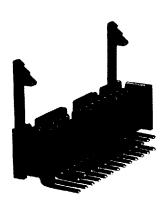
AMP

Low Profile Headers-Shrouded with Ejection Latches and .150 [3.81] End Dimension Double Row, .100 x .100 [2.54 x 2.54] Centers

.025 [0.64] Square Right-Angle Post



Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Contacts—Copper alloy, duplex plated .000030 [0.00076] gold on contact area, .000100-.000200 [0.00254-0.00508] tin-lead on solder area, with entire post underplated .000050 [0.00127] nickel

Related Product Data:

Electrical Characteristics—page 5
Mateable Connectors:

Pages 10 thru 15

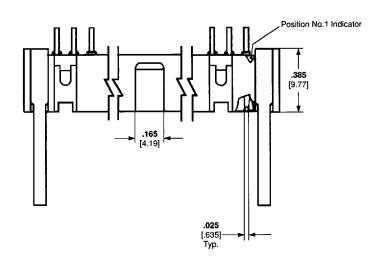
Flat Flexible Film Connectors— Catalog 82007

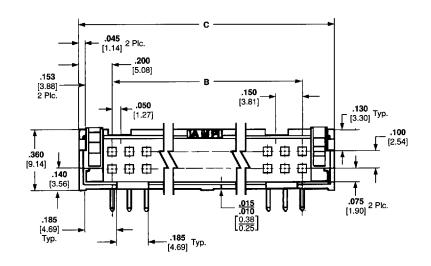
AMPMODU Wire-Applied Receptacles—Catalog 82187

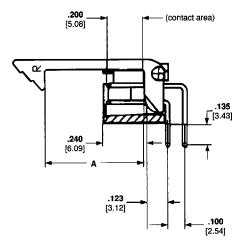
AMPMODU MT Connectors with Ejection Covers—Catalog 82104

Accessories:

Snap-In Polarizer—page 22





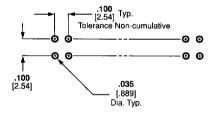




Low Profile Headers-Shrouded with Ejection Latches and .150 [3.81] End Dimension Double Row, .100 x .100 [2.54 x 2.54] Centers (Continued)

No. of	Dimensions		Latching Height (See Notes 1 & 2)	Deat No.
Pos.	В	С	A	Part No.
10	.400	.800	.585 [14.9]	104130-1
	10.16	20.32	.435 [11.0]	104315-1
14	.600	1.000	.585 [14.9]	104130-2
	15.24	25.40	.435 [11.0]	104315-2
16	.700	1.100	.585 [14.9]	104130-3
	17.78	27.94	.435 [11.0]	104315-3
20	.900	1.300	.585 [14.9]	104130-4
	22.86	33.02	.435 [11.0]	104315-4
26	1.200	1.600	.585 [14.9]	104130-5
	30.48	40.64	.435 [11.0]	104315-5
34	1.600	2.000	.585 [14.9]	104130-6
	40.64	50.80	.435 [11.0]	104315-6
40	1.900	2.300	.585 [14.9]	104130-7
	48.26	58.42	.435 [11.0]	104315-7
44	2.100	2.500	.585 [14.9]	_
	53.34	63.50	.435 [11.0]	104315-8
50	2.400	2.800	.585 [14.9]	104130-9
	60.96	71.12	.435 [11.0]	104315-9
60	2.900	3.300	.585 [14.9]	1-104130-0
	73.66	83.82	.435 [11.0]	1-104315-0

- 1. .585 [14.9] latching height to be used when mating to a receptacle with strain relief.
- 2. .435 [11.0] latching height to be used when mating to a receptacle without strain relief.



Recommended Hole Layout for Manual Insertion



Electrical Characteristics and Introduction

Electrical Characteristics

Contact Current Rating-1 ampere (continuous)

Operating Temperature— -55°C to +105°C

Dielectric Withstanding Voltage— Receptacles (all)—1000 Volts, RMS Card Edge Connectors—1000 Volts, RMS DIP Plugs—300 Volts, RMS Paddle Board Connectors—500 Volts, RMS Pin Connectors—500 Volts, RMS Ejection Style Pin Headers (all)— 1000 Volts, RMS Ribbon Cable—2000 Volts, RMS

No. of	Cable	PCB	Mating
Positions	Centerlines	Area	Height
	.050	0.47 in.2	0.565
	1.27	303 mm ²	14.35
20	.039	0.134 in. ²	0.390
	1.00	86.64 mm ²	9.91
	.025	0.213 in.2	0.584
	0.64	137 mm ²	14.83
-	.050	1.01 in.2	0.565
	1.27	645 mm ²	14.25
50	.039	0.335 in. ²	0.390
	1.00	216 mm ²	9.91
	.025	0.426 in. ²	0.584
	0.64	275 mm ²	14.83

Chart gives an example of a 20-position and a 50-position configuration showing the optimum pc board space and mating connector system height. These factors are of prime importance when you consided the premium placed on system space.

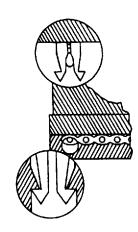
AMP-LATCH Connectors and Mass Termination

AMP-LATCH connectors use insulation displacement contacts (IDC), where each contact has a slotted-beam geometry to mass terminate the conductors. As a wire is pressed down into the slot, the beam tips pierce and displace the insulation. As the conductor is pressed farther into the slot, the contact provides sufficient conductor deformation to achieve a gastight interface.

The design of the contact supplies residual spring pressure to maintain a long term gastight connection. Since the connector **is** gastight, it will not corrode or otherwise degrade from normal environmental exposures.

Just as AMP-LATCH connectors help users derive the full benefits of ribbon cable, one-step application tooling allows them to realize the full productivity of mass termination. AMP offers a full range of die sets and tools, from hand tools to automatic cable assembly machines, to meet every production requirement.

Latching feature of AMP-LATCH Connectors



AMP-LATCH connectors have an additional feature not found in competitive connectors: Contact Latching. As the cable is terminated, a cover snaps down over the contacts.

Each contact individually latches to the cover. Where cable shearing occurs because of inappropriate handling AMP offers the following to protect the cable:

- Pull Tabs
- Strain Reliefs
- Ejection Latches (Mounted on the Headers and Pin Connectors)

In AMP-LATCH connectors, the normal force (the amount of residual spring pressure the contact exerts against the conductor to maintain a gastight connection) is not supported by the plastic in the cover and is obtained solely by the contact design. The latching is **not** related to IDC normal force.