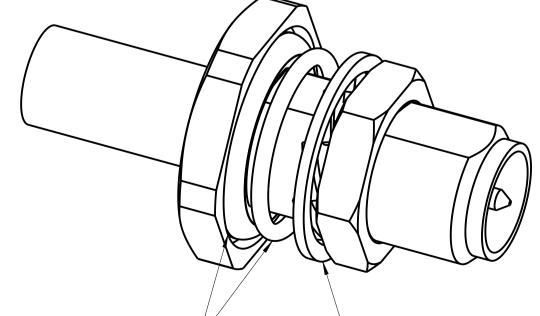
NOTES I.O CHARACTERISTICS: (UNLESS OTHERWISE SPECIFIED) I.I. GENERAL: I.I.I. PARTS MUST BE CLEAN AND FREE OF ALL FOREIGN MATTER. I.I.2. PACKAGING FOR SHIPMENT: PARTS MUST BE PACKAGED TO PREVENT DAMAGE DURING SHIPMENT. PACKAGING DESIGN MUST BE APPROVED BY NSN BEFORE PROCEEDING WITH PRODUCTION RUN OF PARTS. I.I.3. SAMPLE PARTS MUST BE APPROVED BY NSN BEFORE PROCEEDING WITH PRODUCTION RUN. I.I.4. A REFERENCE DIMENSION (X.XX) IS A DIMENSION WITHOUT TOLERANCE AND IS USED FOR INFORMATION PURPOSES ONLY. I.I.5. ALL DIMENSIONS SHOWN ACROSS A CENTERLINE SHALL BE CENTRALIZED WITHIN ONE HALF THEIR TOTAL TOLERANCE. I.I.6. A CRITICAL DIMENSION IS DENOTED WITH A BOX-X SYMBOL X I.I.7. ALL WIRING, SLEEVING, AND TUBING TO BE UL RECOGNIZED COMPONENTS. I.I.8. THE OVERALL CABLE ASSEMBLY SHALL BE MANUFACTURED TO COMPLY WITH UL TRACEABILITY REQUIREMENTS PER WIRING HARNESS (CATEGORY ZPFW2) AND/OR PROCESS WIRE CATEGORIES (ZKLU, ZKLU2, ZKLU7, AND ZKLU8 (AS APPLICABLE PER ASSEMBLY). THE CABLE ASSEMBLY MAY BE SUBJECT TO A UL END-PRODUCT FOLLOW-UP SERVICES INSPECTION. I.2. ENVIRONMENTAL I.2.I. OPERATING TEMPERATURE RANGE: -40°C TO +85°C. I.2.2. STORAGE TEMPERATURE RANGE: -40°C TO +85°C. I.2.3. HUMIDITY RANGE: IO% TO 95% RH. I.2.4. FLAME RESISTANCE: ALL COMPONENTS SHALL BE UL 94V-2 OR BETTER. EXEMPT FROM THIS REQUIREMENT ARE PVC, TFE, PTFE, FEP AND NEOPRENE INSULATION ON WIRING. CABLE TIES, HEAT SHRINK, AND LABELS ARE ALSO EXEMPT FROM THIS REQUIREMENT. I.3. MECHANICAL: I.3.I. CABLE: SEE TABLE 2. I.3.2. CONNECTORS: I.3.2.I. CONNECTOR A: SEE TABLE I. I.3.2.2. CONNECTOR B: SEE TABLE I. THIS CONNECTOR WILL BE EXPOSED TO THE ENVIRONMENT AND MUST BE IP67 RATED WHEN MATED. THE MATERIALS AND PLATING MUST BE CAPABLE OF WITHSTANDING A 30-DAYS SALT FOG TEST PER ASTM BII7-03 I.3.3. HEAT SHRINK TUBING TO BE FLAME RESISTANT, FLEXIBLE, HEAT SHRINKABLE POLYOLEFIN, PER MIL-DTL-23053/5C - CLASS I, OR APPROVED AND QUALIFIED EQUIVALENT. TUBING MUST BE TIGHT FITTING AND IMMOVABLE AFTER SHRINKING. I.3.4. MARKING: I.3.4.I. NSN CODE, PART REVISION, MANUFACTURE DATE CODE (WK/YR), AND VENDOR ID MUST BE PERMANENTLY AND LEGIBLY MARKED IN AREA SHOWN. REVISION LABELED MUST REFLECT CURRENT PART REVISION AT TIME OF MANUFACTURE. CHARACTERS MUST BE 2.0MM TO 4.0MM HIGH. I.3.5. CONNECTORS AND CABLES TO BE ASSEMBLED AND TERMINATED IN COMPLIANCE WITH CONNECTOR MANUFACTURER'S RECOMMENDATIONS. I.3.6. ALL CRIMPED CONNECTORS SHALL MEET PULL TEST AND CRIMP HEIGHT REQUIREMENTS OF THE CONNECTOR MANUFACTURER'S SPECIFICATIONS. I.3.7. WORKMANSHIP: THE FOLLOWING CONDITIONS WILL BE CONSIDERED WORKMANSHIP DEFICIENCIES OR DEFECTS AND ARE NOT ACCEPTABLE FOR ANY PRODUCTION SHIPMENT. I.3.7.I. INSULATION THAT IS BURNED, DAMAGED, OR MISSING (EXCLUDING THERMALLY STRIPPED SECTIONS). I.3.7.2. INSULATION THAT IS STRIPPED BACK IN A MANNER THAT ALLOWS THE CONDUCTOR OR SHIELD TO BE VISIBLE. I.3.7.3. INSULATION THAT IS NOT STRIPPED BACK IN A MANNER TO AVOID BEING INCLUDED IN THE SOLDER OR CRIMP AREA 1.3.7.4. CRIMP CONNECTORS THAT ARE LOOSE, OR EXHIBIT RELATIVE MOTION BETWEEN THE CONNECTOR AND THE CABLE. I.3.8. ALL CABLE ASSEMBLIES ARE TO BE SUPPLIED WITH AN IP50 RATED DUST CAP INSTALLED ON CONNECTOR "B". I.4. ELECTRICAL: * x I.4.I. RETURN LOSS: SEE TABLE I. * x I.4.2. INSERTION LOSS: SEE TABLE I I.4.3. TEST PROCEDURE: SAMPLE TESTING. SAMPLE TESTING FOR NOTES 1.4.1. AND 1.4.2. PER 1.4.3.1. IS REQUIRED. I.4.3.I. THE SUPPLIER IS TO MEASURE AND NOTE THE INSERTION LOSS AND VSWR ON EVERY TENTH ASSSEMBLY AND DETERMINE THE RUNNING Cpk LEVEL. IF THE Cpk IS LESS THAN 1.5, THE SUPPLIER WILL PERFORM 100% TESTING ON THE PREVIOUS NINE UNITS. THEN THE SUPPLIER MUST RESOLVE THE CABLE PERFORMANCE ISSUE AND PROCEED AS PREVIOUSLY DESCRIBED. ALL TESTED CABLES MUST MEET THE SPECIFICATIONS IN I.4.I. AND I.4.2. 2.0. QUALITY ASSURANCE PROVISIONS. 2.1. IT IS THE SUPPLIER'S RESPONSIBILITY TO SUPPLY A CERTIFICATE OF COMPLIANCE (COC) CERTIFYING THAT THE MATERIALS AND FINISHES USED IN THE PART MEET THE PRINT REQUIREMENTS. THE SUPPLIER WILL FURNISH NSN WITH A COC UPON REQUEST. 2.2. CONTINUITY: SUPPLIER MUST 100% TEST CABLES FOR DC CONTINUITY. 3.0. EXCEPTIONS: NO CHANGE SHALL BE ALLOWED ON PRODUCTION MATERIAL REGARDLESS OF WHETHER SUCH CHANGE AFFECTS REQUIREMENTS SPECIFIED, WITHOUT PRIOR WRITTEN APPROVAL FROM NSN. $- \emptyset 6.50 \pm 0.13$ SECURE ENV INTO GASKE USING DOW OR NSN APE └━━─── 6.00±0.13 ───━ PANEL CUTOUT DETAILS PROPRIETARY DATA ALL RIGHTS RESERVED SCALE IO:I

5

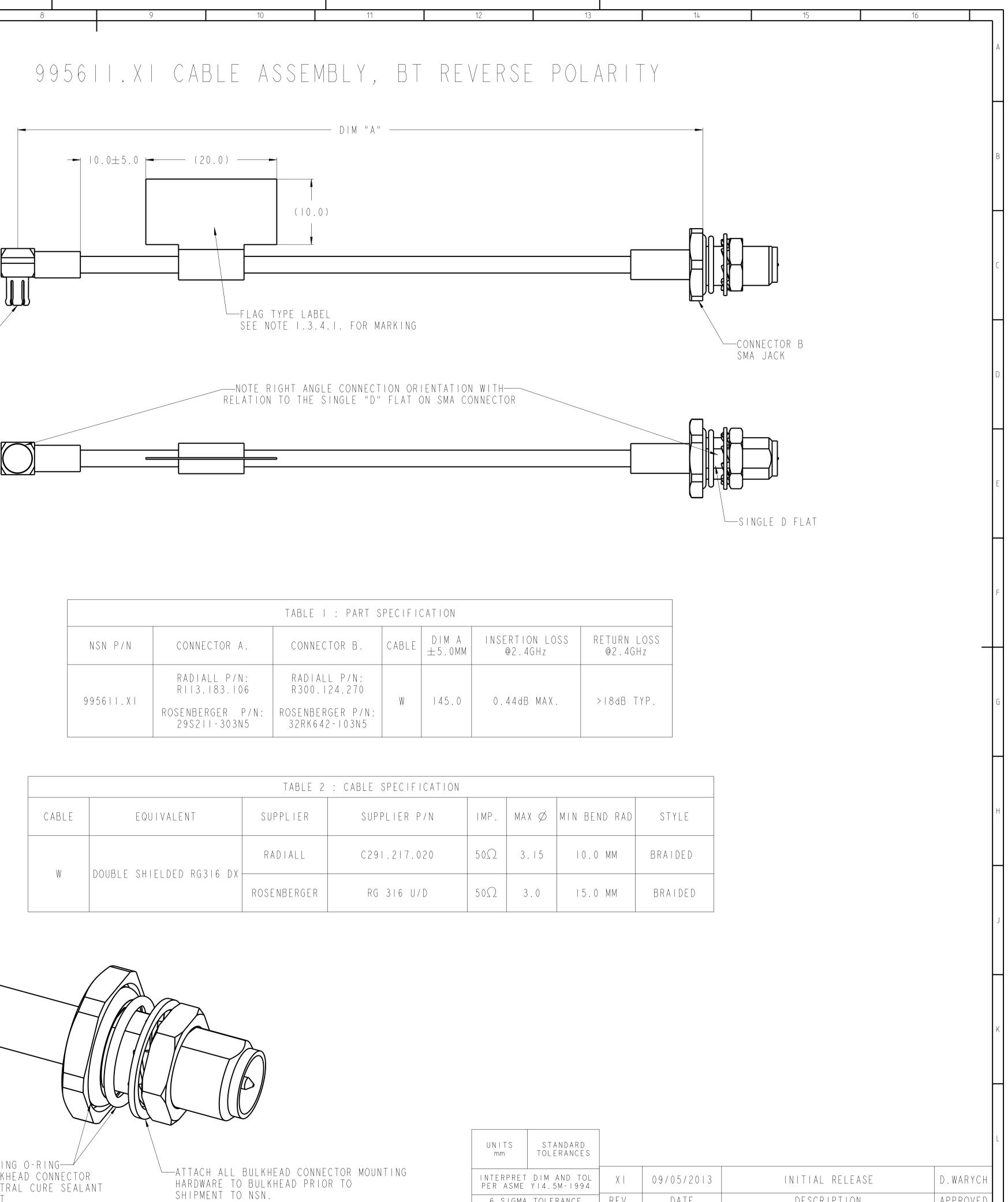
NVIRONMENTAL SE	ALING O-RING					UNITS	STA TOLE	N D A F R A N C
KET GROOVE IN B W CORNING 737 N	ULKHEAD CONNECTOR EUTRAL CURE SEALA	N T HAR	ACH ALL BULKHEAD CON RDWARE TO BULKHEAD PF		INTERPRET PER ASME			
PPROVED EQUIVAL			SHIPMENT TO NSN.					RANC WISE D
CONNECTOR B DETAILS SCALE 6:1							Χ.Χ	±0
							X . X X	±0
						ANGLE DIM	X°	±١
						REFERENCE	(X.X)	NC
7	8	9	10	11		12		
		\mathbf{V}						



CABLE	EQUIVALENT	SUPPLIER	SUPPLIER P/N	IMP.	MAX Ø	MII
W		RADIALL	C29I.2I7.020	50Ω	3.15	
	DOUBLE SHIELDED RG316 DX-	ROSENBERGER	RG 316 U/D	50Ω	3.0	

TABLE I : PART SPECIFICATION								
NSN P/N	CONNECTOR A.	CONNECTOR B.	CABLE	DIM A ±5.0MM	INSERTION LOSS @2.4GHz			
9956II.XI	RADIALL P/N: RII3.183.106	RADIALL P/N: R300.124.270	W	145.0	0.44dB MAX.			
	ROSENBERGER P/N: 29S2II-303N5	ROSENBERGER P/N: 32RK642-103N5	vv	140.0	0.440D MAX.			

CONNECTOR A RT ANGLED MCX PLUG



D TOL 1994	ΧI	09/05/2013			INITIAL RELEASE					D.WARYCH		
NCE	REV.	DATE			DESCRIPTION					APPROVED		
SE				ARGON		SEE TOLERANCE BLOCK			MASS:	g		
=0.3				PDF					Volume:	dm	3	
	995611	5611 XI REF: 133-135948.XI		48.XI	SI:		PREP	YATHISH	09/05/2013	Scale(s):	3:1	
=0.13	- 33 - 35948					VI	C HK	J.WESTFALL	09/05/2013			
= .0	133-13			A I APP		D.WARYCH	09/05/2013	$\square 6$	Dimensi	оп		
NONE	CABLE ASSEMBLY, BT REVERSE										in mm	
13] CAULE ASSEMULT, DI REVERSI				e fvlakti		NSN			Sheet(s):	/	
	MDL: 10708716 - 3 995611 DRW: 10708715 - 3 133-135948 Pr								/ENGINEER	Size:	ΑI	