PIC Wire & Cable developed a series of cable assemblies approved for use with Gogo<sup>®</sup> Business Aviation's X3 data connectivity system. The X3 works in tandem with the AVANCE L5 system to provide enhanced in-flight connectivity. The AVANCE L5 is required to be installed in the aircraft for the X3 to operate. Assemblies are customizable and designed to meet the application's unique loss, length, weight and flexibility requirements. Pre-engineered assembly drawings are available to simplify the US Federal Aviation Administration (FAA) submission process for modifications and installations.

## **X3 CABLE OPTIONS**

PIC Wire & Cable offers a variety of PICMates RF and RF ULTRALITE<sup>®</sup> cable solutions that meet or exceed X3 system performance requirements. These high quality cables were specially designed as low loss options, with the ULTRALITE line optimized for applications that require lightweight, flexible cables.

MAXIMUM CABLE LENGTH (INCHES) BY APPLICATION					
Cable P/N	Weight Ibs/100 ft (kg/100 m) in (mm)		X3 to AV (900	X3 & AVANCE L5 to FWD/AFT MB13 ANT (900 MHz)	
		Optimal Loss (0.5 dB)	Max Loss (1 dB)	Max Loss (3 dB)	
S86208	2.0 (2.9)	0.65 (16.51)	15	56	219
S33141	6.5 (9.7)	1.40 (35.56)	32	118	460
S55122	8.3 (12.4)	1.55 (39.37)	43	155	607
S22089	18.0 (26.8)	2.50 (63.50)	62	228	889
UH44193	1.9 (2.9)	0.80 (20.32)	20	75	294
UH67163	3.4 (5.1)	1.20 (30.48)	35	128	501
UH22089	7.2 (10.7)	1.70 (43.18)	63	228	890
UH25107	12.0 (17.9)	2.50 (63.50)	78	285	1114

## **X3 CONNECTOR OPTIONS**

PIC Wire & Cable also has several matching SMA and TNC connectors for its RF and RF ULTRALITE cables to meet unique application requirements.

Cable P/N	SMA Str. Plug	TNC Str. Plug	TNC 90 Plug
\$86208	190814	190808	190809
\$33141	190314	190308	190309
\$55122	190614	190608	190609
S22089	N/A	190408	190409
UH44193	150114	150108	150109
UH67163	150514	150508	150509
UH22089	150414	150408	150409
UH25107	N/A	190408	190409



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## APPLICATION NOTE CONNECTIVITY FOR BUSINESS AVIATION

W

X

## ASSEMBLY PART NUMBER BUILDER

Accelerate the cable assembly procurement process by building a part number with design details that meet an application's specific requirements. Ready to use engineering drawings are provided to streamline the FAA submission process for part modifications and installations.

ZZ

Engineering drawings for cable assemblies are available for download at <u>www.picwire.com/assemblies/assembly-worksheets</u>.

YYYY

Sample Part Number: 11012-4832-

	W = CABLE					
W	P/N	W	P/N			
1	S86208	5	UH44193			
2	S33141	6	UH67163			
3	S55122	7	UH22089			
4	S22089	8	UH25107			

X = CONNECTOR CONFIGURATION				
X		END A	END B	
1	SM	A Str. Plug	SMA Str. Plug	
2	TN	C Str. Plug	TNC Str. Plug	
3	TN	C Str. Plug	TNC 90° Plug	

YYYY = LENGTH (INCHES)			
YYYY	LENGTH		
0001	1"		
9999	9999"		

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



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