

**PRESS RELEASE**  
FOR IMMEDIATE RELEASE

**Micro-Coax announces the release of MCJ185A, a new high performance lightweight flexible cable designed for spaceflight applications**

**Pottstown, PA - February 19, 2010:** Micro-Coax announces the release of the UTIFLEX<sup>®</sup> MCJ185A, a high performance spacegrade lightweight flexible microwave cable. The MCJ185A is optimized for Ka-Band and offers extremely low return loss (VSWR) and insertion loss up to 32.3 GHz, all without sacrificing RF shielding performance or electrical stability.

Each MCJ185A cable assembly is specifically designed for the most demanding spaceflight applications. All materials are low out-gassing, radiation resistant and can operate at a temperature range of -100 to +150°C. MCJ185A cable is validated to the full qualification requirements of MIL-DTL-M17. The high performance 2.92mm connectors have passed the full qualification requirements of MIL-DTL-39012 as well as Micro-Coax's industry leading gold-plating standard.



Both cable and connectors are designed and manufactured by Micro-Coax for maximum cable assembly performance and reliability. This results in unprecedented levels of return loss, all without sacrificing the critical connector center contact captivation required on high reliability flexible cables.

Currently, the designated frequency range in Ka-Band for spaceflight is between 31.8 GHz and 32.3 GHz. The MCJ185A cable has applications in plans to develop and demonstrate Ka-Band capability, including the continued measurement of weather effects, development of ground antenna and supporting systems, spacecraft and satellite with Ka-Band beacons and transmitters.

The use of Micro-Coax's ARACON<sup>®</sup> silver plated aramid fiber for the outer braided shield makes MCJ185A even more unique, resulting in the lightest weight yet realized for a cable this size. Such lightweight can potentially reduce launch costs or allow for an increased payload. By all standards MCJ185A will raise the bar for all Ka-Band flexible coaxial cables.

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Specification	MCJ185A
Center Conductor Diameter (in)	0.0495
Dielectric Diameter (in)	0.1360
Inner Shield Diameter (in)	0.1430
Outer Shield Diameter (in)	0.1630
Jacket Diameter (in)	0.1850 +/- 0.0040
Weight (g/ft)	12.40
Frequency (GHz)	DC-32
VSWR	
0-18GHz	1.15:1
18-32GHz	1.20:1
Insertion Loss (dB/ft)	
1 GHz	0.08
10 GHz	0.27
18 GHz	0.36
28 GHz	0.46
32 GHz	0.50

**About Micro-Coax:**

Micro-Coax is a leading provider of transmission line solutions for radio frequency (RF) and microwave applications. Serving the defense, satellite, telecommunications, test and measurement markets for more than forty years, Micro-Coax has earned a reputation for mission performance and excellent customer service. A broad technology base allows Micro-Coax to quickly respond to customer needs with optimized solutions of coaxial cables, connectors, harness assemblies and conductive fibers.

**For further information:**

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