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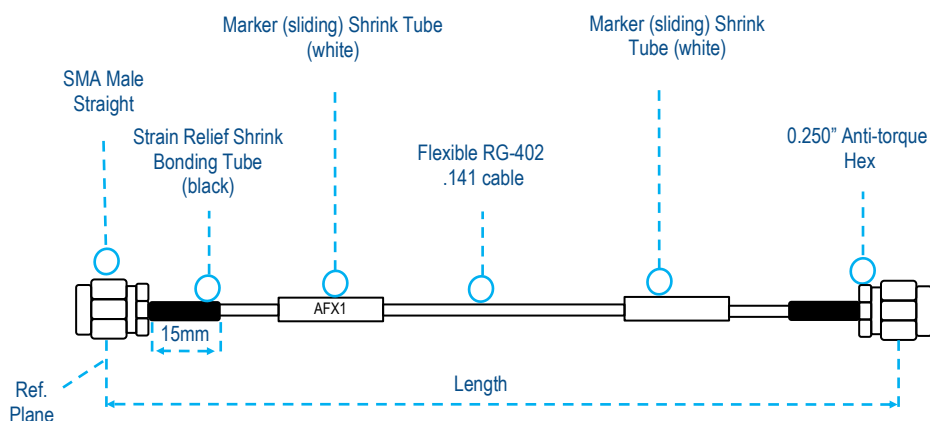
AFX1-xxx-520001-S4S4

Coaxial Cable Assembly

Flexible, 0.141 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:

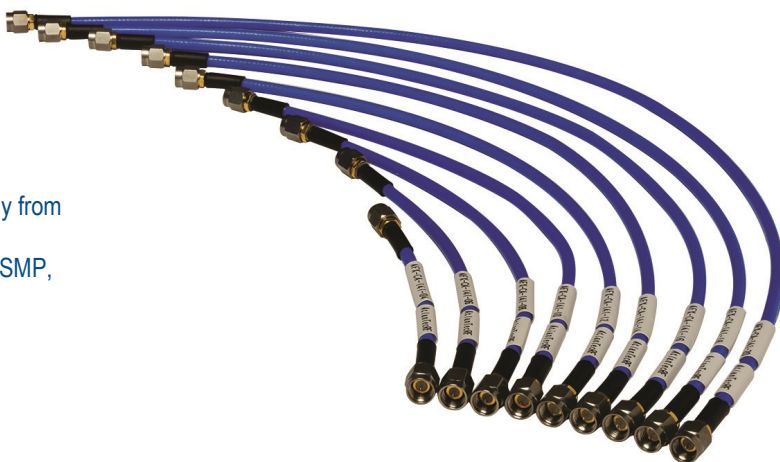
.141 Flexible Assemblies with SMA Male Connectors.

AFX1-xxx-520001 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	40 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. ins.
Operating Temp. Range	-65 to +105°C
RoHS Compliant	Yes

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.





Example Part Numbers	Length	Attenuation (dB)				VSWR (:1)					
	(inches)	2GHz	6GHz	12GHz	18GHz	1GHz	2GHz	4GHz	6GHz	12GHz	18.0GHz
AFX1-002-520001-S4S4	2	0.10	0.18	0.26	0.33	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-003-520001-S4S4	3	0.12	0.21	0.30	0.38	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-004-520001-S4S4	4	0.13	0.24	0.35	0.44	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-005-520001-S4S4	5	0.15	0.27	0.39	0.50	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-006-520001-S4S4	6	0.16	0.30	0.44	0.55	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-007-520001-S4S4	7	0.18	0.32	0.48	0.61	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-008-520001-S4S4	8	0.19	0.35	0.52	0.67	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-009-520001-S4S4	9	0.21	0.38	0.57	0.72	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-010-520001-S4S4	10	0.22	0.41	0.61	0.78	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-011-520001-S4S4	11	0.24	0.44	0.66	0.84	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-012-520001-S4S4	12	0.25	0.47	0.70	0.90	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-013-520001-S4S4	13	0.27	0.50	0.74	0.95	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-014-520001-S4S4	14	0.28	0.53	0.79	1.01	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-015-520001-S4S4	15	0.30	0.55	0.83	1.07	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-016-520001-S4S4	16	0.32	0.58	0.88	1.12	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-017-520001-S4S4	17	0.33	0.61	0.92	1.18	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-018-520001-S4S4	18	0.35	0.64	0.96	1.24	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-019-520001-S4S4	19	0.36	0.67	1.01	1.29	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-020-520001-S4S4	20	0.38	0.70	1.05	1.35	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-021-520001-S4S4	21	0.39	0.73	1.10	1.41	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-022-520001-S4S4	22	0.41	0.76	1.14	1.46	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-023-520001-S4S4	23	0.42	0.78	1.18	1.52	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-024-520001-S4S4	24	0.44	0.81	1.23	1.58	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-026-520001-S4S4	26	0.47	0.87	1.31	1.69	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-027-520001-S4S4	27	0.48	0.90	1.36	1.75	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-030-520001-S4S4	30	0.53	0.99	1.49	1.92	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-031-520001-S4S4	31	0.54	1.01	1.53	1.98	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-032-520001-S4S4	32	0.56	1.04	1.58	2.03	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-033-520001-S4S4	33	0.57	1.07	1.62	2.09	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-034-520001-S4S4	34	0.59	1.10	1.67	2.15	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-036-520001-S4S4	36	0.62	1.16	1.75	2.26	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-039-520001-S4S4	39	0.67	1.24	1.89	2.43	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-040-520001-S4S4	40	0.68	1.27	1.93	2.49	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-041-520001-S4S4	41	0.70	1.30	1.97	2.55	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-042-520001-S4S4	42	0.71	1.33	2.02	2.60	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-045-520001-S4S4	45	0.76	1.42	2.15	2.77	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-048-520001-S4S4	48	0.80	1.50	2.28	2.94	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-050-520001-S4S4	50	0.83	1.56	2.37	3.06	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-051-520001-S4S4	51	0.85	1.59	2.41	3.11	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-052-520001-S4S4	52	0.86	1.62	2.46	3.17	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-054-520001-S4S4	54	0.90	1.68	2.54	3.28	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-056-520001-S4S4	56	0.93	1.73	2.63	3.40	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-058-520001-S4S4	58	0.96	1.79	2.72	3.51	1.06	1.11	1.14	1.17	1.20	1.30
AFX1-060-520001-S4S4	60	0.99	1.85	2.81	3.63	1.06	1.11	1.14	1.17	1.20	1.30

