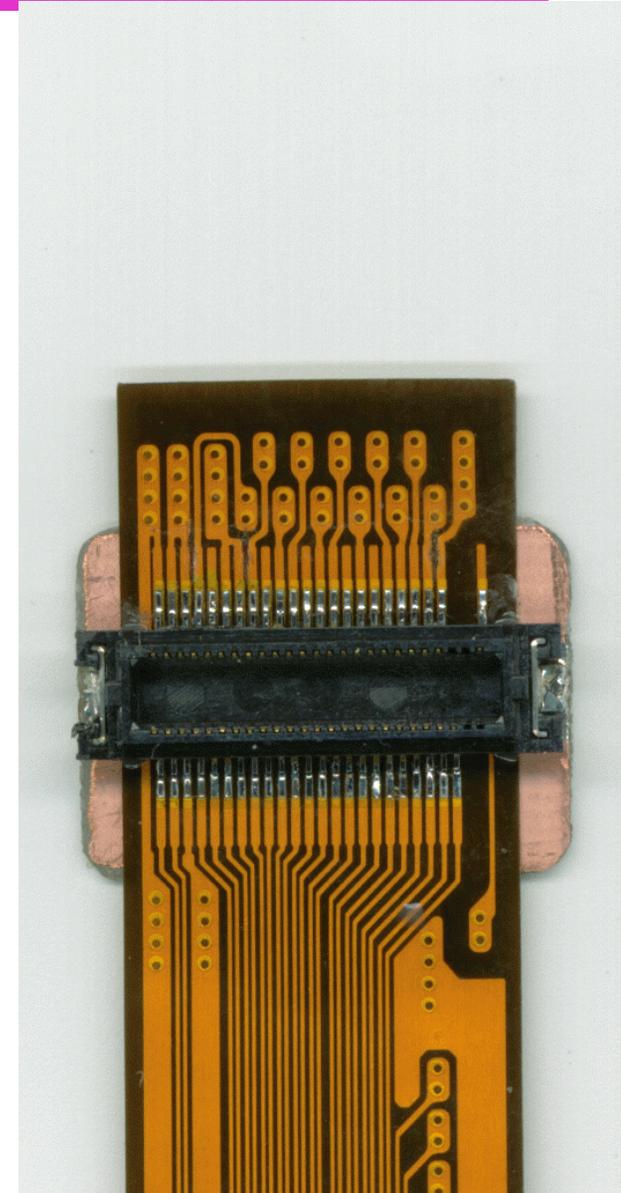




# Backing for Jumper cables

Andrei Nomerotski 3/24/03

- G10 backing is glued to Digital Jumper Cable under AVX connector
  - ◆ Prevents bending of the cable
    - ▲ Spec for AVX connectors is to be used with rigid substrates
    - ▲ Last summer had failures of clock lines with out backing
    - ▲ Good performance since started gluing the backing
  - ◆ Sturdier design
  - ◆ Easier plugging/unplugging





# Dimensions & Strain Relief

- Dimensions
  - ◆ 16 x 12 mm in Design Parameters
    - ▲ 3 mm connector W=15.6 mm
    - ▲ 2.5 mm connector W=16.4 mm
  - ◆ Decision to use 2.5 mm connector
- Strain relief
  - ◆ 2.5 mm connector has strain relief pads
    - ▲ Makes assembly sturdier
      - Had history of backing peel-offs
    - ▲ Recommended distance between extremes of soldering pads is 16.8 mm
    - ▲ See backing drawing
    - ▲ Should we ground metal pieces/pads?
      - Could expose ground on top of DJC
  - ◆ Proposed to mechanical group 17x 12 mm backing
    - ▲ Possibly can use smaller width (16.4 mm?)
    - ▲ Will work with them to resolve this





# Other things

- Outer end of DJC
  - ◆ Will use 3 mm connector with strain relief
    - ▲ Backing will have solder pads
  - ◆ Less critical dimension-wise
- L0-1
  - ◆ Could use 2.5 mm connectors
    - ▲ Do they fit?
    - ▲ Does backing fit?
  - ◆ Need UW input