

Exhibit I: Antenna Information

FCC ID: HN2EASYLAN

APPROVED SOURCE(S) OF SUPPLY

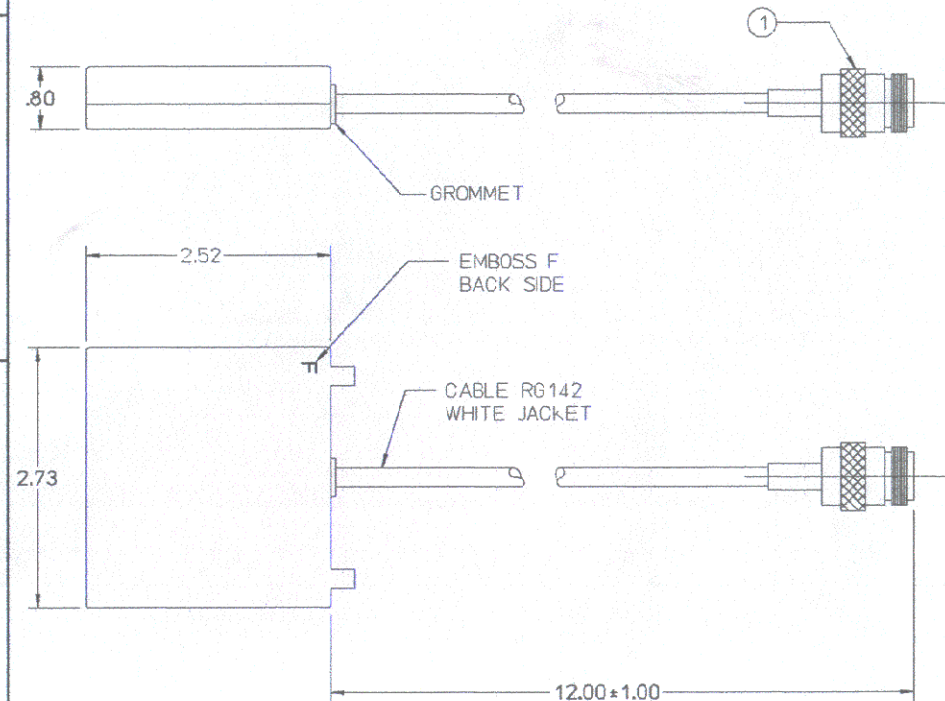
SUPPLIER	PART NUMBER
1. CENTURION INTL	CAF95989
2.	
3.	
4.	
5.	
6.	

REVISIONS

REV	DESCRIPTION	DATE	DRAWN & APPROVED
B	-001 RELEASED AT REV B		
C	-001 PER ECN 102232	3-7-01	G.RAVEN GMO

NOTES: UNLESS OTHERWISE SPECIFIED

- REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR COMPLETE DESIGN PARAMETERS.
- BAG PARTS AND MARK BAG WITH 067262 TO WHICH MANUFACTURED PER SPECIFICATION 606427. DO NOT MARK DASH NUMBER.
- CHANGES REQUIRE SAC APPROVAL.
- SPECIFICATIONS:
 - * FREQUENCY RANGE: 2400-2500 MHz
 - * GAIN: 5dBi
 - * VSWR: 1.8:1
 - * IMPEDANCE: 50ohms
 - * BEAMWIDTH 5 dB
 - H-PLANE: 55°
 - E-PLANE: 80°
 - * OPERATING TEMPERATURE: -40°C TO +100°C
 - * INPUT POWER (MAX): 50 WATTS
- MOUNTING KIT SUPPLIED.



SOURCE CONTROL DRAWING
SEE SEPARATE PARTS LIST FOR 067262-001

-001

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CAD DB, REF- 067262.1.c
SYSTEM - HP/ME30

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

.XX ± .12

.XXX ±

ANGLES ±

APPROVALS	DATE
DRAWN J.FOTI	5-11-98
CHECKED R.HOAGLUND	5-21-98
RESP ENGM.SHAVER	6-2-98
QA T.ANDERSON	6-2-98
MFG ENG M.SALATINO	5-26-98
SAC P.HELTON	5-26-98
COMPNT ENG T.KEY	5-27-98

Intermec Technologies Corporation
6001 36TH AVENUE WEST
EVERETT, WA 98203-9280

TITLE ANTENNA, 2.4GHZ, 5dBi
DUAL FLAT PANEL

SIZE	CAGE CODE	DRAWING NUMBER	REV
C	33825	067262	C
SCALE	NONE		SHEET 1 OF 1

APPROVED SOURCE(S) OF SUPPLY	
SUPPLIER	PART NUMBER
1. CENTURION	066147-001
2.	
3.	
4.	
5.	
6.	

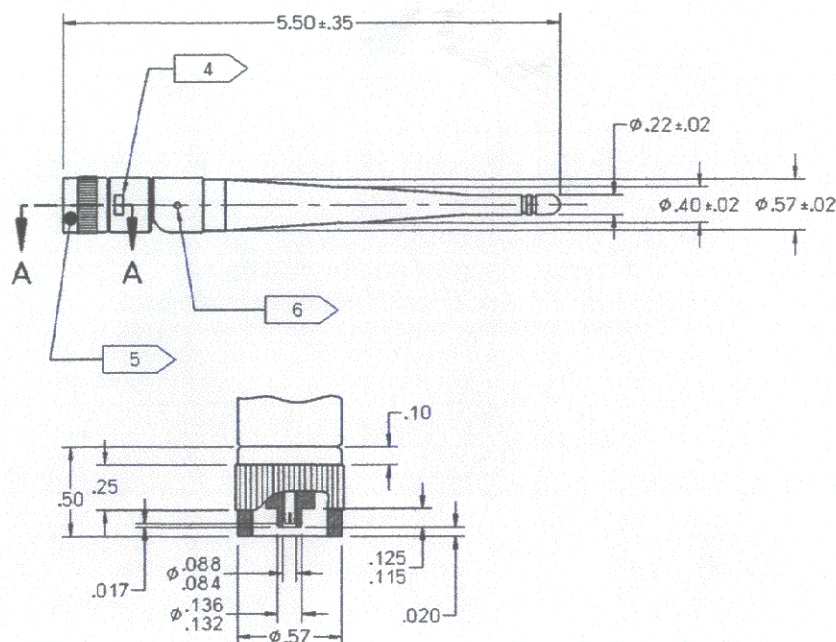
REVISIONS			
REV	DESCRIPTION	DATE	DRAWN & APPROVED
B	-001 RELEASED AT REV B		
C	-001 PER ECN 027276	03-07-98	JLEE RCH
D	-001 PER ECN 100361	04-09-99	JLEE JMB

NOTES: UNLESS OTHERWISE SPECIFIED

- BAG PARTS (25 MAX PER BAG) AND MARK BAG WITH 066147 AND DASH NUMBER TO WHICH MANUFACTURED PER SPECIFICATION 606427.
- SPECIFICATIONS: FREQUENCY RANGE 2.4-2.5 GHZ
GAIN: 1.0 dBi
OPERATING TEMPERATURE: -40°C TO +85°C
FLEX TEST: PER QEA0014
PULL TEST: 20 LB LINEAR PULL
TORQUE TEST: 20 IN-LB
POWER RATING: 50 WATTS
VSWR 1.5:1 MAX AT RESONANCE
- CHANGES REQUIRE SAC APPROVAL.

- 4 PART MARKED WITH AØ1.
- 5 THIS PIECE IS FREE TO ROTATE 360°.
- 6 FREE TO ROTATE 90° (DOWNWARD) ABOUT THIS PIVOT. LOCKS IN 0° AND 90° POSITION.

- ALL PARTS OF ASSEMBLY ARE TO BE MOLDED BLACK OR BLACK CHROME.



SECTION A-A

SCALE 2/1

SOURCE CONTROL DRAWING

CAD DB, REF- 066147.1.d
SYSTEM - HP/ME30

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

.XX ± .03

.XXX ± .010

ANGLES ±

APPROVALS		DATE
DRAWN	G.RAVEN	7-11-97
CHECKED	R.HOAGLUND	10-29-97
RESP ENG	T.BENSON	10-30-97
QA	T.ANDERSON	11-10-97
MFG ENG	V.LORD	11-6-97
SAC	O.DREW	10-30-97
CMPT ENGR	K.KELLY	11-4-97

Intermec

6001 36TH AVENUE WEST
EVERETT, WA 98203-9280

TITLE ANTENNA, TNC, 2.4 GHZ,
DIPOLE, 248X

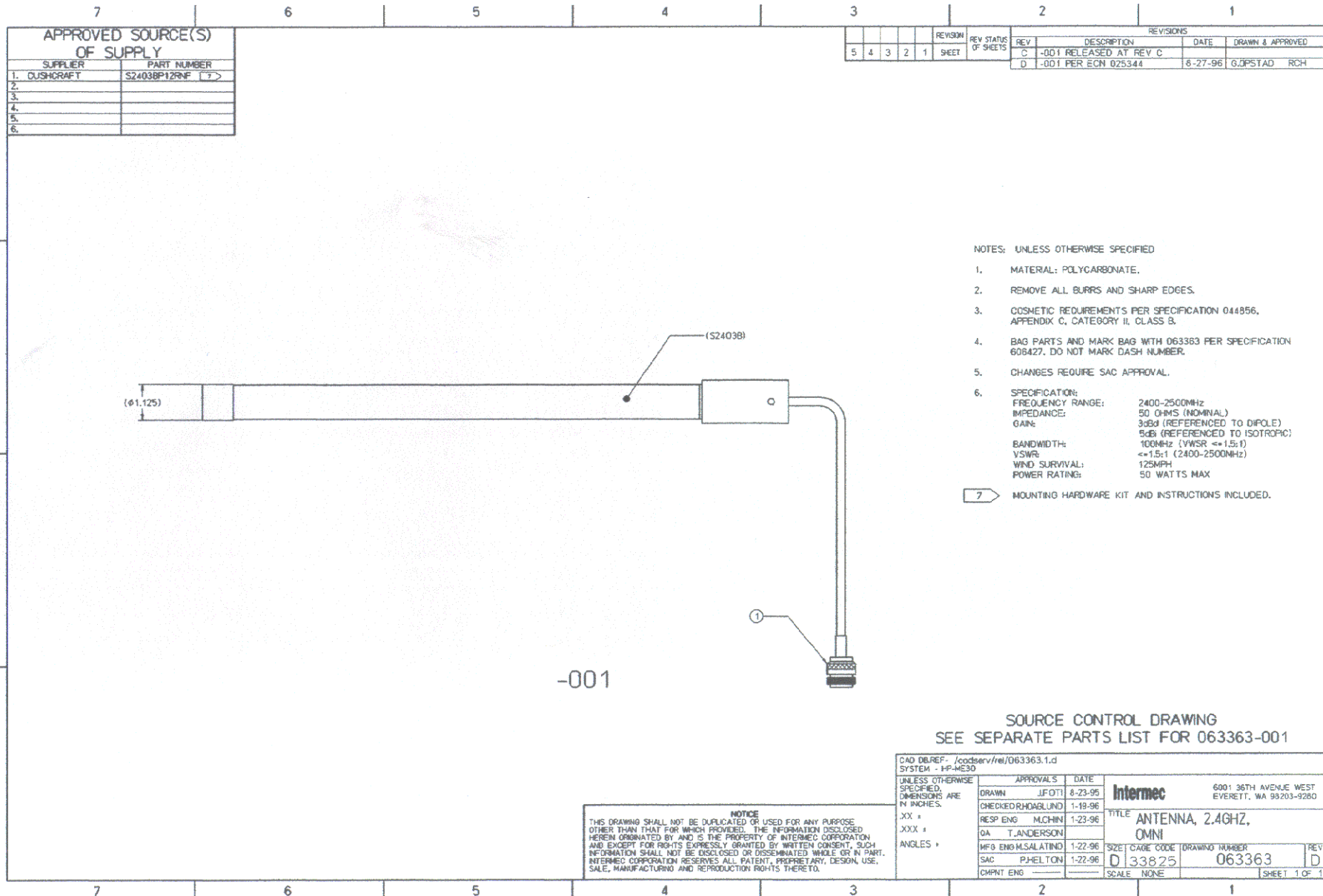
SIZE	CAGE CODE	DRAWING NUMBER	REV
C	33825	066147	D

SCALE 1/1

SHEET 1 OF 1

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-001



Compliance with 47 CFR 15.247(b)(4)

“Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See Sec. 1.1307(b)(1) of this chapter.” (Excerpt taken from 47 CFR 15.247(b)(4))

Per 47 CFR 15.247 (b)(4), the EUT meets the requirement that it be operated in a manner that ensures the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines (ref . 47 CFR 1.1307, 1.1310, 2.1091, and 2.1093. Also OET Bulletin 65, Supplement C).

The EUT will be used only in the applicant's printers and can therefore be considered a mobile transmitter per 47 CFR 2.1091. The EUT supports the connection of only one antenna at a time.

The MPE estimates are as follows:

Table 1 in 47 CFR 1.1310 defines the maximum permissible exposure (MPE) for the general population as $1\text{mW}/\text{cm}^2$. The exposure level at a 20 cm distance from the EUT's transmitting antenna is calculated using the general equation:

$$S = (PG)/4\pi R^2$$

Where: S = power density (mW/cm^2)

P = power input to the antenna (mW)

G = linear power gain relative to an isotropic radiator

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

Solving for S, the maximum power densities 20 cm from the transmitting antennas are as follows:

Antenna Manufacturer	Antenna Type	Antenna Part No.	Transmit Frequency (MHz)	Max Peak Conducted Output Power (mW)	Antenna Gain (dBi)	Power Density @ 20 cm (mW/cm^2)	Maximum Permitted Power Density (mW/cm^2)
Cushcraft	omni	63363	2400	52	5	0.033	1
Centurion	tuned dipole	66147	2400	52	1	0.013	1
Centurion	patch	67262	2400	52	5	0.033	1



A **UNOVA** Company

Intermec Technologies Corporation
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425.348.2633 fax
www.intermec.com

May 7, 2002

To Whom It May Concern:

Intermec complies with the unique connector requirement of FCC Part 15.203 by using a modified TNC connector. As can be seen in the following drawings the dimensions of the teflon insulator inside the metal sleeve are different in our custom TNC connector (first drawing) than the standard TNC connector (second drawing). This makes it impossible to properly mate our custom TNC connector with a standard polarized (reversed gender) TNC connector, since the insulators would be destroyed if the connectors are forced. If you have any questions regarding this product, please feel free to contact me (phone: 425 356 1765, fax: 425 348 2633, email: carl.turk@intermec.com).

Sincerely,

Carl K. Turk, MSEE
Sr. EMC Engineer
Intermec Technologies Corp.

APPROVED SOURCE(S) OF SUPPLY

SUPPLIER	PART NUMBER
1. KINGS ELECTRONICS	372-6-9
2.	
3.	
4.	

					REVISION
5	4	3	2	1	SHEET

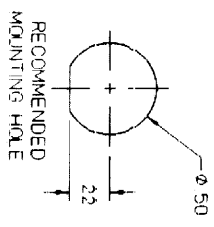
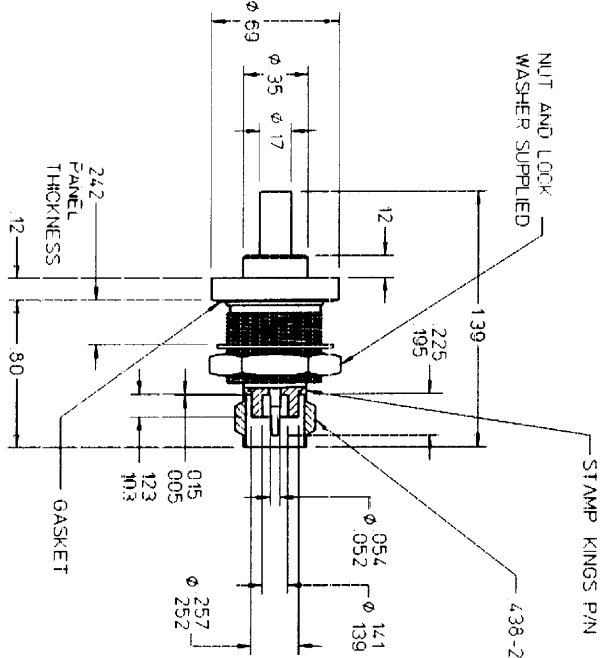
REV	DESCRIPTION	DATE	DRAWN & APPROVED
C	-002 PER ECN 027402	03-30-98	JLEE ROH

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIALS:
INSULATORS: TEFLON, ASTM-D-1457
GASKET: SILICONE RUBBER, ZZ-R-765
K GRIP SLEEVE: COMMERCIAL BRONZE TUBE, ALLOY 220
CENTER CONTACT: BERYLLIUM COPPER, ASTM-B-196
LOCKWASHER: PHOSPHOR BRONZE, 00-B-750
ALL OTHER METAL PARTS: BRASS, ASTM-B16

2. FINISHES:
CENTER CONTACTS: GOLD PLATE PER MIL-Q-45204
ALL OTHER METAL PARTS: KINGS TARNISH RESISTANT FINISH (TR-5)
FOR USE WITH RG-174, 179, 187 AND 188/U CABLES.
FOR CABLEING INSTRUCTIONS SEE KINGS 3-590.
REMOVED.
FOR CRIMPING USE KINGS DIE KTH-2006.
INLET-ACE PER MIL-SITD-348, FIG. 313-1 (AS APPLICABLE).

3. ELECTRICAL CHARACTERISTICS:
NOMINAL IMPEDANCE: 50 OHMS
WORKING VOLTAGE: 500 VRMS
FREQUENCY RANGE: DC TO 11 GHZ
DIELECTRIC WITHSTANDING VOLTAGE: 1500 VOLTS RMS.
INSULATION RESISTANCE: 5000 MEGOHMS.
VSWR: 1.50 MAX. AT 25 GHZ.
CONTACT RESISTANCE: CENTER CONTACTS 1.5 MILLIOHMS
OUTER CONTACTS .2 MILLIOHMS
INSERTION LOSS: .16dB MAX AT 9 GHZ.
TWO CRIMP FERRULES FOR BFA AND OSMT SPACER & TUBE
SUPPLIED LOOSE IN BAG.
REQUIRED FOR ASSY OF OSMT COAXIAL CABLE, 582273.
CABLE NOT RECOMMENDED FOR USE ABOVE 2.5 GHZ.



-002

9. SPACER, TEFLON
KINGS #1-1689-11M99
10. TUBE, BRASS
KINGS #1-7068-14M07

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SOURCE CONTROL DRAWING

CAD DREF-R058905.1.c		UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES.	
SYSTEM HP/AE30		APPROVALS		DATE	
DRAWN DHAGAN 11-19-92		TITLE		CONNECTOR, BULKHEAD,	
CHECKED RHAGAN 11-19-92		REV		END M. S. LAVER 11-24-92	
INFO K. C. ANTRELL 11-19-92		SIZE		PAGE 0000	
INFO END R. K. ANTRELL 11-20-92		C		33025	
SAC PHELTON 11-23-92		SCALE		2/1	
6001 36TH AVENUE WEST		DRAWING NUMBER		058905	
EVERETT, WA 98203-9280		REV		C	
SHEET 1 OF 1		REV		C	

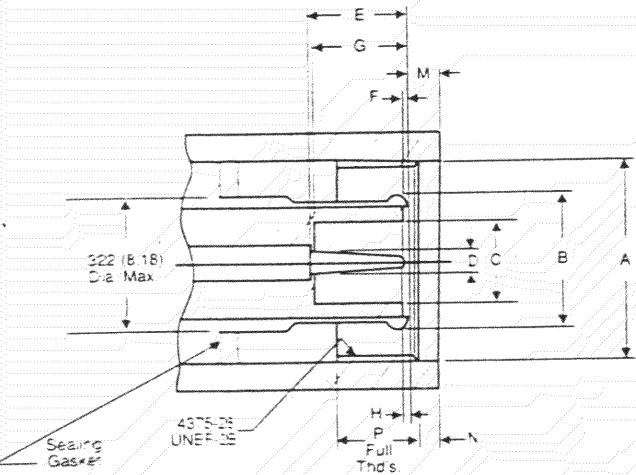
FINISHES

Contacts	1. Standard finish on all MIL-PRF-39012 items .00005 (.0012mm) min. hard gold plate per MIL-G-45204 over .00005 (.0012mm) min. nickel plate per QQ-N-290. 2. All other items .00005* (.0012mm) min. hard gold plate per MIL-G-45204 over copper, unless otherwise specified.
Bodies & Fittings	1. Standard finish .0002* (.005mm) min. silver plate, electro-deposited per QQ-S-365A plus Kings TR-4* electrolytic chromate treatment. 2. TR-5* – Kings tarnish resistant alloy electrodeposit finish.

INTERFACE

Per MIL-PRF-39012 or MIL-STD-348 as applicable

PLUG



Dim Ltr	inches (mm)		Dim Ltr	inches (mm)	
	Minimum	Maximum		Minimum	Maximum
A	.440 (11.18)		G	.208 (5.28)	.228 (5.79)
B	Gauge Test		H	.003 (0.08)	.040 (1.02)
C	.190 (4.83)		M		.078 (1.98)
D	.052 (1.32)	.054 (1.37)	N	.063 (1.60)	
E	.210 (5.33)	.230 (5.84)	P	.156 (3.96)	
F	.006 (0.15)				

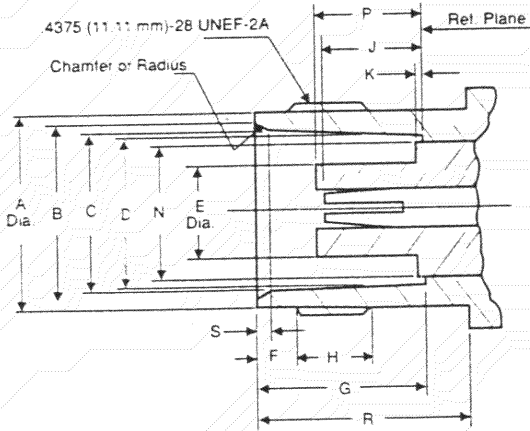
(MIL-PRF-39012 cable connectors)

ENVIRONMENTAL

Temperature Range	PTFE Insulators: -85°F to +329°F (-65°C to +165°C)
Vibration	MIL-STD-202 Method 204, test condition B
Shock	MIL-STD-202 Method 213, test condition G
Corrosion (salt spray)	MIL-STD-202 Method 101, test condition B
Moisture Resistance	MIL-STD-202 Method 106
Hermetic Seals	Leakage shall not exceed 1×10^{-7} cc/sec of tracer gas at atmospheric pressure.
Compression Seals	Gasketed units show no leakage at 50 psi.

Specifications are typical for straight plug configurations designed to MIL-PRF-39012 and may not apply to all connectors.

JACK



Dim Ltr	inches (mm)		Dim Ltr	inches (mm)	
	Minimum	Maximum		Minimum	Maximum
A	.378 (9.60)	.381 (9.68)	H	.187 (4.75)	
B	.346 (8.79)	.356 (9.04)	J	.186 (4.72)	.206 (5.23)
C	.327 (8.31)	.333 (8.46)	K		.006 (0.15)
D	.319 (8.10)	.321 (8.15)	N		.256 (6.50)
E		.186 (4.72)	P	.188 (4.78)	.208 (5.28)
F	.068 (1.73)	.088 (2.24)	R	.414 (10.52)	
G	.327 (8.31)	.335 (8.51)	S	.015 (0.38)	.030 (0.76)