SCSI 1 IMPLEMENTATION
(ALL 8 BIT)

2X25 SQ POST HEADER, 100 MIL TYPICAL

2X25 RECEPTACLE INTERNAL TERMINATOR 100 MIL

2X25 RECEPTACLE IDC, 100 MIL TYPICAL

50 MIL RIBBON CABLE TYPICAL

2X25 RT ANGLE RECEPTACLE, 85 MIL RIBBON D

2X25 CABLE PLUG EXTERNAL TERMINATOR 85 MIL RIBBON D

2X25 CABLE PLUG 85 MIL RIBBON D

50/50 CABLE

2X25 PLUG IDC

2X25 PLUG IDC

2X25 PANEL MOUNT 85 MIL IDC RECEPTACLE

2X26 PLUG EXTERNAL TERMINATOR

50/50 CABLE
SCSI 3 IMPLEMENTATION
(ALL 16 BIT)
Ribbon I/O
Interconnection System

'BLIND MATE' PROTECTION

PREVENTS DAMAGE TO CONTACTS WITHOUT THE NEED FOR A SPECIAL AUXILIARY ALIGNMENT GUIDE
Ribbon I/O

Interconnection System

RECEPTACLE CARD–SLOT DESIGN

PROVIDES OPTIMUM P.C.B. PROFILE
AND DESIGN FLEXIBILITY

CARD SLOT AND CONTACT DESIGN
ACCOMODATE .062 +/- .007
STANDARD PRINTED CIRCUIT BOARD
Ribbon I/O

Interconnection System

FIRST-MAKE, LAST-BREAK FEATURE

GROUNDS ENGAGE FIRST

RECEPTACLE SECTION

PLUG SECTION

.050 MINIMUM CONTACT GAP
Ribbon I/O

Interconnection System

CONTACT WIPE

.073 HERTZIAN WIPE

.120 MINIMUM CONTACT WIPE
Hertz Stress

A key to consistent and long-term reliability

Mated contact pair ellipsoid on flat surface

150,000 P.S.I. minimum at contact interface for maximum reliability and contact integrity
Ribbon I/O

Interconnection System

• Blind Plugging - Existing 60 Position IBM SCSI

  Field data: Approximately 1,000,000 pieces shipped worldwide; no failures

• Durability / Cyclability

  - IBM EST requirement for up to 1500 cycles
  - ITL Testing (Battelle class 2 environmental)
    1500 cycles, less than 10 milliohm delta R
    2 suppliers passed; 3rd starting 3/92

• Intermatability among suppliers

  - Blade (male) controlled in connector drawing/spec
  - Shell controlled in connector drawing/spec
  - Testing done among 3 suppliers

• Interchangability among suppliers

  - Footprint controlled in connector drawing/spec
  - Retention mechanisms controlled in drawing/spec
  - Testing done among 3 suppliers