

As you can see 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 mate our custom TNC connector with a standard polarized (reversed gender) TNC connector, since the insulators would be destroyed if the connectors are forced, causing short circuit.

APPROVED SOURCE(S) OF SUPPLY

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

					REVISION
5	4	3	2	1	SHEET

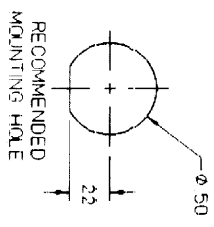
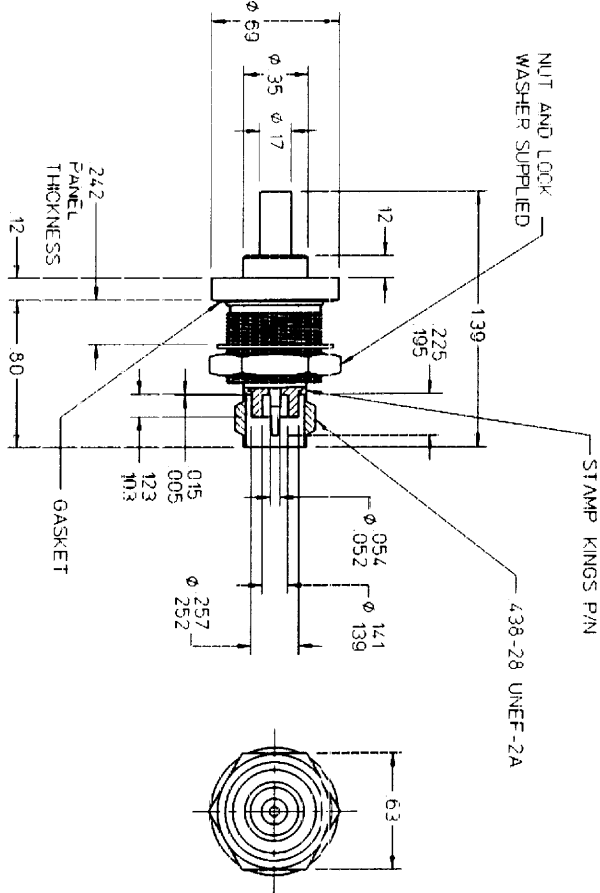
REV	DESCRIPTION	DATE	DRAWN & APPROVED
C	-002 PER ECN 027402	03-30-98	JLEE ROH

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.



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SOURCE CONTROL DRAWING

CAD DREF-R058905.1.c		UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES.	
SYSTEM HP/AE30		XX ± .02		XXX ± .010	
ANALYS ±		APPROVALS		DATE	
DRAWN DHAGAN 11-19-92		TITLE		CONNECTOR, BULKHEAD,	
CHECKED RHAGAN 11-19-92		SIZE		DRAWMAN	
REF'D ENG M-SHAWVER 11-24-92		C 33025		058905	
QA K-CANTRELL 11-19-92		C 33025		058905	
INFO ENG B-KALFEN 11-20-92		C 33025		058905	
SAC PHELLON 11-23-92		SCALE 2/1		SHEET 1 OF 1	

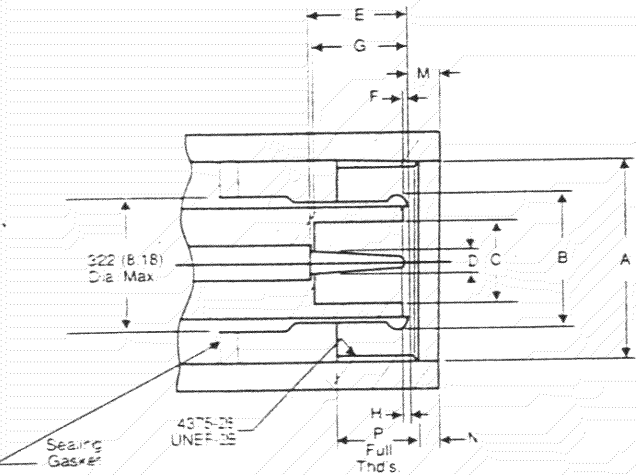
FINISHES

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)				

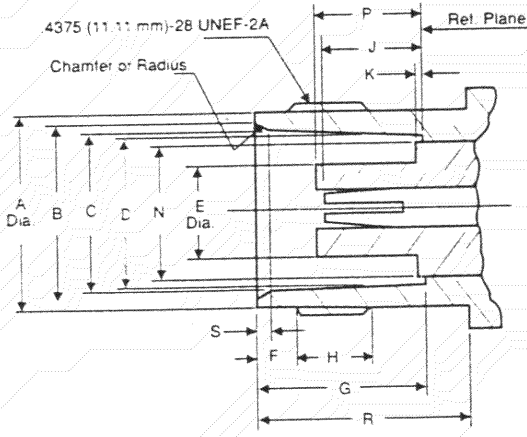
(MIL-PRF-39012 cable connectors)

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)