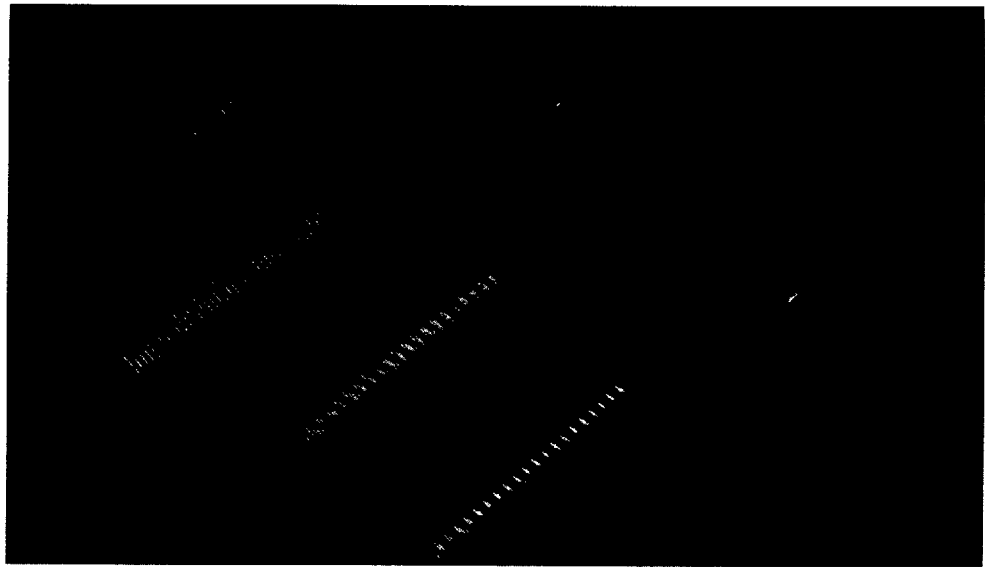


CHAMP .050 Series, Blindmate, Single Connector Attachment (SCA 2)**Product Facts**

- Single I/O connector for 3.5 SCSI Disk Drives
- Capable of carrying required SCSI data, control, power and auxiliary signals
- Meets the requirements of SFF-8046 and SFF-8048 Specifications
- Supports narrow and wide SCSI
- Transitions to Ultra SCSI:
 - 40 Megabyte/Sec
- Designed for backplane applications:
 - Eliminates cable related problems
 - SCSI bus termination in backplane
 - No drive termination required
- Integral blindmate capabilities with ± 2 mm misalignment tolerances
- Receptacle has power sequencing capabilities with two level sequencing pattern
- ESD ground contact with integral metal hold-down
- Completely backward compatible with CHAMP .050 Series I connectors
- Disk drive connector options:
 - Straddle mount plug
 - Vertical plug with thru-hole leads
 - Surface mount plug
- Backplane Connector options:
 - Vertical receptacle with thru-hole leads
 - Extended height vertical receptacle with thru-hole leads
 - Extended height right-angle receptacles with thru-leads
- Durable phosphor bronze contacts, plated 0.00076 min. gold on the mating end, 0.00381 min. tin-lead on the solder lead end, all over 0.00127 min. nickel underplating



For SCSI Disk Drives to backplanes and motherboards.

The 80-position CHAMP .050 Series I, Blindmate Single Connector Attachment (SCA 2) answers the industry's need for one connector that is suitable for the direct attachment of SCSI disk drives to backplanes and motherboards.

The CHAMP SCA 2 connector, in an 80-position configuration, has been designed for 8-bit and 16-bit SCSI devices, and carries all required SCSI signals as defined by the SPI (SCSI-3 Parallel Interface) proposed Standard. Featuring sequenced contacts, it is capable of carrying all the required SCSI data, control, power and auxiliary signals.

Designed and manufactured with the Disk Drive Industry's quality requirements as the driving motivation, the 80-position SCA 2 connector features the industry accepted

polarized "D" interface. Housings are made of UL 94V-0 rated, IR reflow process compatible, high temperature material. The connector has gold-over-nickel plated ribbon style contacts and ESD ground contacts with integral metal hold-down. The receptacle has complete power sequencing capabilities. In addition to these features, the CHAMP Series I, Blindmate SCA 2 connector is fully compatible with existing CHAMP .050 Series I connectors.

Blindmate SCA 2 connectors are the interface for 3.5 SCSI disk drives and will permit direct drive attachment to backplane arrays, which can eliminate costly cable assemblies and adapter boards while improving system reliability.

For additional information on this new technology contact AMP Incorporated.

Performance Requirements

Current Rating—1 amp max.

Voltage Rating—250 VAC max.

Durability—500 cycles

Operating Temperature Range— -55°C — $+105^{\circ}\text{C}$

Mating Force—90 grams/contact pair max.

Termination Resistance—35 milliohms max. initial

Insulation Resistance—1000 megohms min. initial

Vibration Resistance—10-55-10 Hz for 2 hours