

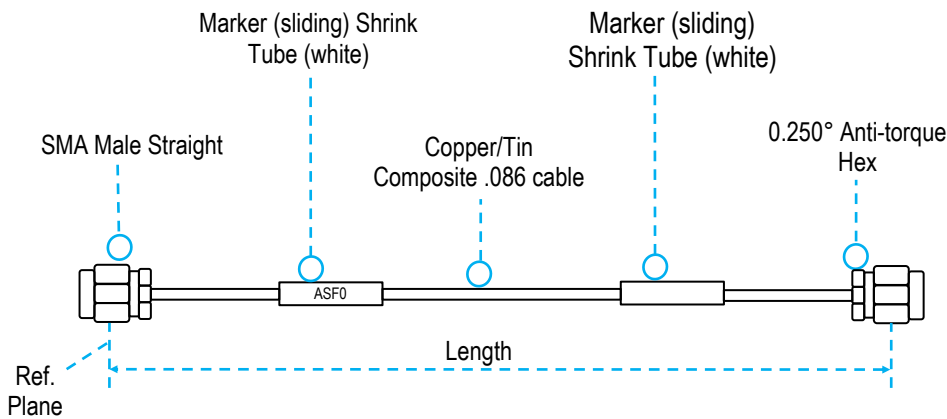


- Frequency DC-26.5GHz
- STOCK Availability
- Wide Choice of Lengths
- Reformable
- Anti-Torque Connectors
- Weight Saving
- Very Cost Effective

# Coaxial Cable Assembly

## Semi-Flexible, 0.141 Reformable Copper/ Tin Composite, SMA Male Connectors

ETL Systems ASF series of coaxial cable assemblies provides the microwave system designer with a versatile solution to equipment and subassembly cabling without the need for detailed design of semi-rigids. With a copper/tin composite outer conductor the cable can be hand formed in situ while maintaining performance essentially similar to formed copper semi-rigid of equivalent size and the high resistance to work-hardening allows for subsequent bend adjustments. The large range of **STOCK** lengths in standard assemblies will meet the requirements of most applications.



**Part Numbering:**  
.141 Copper/Tin Composite  
Reformable Assemblies with SMA  
Male Connectors

ASF0-xxx-520003 where xxx is the  
length in inches.



**Options:**

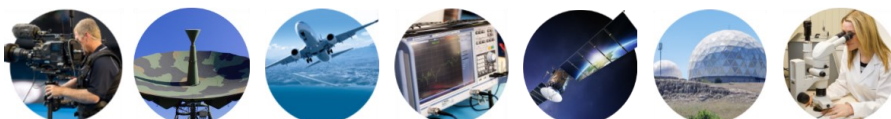
The following are also available (please contact us):

- Alternative Connectors - SMA Female, Type N, SMP, 2.92mm - Bulkhead, Panel Mount, Right Angle
- Custom Assembly Lengths
- Ident Sleeves, Outer FEP Jacket





GENERAL SPECIFICATIONS	
Standard Lengths	2.0 to 60.0 inches
Length Increments	1.0 inches
Length Datum	Connector Reference Plane
Standard Connectors	SMA Male, Anti-torque, Stainless Steel to Mil-C-39012
Connector Interface	MIL-STD-348
Anti-torque hex	0.250 ins.
Impedance	50 ohms
Outer Conductor	Copper/Tin Composite
Dielectric Material	PTFE
Centre Conductor Material	Silver Plated Copper-clad Steel
Insulation Resistance	1000 MegOhms min.
Withstand Voltage	1000 VRMS min.
Maximum CW Power	15 watts at 18 GHz
Maximum Peak Power	1250 watts
Velocity of Propagation	70% Nominal
Electrical Delay	120 picosec/inch
Shielding	100 dB min.
Minimum Bend Radius [at centre line]	0.19 ins. (4.8mm)
Operating Temperature Range	-50 +105C
RoHS Compliant	Yes





EXAMPLE PART NUMBER	LENGTH	ATTENUATION (dB)				VSWR (:1)			
	(INCHES)	2GHz	6GHz	12GHz	18GHz	2GHz	6GHz	12GHz	18GHz
ASF1-003-520003-S4S4	3	0.12	0.20	0.29	0.39	1.10	1.17	1.20	1.30
ASF1-004-520003-S4S4	4	0.14	0.23	0.34	0.45	1.10	1.17	1.20	1.30
ASF1-005-520003-S4S4	5	0.15	0.27	0.39	0.51	1.10	1.17	1.20	1.30
ASF1-006-520003-S4S4	6	0.17	0.30	0.43	0.57	1.10	1.17	1.20	1.30
ASF1-007-520003-S4S4	7	0.18	0.33	0.48	0.63	1.10	1.17	1.20	1.30
ASF1-008-520003-S4S4	8	0.20	0.36	0.53	0.69	1.10	1.17	1.20	1.30
ASF1-009-520003-S4S4	9	0.22	0.39	0.57	0.75	1.10	1.17	1.20	1.30
ASF1-010-520003-S4S4	10	0.23	0.42	0.62	0.82	1.10	1.17	1.20	1.30
ASF1-011-520003-S4S4	11	0.25	0.45	0.67	0.88	1.10	1.17	1.20	1.30
ASF1-012-520003-S4S4	12	0.26	0.48	0.71	0.94	1.10	1.17	1.20	1.30
ASF1-013-520003-S4S4	13	0.28	0.51	0.76	1.00	1.10	1.17	1.20	1.30
ASF1-014-520003-S4S4	14	0.30	0.54	0.81	1.06	1.10	1.17	1.20	1.30
ASF1-015-520003-S4S4	15	0.31	0.57	0.86	1.12	1.10	1.17	1.20	1.30
ASF1-016-520003-S4S4	16	0.33	0.60	0.90	1.18	1.10	1.17	1.20	1.30
ASF1-017-520003-S4S4	17	0.34	0.63	0.95	1.24	1.10	1.17	1.20	1.30
ASF1-018-520003-S4S4	18	0.36	0.66	1.00	1.30	1.10	1.17	1.20	1.30
ASF1-019-520003-S4S4	19	0.38	0.69	1.04	1.36	1.10	1.17	1.20	1.30
ASF1-020-520003-S4S4	20	0.39	0.72	1.09	1.42	1.10	1.17	1.20	1.30
ASF1-021-520003-S4S4	21	0.41	0.75	1.14	1.48	1.10	1.17	1.20	1.30
ASF1-022-520003-S4S4	22	0.42	0.78	1.18	1.54	1.10	1.17	1.20	1.30
ASF1-023-520003-S4S4	23	0.44	0.81	1.23	1.63	1.10	1.17	1.20	1.30
ASF1-024-520003-S4S4	24	0.46	0.84	1.28	1.67	1.10	1.17	1.20	1.30
ASF1-025-520003-S4S4	25	0.47	0.87	1.32	1.73	1.10	1.17	1.20	1.30
ASF1-026-520003-S4S4	26	0.49	0.90	1.37	1.79	1.10	1.17	1.20	1.30
ASF1-027-520003-S4S4	27	0.50	0.93	1.42	1.85	1.10	1.17	1.20	1.30
ASF1-028-520003-S4S4	28	0.52	0.96	1.46	1.91	1.10	1.17	1.20	1.30
ASF1-029-520003-S4S4	29	0.54	0.99	1.51	1.97	1.10	1.17	1.20	1.30
ASF1-030-520003-S4S4	30	0.55	1.02	1.56	2.03	1.10	1.17	1.20	1.30
ASF1-031-520003-S4S4	31	0.57	1.06	1.60	2.09	1.10	1.17	1.20	1.30
ASF1-032-520003-S4S4	32	0.58	1.09	1.65	2.15	1.10	1.17	1.20	1.30
ASF1-033-520003-S4S4	33	0.60	1.12	1.70	2.21	1.10	1.17	1.20	1.30
ASF1-034-520003-S4S4	34	0.62	1.15	1.74	2.27	1.10	1.17	1.20	1.30
ASF1-035-520003-S4S4	35	0.63	1.18	1.79	2.34	1.10	1.17	1.20	1.30
ASF1-036-520003-S4S4	36	0.65	1.21	1.84	2.40	1.10	1.17	1.20	1.30
ASF1-037-520003-S4S4	37	0.66	1.24	1.88	2.46	1.10	1.17	1.20	1.30
ASF1-038-520003-S4S4	38	0.68	1.27	1.93	2.52	1.10	1.17	1.20	1.30
ASF1-039-520003-S4S4	39	0.70	1.30	1.98	2.58	1.10	1.17	1.20	1.30
ASF1-040-520003-S4S4	40	0.71	1.33	2.02	2.64	1.10	1.17	1.20	1.30
ASF1-041-520003-S4S4	41	0.73	1.36	2.07	2.70	1.10	1.17	1.20	1.30
ASF1-042-520003-S4S4	42	0.74	1.39	2.12	2.76	1.10	1.17	1.20	1.30
ASF1-043-520003-S4S4	43	0.76	1.42	2.16	2.82	1.10	1.17	1.20	1.30
ASF1-044-520003-S4S4	44	0.77	1.45	2.21	2.88	1.10	1.17	1.20	1.30
ASF1-045-520003-S4S4	45	0.79	1.48	2.26	2.94	1.10	1.17	1.20	1.30
ASF1-046-520003-S4S4	46	0.81	1.51	2.30	3.00	1.10	1.17	1.20	1.30
ASF1-047-520003-S4S4	47	0.82	1.54	2.35	3.07	1.10	1.17	1.20	1.30
ASF1-048-520003-S4S4	48	0.84	1.57	2.40	3.13	1.10	1.17	1.20	1.30
ASF1-054-520003-S4S4	54	0.93	1.75	2.68	3.49	1.10	1.17	1.20	1.30
ASF1-060-520003-S4S4	60	1.03	1.94	2.96	3.86	1.10	1.17	1.20	1.30

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.  
 Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

