

# Test Report

## High Speed Interconnects UFX Micro Coaxial Cable Loss Performance

High Speed Interconnects UFX micro coaxial cable is engineered and manufactured to achieve best in class mechanical and electrical performance. High Speed Interconnects state-of-the-art processing equipment and materials enable superior electrical performance. The result is better signal transmission performance than our competition.

Our high performance UFX line of micro coaxial cable is directly compared to industry standard competitive coax from leading suppliers. Results are summarized for 40 AWG, 42 AWG, 44 AWG coax which are commonly used for .5mm, .4mm and .3mm connector termination. Multiple cable samples were measured using a VNA and custom test board with SMA to industry standard .5mm connector. Attenuation and S21 Magnitude Transmission parameters are summarized for each coax AWG size. High Speed Interconnects UFX coax is compared directly to a competitive sample terminated to an identical connector and tested with the same test apparatus.

**Frequency of 3dB Attenuation** – The frequency of the 3dB attenuation point is plotted as a function of cable length in meters.

**Transmission (S21)** – S21 Magnitude is plotted as a function on frequency from 0 – 8GHz. Cable sample length for tests is 0.5 meters.

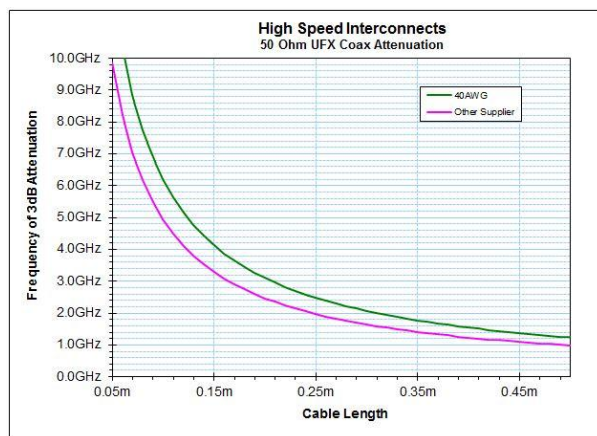


Fig.1 - 40awg coax 3dB Attenuation

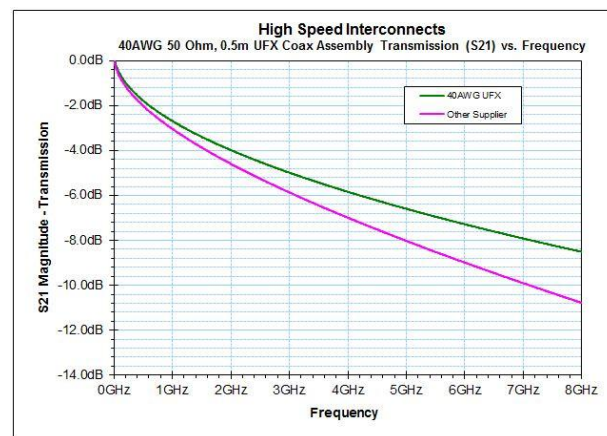


Fig.2 - 40awg coax Transmission (S21)

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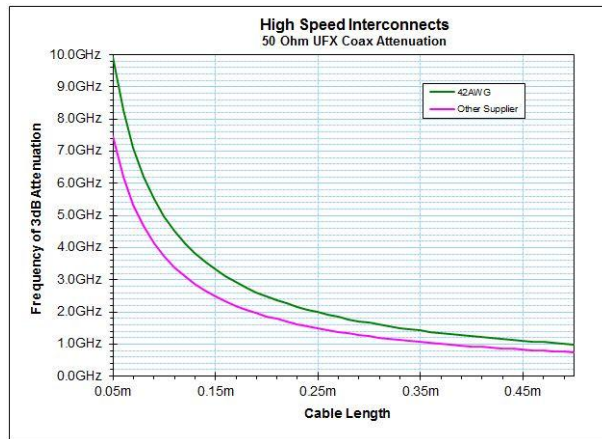


Fig.3 - 42awg coax 3dB Attenuation

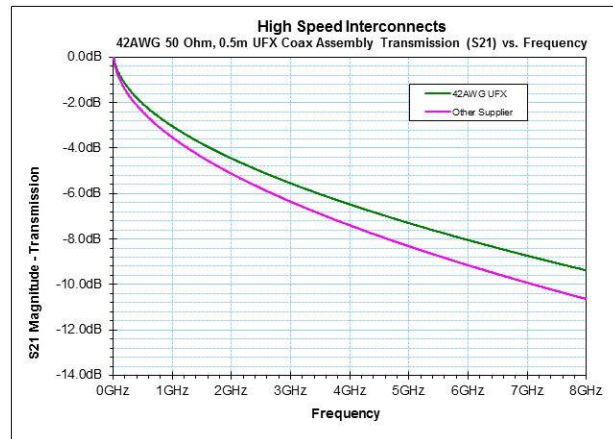


Fig.4 - 42awg coax Transmission (S21)

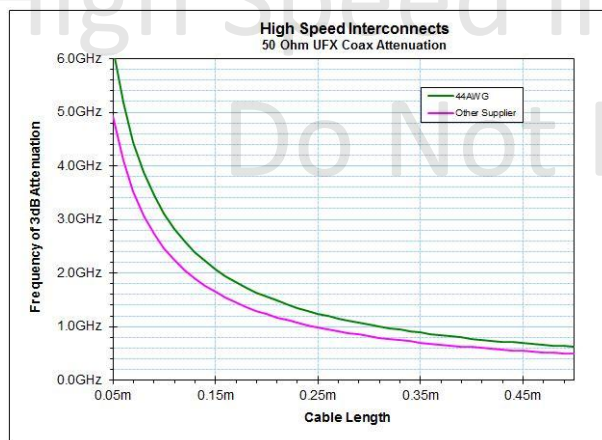


Fig.5 - 44awg coax 3dB Attenuation

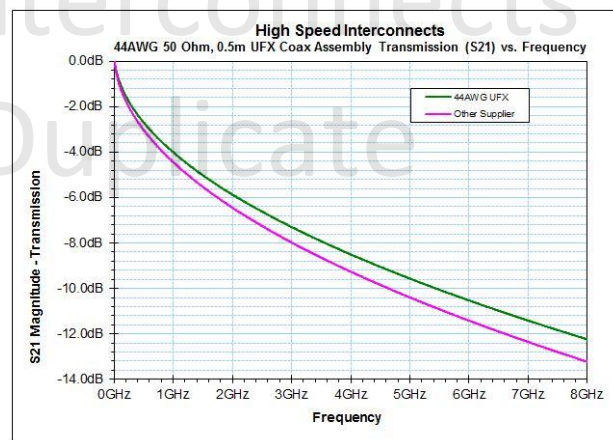


Fig.6 - 44awg coax Transmission (S21)

**Conclusion** - High Speed Interconnects UFX micro coaxial cable performed better than competitive samples for all AWG sizes, over the 0.05 – 0.5m cable length range, and over the 0-8GHz frequency range.

High Speed Interconnects offers a full line of high performance coaxial cable products. Custom solutions are also available to meet your unique cable interconnect requirements. For more information please contact High Speed Interconnects Application Engineering at 888-565-7878.

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