

# SPIT Goals

- **Small High Density Connectors**
  - IO Connector, 16 bit Data Bus
  - IO Connector, 32 Bit Data Bus
  - Device Connector, 32 Bit Data Bus
- **3.3 Volt Termpwr**
  - 3.3 Volt guide lines
  - 3-5.25 Volt Interoperability
- **FAST-40 RAID/Server Applications**
  - Single-ended restricted bus & Device capacitance
  - Differential
- **Full Hot Plugging Devices-not just in the Annex**

# SPIT Target

- SPIT needs to track the performance of the systems
  - 64 bit processors Systems and PCs, video servers, RAIDs 20 to 160 megabyte/second transfer rates required.
  - Disk Sizes 2, 4, 8, 10 Gigabyte drives announce now, SPIT should be targeted to the future 10 to 100 Gigabyte drives.
  - Ease of use.
  - Reliable small connectors and cables.
  - Hot Swap - even for PCs, not just RAIDs and servers.

# 32 AWG Wire Cable

- TERMPWR Voltage Drop
  - 1 28 AWG 8 bit bus - 3 / 6 meters
  - 4 30 AWG 16 Bit bus - 3 / 6 meters
  - 6 32 AWG 16/32 Bit Bus 1.5 / 3 meters
    - higher current - Far end current 18 Lines 0.5 Amps, 27 Lines 0.75 Amps, 45 Lines 1.25 Amps
  - 50 pin Connector resistance
  - 68 pin Connector resistance SPI/SPIT (Miniature)
  - 100+ pin Connector resistance