LOWER ATTENUATION
SCSI CABLES

BOB BELLINO
Options

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

Based on 7 strand tin plated conductors and 124 Ohm impedance

MADISON Cable Corporation
An AMP Company
Solid vs Stranded

Based on tin plated conductors and 135 Ohm impedance

MADISON Cable Corporation
An AMP Company
Silver vs Tin Plating

% Improvement Silver/Tin

Frequency (MHz)
Impedance vs Attenuation

Based on 30 AWG 7 Strand tin plated conductors

Attenuation (dB/meter)

Frequency (MHz)

120 Ohms
130 Ohms
140 Ohms
150 Ohms

Based on 30 AWG 7 Strand tin plated conductors
### Design Options

<table>
<thead>
<tr>
<th>SIZE</th>
<th>STRANDING</th>
<th>IMPEDANCE (Ohms)</th>
<th>ATTENUATION (@100 MHz)</th>
<th>JACKET OD (Inches)</th>
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* Solid Polyolefin Insulation
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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
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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