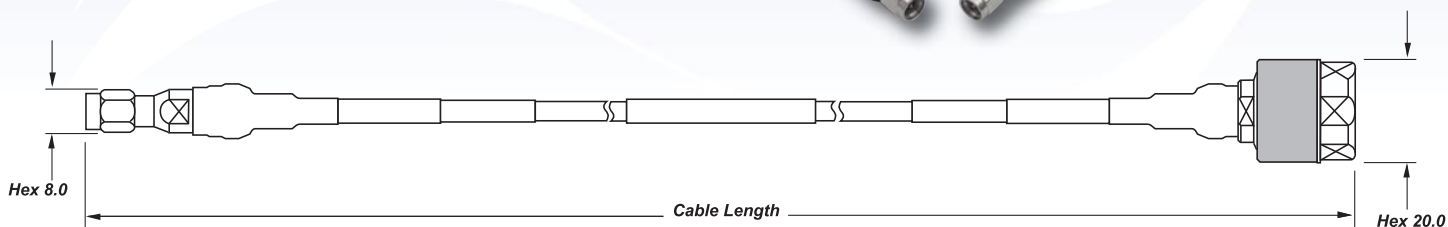
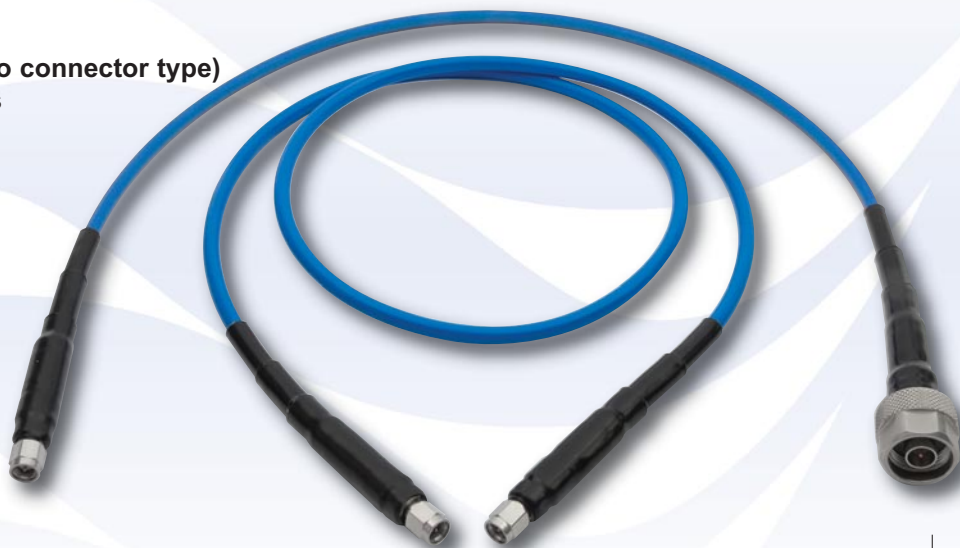


Ultra Flexible Coaxial Test Cables

ABC-CA18 Series

- Frequency DC-26.5GHz (subject to connector type)
- For Test and System Applications
- Velocity of Propagation 70%
- Polyurethane Jacket - Blue
- Ultra Flexible
- Phase Stability +/-2 degrees
- Cost Effective
- Stock Availability
- RoHS Compliant



AtlantecRF's ABC series of coaxial cable assemblies are designed for general purpose laboratory and equipment applications where flexibility, performance and affordability are key features. With a solid silver plated copper clad inner conductor and PTFE dielectric the outer conductor consists of three layers. The inner layer is silver plated copper tape followed by an interlayer of aluminium tape below the outer layer of silver plated copper braid.

The jacket over this is high flexibility polyurethane and at each connector there is a three level polyolefin strain relief.

Connectors have passivated stainless steel bodies in either SMA or Type N male. Standard STOCK lengths range from 0.3 to 5.0 metres but custom configurations of both cable length and connector type are also available to order.

General Specifications		
Operating Frequency	DC-26.5GHz (SMA); DC-18GHz (Type N)	
Impedance	50 ohms	
Velocity of Propagation	70%	
Phase Stability	+/-2 degrees with flexure	
Insertion Loss	0.8dB/ft. (2.6dB/m) max. @ 18GHz	
VSWR	Refer to table below for Return Loss	
Capacitance	98pF/m (29.8pF/ft)	
Insulation Resistance	5000M ohms min.	
Dielectric Withstand Voltage	1000V RMS	
Screening Effectiveness	90dB min.	
Temperature Range	-30 to +105C	
Preferred Bending Radius	120mm	
Connector Retention Force	100N min.	
Recommended Mating Torque	0.8Nm - 1.1Nm	
Centre Conductor	Silver Plated Copper Clad Steel Wire	
Cable Dielectric	Solid PTFE	
Inner Shield	Silver Plated Copper Tape	
Middle Shield	Aluminium Tape	
Outer Shield	Silver Plated Copper Braid	
Cable Jacket	Polyurethane - Blue	
Cable Diameter	5.3mm	
Marking Sleeve	Polyolefin	
Strain Relief Tube	Bonding Black Shrink Tube - 3 level	
Connector Interface	MIL-STD-348	
Connector	Body	Stainless Steel, Passivated
	Centre Contact	Beryllium Copper, Gold Plated
	Coupling Nut	Stainless Steel, Passivated
Standard Assembly Lengths	0.3 to 5.0m +/-1% (in 0.5m increments)	

Test Cable Assemblies

Typical Performance Data @ 25C

Part Number	Connectors	Length (Metres)	Return Loss (dB) min.					Insertion Loss (dB) max.				
			2GHz	4GHz	8GHz	12GHz	18GHz	2GHz	4GHz	8GHz	12GHz	18GHz
ABC-CA18-SMSM-0.3M	SMA Male/SMA Male	0.3m	28	26	23	20	18	0.4	0.5	0.6	0.8	1.0
ABC-CA18-SMSM-0.5M	SMA Male/SMA Male	0.5m	28	26	23	20	18	0.5	0.6	0.8	1.0	1.4
ABC-CA18-SMSM-1.0M	SMA Male/SMA Male	1.0m	28	26	23	20	18	0.7	1.1	1.5	1.9	2.6
ABC-CA18-SMSM-1.5M	SMA Male/SMA Male	1.5m	28	26	23	20	18	1.1	1.7	2.3	2.9	3.9
ABC-CA18-SMSM-2.0M	SMA Male/SMA Male	2.0m	28	26	23	20	18	1.4	2.2	3.0	3.8	5.2
ABC-CA18-SMSM-2.5M	SMA Male/SMA Male	2.5m	28	26	23	20	18	1.8	2.8	3.8	4.8	6.5
ABC-CA18-SMSM-3.0M	SMA Male/SMA Male	3.0m	28	26	23	20	18	2.1	3.3	4.5	5.7	7.8
ABC-CA18-SMSM-3.5M	SMA Male/SMA Male	3.5m	28	26	23	20	18	2.5	3.9	5.3	6.7	9.1
ABC-CA18-SMSM-4.0M	SMA Male/SMA Male	4.0m	28	26	23	20	18	2.8	4.4	6.0	7.6	10.4
ABC-CA18-SMSM-4.5M	SMA Male/SMA Male	4.5m	28	26	23	20	18	3.2	5.0	6.8	8.6	11.7
ABC-CA18-SMSM-5.0M	SMA Male/SMA Male	5.0m	28	26	23	20	18	3.5	5.5	7.5	9.5	13.0
ABC-CA18-SMNM-0.3M	SMA Male/N Male	0.3m	28	26	23	20	18	0.4	0.5	0.6	0.8	1.0
ABC-CA18-SMNM-0.5M	SMA Male/N Male	0.5m	28	26	23	20	18	0.5	0.6	0.8	1.0	1.4
ABC-CA18-SMNM-1.0M	SMA Male/N Male	1.0m	28	26	23	20	18	0.7	1.1	1.5	1.9	2.6
ABC-CA18-SMNM-1.5M	SMA Male/N Male	1.5m	28	26	23	20	18	1.1	1.7	2.3	2.9	3.9
ABC-CA18-SMNM-2.0M	SMA Male/N Male	2.0m	28	26	23	20	18	1.4	2.2	3.0	3.8	5.2
ABC-CA18-SMNM-2.5M	SMA Male/N Male	2.5m	28	26	23	20	18	1.8	2.8	3.8	4.8	6.5
ABC-CA18-SMNM-3.0M	SMA Male/N Male	3.0m	28	26	23	20	18	2.1	3.3	4.5	5.7	7.8
ABC-CA18-SMNM-3.5M	SMA Male/N Male	3.5m	28	26	23	20	18	2.5	3.9	5.3	6.7	9.1
ABC-CA18-SMNM-4.0M	SMA Male/N Male	4.0m	28	26	23	20	18	2.8	4.4	6.0	7.6	10.4
ABC-CA18-SMNM-4.5M	SMA Male/N Male	4.5m	28	26	23	20	18	3.2	5.0	6.8	8.6	11.7
ABC-CA18-SMNM-5.0M	SMA Male/N Male	5.0m	28	26	23	20	18	3.5	5.5	7.5	9.5	13.0
ABC-CA18-NMNM-0.3M	N Male/N Male	0.3m	28	26	23	20	18	0.4	0.5	0.6	0.8	1.0
ABC-CA18-NMNM-0.5M	N Male/N Male	0.5m	28	26	23	20	18	0.5	0.6	0.8	1.0	1.4
ABC-CA18-NMNM-1.0M	N Male/N Male	1.0m	28	26	23	20	18	0.7	1.1	1.5	1.9	2.6
ABC-CA18-NMNM-1.5M	N Male/N Male	1.5m	28	26	23	20	18	1.1	1.7	2.3	2.9	3.9
ABC-CA18-NMNM-2.0M	N Male/N Male	2.0m	28	26	23	20	18	1.4	2.2	3.0	3.8	5.2
ABC-CA18-NMNM-2.5M	N Male/N Male	2.5m	28	26	23	20	18	1.8	2.8	3.8	4.8	6.5
ABC-CA18-NMNM-3.0M	N Male/N Male	3.0m	28	26	23	20	18	2.1	3.3	4.5	5.7	7.8
ABC-CA18-NMNM-3.5M	N Male/N Male	3.5m	28	26	23	20	18	2.5	3.9	5.3	6.7	9.1
ABC-CA18-NMNM-4.0M	N Male/N Male	4.0m	28	26	23	20	18	2.8	4.4	6.0	7.6	10.4
ABC-CA18-NMNM-4.5M	N Male/N Male	4.5m	28	26	23	20	18	3.2	5.0	6.8	8.6	11.7
ABC-CA18-NMNM-5.0M	N Male/N Male	5.0m	28	26	23	20	18	3.5	5.5	7.5	9.5	13.0

Custom lengths, connector configurations and detailed cable specifications available on request

Power Handling @ 25°C (Watts) CW	Frequency (GHz)
250	2
180	4
120	8
100	12
80	18

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

Test Cable Assemblies

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