

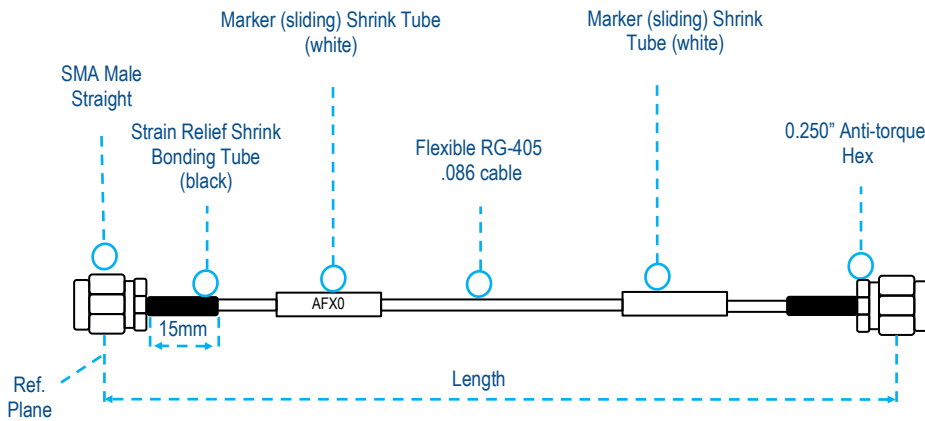


Coaxial Cable Assembly

Flexible, 0.086 RG-405, SMA Male Connectors

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

ETL's AFX series of coaxial cable assemblies provides the microwave system designer with a versatile solution to equipment and subassembly cabling. With a braided outer conductor over a silver plated spiral strip the cable can be repeatedly flexed maintaining performance essentially equivalent to formed copper semi-rigid of equivalent size. The AFX range of STOCK lengths in standard assemblies will meet the requirements of most applications.



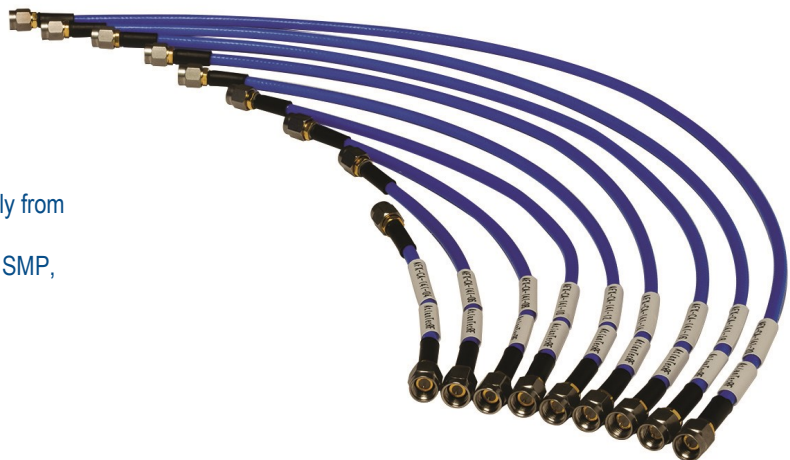
Part Numbering:
.086 Flexible Assemblies with SMA Male Connectors.

AFX0-xxx-520000 where xxx is the length in inches.

Options

The following are also available but not necessarily from stock:

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





General Specification	
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 ohm
Dielectric Material	Solid PTFE
Centre Conductor Material	Silver Plated Copper-clad Steel
Insulation Resistance	1000 MegOhms min.
Withstand Voltage	1000 VRMS min.
Maximum CW Power	17 watts at 18 GHz
Maximum Peak Power	1250 watts
Velocity of Propagation	70.7% Nominal
Electrical Delay	120 picosec/inch
Shielding	-90 dB min.
Minimum Bend Radius [at centre line]	0.55 ins.
Operating Temp. Range	-65 to +105°C
RoHS Compliant	Yes





Example Part Numbers	Length	Attenuation (dB)				VSWR (:1)					
	(inches)	2GHz	6GHz	12GHz	18GHz	1GHz	2GHz	4GHz	6GHz	12GHz	18.0GHz
AFX0-003-520000-S4S4	3	0.15	0.27	0.39	0.50	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-004-520000-S4S4	4	0.17	0.31	0.46	0.59	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-005-520000-S4S4	5	0.20	0.36	0.54	0.68	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-006-520000-S4S4	6	0.22	0.41	0.61	0.78	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-007-520000-S4S4	7	0.25	0.46	0.68	0.87	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-008-520000-S4S4	8	0.27	0.50	0.76	0.97	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-009-520000-S4S4	9	0.30	0.55	0.83	1.06	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-010-520000-S4S4	10	0.32	0.60	0.90	1.16	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-011-520000-S4S4	11	0.35	0.65	0.97	1.25	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-012-520000-S4S4	12	0.38	0.70	1.05	1.34	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-013-520000-S4S4	13	0.40	0.74	1.12	1.44	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-014-520000-S4S4	14	0.43	0.79	1.19	1.53	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-015-520000-S4S4	15	0.45	0.84	1.27	1.63	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-016-520000-S4S4	16	0.48	0.89	1.34	1.72	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-017-520000-S4S4	17	0.50	0.93	1.41	1.82	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-018-520000-S4S4	18	0.53	0.98	1.48	1.91	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-019-520000-S4S4	19	0.55	1.03	1.56	2.00	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-020-520000-S4S4	20	0.58	1.08	1.63	2.10	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-021-520000-S4S4	21	0.60	1.13	1.70	2.19	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-022-520000-S4S4	22	0.63	1.17	1.78	2.29	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-023-520000-S4S4	23	0.65	1.22	1.85	2.38	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-024-520000-S4S4	24	0.68	1.27	1.92	2.48	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-025-520000-S4S4	25	0.71	1.32	1.99	2.57	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-026-520000-S4S4	26	0.73	1.36	2.07	2.66	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-027-520000-S4S4	27	0.76	1.41	2.14	2.76	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-028-520000-S4S4	28	0.78	1.46	2.21	2.85	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-029-520000-S4S4	29	0.81	1.51	2.29	2.95	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-030-520000-S4S4	30	0.83	1.56	2.36	3.04	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-031-520000-S4S4	31	0.86	1.60	2.43	3.14	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-032-520000-S4S4	32	0.88	1.65	2.50	3.23	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-033-520000-S4S4	33	0.91	1.70	2.58	3.33	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-034-520000-S4S4	34	0.93	1.75	2.65	3.42	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-035-520000-S4S4	35	0.96	1.79	2.72	3.51	1.13	1.18	1.20	1.25	1.30	1.35
AFX0-036-520000-S4S4	36	0.98	1.84	2.80	3.61	1.18	1.20	1.25	1.30	1.35	1.38
AFX0-037-520000-S4S4	39	1.06	1.99	3.01	3.89	1.18	1.20	1.25	1.30	1.35	1.38
AFX0-038-520000-S4S4	40	1.09	2.03	3.09	3.99	1.18	1.20	1.25	1.30	1.35	1.38
AFX0-039-520000-S4S4	41	1.11	2.08	3.16	4.08	1.18	1.20	1.25	1.30	1.35	1.38
AFX0-040-520000-S4S4	42	1.14	2.13	3.23	4.17	1.18	1.20	1.25	1.30	1.35	1.38
AFX0-046-520000-S4S4	46	1.24	2.32	3.52	4.55	1.18	1.20	1.25	1.30	1.35	1.38
AFX0-048-520000-S4S4	48	1.29	2.42	3.67	4.74	1.18	1.20	1.25	1.30	1.35	1.38
AFX0-054-520000-S4S4	54	1.44	2.70	4.11	5.31	1.18	1.20	1.25	1.30	1.35	1.38
AFX0-060-520000-S4S4	60	1.59	2.99	4.54	5.87	1.18	1.20	1.25	1.30	1.35	1.38

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.

