

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348, FIGURE 309-1 (NOTE 2)
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/35 REF.
RECOMMENDED MATING TORQUE	10-15 IN-LBS. NOM.
COUPLING PROOF TORQUE	15 IN-LBS. MIN.
COUPLING NUT RETENTION	100 LBS. MIN.
FORCE TO ENGAGE	3 IN-LBS. MAX.
FORCE TO DISENGAGE	3 IN-LBS. MIN.
DURABILITY	500 CYCLES MIN.
AXIAL CONTACT RETENTION (FROM INTERFACE)	15 LBS. MIN.
AXIAL CONTACT RETENTION (FROM CABLE)	15 LBS. MIN.
CABLE RETENTION	20 LBS. MIN.
MASS	62.60 GRAMS NOM.
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	9.5 GHz
VSWR DC - 8 GHz	1.16:1MAX.
8 GHz - 9.5 GHz	1.2:1MAX.
INSERTION LOSS	0.04 √F (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	4000 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 9.5 GHz	-90 dB MIN.
CORONA	1000 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	3000 Vrms MIN.
CONTACT RESISTANCE (INNER)	3.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	3.0 MilliOhms MAX.
MAXIMUM POWER RATING	80 WATTS MAX @ 9.5 GHz
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-40°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%
MATERIALS AND FINISH	
CONTACT(S)	BERYLLIUM COPPER PER ASTM-B-196, GOLD PLATE PER MIL-DTL- 45204, OVER NICKEL PLATE PER AMS-QQ-N-290.
DIELECTRIC BEAD	POLYETHERETHERKETONE , PER MIL-P-46183, TYPE1
BODIES, COUPLING NUT & CLAMP NUT	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
CONTACT RING	BRASS, PER ASTM-B-16, GOLD PLATE PER MIL-DTL-45204 OVER, NICKEL PLATE PER AMS-QQ-N-290
GASKET	FLUOROCARBON ELASTOMER, PER ASTM D2000 M4HK710F17Z1
INSULATORS & DIELECTRIC STOP	TFE FLUOROCARBON PER ASTM-D-1710
APPLICATION	
CABLE(S)	-1, -Q ARMOR, 293C SERIES CABLE
INSTALLATION	PER CONFIGURATOR

THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL

ISOMETRIC VIEW
SCALE: 1:1

.750 REF.
HEX

Ø.837 REF.
ACROSS PTS.
(NOTE 2)

Ø.032 REF.
WIRE HOLES
TYP. (3X)

3.04 REF.

.750 REF.

Ø.660 REF.

Ø.096 REF.
SPANNER HOLES
TYP. (3X)

Ø.62 REF.

Ø.600 REF.

1.564 REF.

1.79 REF.

Ø.0360

- RP -

-1, -Q ARMOR
293 SERIES CABLE

NOTE:

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

2. CONNECTOR DOES NOT MEET MIL-STD-348, FIG 309.1, Ø.828 MAX.

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INITIALS	DATE
DWN. PLM	12/19/13
CHKD. CCF	12/20/13
APPVD.	

TOLERANCES UNLESS OTHERWISE SPECIFIED	
.XX	± .02
.XXX	± .005
.XXXX	± .0010
ANGLES	± 2°

TITLE	
SC PLUG, WIRE HOLES, -1, -Q ARMOR, 293C CABLE	

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
	64639	B	2:1	1 OF 1	SD905318	A

SPECIFICATION DRAWING