

Low Loss Flexible Coaxial Test Cables

ACO-CA40 Series

- Frequency DC-40GHz
- Good Flexibility & Durability
- Low Loss
- Cost Effective
- Stock Availability
- RoHS Compliant



AtlantecRF's ACO series of coaxial cable assemblies are designed for general purpose laboratory and equipment applications where low loss, flexibility, performance and affordability are key features. Connectors are 2.92mm male with passivated stainless steel bodies. Standard STOCK lengths range from 0.5 to 5.0 metres but custom cable lengths are also available to order.

General Specifications	
Operating Frequency	DC-40GHz
Cable Impedance	50 ohms
Velocity of Propagation	77% nom.
VSWR	1.35:1 max.
Dielectric Constant	1.7 nom.
RF Leakage	-100dB
Time Delay	4.35ns/m
Capacitance	86pF/m
Phase Stability vs. Flexure	4 deg (@18GHz max.)
Insertion Loss Stability vs. Flexure	+/-0.3dB (@ min. Bend Radius)
Phase Stability vs. Temperature	2 deg/GHz/m max. (-40 to +80C)
Cable Outside Diameter	4.3mm
Cable Jacket	FEP - Orange
Outer Conductor	Silver Plated Copper
Cable Dielectric	Low Density PTFE
Centre Conductor	Silver Plated Copper Stranded 19/0.2mm
Bend Radius	19.5mm min.
Weight	42g/m
Temperature Range	-55 to +135C

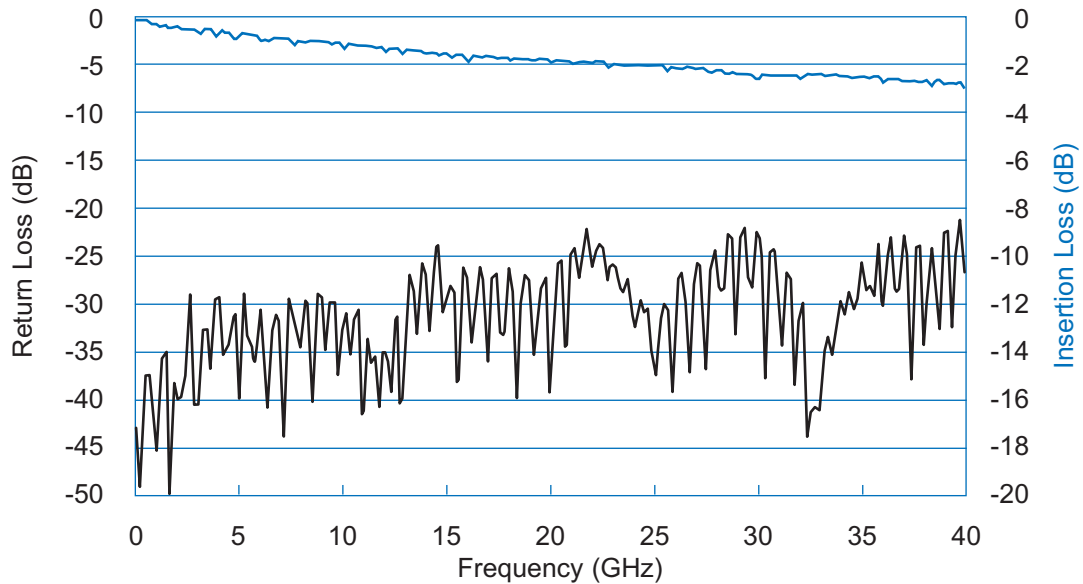
Test Cable Assemblies

Part Number	Connectors	Length (Metres)	Length Tolerance (mm)
ACO-CA40-KMKM-0.5M	2.92mm Male/2.92mm Male	0.5	+/-5
ACO-CA40-KMKM-1.0M	2.92mm Male/2.92mm Male	1.0	+/-5
ACO-CA40-KMKM-1.5M	2.92mm Male/2.92mm Male	1.5	+/-5
ACO-CA40-KMKM-2.0M	2.92mm Male/2.92mm Male	2.0	+/-10
ACO-CA40-KMKM-2.5M	2.92mm Male/2.92mm Male	2.5	+/-10
ACO-CA40-KMKM-3.0M	2.92mm Male/2.92mm Male	3.0	+/-10
ACO-CA40-KMKM-3.5M	2.92mm Male/2.92mm Male	3.5	+/-10
ACO-CA40-KMKM-4.0M	2.92mm Male/2.92mm Male	4.0	+/-10
ACO-CA40-KMKM-4.5M	2.92mm Male/2.92mm Male	4.5	+/-10
ACO-CA40-KMKM-5.0M	2.92mm Male/2.92mm Male	5.0	+/-10

Attenuation (dB/m)	Frequency (GHz)
0.12	0.1
0.33	1
0.58	3
0.99	8
1.12	10
1.24	12
1.58	18
1.94	26.5
2.48	40

Power Handling @ 25C (Watts)	Frequency (GHz)
620	1
440	2
254	6
180	12
147	18
99	40

Typical Return Loss and Insertion Loss for a 1 metre Cable Assembly



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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