

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348, FIGURE 304-2
RECOMMENDED MATING TORQUE	20 IN-LBS. NOM.
FORCE TO ENGAGE	6 IN-LBS. MAX.
FORCE TO DISENGAGE	6 IN-LBS. MIN.
CONTACT CAPTIVATION (BOTH DIRECTIONS)	6 LBS. MIN.
DURABILITY	500 CYCLES MIN.
CABLE RETENTION	10 LBS. MIN.
MASS	29 GRAMS NOM.
CENTER CONTACT INSERTION FORCE (INTERFACE)	2 LBS. MAX.
CENTER CONTACT WITHDRAWAL FORCE (INTERFACE)	2 OZ. MIN.
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms. NOM.
MAXIMUM FREQUENCY	18 GHz
VSWR DC - 18 GHz	1.16:1 MAX.
INSERTION LOSS	0.045 $\sqrt{f}$ (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1200 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB
CORONA	400 Vrms. MIN. @ 70,000 FEET
RF HIGH POTENTIAL	800 Vrms. MIN.
CONTACT RESISTANCE (INNER)	1.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	0.2 MilliOhms MAX.
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-65°C TO +165°C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION B
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106, CONDITION (NO VIBRATION)
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%
MATERIAL AND FINISH	
CONTACT	BERYLLIUM COPPER, UNS NO. C17300, PER ASTM-B-196 GOLD PLATE PER MIL-G-45204, 50 MICROINCH MIN., OVER NICKEL PLATE PER QQ-N-290, 50 MICROINCHES THK. MIN.
BODY, SLEEVE, CLAMP NUT	STEEL, CORROSION RESISTANT, CONDITION A, NON-MAGNETIC PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
INSULATOR, DIELECTRIC STOP	POLYPHENYLENESULFIDE (PPS) PER ASTM-D-6358
CONTACT RING	BRASS, TEMPER H02, PER ASTM-B-16 UNS NO. C36000 GOLD PLATE PER MIL-G-45204, 50 MICROINCHES MIN., OVER NICKEL PLATE PER QQ-N-290, 50 MICROINCHES MIN.
APPLICATION	
CABLE(S)	147A SERIES
INSTALLATION	PER CONFIGURATOR

REV.	DESCRIPTION	DATE	BY	APPVD
A	INITIAL RELEASE	02/23/05	SRS	RDS

ISOMETRIC VIEW
SCALE 1:1

2.31 REF. (NOTE 1)

1.445 ± .015

.7695 ± .0050

.312 REF.

Ø .620

Ø .437

Ø .50 REF. (NOTE 1)

Ø .21 REF. (NOTE 1)

MICRO-COAX UTIFLEX® 147A SERIES CABLE

SHRINK SLEEVE(S)

.625-24 UNEF-2A THD.

.361

.357

REF. PLANE

.500 REF. ACROSS FLATS

NOTE:

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

SPECIFICATION DRAWING

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	DWN.	SRS	10/29/04												
	CHKD.														
	APPVD.														
TOLERANCES UNLESS OTHERWISE SPECIFIED		TITLE				N JACK, PRECISION, 147A SERIES 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					64639	B	3:1	1 OF 1	SD904181	A				
.XXXX	± .0010														
ANGLES	± 2°														