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REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	04/08/22	P.THAO

QTY	PART NO	DESCRIPTION	ITEM NO
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	RNF-100-3/16-CL-SP	TE SHRINK TUBE, CLEAR	36
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	TTMS-MP-4.8-9	TE LABEL SHRINK TUBE, WHITE	35
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	RNF-100-3/8-CL-SP	TE SHRINK TUBE, CLEAR	34
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	TTMS-MP-9.5-9	TE LABEL SHRINK TUBE, WHITE	33
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	RNF-100-1/2-CL-SP	TE SHRINK TUBE, CLEAR	32
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	TTMS-MP-12.7-9	TE LABEL SHRINK TUBE, WHITE	31
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	RNF-100-3/4-CL-SP	TE SHRINK TUBE, CLEAR	30
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	RNF-100-1/4-CL-SP	TE SHRINK TUBE, CLEAR	29
- - - - - - - - - - A/R A/R	190814	SMA STRAIGHT PLUG	28
- - - - - - - - - - A/R A/R	190314	SMA STRAIGHT PLUG	27
- - - - - - - - - - A/R A/R	190614	SMA STRAIGHT PLUG	26
- - - - - - - - - - A/R A/R	150114	SMA STRAIGHT PLUG	25
- - - - - - - - - - A/R A/R	150514	SMA STRAIGHT PLUG	24
- - - - - - - - - - A/R A/R	150414	SMA STRAIGHT PLUG	23
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	190808	TNC STRAIGHT PLUG	22
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	190308	TNC STRAIGHT PLUG	21
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	190608	TNC STRAIGHT PLUG	20
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	190408	TNC STRAIGHT PLUG	19
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	150108	TNC STRAIGHT PLUG	18
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	150508	TNC STRAIGHT PLUG	17
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	150408	TNC STRAIGHT PLUG	16
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	190809	TNC 90° PLUG	15
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	190309	TNC 90° PLUG	14
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	190609	TNC 90° PLUG	13
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	190409	TNC 90° PLUG	12
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	150109	TNC 90° PLUG	11
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	150509	TNC 90° PLUG	10
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	150409	TNC 90° PLUG	9
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	S86208	50 OHM LOW LOSS COAXIAL CABLE	8
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	S33141	50 OHM LOW LOSS COAXIAL CABLE	7
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	S55122	50 OHM LOW LOSS COAXIAL CABLE	6
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	S22089	50 OHM SUPER LOW LOSS COAXIAL CABLE	5
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	UH44193	50 OHM ULTRA LIGHT WEIGHT, LOW LOSS COAXIAL CABLE	4
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	UH67163	50 OHM ULTRA LIGHT WEIGHT, LOW LOSS COAXIAL CABLE	3
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R	UH22089	50 OHM ULTRA LIGHT WEIGHT, LOW LOSS COAXIAL CABLE	2
A/R A/R A/R A/R A/R A/R A/R A/R A/R A/R - -	UH25107	50 OHM ULTRA LIGHT WEIGHT, LOW LOSS COAXIAL CABLE	1
<b>PARTS LIST</b>			

- NOTES
- ALL ASSEMBLY WORK TO BE PERFORMED ACCORDING TO ANG-MFG-WI-00056 UNLESS OTHERWISE NOTED.
  - SOLDERING TO BE PERFORMED ACCORDING TO IPC-J-STD-001, AS APPLICABLE.
  - WORKMANSHIP TO BE PERFORMED ACCORDING TO IPC-A-620, CLASS 2.
  - INCLUDE APPROPRIATE TEST DOCUMENTATION WITH EACH SHIPMENT.
  - PIC SHIPSET NUMBER 11012-4832 INCLUDES ALL -WXYYYY-ZZ CABLE OPTIONS ON THIS DWG. TO ORDER CABLE(S), SPECIFY ASSEMBLY CHARACTERISTICS AND DASH NUMBER FOR EACH CABLE (E.G. -110100-01, -120100-04, ETC.) SEE SHEET 5 FOR PART NUMBERING SCHEME.
  - LABELS ARE PER MIL-DTL-23053/5-1XX-9 (CLASS 1 - WHITE). COVER LABELS WITH CLEAR HEAT SHRINK PER MIL-DTL-23053/5-2XX-C (CLASS 2 - CLEAR). LENGTH AND SIZE OF LABELS & CLEAR SHRINK AS REQUIRED. XXXXX ON LABEL = PIC WIRE & CABLE SERIAL NUMBER, AS APPLICABLE. UNLESS OTHERWISE SPECIFIED:  
 FOR ASSEMBLIES 12 INCHES OR SHORTER, APPLY ONE LABEL LOCATED AT END A.  
 FOR ASSEMBLIES LONGER THAN 12 INCHES, APPLY ONE LABEL TO EACH END.  
 FOR ASSEMBLIES WITH AN UNTERMINATED END, APPLY ONE LABEL TO TERMINATED END ONLY (REGARDLESS OF LENGTH).
  - TOLERANCE IS +2"/-0" FOR ALL CABLE ASSEMBLIES. CUT LENGTH IS CABLE ASSEMBLY LENGTH MINUS 0.5". FOR EXAMPLE, IF A CABLE ASSEMBLY IS REQUIRED TO BE 50" LONG, CUT LENGTH WILL BE 49.5".
  - FOR TTMS LABEL AND CLEAR SHRINK TUBES, REFER TO TABLE 2, SHEET 5.
  - APPLY CENTER LABEL AT CABLE CENTER FOR ALL CABLE ASSEMBLIES
- 10 TEST REQUIREMENTS FOR ASSEMBLIES -01 THRU -04:  
 TEST FREQUENCY RANGE: 800 MHz TO 1 GHz  
 VSWR: 1.5 MAX AT 900 MHz  
 INSERTION LOSS: 1 dB MAX AT 900 MHz
- 11 TEST REQUIREMENTS FOR ASSEMBLIES -05 THRU -12 :  
 TEST FREQUENCY RANGE: 800 MHz TO 1 GHz  
 VSWR: 1.5 MAX AT 900 MHz  
 INSERTION LOSS: 3 dB MAX AT 900 MHz

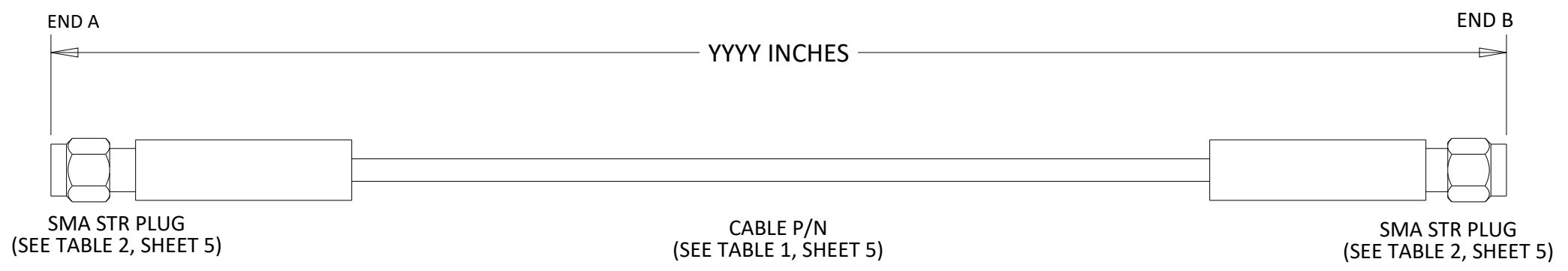
TOLERANCES: .X.....±0.25 .XX.....±0.05 .XXX.....±0.005 ANGLES.....±0.5°		UNLESS OTHERWISE SPECIFIED, DRAWING UNITS ARE IN INCHES				A Division of The Angelus Corporation WWW.PICWIRE.COM	
REVISION SIGNATURES ISSUED <b>F.BISHARA</b>		DATE <b>04/08/22</b>		TITLE <b>GOGO BUSINESS AVIATION          X3 CABLE ASSEMBLIES</b>			
CHECKED <b>J.SUGAR</b>		DATE <b>04/08/22</b>					
APPROVED <b>P.THAO</b>		DATE <b>04/08/22</b>					
UNLESS OTHERWISE SPECIFIED, DRAWING IS IN THIRD ANGLE PROJECTION (US STANDARD)						PROPRIETARY NOTICE: THIS DOCUMENT AND THE INFORMATION CONTAINED WITHIN ARE PROPRIETARY DATA OF PIC WIRE & CABLE. NEITHER THIS DOCUMENT NOR THE INFORMATION CONTAINED WITHIN SHALL BE USED, REPRODUCED, OR DISCLOSED WITHOUT WRITTEN AUTHORIZATION OF PIC WIRE & CABLE.	
		DWG NO <b>11012-4832</b>		REV <b>0</b>		INTERPRET DRAWING: PER ASME Y14.100-2004 DIM AND TOL PER ASME Y14.5-2009	
		CAGE <b>OBCW9</b>		SHEET <b>1 of 5</b>			

1 2 3 4 5 6 7 8

A

A

10 PIC P/N 11012-4832-W1YYYY-ZZ



B

B

LABELS

ZZ	END A	CENTER	END B
-01	X3 TM 1	PIC WIRE & CABLE XXXXXX 11012-4832-W1YYYY-01	L5 TM 1
-02	X3 TM 2	PIC WIRE & CABLE XXXXXX 11012-4832-W1YYYY-02	L5 TM 2

C

C

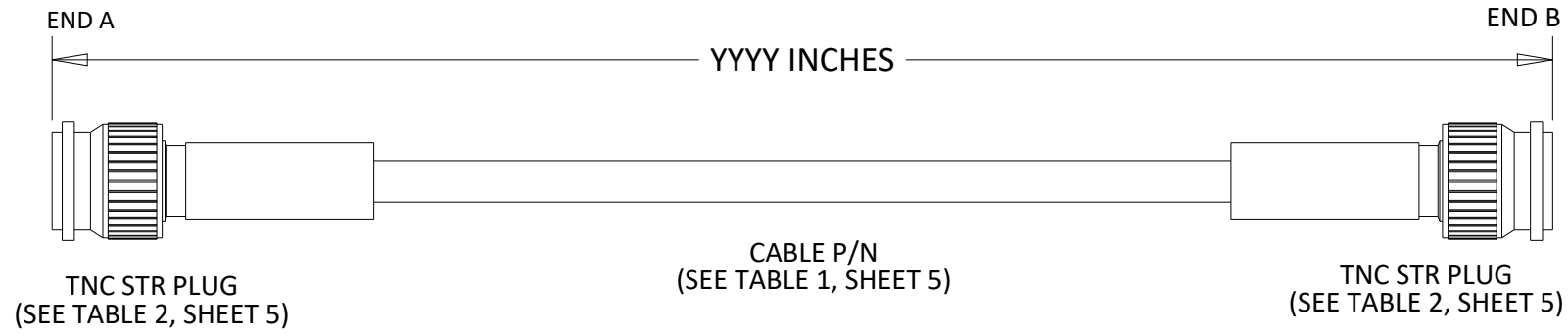
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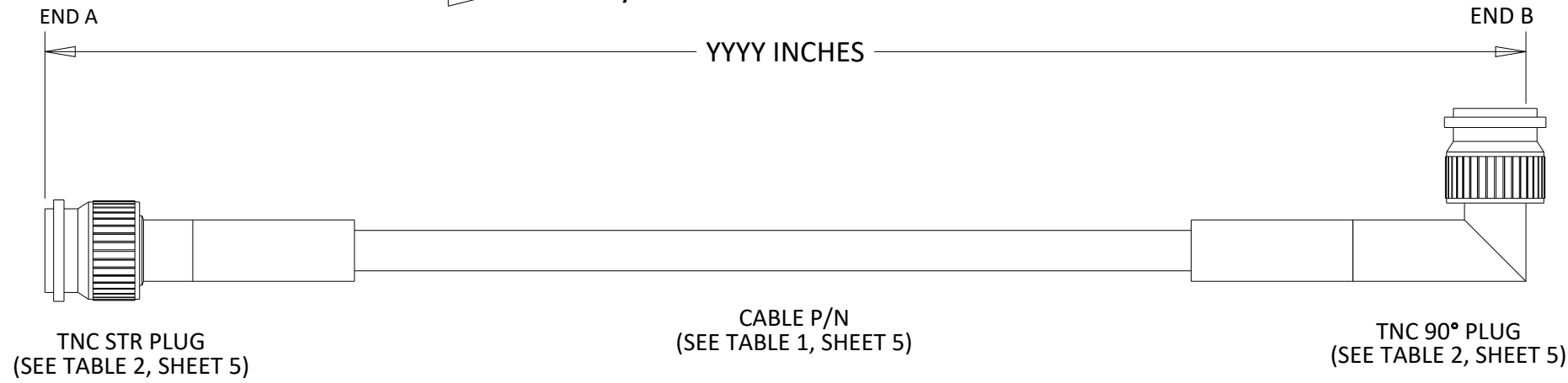
DWG NO	REV
11012-4832	0
INTERPRET DRAWING: PER ASME Y14.100-2004	SHEET
CAGE 0BCW9	2 OF 5

1 2 3 4 5 6 7 8

10 PIC P/N 11012-4832-W2YYYY-ZZ



10 PIC P/N 11012-4832-W3YYYY-ZZ



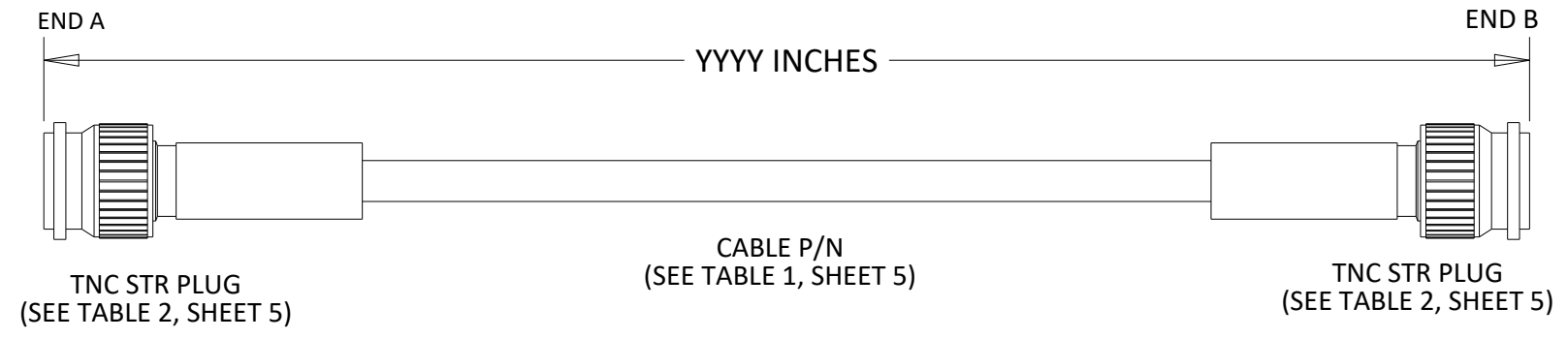
LABELS

ZZ	END A		CENTER	END B
-03	X3 ATG2 FWD V1	PIC WIRE & CABLE XXXXXX XXXXXX	11012-4832-WXYYYY-03	L5 FWD V1
-04	X3 ATG2 AFT V3	PIC WIRE & CABLE XXXXXX XXXXXX	11012-4832-WXYYYY-04	L5 AFT V3

A

A

11 PIC P/N 11012-4832-W2YYYY-ZZ



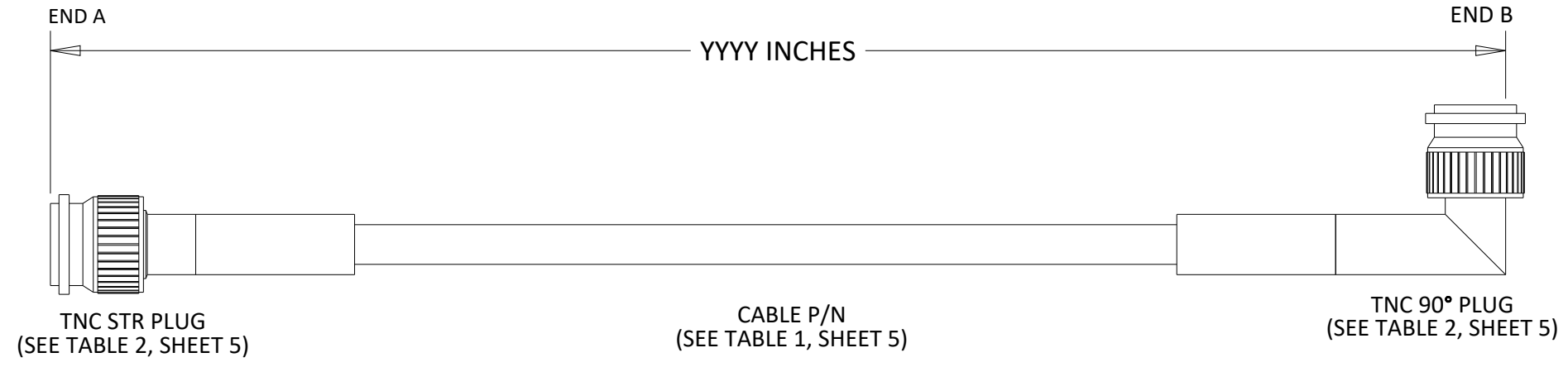
LABELS

ZZ	END A	WIRE & CABLE	CENTER	END B
-05	X3 FWD ANT J4	PIC WIRE & CABLE XXXXXX	11012-4832-WXYYYY-05	FWD MB13 ANT J4
-06	X3 AFT ANT J4	PIC WIRE & CABLE XXXXXX	11012-4832-WXYYYY-06	AFT MB13 ANT J4
-07	X3 FWD ANT J1	PIC WIRE & CABLE XXXXXX	11012-4832-WXYYYY-07	FWD MB13 ANT J1
-08	X3 FWD ANT J3	PIC WIRE & CABLE XXXXXX	11012-4832-WXYYYY-08	FWD MB13 ANT J3
-09	X3 AFT ANT J1	PIC WIRE & CABLE XXXXXX	11012-4832-WXYYYY-09	AFT MB13 ANT J1
-10	X3 AFT ANT J3	PIC WIRE & CABLE XXXXXX	11012-4832-WXYYYY-10	AFT MB13 ANT J3
-11	L5 FWD H1	PIC WIRE & CABLE XXXXXX	11012-4832-WXYYYY-11	FWD MB13 ANT J2
-12	L5 AFT H3	PIC WIRE & CABLE XXXXXX	11012-4832-WXYYYY-12	AFT MB13 ANT J2

B

B

11 PIC P/N 11012-4832-W3YYYY-ZZ



C

C

D

D

**PART NUMBERING = 11012-4832-WXYYYY-ZZ**

X = CONNECTOR CONFIGURATIONS (See TABLE 2)			YYYY = LENGTH IN INCHES	
"X" VALUE	END A	END B	"YYYY" VALUE	LENGTH (IN.)
1	SMA STR PLUG	SMA STR PLUG	0001	1"
2	TNC STR PLUG	TNC STR PLUG	....	....
3	TNC STR PLUG	TNC 90° PLUG	9999	9999"

ZZ = SUB SYSTEM DESIGNATOR		
"ZZ" VALUE	FROM	TO
01	X3 TM 1	L5 TM 1
02	X3 TM 2	L5 TM 2
03	X3 ATG2 FWD V1	L5 FWD V1
04	X3 ATG2 AFT V3	L5 AFT V3
05	X3 FWD ANT J4	FWD MB13 ANT J4
06	X3 AFT ANT J4	AFT MB13 ANT J4
07	X3 FWD ANT J1	FWD MB13 ANT J1
08	X3 FWD ANT J3	FWD MB13 ANT J3
09	X3 AFT ANT J1	AFT MB13 ANT J1
10	X3 AFT ANT J3	AFT MB13 ANT J3
11	L5 FWD H1	FWD MB13 ANT J2
12	L5 AFT H3	AFT MB13 ANT J2

W = COAX CABLE		TABLE 1 MAX CABLE LENGTH PER APPLICATION (LENGTH IN INCHES)			TABLE 2 CONNECTOR PN'S			
"W" VALUE	COAX CABLE	X3 TO AVANCE L5 (0.9 GHz)		X3 & AVANCE L5 TO FWD/AFT MB13 ANT (0.9 GHz)	SMA STR PLUG	TNC STR PLUG	TNC 90° PLUG	TTMS
		OPTIMAL LOSS (0.5 dB)	MAX LOSS (1 dB)	MAX LOSS (3 dB)				
1	S86208	15	56	219	190814	190808	190809	4.8 Label - 3/16" Clear
2	S33141	32	118	460	190314	190308	190309	9.5 Label - 3/8" Clear
3	S55122	43	155	607	190614	190608	190609	9.5 Label - 1/2" Clear
4	S22089	62	228	889	N/A	190408	190409	12.7 Label - 3/4" Clear
5	UH44193	20	75	294	150114	150108	150109	4.8 Label - 1/4" Clear
6	UH67163	35	128	501	150514	150508	150509	9.5 Label - 3/8" Clear
7	UH22089	63	228	890	150414	150408	150409	12.7 Label - 1/2" Clear
8	UH25107	78	285	1114	N/A	190408	190409	12.7 Label - 3/4" Clear