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REV.	DESCRIPTION	DATE	BY	APPVD
A	INITIAL RELEASE	2/25/2005	JMK	RDS
B	ECO 85198	4/14/2008	MJM	RS
C	ECO 115000	1/3/2011	MJM	RS
C1	ECO 115151	3/14/2011	MJM	RS
D	ECO125465	8/30/2012	MJM	RS

**MECHANICAL CHARACTERISTICS**

INTERFACE	PER MICRO-COAX DRAWING A-15833
SLANT SHEET	N/A
FLOAT MOUNT TRAVEL (AXIAL)	0.060 MIN. TRAVEL
FLOAT MOUNT SPRING FORCE MIN.	1.6 LBS.
FLOAT MOUNT SPRING FORCE MAX.	4.2 LBS.
FORCE TO ENGAGE	1.5 LBS. MAX.
INTERFACE DURABILITY	500 CYCLES MIN.
AXIAL CONTACT RETENTION (FROM INTERFACE)	6 LBS. MIN.
AXIAL CONTACT RETENTION (FROM CABLE)	6 LBS. MIN.
CABLE RETENTION	15 LBS. MIN.
MASS	1.74 GRAMS NOM.

**ELECTRICAL CHARACTERISTICS**

IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	40 GHz
VSWR DC - 18 GHz	1.14:1 MAX.
18 GHz - 24 GHz	1.17:1 MAX.
24 GHz - 40 GHz	1.25:1 MAX.
INSERTION LOSS	0.03 √F (GHz)dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	625 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	160 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	425 Vrms MIN.
CONTACT RESISTANCE (INNER)	6.0 Milliohms MAX.
CONTACT RESISTANCE (OUTER)	2.0 Milliohms MAX.

**ENVIRONMENTAL CHARACTERISTICS**

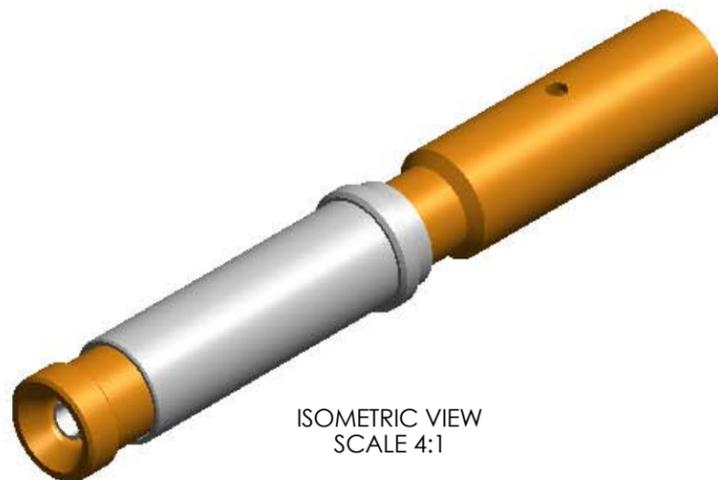
OPERATING TEMPERATURE	-65°C TO 165°C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION D
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION F
MOISTURE RESISTANCE	N/A
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%

**MATERIALS AND FINISH**

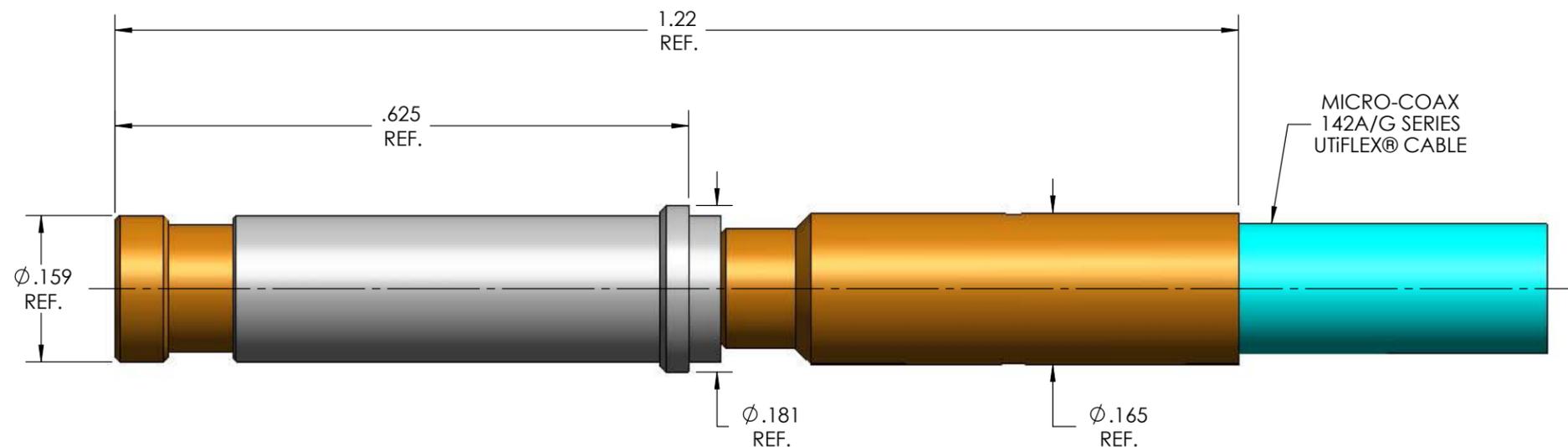
FLOAT MOUNT HOUSING	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
SPRING	STEEL, CORROSION RESISTANT, NON-MAGNETIC, 17-7 PH SS COND. C (CH-900) PER AMS 5678, PASSIVATED PER ASTM-A-967
CONTACT, BODY, FRONT BODY, & REAR BODY	BERYLLIUM COPPER, PER ASTM-B-196, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
DIELECTRIC BEAD, DIELECTRIC STOP	POLYPHENYLENE SULFIDE (PPS) PER ASTM-D-6358
INSULATOR	TFEFLUORCARBON PER ASTM-D-1710

**APPLICATION**

CABLE(S)	142 A/G SERIES CABLE
INSTALLATION	PER CONFIGURATOR



ISOMETRIC VIEW  
SCALE 4:1



**SPECIFICATION DRAWING**

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	DWN. DBK	1/18/04					
	CHKD. CCF	8/29/12					
	APPVD.						
TOLERANCES UNLESS OTHERWISE SPECIFIED	TITLE		#12 38999 SOCKET, 142A/G CABLE				
.XX ±.02	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.	FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV
.XXX ±.005							
.XXXX ±.0010							
ANGLES ±2°							
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