

LOWER ATTENUATION SCSI CABLES

BOB BELLINO



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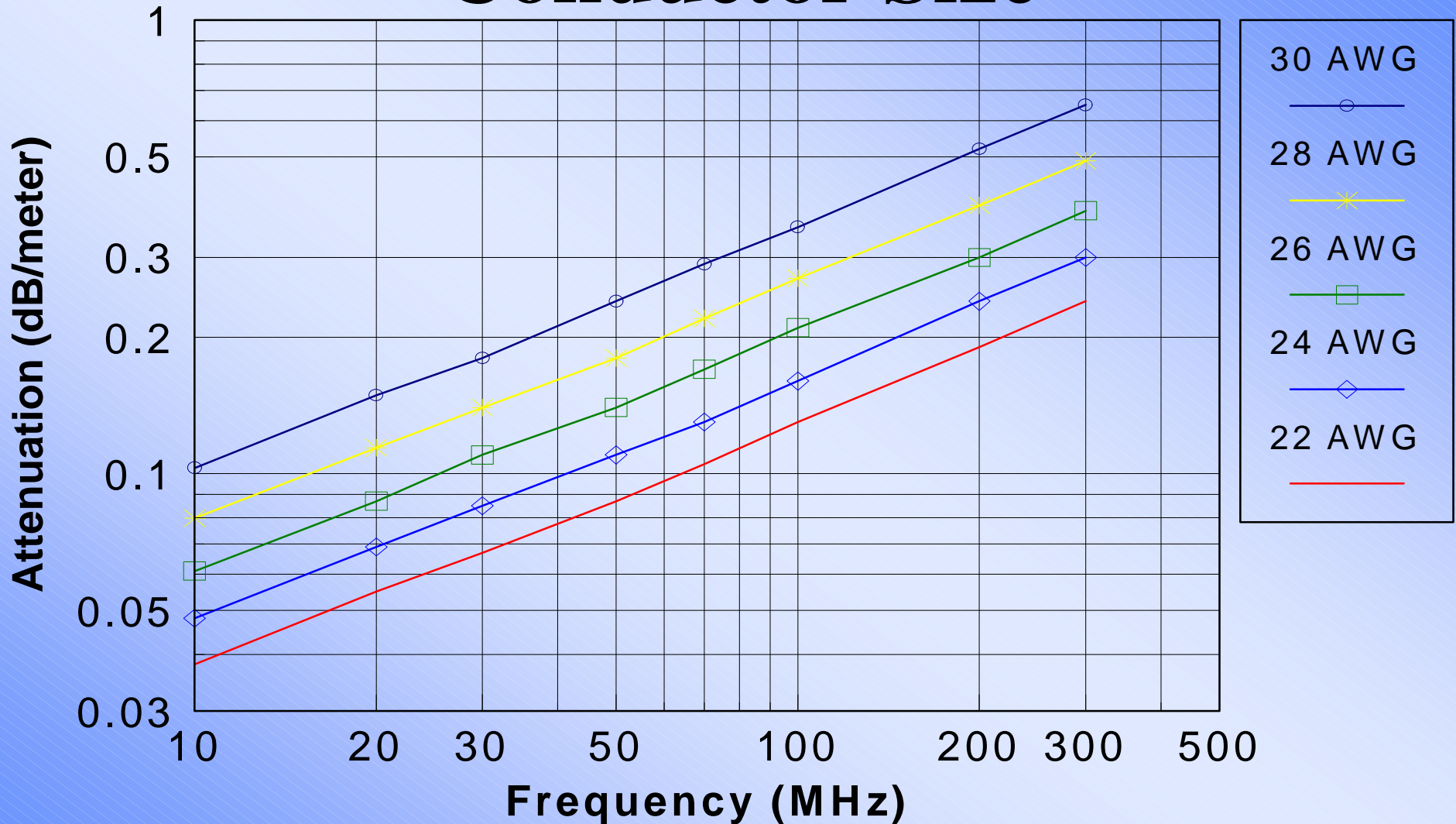
Options

- Larger Conductors
- Solid Conductors
- Silver Plated Conductors
- Higher Impedance



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Conductor Size



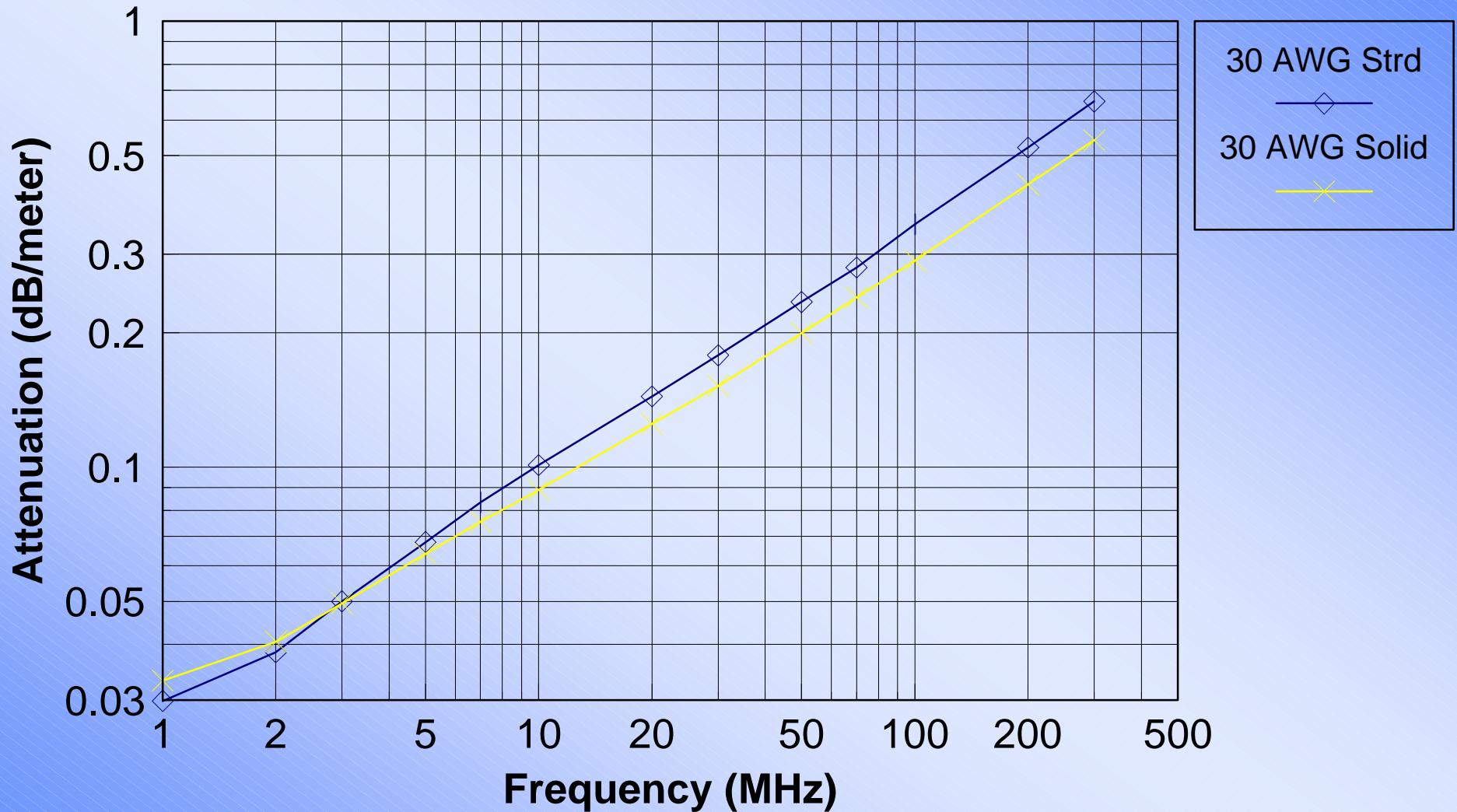
Based on 7 strand tin plated conductors and 124 Ohm impedance



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Solid vs Stranded



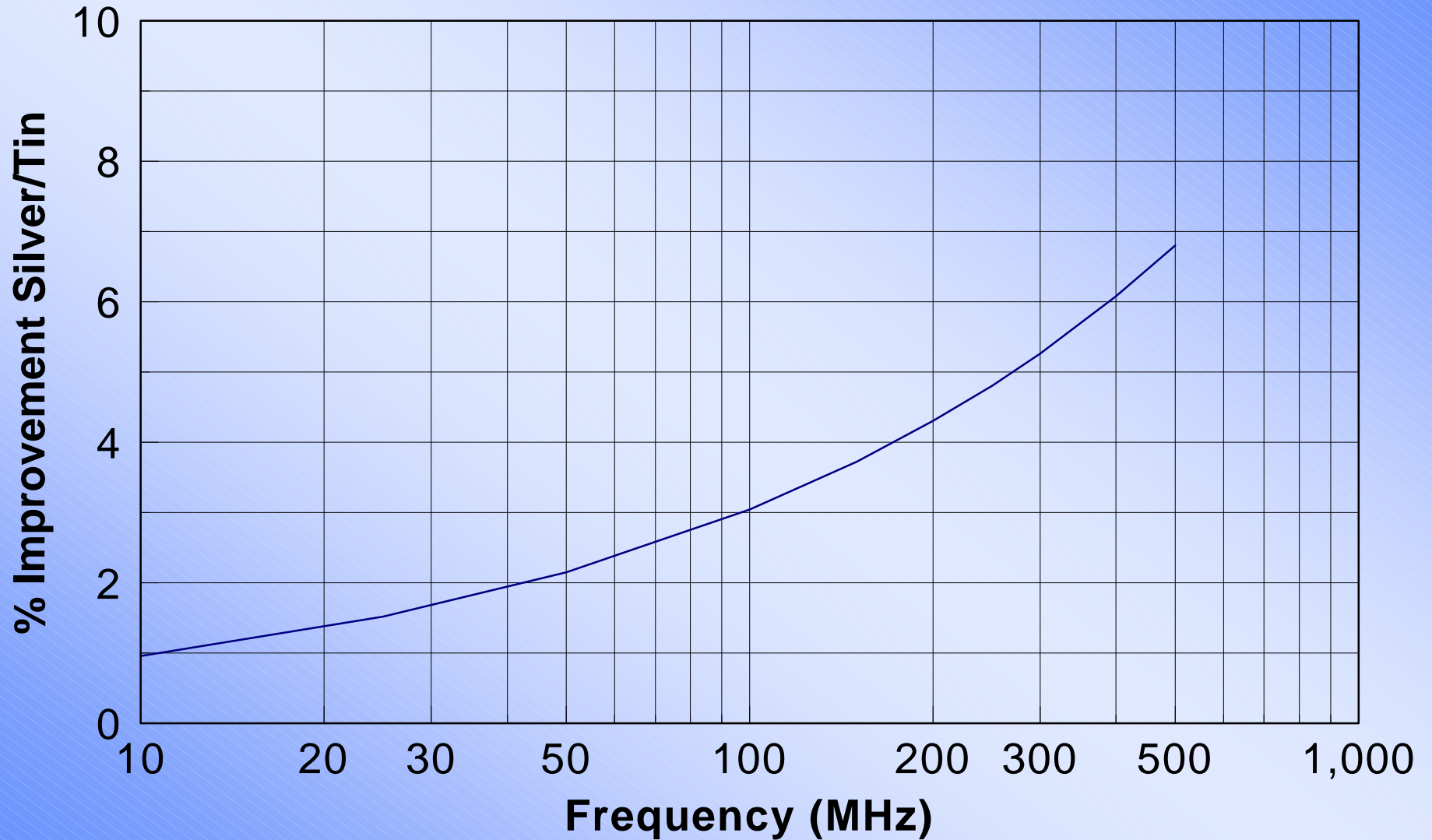
Based on tin plated conductors and 135 Ohm impedance



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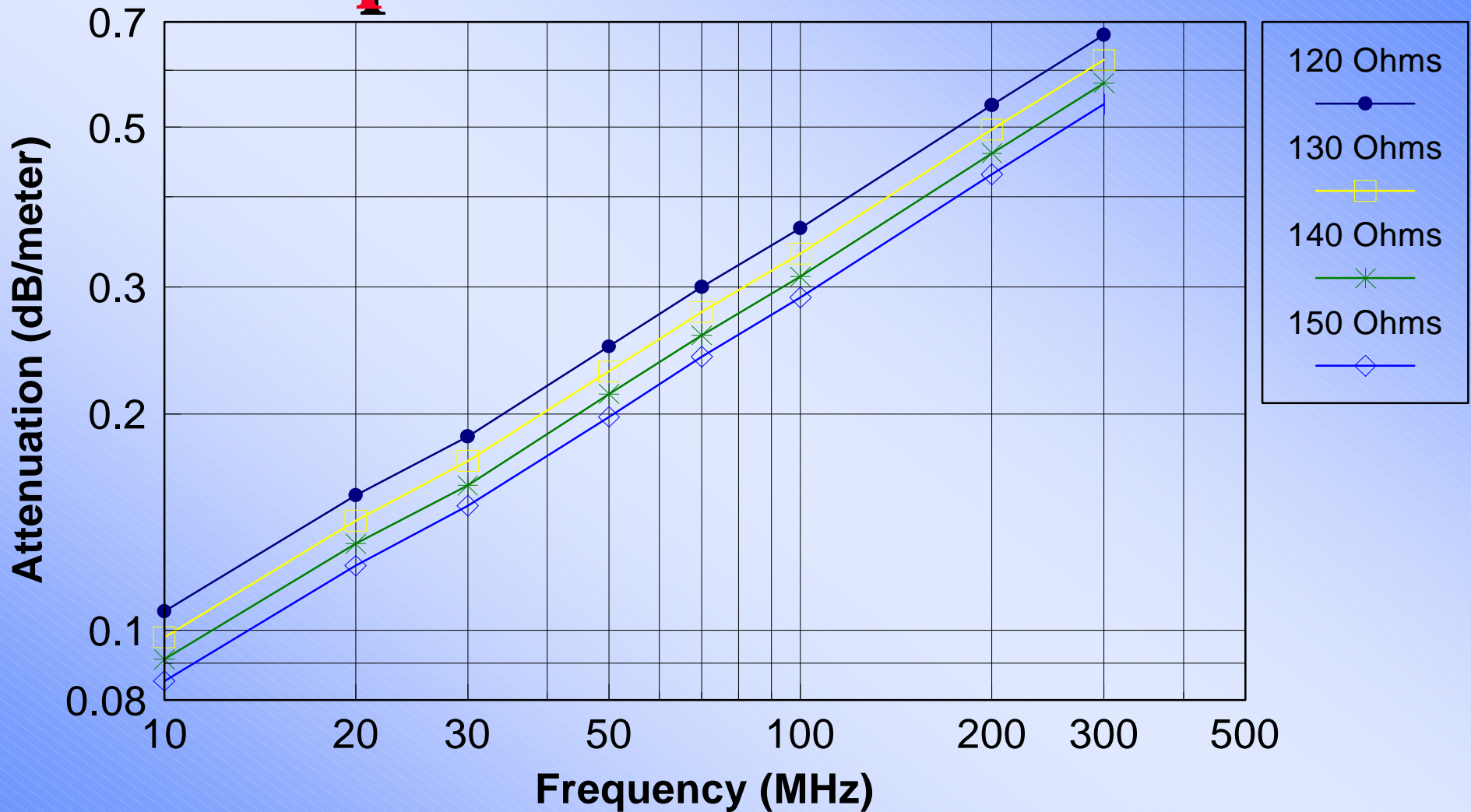
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Silver vs Tin Plating



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Impedance vs Attenuation



Based on 30 AWG 7 Strand tin plated conductors



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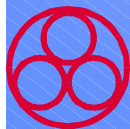
Design Options

AWG SIZE	STRANDING	IMPEDANCE (Ohms)	ATTENUATION (@100 MHz)	JACKET OD (Inches)
30	Stranded	125	1.08	0.355
30	Solid	125	0.90	0.365*
30	Stranded	135	1.00	0.380
30	Solid	135	0.83	0.365
30	Stranded	150	0.90	0.440
30	Solid	150	0.75	0.405

* Solid Polyolefin Insulation

Design Options

AWG SIZE	STRANDING	IMPEDANCE (Ohms)	ATTENUATION (@100 MHz)	JACKET OD (Inches)
28	Stranded	125	0.85	0.440
28	Solid	125	0.71	0.405
28	Stranded	135	0.79	0.490
28	Solid	135	0.66	0.425
28	Stranded	150	0.71	0.545
28	Solid	150	0.59	0.500
26	Stranded	125	0.62	0.535
26	Solid	125	0.51	0.500



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Design Options

All options are based on:

- Tin plated conductors
- Foam Polyolefin insulation
- 34 pair, double shield
- UL CL2, CSA FT1



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Summary

- 3 Design options seem attractive based on performance/diameter
 - 28 AWG Solid 125 Ohm
 - 28 AWG Solid 135 Ohm
 - 26 AWG Solid 125 Ohm
- Madison is manufacturing sample quantities of all 3 cables. Available in August.
- For samples, contact Jon Diorio

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