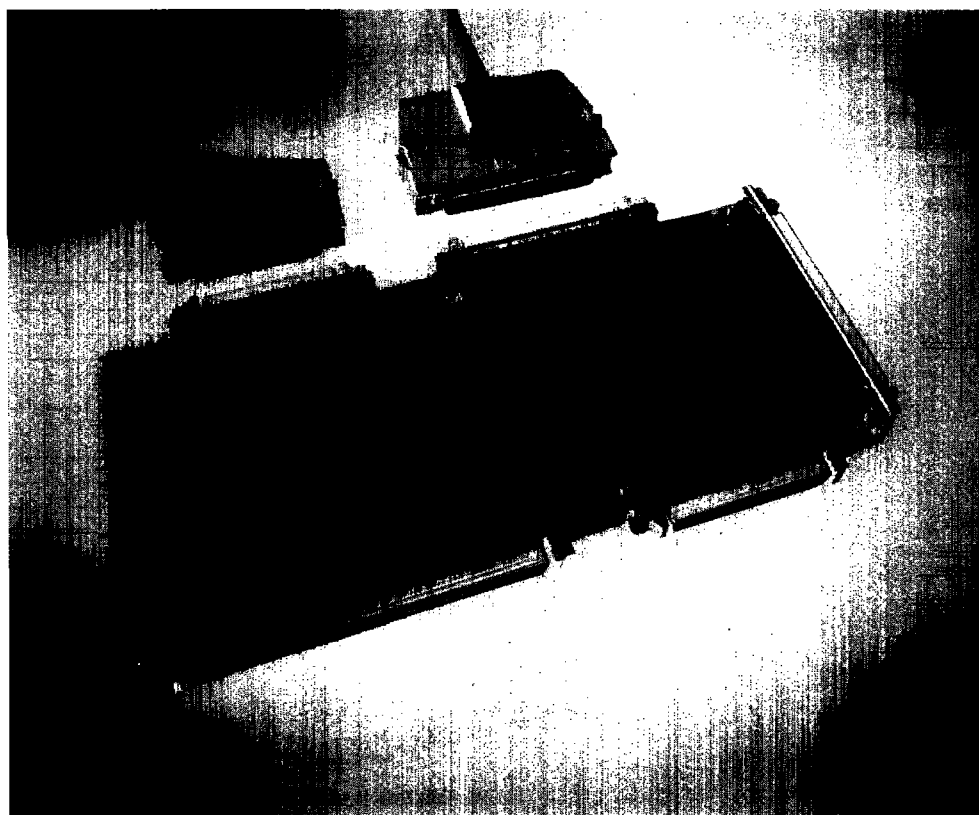


Series III Connectors (.050 x .100 [1.27 x 2.54] Centerline)

Product Facts

- Compatible with SCSI-2, EIA RS-232, ISO/IEC 11569 HIPPI and IPI-2 standards
- High-density D type interface
- 20 through 120 contact positions
- Tab plug contacts and tuning-fork receptacle contacts, with reliable two-point (redundant) contact; contact normal force is not dependent on plastic housing support
- Insulation displacement wire termination of discrete wire, round-to-flat laminated wires and flat ribbon cable
- Vertical and right-angle headers
- Board-to-board, cable-to-board and cable-to-cable connection
- Rugged die cast backshell with excellent EMI/RFI protection
- Shields mate before contacts, with ground mating first and breaking last
- Squeeze-to-release latches or jackscrew hardware
- Keying available
- Board connectors compatible with standard thru-hole flow solder and surface-mount reflow solder processes
- Unshielded, All-Plastic Cable Plugs available
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR 7189A
- Free 3D and 2D CAD images—See page 56



Shielded AMPLIMITE .050 Series connectors offer a high-density D type interface. Featuring .050 x .100 [1.27 x 2.54] contact centerline spacing, these compact and reliable connectors are available in 20 through 120 positions. Their construction offers exceptional EMI/RFI shielding effectiveness.

Shielded AMPLIMITE .050 Series Connectors, Series III, are approved to SCSI-2, SCSI-3, EIA RS-232, IPI-2, ISO/IEC 11569 and HIPPI standards.

Connectors are available in cable-mount and panel mount versions and vertical and right-angle mount pcb headers. The headers feature high temperature housings, tight

tolerances and registration features to make them suitable for robotic assembly and high temperature reflow soldering.

Cable and panel connectors use insulation displacement contacts for fast termination of discrete, round-to-flat laminated, and ribbon cable. Recommended wire size is 28 AWG [0.08-0.09 mm²] or 30 AWG [0.05 mm²], solid or 7 strand, with a .029-.036 [0.74-0.89] insulation diameter.

Backshells are available with either a straight or angled cable exit. Hardware includes a choice of integral squeeze-to-release latches or jackscrews.

Unshielded, All-Plastic Cable Plugs are available in 50, 68, and 100 positions and offer an

economical answer to your connector needs on applications where EMI/RFI protection is not a factor.

Termination Connectors are available for SCSI-2 Single-Ended and SCSI-2 Differential applications.

Series I, II and III intermateability:

Series I—will intermate with 50, 68 and 96 position connectors in Series II and III.

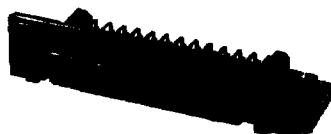
Series II—will intermate with all Series III positions and the 50, 68, and 96 position Series I

Series III—will intermate with all Series II positions and the 50, 68, and 96 position Series I

Right-Angle Receptacle Headers Series III

With Rails and
Latch Blocks

.112 [2.84]
Solder Tail Length



Without Boardlocks



With Boardlocks

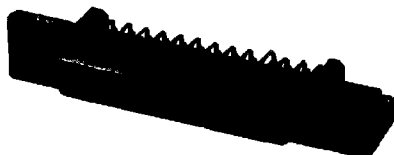


Note: 50 Pos. Housing Dim. (Typ.)—2.065 [52.45] L x .664 [16.87] W x .406 [10.31] H

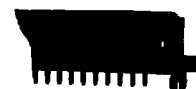
No. of Pos.	Part Numbers	
	Without Boardlocks	With Boardlocks
20	749075-1	—
26	749075-2	749830-2
28	749075-3	749830-3
40	—	749830-4
50	749075-5	749830-5
50	750494-5*	750463-5*
60	749075-6	—
68	749075-7	749830-7
80	749075-8	—
100	749075-9	749830-9
120	1-749075-0	—

*Have 4-40 threaded mating holes (2 places) for use with female screwlock Part No. 750644-1.

Note: Extra pin contact protection is provided by rails, which facilitate a straight-out, unmating motion. A side-to-side rocking motion should not be used to disengage the connector system.



Without Boardlocks



With Boardlocks

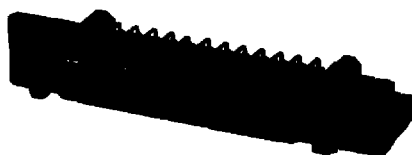
Note: 68 Pos. Housing Dim. (Typ.)—2.515 [63.88] L x .656 [16.66] W x .406 [10.31] H

No. of Pos.	Part Numbers		
	With .112 [2.84] Solder Tails		With .144 [3.66] Solder Tails
	Without Boardlocks	With Boardlocks	With Boardlocks
50	749076-5	750737-5	786324-5
68	749076-7	750737-7	786324-7
100	749076-9	750737-9	786324-9

Note: Female screwlocks must be used to mate with cable assemblies with male jackscrew hardware.

Without Rails—
With Latch Blocks

.112 [2.84] and .144 [3.66]
Solder Tail Lengths



Without Boardlocks



With Boardlocks

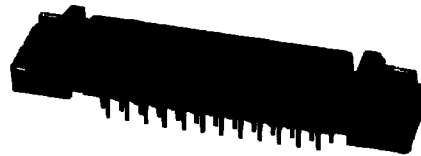
Note: 50 Pos. Housing Dim. (Typ.)—2.065 [52.45] L x .664 [16.87] W x .406 [10.31] H

No. of Pos.	Part Numbers			
	With .112 [2.84] Solder Tails		With .144 [3.66] Solder Tails	
	Without Boardlocks	With Boardlocks	Without Boardlocks	With Boardlocks
20	—	—	786521-1	—
26	749649-1	749831-2	—	—
28	—	749831-3	—	—
40	749649-4	—	—	—
50	749649-5	749831-5	786521-5	786323-5
50	—	750641-5*	—	—
60	—	—	—	—
68	749649-7	749831-7	786521-7	786323-7
80	—	—	786521-8	—
100	749649-9	—	—	786323-9
100	750505-9*	—	—	—
120	—	1-749831-0	—	—

*Have 4-40 threaded mating holes (2 places), for use with female screwlock Part No. 750644-1.



**Vertical Receptacle
Headers, Series III**
.125 [3.18] Solder
Tail Length



With Rails and Latch Blocks



Without Rails and Latch Blocks
(for use with jackscrew mating hardware)



Without Rails—With Latch Blocks

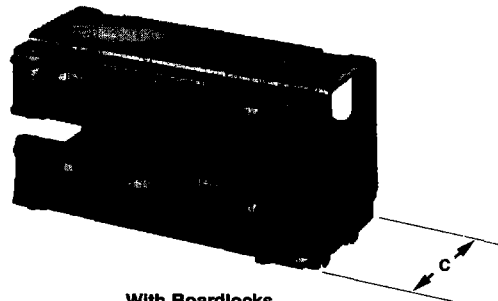
Note: 50 Pos. Housing Dim. (Typ.)—2.065 [52.45] L x .406 [10.31] W x .351 [8.92] H

No. of Pos.	Part Number		
	With Rails and Latch Blocks ¹	Without Rails and Latch Blocks ²	Without Rails/ with Latch Blocks
26	749069-2	—	—
28	—	—	749721-3
40	749069-4	—	—
50	749069-5	749070-5	749721-5
68	749069-7	749070-7	749721-7
100	—	749070-9	—

¹ Extra pin contact protection is provided by rails, which facilitate a straight-out, unmating motion. A side-to-side rocking motion should not be used to disengage the connector system.

² Female screwlocks must be used to mate with cable assemblies with male jackscrew hardware.

**Stacked Right-Angle
Headers, Series III**
With Rails and Latch Blocks
.112 [2.84] Solder Tail Length



With Boardlocks

Note: 50 Pos. Housing Dim. (Typ.)—
2.065 [52.45] L X .957 [24.31] W X .825 [20.96] H

No. of Pos.	Dim. C	Part No.
26	.821 [20.85]	750713-1
50	.957 [24.31]	750885-1
50	.906 [23.01]	750885-2

Note: Extra pin contact protection is provided by rails, which facilitate a straight-out, unmating motion. A side-to-side rocking motion should not be used to disengage the connector system.