

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348
FORCE TO ENGAGE	2 IN-LBS. MAX.
FORCE TO DISENGAGE	2 IN-LBS. MAX.
DURABILITY	500 CYCLES MIN.
AXIAL CONTACT RETENTION (FROM INTERFACE)	6.0 LBS. MIN.
AXIAL CONTACT RETENTION (FROM CABLE)	6.0 LBS. MIN.
CENTER CONTACT INSERTION (FROM CABLE)	3.0 LBS. MAX.
CENTER CONTACT WITHDRAWAL (FROM CABLE)	1 oz. MIN.
CABLE RETENTION	10 LBS. MIN.
MASS	8.2 grams NOM.
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms. NOM.
MAXIMUM FREQUENCY	18 GHz
VSWR DC - 18 GHz	1.16:1 MAX.
INSERTION LOSS	0.03 F(GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	1200 √ Vrms. MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE	-90 dB MIN.
CORONA	300 Vrms. MIN. @ 70,000 FEET
RF HIGH POTENTIAL	600 Vrms. MIN.
CONTACT RESISTANCE (INNER)	3.0 Milliohms MAX.
CONTACT RESISTANCE (OUTER)	2.0 Milliohms MAX.
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-55°C to +125°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	MIL-STD-202, METHOD 106, (NO VIBRATION)
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%
MATERIAL AND FINISH	
BODY, CLAMP NUT	STEEL, CORROSION RESISTANT, CONDITION A, NON-MAGNETIC PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967.
CONTACT RING	BRASS, UNS NO. C36000, PER AST,-B-16. GOLD PLATE PER MIL-G-45204, 50 MICROINCHES MIN., OVER NICKEL PLATE PER QQ-N-290, 50 MICROINCHES MIN.
CONTACT	BERYLLIUM COPPER, UNS NO. C17300, PER ASTM-B-196. GOLD PLATE PER MIL-G-45204, 50 MICROINCHES MIN., OVER NICKEL PLATE PER QQ-N-290, 50 MICROINCHES MIN.
INSULATOR, DIELECTRIC STOP	TPE FLUOROCARBON PER ASTM-D-1710.
APPLICATION	
CABLE(S)	142 SERIES
INSTALLATION	PER CONFIGURATOR

REV.	DESCRIPTION	DATE	BY	APPVD.
1	PRELIMINARY RELEASE	01/14/05	SRS	DBK

SPECIFICATION DRAWING

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	DWN. SRS	01/14/05						
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	APPVD.							
TOLERANCES UNLESS OTHERWISE SPECIFIED	TITLE							
.XX ± .02	SMA JACK, 142 SERIES							
.XXX ± .005	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B11-1989.							
.XXXX ± .0010	FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.	REV		
ANGLES ± 2°	64639	B	1:1	1 OF 1	SD903034	1		