50 OHM CABLE ASSEMBLY SOLUTIONS

STREAMLINED 50 OHM CABLE SOLUTIONS BUILT FOR MISSION SUCCESS

PIC Wire & Cable offers pre-configured 50 Ohm 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.

STANDARD 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)
S86208	14.1 / 15.5	0.13	2.00	0.65	-80	-55/200
S44191	11.8 / 13.0	0.20	4.30	1.00	-90	-55/200
S67163	7.0 / 7.7	0.23	5.40	1.20	-90	-55/200
S33141	6.7 / 7.4	0.27	6.50	1.40	-90	-55/200
S55122	5.1 / 5.6	0.31	8.30	1.55	-90	-55/200
S22089	3.5 / 3.9	0.44	18.00	2.50	-90	-55/200

50 OHM CABLE ASSEMBLY SOLUTIONS

50 OHM 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
S86208	190801	190802	190808	190809	190810	190811	190812	190813	190814	190815
S44191	190101	190102	190108	190109	190110	190111	190112	190113	110198	110207
S67163	190501	190502	190508	190509	190510	190511	190512	190513	190514	190515
S33141	190301	190302	190308	190309	190310	190311	190312	190313	190314	190315
S55122	190601	190602	190608	190609	190610	190611	190612	190613	190614	190615
S22089	190401	190402	190408	190409	190410	190411	190412	190413	N/A	N/A

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 - 5003 - **W** - **XAVBC** - **YYYY** - **Z**

W = CABLE

W	Cable P/N	Min.	Max.
0	S86208	8”	2695”
1	S44191	8”	3020”
2	S67163	8”	5359”
3	S33141	8”	5547”
4	S55122	8”	7186”
5	S22089	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 Socket	0	Black	0	ARINC 600 Size 1 Socket 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