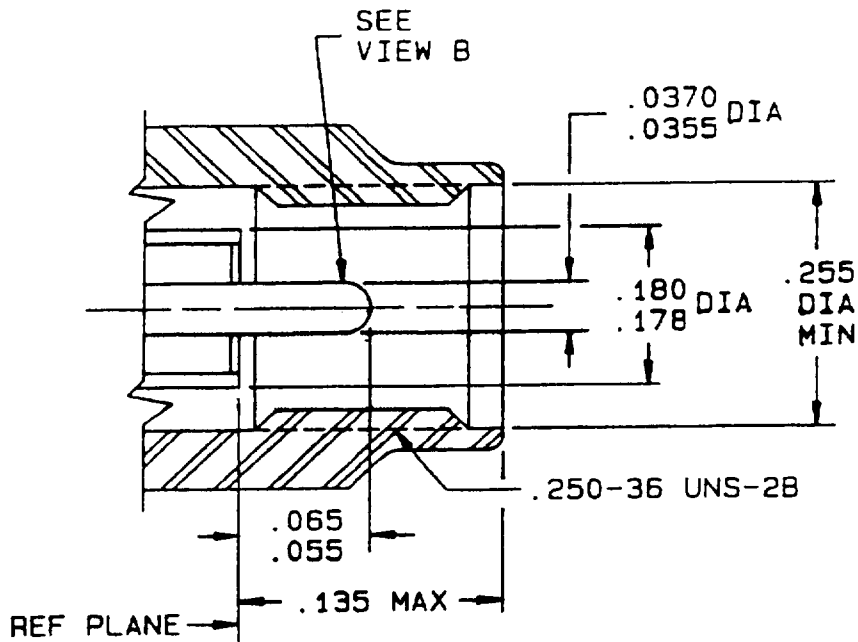
VIEW B
MALE PIN
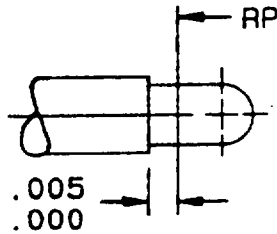
PIN DETAIL OPTIONAL
CONFIGURATION

Inches	mm
.000	0.00
.005	0.13
.0355	0.900
.0370	0.940
.055	1.40
.065	1.65
.135	3.43
.178	4.52
.180	4.59
.250	6.35
.255	6.48

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. The location of the contact support bead shall not extend beyond the reference plane.

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

NEW PAGE
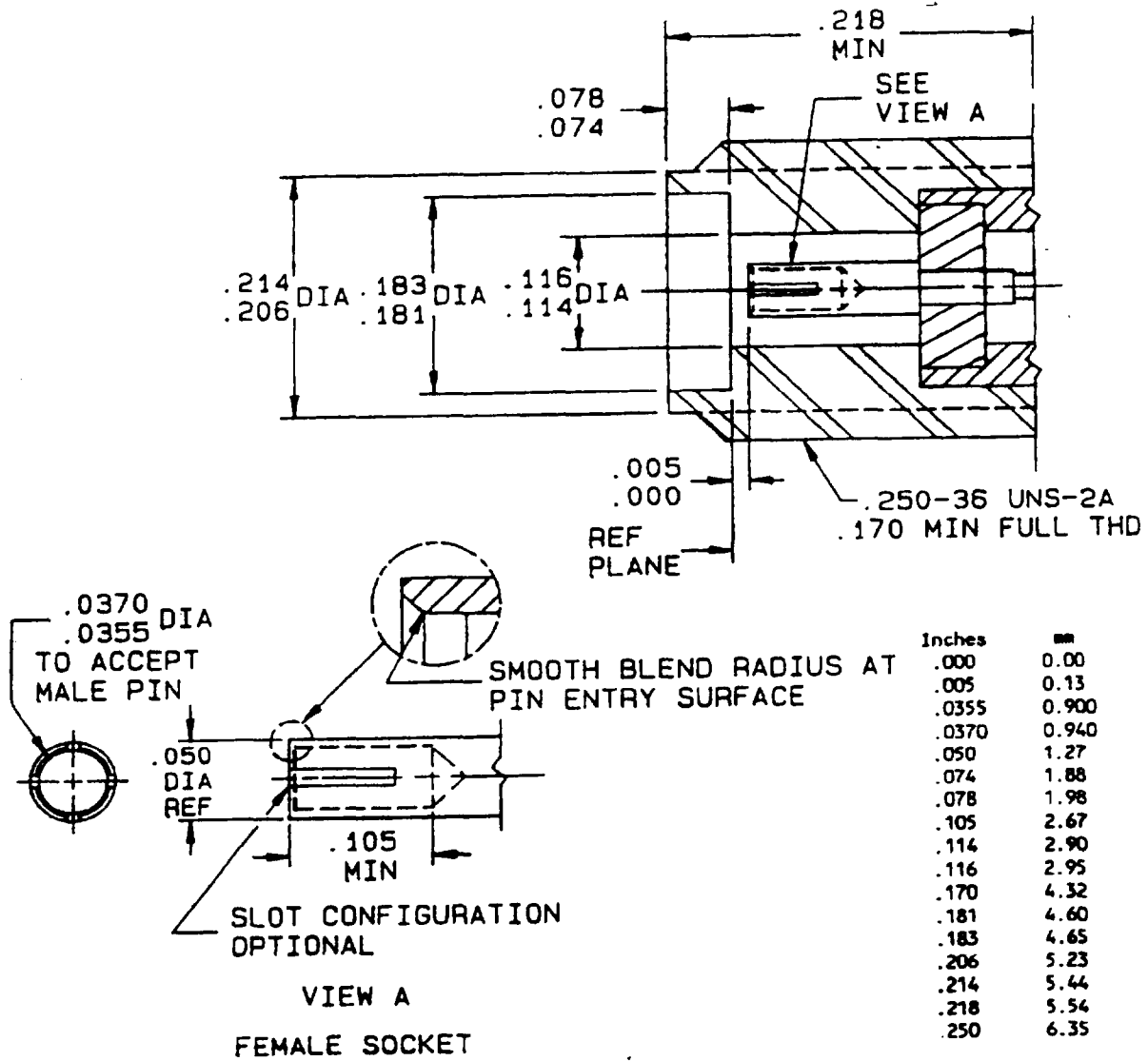
323.1

.218
MIN

.078
.074

SEE
VIEW A

.214 DIA   .183 DIA   .116 DIA
.206   .181   .114

.005
.000

REF
PLANE

.250-36 UNS-2A
.170 MIN FULL THD

.0370 DIA
.0355
TO ACCEPT
MALE PIN

SMOOTH BLEND RADIUS AT
PIN ENTRY SURFACE

.050
DIA
REF

.105
MIN

SLOT CONFIGURATION
OPTIONAL

VIEW A

FEMALE SOCKET

Inches	mm
.000	0.00
.005	0.13
.0355	0.900
.0370	0.940
.050	1.27
.074	1.88
.078	1.98
.105	2.67
.114	2.90
.116	2.95
.170	4.32
.181	4.60
.183	4.65
.206	5.23
.214	5.44
.218	5.54
.250	6.35

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ±.005.

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

NEW PAGE

323.2

SEALING GASKET — SEE DETAIL A

40° ±1°

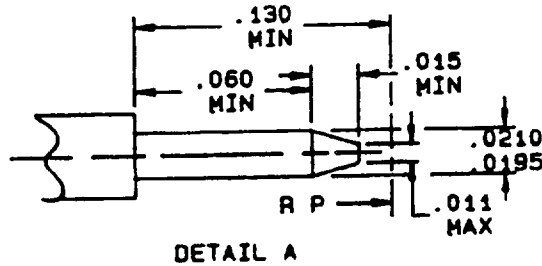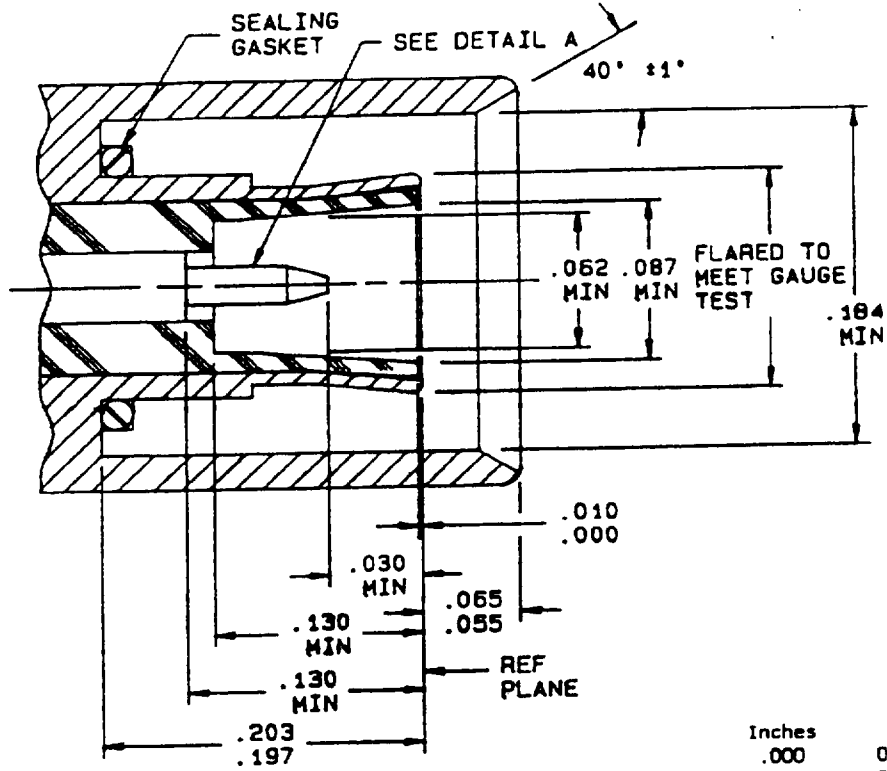.062 MIN .087 MIN FLARED TO MEET GAUGE TEST

.184 MIN

.010 / .000

.030 MIN

.130 MIN

.065 / .055

.130 MIN

REF PLANE

.203 / .197

DETAIL A

.130 MIN

.060 MIN

.015 MIN

.0210 / .0195

R P

.011 MAX

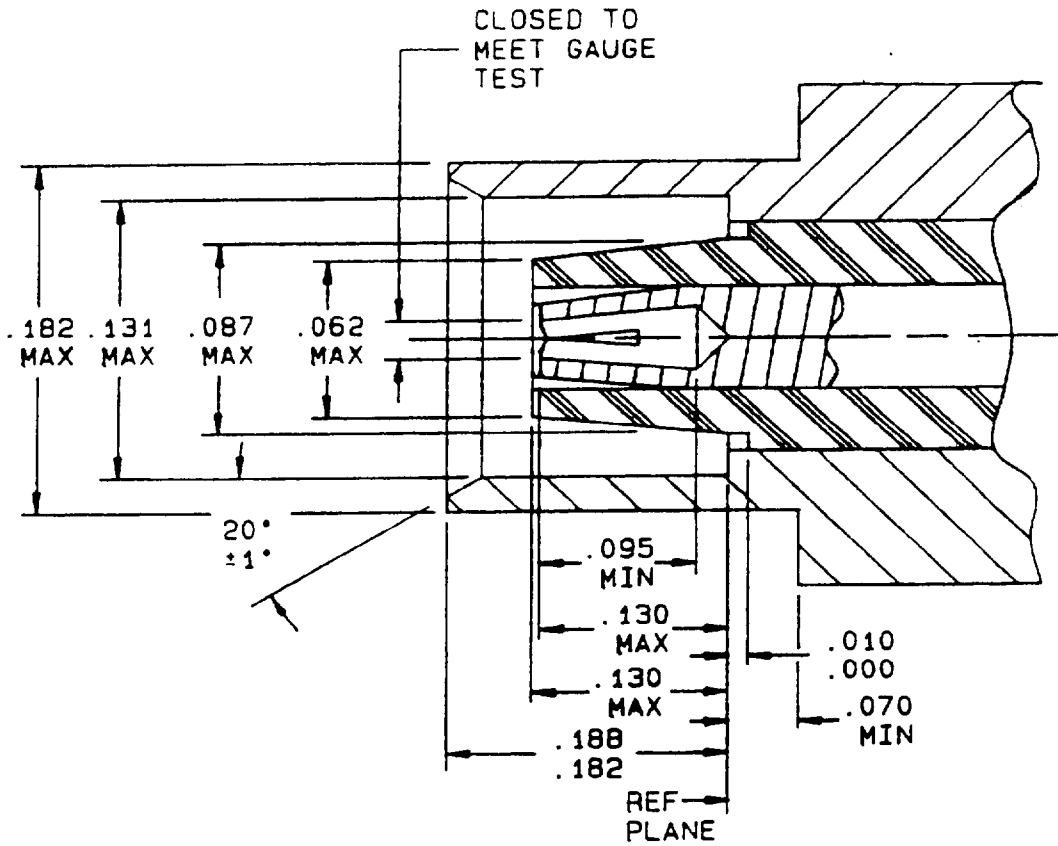| Inches	mm
.000	0.00
.010	0.25
.011	0.30
.015	0.38
.0195	0.50
.0210	0.53
.030	0.76
.055	1.40
.060	1.52
.062	1.57
.065	1.65
.087	2.21
.130	3.30
.184	4.67
.197	5.00
.203	5.16

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

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

NEW PAGE

325.1

CLOSED TO
MEET GAUGE
TEST

Inches	mm
.000	0.00
.010	0.25
.062	1.57
.070	1.78
.087	2.21
.095	2.31
.130	3.30
.131	3.33
.182	4.62
.188	4.78

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

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

NEW PAGE

325.2