

PRE-ENGINEERED ASSEMBLIES

50 OHM ULTRALITE CABLE ASSEMBLY SOLUTIONS

STREAMLINED 50 OHM ULTRALITE CABLE SOLUTIONS BUILT FOR MISSION SUCCESS

PIC Wire & Cable offers pre-configured 50 Ohm Ultralite cable assemblies tailored to meet the stringent demands of aerospace and defense systems. Designed for flexibility and customization, these assemblies accommodate unique application requirements, including loss, length, weight, and flexibility specifications.

SIMPLIFY FAA APPROVALS

Pre-engineered assembly drawings streamline the FAA submission process for modifications and installations, saving time and reducing complexity. Our expertly crafted assemblies ensure reliable performance, simplifying system integration while meeting regulatory requirements.

CERTIFIED PERFORMANCE

Manufactured in PIC's certified assembly facility, every cable assembly is rigorously tested to deliver consistent, high-quality results.

OPTIMIZED SYSTEM INSTALLATION

Our assemblies simplify installation, ensuring your interconnect technology operates at peak performance from day one.

ULTRALITE 50 OHM CABLE OPTIONS						
Cable P/N	Cable Attenuation @ 1 GHz Nominal / Max (dB/100ft)	O.D. (in)	Weight (lbs/100 ft)	Min Bend Radius (in)	Shielding Effectiveness (dB min)	Temp. Range (°C)
UH44193	10.4 / 11.6	0.16	1.90	0.80	-110	-65/150
UH67163	6.2 / 6.8	0.23	3.40	1.20	-110	-65/150
UH22089	3.5/ 3.9	0.35	7.20	1.70	-110	-65/150
UH25107	2.8 / 3.1	0.45	12.00	2.50	-110	-65/150



50 OHM ULTRALITE CABLE ASSEMBLY SOLUTIONS

50 OHM ULTRALITE CONNECTOR OPTIONS

Complementing our cable solutions, we offer a selection of connectors to our RF cables, ensuring compatibility to meet unique application needs.

Cable P/N	ARINC 600 Size 1 Socket	ARINC 600 Mod. Size 1 Socket	TNC Str. Plug	TNC 90 Plug	N Str. Plug	N 90 Plug	BNC Str. Plug	BNC 90 Plug	SMA Str. Plug	SMA 90 Plug
UH44193	150101	150102	150108	150109	150110	150111	150112	150113	150114	150115
UH67163	150501	150502	150508	150509	150510	150511	150512	150513	150514	150515
UH22089	150401	150402	150408	150409	150410	150411	150412	150413	150414	150415
UH25107	190401	190402	190408	190409	190410	190411	190412	190413	NA	NA

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.

11012- 5005 - **W** - **XAVBC** - **YYYY** - **Z**

W = CABLE			
W	Cable P/N	Min.	Max.
0	UH44193	8"	3514"
1	UH67163	8"	5968"
2	UH22089	8"	9999"
3	UH25107	8"	9999"

XAVBC = CONNECTOR CONFIGURATIONS, HEAT SHRINK COLOR BAND OPTIONS & CONNECTOR CLOCKING									
Connector End A					Connector End B				
X	End A	A	Heat Shrink Color Band	V	Connector Description	B	Heat Shrink Color Band	C	Clocking Degree
0	ARINC 600 Size 1 Socket	0	Black	0	ARINC 600 Size 1 Socket	0	Black	0	N/A (For ASSY. W/O 2x90° CONN.)
1	ARINC 600 Mod. Size 1 Socket	1	Brown	1	ARINC 600 Mod. Size 1 Socket	1	Brown	1	0° or 12:00
2	TNC Str. Plug	2	Red	2	TNC Str. Plug	2	Red	2	90° or 3:00
3	TNC 90 Plug	3	Orange	3	TNC 90 Plug	3	Orange	3	180° or 6:00
4	N Str. Plug	4	Yellow	4	N Str. Plug	4	Yellow	4	270° or 9:00
5	N 90 Plug	5	Green	5	N 90 Plug	5	Green		
6	BNC Str. Plug	6	Blue	6	BNC Str. Plug	6	Blue		
7	BNC 90 Plug	7	Violet	7	BNC 90 Plug	7	Violet		
8	SMA Str. Plug	8	Gray	8	SMA Str. Plug	8	Gray		
9	SMA 90 Plug	9	White	9	SMA 90 Plug	9	White		
U	Unterminated	N	No Color Band	U	Unterminated	N	No Color Band		

YYYY = LENGTH	
YYYY	Length (in)
0008	8"
....
9999	9999"

Z = FREQUENCY TEST RANGE	
Z	FREQUENCY RANGE
0	N/A (For UNTERM. ASSY.)
1	10 MHz to 599 MHz
2	600 MHz to 1999 MHz
3	2000 MHz to 2999 MHz
4	3000 MHz to 3999 MHz
5	4000 MHz to 5000 MHz