

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348, FIGURE 310-2
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/59 REF.
RECOMMENDED MATING TORQUE	9 IN-LBS. NOM.
FORCE TO ENGAGE	2 IN-LBS. MAX.
FORCE TO DISENGAGE	2 IN-LBS. MAX.
DURABILITY	500 CYCLES MIN.
AXIAL CONTACT RETENTION (FROM INTERFACE)	6 LBS. MIN.
AXIAL CONTACT RETENTION (FROM CABLE)	6 LBS. MIN.
CENTER CONTACT INSERTION (FROM CABLE)	2 LBS. MAX
CENTER CONTACT WITHDRAW (FROM CABLE)	1 Oz. MIN.
CABLE RETENTION	20 LBS. MIN.
MASS	3.61 GRAMS NOM.
MASS WITHOUT NUT & LOCKWASHER	3.07 GRAMS NOM.
RECOMMENDED LOCKNUT TORQUE	12 - 15 IN. LBS.
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	24 GHz
VSWR DC - 18 GHz	1.16:1 MAX.
18 GHz - 24 GHz	1.22:1 MAX.
INSERTION LOSS	0.04 √F (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1225 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
18 GHz - 24 GHz	-80 dB MIN.
CORONA	310 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	800 Vrms MIN.
CONTACT RESISTANCE (INNER)	4.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	2.0 MilliOhms MAX.
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-100 °C TO 150 °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 (NO VIBRATION)
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%
MATERIALS AND FINISH	
CONTACT & BODY	BERYLLIUM COPPER, ASTM-B-196, GOLD PLATED PER MIL-DTL-45204, OVER NICKEL PLATE PER AMS-QQ-N-290
LOCKNUT	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
INSULATOR	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC BEADS	POLYETHERIMIDE THERMOPLASTIC, PER ASTM-D-5205
FLAT WASHER	STEEL, CORROSION RESISTANT, PER ASTM-A-240, UNS NO. S30400, PASSIVATE PER ASTM-A-967
APPLICATION	
CABLE(S)	197C SERIES CABLE
INSTALLATION	PER CONFIGURATOR

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ISOMETRIC VIEW  
SCALE 2:1

1.8 MAX  
FOR ROUTING PURPOSES,  
CABLE BEND STARTS  
AT END OF HEAT SHRINK  
(NOTE 1)

.125  
MAX PANEL  
THICKNESS

.312 REF.  
FLAT

Ø.308  
REF.  
(NOTE 1)

Ø.257  
REF.  
(NOTE 1)

Ø.015 REF.  
VENT HOLE  
TYP. (2X)  
180° APART

SHRINK SLEEVE(S)  
(NOTE 1)

MICRO-COAX  
197C SERIES  
UTIFLEX® CABLE

.076  
REF.

- RP -

.415  
REF.

.515  
REF.

.911  
REF.

NOTES:

1. MARKER LOCATION ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

2. ALL SPECIFICATIONS LISTED ON THIS DRAWING WILL ALSO APPLY TO CONNECTOR 904479-EM (EQUIPMENT MODEL).

±.004  
Ø.255

RECOMMENDED  
MOUNTING HOLE

Ø.240

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		DWN.	JMK	1/2/06							
		CHKD.	CCF	7/8/13							
		APPVD.									
TOLERANCES UNLESS OTHERWISE SPECIFIED		TITLE									
.XX		SMA BULKHEAD JACK, 197C, VENT HOLES, SPACE GRADE									
.XXX											
.XXXX											
ANGLES											
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.		FSCM NO.	SIZE	SCALE	SHEET NO.						
		64639	B	5:1	1 OF 1						
		DRAWING NO.		REV							
		SD904479		C							

SPECIFICATION DRAWING

MICRO-COAX

PROVEN RELIABLE