

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348
FORCE TO ENGAGE	15.0 LBS. MAX. (FULL DETENT)
FORCE TO DISENGAGE	5.0 LBS. MIN. (FULL DETENT)
DURABILITY	100 CYCLES MIN.
CABLE RETENTION	2 LBS. MIN.
MASS	0.65 grams NOM.
CONTACT CAPTIVATION	3.0 LBS. MIN. (BOTH DIRECTIONS)
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms. NOM.
MAXIMUM FREQUENCY	26.5 GHz
VSWR DC - 20 GHz	1.20:1 MAX.
20 - 26.5 GHz	1.35:1 MAX.
INSERTION LOSS	0.08 √F(GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	250 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 3 GHz.	-80 dB
3 - 26.5 GHz.	-65 dB
CORONA	95 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	170 Vrms. MAX.
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 B
MOISTURE RESISTANCE	MIL-STD-202, METHOD 106 (NO VIBRATION)
COROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%
MATERIAL AND FINISH	
MAIN BODY ANTI-ROCK RING EMI SHIELD RING	BeCu, UNS C17300 PER ASTM-B-196, GOLD PLATE 50 MICROINCHES MIN. PER MIL-G-45204 OVER 50 MICROINCHES MIN. OF NICKEL PLATE PER QQ-N-290
CENTER CONTACT & BACK BODY	BeCu, UNS C17300 PER ASTM-B-196, GOLD PLATE 50 MICROINCHES MIN. PER MIL-G-45204 OVER 50 MICROINCHES MIN. OF NICKEL PLATE PER QQ-N-290
INSULATOR(S)	POLYPHENYLENE SULFIDE (PPS), UNFILLED
APPLICATION	
CABLE(S)	UGF050D
INSTALLATION	PER CONFIGURATOR

REV.	DESCRIPTION	DATE	BY	APPVD.
A	INITIAL RELEASE	05/17/05	SRS	MJK
A1	ECO 55760	10/20/05	JMK	RS
B	ECO 65307	8/16/06	JMK	RDS

Technical drawing of a female SMP socket. The drawing shows a side view of the component with various dimensions and labels. Key dimensions include: a top view of the contact tip with a 50° TYP. angle, a length of .156, and a width of .056; a side view showing a length of 1.250 REF. (NOTE 1), a contact diameter of .095 REF. (NOTE 1), and a body diameter of .116 REF. (NOTE 1). Other dimensions include .068, .265, .200, .250 REF., and .347. Labels include "REF. PL.", "SMP SOCKET INTERFACE", "SHRINK SLEEVE(S) (NOTE 1)", and "UGF050D CABLE UTIFLEX® SERIES".

NOTE:

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

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		DWN. MJK	01/27/03							
		CHKD.								
		APPVD.								
TOLERANCES UNLESS OTHERWISE SPECIFIED		TITLE SMP FEMALE (SOCKET), MITER RT. ANGLE, UGF050D, CHAMFERED PROFILE								
.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°									
		64639	B	5:1	1 OF 1	SD903844	B			