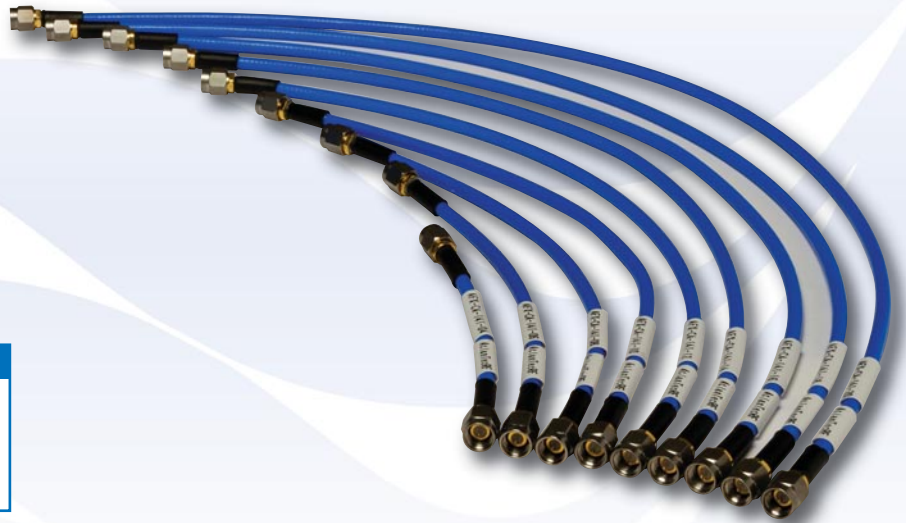


Coaxial Cable Assemblies

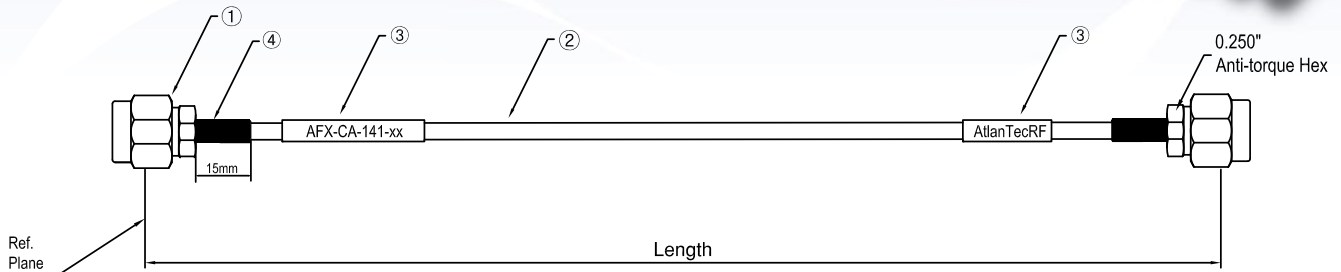
Standard Lengths - AFX Series

0.141 Flexible SMA Male Connectors

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



No.	Description
1	SMA Male Straight
2	Flexible RG-402 cable
3	Marker (sliding) Shrink Tube (white)
4	Strain Relief Shrink Bonding Tube (black)



AtlantecRF's AFX series of flexible coaxial cable assemblies provides the microwave system designer with a versatile solution to equipment and sub-assembly 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.

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
Centre Conductor Material	Silver Plated Copper-clad Steel
Dielectric Material	Solid PTFE
Inner Shield	Silver Plated Copper Spiral Strip
Outer Braid	Silver Plated Copper Wire Braid
Cable Jacket	FEP Blue
Cable max. diameter	0.168 inches
Insulation Resistance	1000 MegOhms min.
Withstand Voltage	1000 VRMS min.
Maximum CW Power	40 watts at 18GHz
Maximum Peak Power	1250 watts
Velocity of Propagation	70.7% Nominal
Electrical Delay	120 picosec/inch
Shielding	90dB min.
Minimum Bend Radius [at centre line]	0.84 ins.
Operating Temp. Range	-65 to +105C
RoHS Compliant	

Cable Assemblies

Part Numbering:

.141 Flexible Assemblies with SMA Male Connectors
 AFX-CA-141-XX where XX is the length in inches

Typical "Examples" of Performance (interpolate for in-between lengths)
 Standard Assemblies with SMA Male Connectors

Example Part Number	Length (ins.)	Attenuation (dB)				VSWR(:1)					
		2.0 (GHz)	6.0 (GHz)	12.0 (GHz)	18.0 (GHz)	1.0 (GHz)	2.0 (GHz)	4.0 (GHz)	6.0 (GHz)	12.0 (GHz)	18.0 (GHz)
AFX-CA-141-02	2	0.10	0.18	0.26	0.33	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-03	3	0.12	0.21	0.30	0.38	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-04	4	0.13	0.24	0.35	0.44	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-05	5	0.15	0.27	0.39	0.50	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-06	6	0.16	0.30	0.44	0.55	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-07	7	0.18	0.32	0.48	0.61	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-08	8	0.19	0.35	0.52	0.67	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-09	9	0.21	0.38	0.57	0.72	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-10	10	0.22	0.41	0.61	0.78	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-11	11	0.24	0.44	0.66	0.84	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-12	12	0.25	0.47	0.70	0.90	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-13	13	0.27	0.50	0.74	0.95	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-14	14	0.28	0.53	0.79	1.01	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-15	15	0.30	0.55	0.83	1.07	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-16	16	0.32	0.58	0.88	1.12	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-17	17	0.33	0.61	0.92	1.18	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-18	18	0.35	0.64	0.96	1.24	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-19	19	0.36	0.67	1.01	1.29	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-20	20	0.38	0.70	1.05	1.35	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-21	21	0.39	0.73	1.10	1.41	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-22	22	0.41	0.76	1.14	1.46	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-23	23	0.42	0.78	1.18	1.52	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-24	24	0.44	0.81	1.23	1.58	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-26	26	0.47	0.87	1.31	1.69	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-27	27	0.48	0.90	1.36	1.75	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-30	30	0.53	0.99	1.49	1.92	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-31	31	0.54	1.01	1.53	1.98	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-32	32	0.56	1.04	1.58	2.03	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-33	33	0.57	1.07	1.62	2.09	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-34	34	0.59	1.10	1.67	2.15	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-36	36	0.62	1.16	1.75	2.26	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-39	39	0.67	1.24	1.89	2.43	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-40	40	0.68	1.27	1.93	2.49	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-41	41	0.70	1.30	1.97	2.55	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-42	42	0.71	1.33	2.02	2.60	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-45	45	0.76	1.42	2.15	2.77	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-48	48	0.80	1.50	2.28	2.94	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-50	50	0.83	1.56	2.37	3.06	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-51	51	0.85	1.59	2.41	3.11	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-52	52	0.86	1.62	2.46	3.17	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-54	54	0.90	1.68	2.54	3.28	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-56	56	0.93	1.73	2.63	3.40	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-58	58	0.96	1.79	2.72	3.51	1.06	1.11	1.14	1.17	1.20	1.30
AFX-CA-141-60	60	0.99	1.85	2.81	3.63	1.06	1.11	1.14	1.17	1.20	1.30

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

We reserve the right to change standard product specifications without notice but will be pleased to consider control drawings for quotation.

Cable Assemblies

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