

MECHANICAL CHARACTERISTICS	
INTERFACE	MIL-STD-348, FIGURE 310-1
IN ACCORDANCE WITH THE INTENT OF SLANT SHEET	MIL-PRF-39012/55 REF.
RECOMMENDED MATING TORQUE	9 IN-LBS. NOM.
COUPLING PROOF TORQUE	15 IN-LBS. MIN.
COUPLING NUT RETENTION	60 LBS. MIN.
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)	3 LBS. MAX
CENTER CONTACT WITHDRAW (FROM CABLE)	1 Oz. MIN.
CABLE RETENTION	10 LBS. MIN.
MASS	MASS = 6.72 GRAMS NOM.

ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ohms NOM.
MAXIMUM FREQUENCY	32 GHz
VSWR DC - 18 GHz	1.12:1 MAX.
18 - 26.5 GHz	1.16:1 MAX.
26.5 - 32 GHz	1.2:1 MAX.
INSERTION LOSS	0.03 \sqrt{f} (GHz) dB MAX.
DIELECTRIC WITHSTANDING VOLTAGE	825 Vrms MIN.
INSULATION RESISTANCE	5000 MegaOhms MIN.
RF LEAKAGE DC - 18 GHz	-90 dB MIN.
CORONA	210 Vrms MIN. @ 70,000 FEET
RF HIGH POTENTIAL	550 Vrms MIN.
CONTACT RESISTANCE (INNER)	3.0 MilliOhms MAX.
CONTACT RESISTANCE (OUTER)	2.0 MilliOhms MAX.

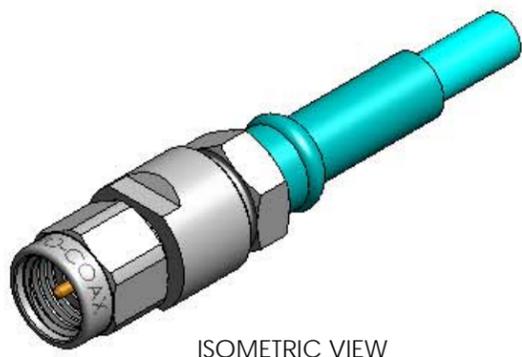
ENVIRONMENTAL CHARACTERISTICS	
OPERATING TEMPERATURE	-65 °C TO 165 °C
VIBRATION	MIL-STD-202, METHOD 204, CONDITION D
MECHANICAL SHOCK	MIL-STD-202, METHOD 213, CONDITION I
THERMAL SHOCK	MIL-STD-202, METHOD 107, CONDITION B
CORROSION	MIL-STD-202, METHOD 101, CONDITION B, 5%

MATERIALS AND FINISH	
BODY, CLAMP NUT, & COUPLING NUT	STEEL, CORROSION RESISTANT, PER ASTM-A-582, UNS NO. S30300, PASSIVATE PER ASTM-A-967
CONTACT	BERYLLIUM COPPER, ASTM-B-196 GOLD PLATE PER ASTM B488, TYPE 3, CODE C, CLASS 1.25 OVER NICKEL PLATE IN ACCORDANCE WITH SAE-AMS-QQ-N-290.
SNAP RING	BERYLLIUM COPPER, PER ASTM-B-197
INSULATOR	TFE FLUOROCARBON PER ASTM-D-1710
DIELECTRIC BEAD	POLYETHERMIDE THERMOPLASTIC PER ASTM-D-5205
GASKET	FLUOROCARBON ELASTOMER (VITON) PER ASTM -D-1418. 55-65 DUROMETER.
CONTACT RING	BRASS, PER ASTM-B-16

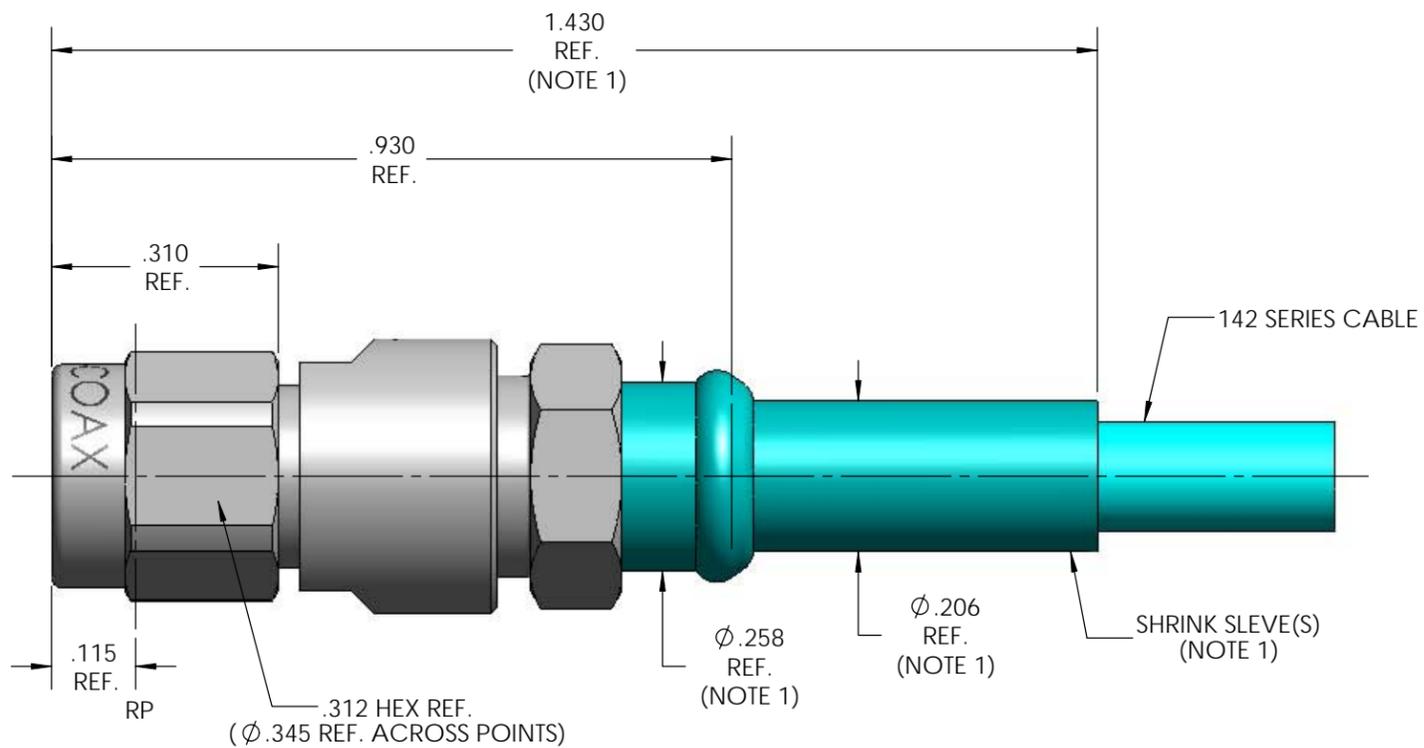
APPLICATION	
CABLE(S)	142 SERIES CABLE
INSTALLATION	PER CONFIGURATOR

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REV.	DESCRIPTION	DATE	BY	APPVD
A	ECO 75278	5/7/2007	MJM	RS
B	ECO 95800	1/27/2010	MJM	RS



ISOMETRIC VIEW
SCALE 2:1



NOTE:

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

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	DWN.	MJM	5/7/07		
	CHKD.	RS	1/27/10		
	APPVD.				
TOLERANCES UNLESS OTHERWISE SPECIFIED	TITLE				
XX ± .02	SMA PLUG, 142 SERIES CABLE				
.XXX ± .005	ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. SCREW THDS. TO BE IN ACCORD WITH ANSI B1.1-1989.				
.XXXX ± .0010	FSCM NO.	SIZE	SCALE	SHEET NO.	DRAWING NO.
ANGLES ± 2°	64639	B	4:1	1 OF 1	SD903604
					REV
					B