

CABLE ASSEMBLY SOLUTIONS FOR GOGO AVANCE SYSTEMS

PIC Wire & Cable® developed a series of cable assemblies approved for use with Gogo® Business Aviation's AVANCE™ L3, L5 and L5i data connectivity systems and is listed in system manuals. Assemblies are customizable and designed to meet an 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.

Proper cable assembly is critical to optimizing the full benefits of interconnect technology. PIC Wire & Cable's internal assembly facility provides certified, tested and phase matched assembly sets to simplify the system installation process.

AVANCE Cable Options

PIC Wire & Cable offers a variety of RFMATES® and RFMATES ULTRALITE® cable solutions that meet or exceed AVANCE 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 in (mm)	Bend Radius in (mm)	WIFI (5.0 GHz)		TM (1.8 GHz)		Directional (0.9 GHz)		Omni-Directional (0.9 GHz) *L3 Only
			*Optimal Loss (3 dB)	Max Loss (5 dB)	*Optimal Loss (3 dB)	Max Loss (5 dB)	*Optimal Loss (1 dB)	Max Loss (3 dB)	Max Loss (3.48 dB)
S86208	2.0 (2.9)	0.65 (16.51)	84	156	156	264	60	228	264
S33141	6.5 (9.7)	1.40 (35.56)	174	312	300	540	132	444	516
S55122	8.3 (12.4)	1.55 (39.37)	216	408	396	708	174	588	696
S22089	18.0 (26.8)	2.50 (63.50)	N/A	N/A	N/A	N/A	258	852	1008
UH44193	1.9 (2.9)	0.80 (20.32)	108	198	198	348	84	288	348
UH67163	3.4 (5.1)	1.20 (30.48)	180	336	336	600	144	480	588
UH22089	7.2 (10.7)	1.70 (43.18)	324	600	600	1068	252	852	1020
UH25107	12 (17.9)	2.50 (63.50)	N/A	684	N/A	N/A	312	1080	1284

*Optimal Loss is recommended by the system manufacturer

AVANCE Connector Options

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

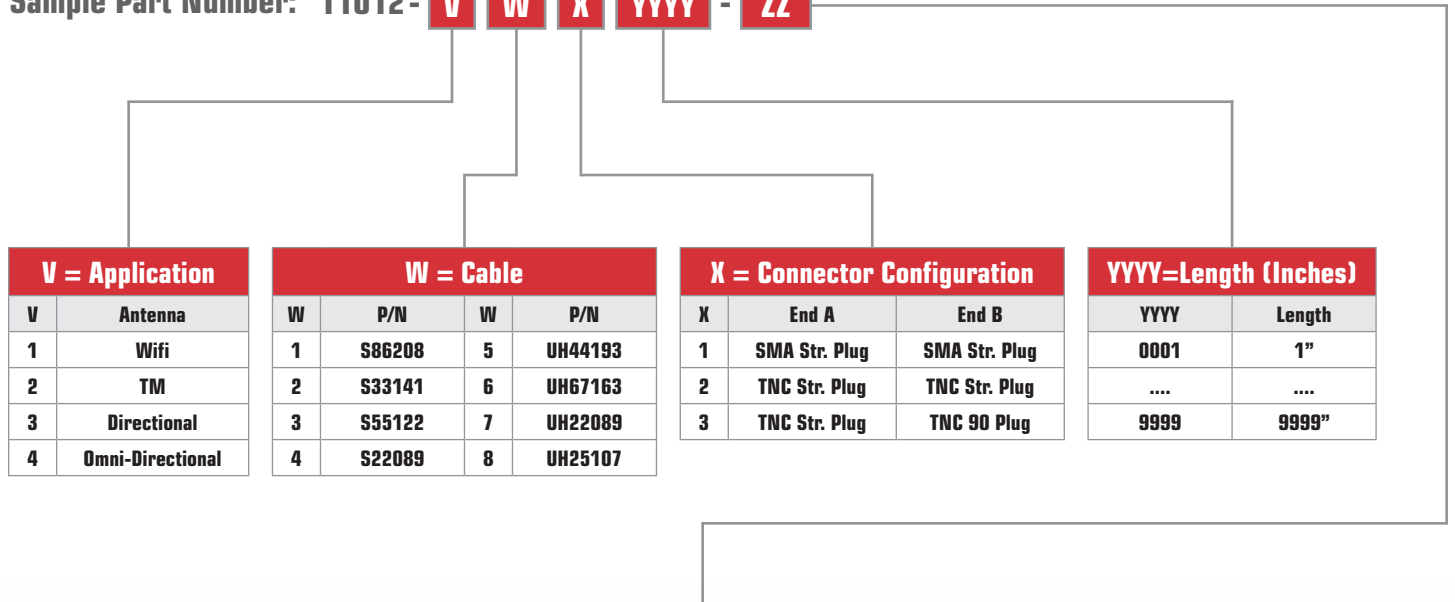
Cable P/N	SMA Str. Plug	TNC Str. Plug	TNC 90 Plug
S86208	190814	190808	190809
S33141	190314	190308	190309
S55122	190614	190608	190609
S22089	N/A	190408	190409
UH44193	150114	150108	150109
UH67163	150514	150508	150509
UH22089	150414	150408	150409
UH25107	N/A	190408	190409

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.

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

Sample Part Number: **11012 - V W X YYYY - ZZ**



V = Application	
V	Antenna
1	Wifi
2	TM
3	Directional
4	Omni-Directional

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	SMA Str. Plug	SMA Str. Plug
2	TNC Str. Plug	TNC Str. Plug
3	TNC Str. Plug	TNC 90 Plug

YYYY=Length (Inches)	
YYYY	Length
0001	1"
....
9999	9999"

ZZ = Sub System Designator														
ZZ	Sub System	AVANCE	ZZ	Sub System	AVANCE	ZZ	Sub System	AVANCE	ZZ	Sub System	AVANCE	ZZ	Sub System	AVANCE
01	TM 1	L3 & L5	05	WIFI 3	L3 & L5	09	ATG1 FWD V1	L3	13	ATG1 FWD H1	L5	17	ATG2 FWD V1	L5
02	TM 2	L3 & L5	06	WIFI 4	L3 & L5	10	ATG1 FWD H1	L3	14	ATG1 RIGHT H2	L5	18	ATG2 RIGHT V2	L5
03	WIFI 1	L3 & L5	07	WIFI 5	L3 & L5	11	ATG1 AFT V2	L3	15	ATG1 AFT H3	L5	19	ATG2 AFT V3	L5
04	WIFI 2	L3 & L5	08	WIFI 6	L3 & L5	12	ATG1 AFT H2	L3	16	ATG1 LEFT H4	L5	20	ATG2 LEFT V4	L5