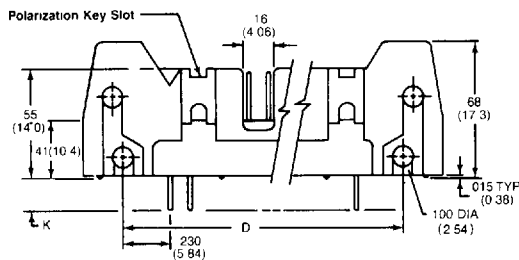


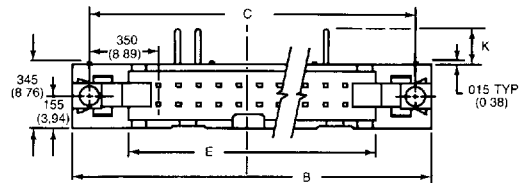
## protected headers — 816 series

order information — four-sided solder tails, .125 PCB

Pins	Style	Straight Solder Tail .125 PCB	Right-Angle Solder Tail .125 PCB	Dimensions					
				B	C	D	F	G	K
10	No Lock & Eject	842-816-1031-035	842-816-1033-035	1.26	1.100	.860	4	.400	.160
	Short Lock & Eject	842-816-1031-135	842-816-1033-135	(32,00)	(27,94)	(21,84)		(10,16)	(4,06)
	Long Lock & Eject	842-816-1031-435	842-816-1033-435						
14	No Lock & Eject	842-816-1431-035	842-816-1433-035	1.46	1.300	1.060	6	.600	.160
	Short Lock & Eject	842-816-1431-135	842-816-1433-135	(37,84)	(33,02)	(26,92)		(15,24)	(4,06)
	Long Lock & Eject	842-816-1431-435	842-816-1433-435						
16	No Lock & Eject	842-816-1631-035	842-816-1633-035	1.56	1.400	1.160	7	.700	.160
	Short Lock & Eject	842-816-1631-135	842-816-1633-135	(39,62)	(35,56)	(29,46)		(17,78)	(4,06)
	Long Lock & Eject	842-816-1631-435	842-816-1633-435						
20	No Lock & Eject	842-816-2031-035	842-816-2033-035	1.76	1.600	1.360	9	.900	.160
	Short Lock & Eject	842-816-2031-135	842-816-2033-135	(44,70)	(40,64)	(34,54)		(22,86)	(4,06)
	Long Lock & Eject	842-816-2031-435	842-816-2033-435						
26	No Lock & Eject	842-816-2631-035	842-816-2633-035	2.06	1.900	1.660	12	1.200	.160
	Short Lock & Eject	842-816-2631-135	842-816-2633-135	(53,32)	(48,26)	(42,16)		(30,40)	(4,06)
	Long Lock & Eject	842-816-2631-435	842-816-2633-435						
30	No Lock & Eject	842-816-3031-035	842-816-3033-035	2.26	2.100	1.860	14	1.400	.160
	Short Lock & Eject	842-816-3031-135	842-816-3033-135	(57,40)	(53,34)	(47,24)		(35,56)	(4,06)
	Long Lock & Eject	842-816-3031-435	842-816-3033-435						
34	No Lock & Eject	842-816-3431-035	842-816-3433-035	2.46	2.300	2.060	16	1.600	.160
	Short Lock & Eject	842-816-3431-135	842-816-3433-135	(62,48)	(58,42)	(52,32)		(40,64)	(4,06)
	Long Lock & Eject	842-816-3431-435	842-816-3433-435						
40	No Lock & Eject	842-816-4031-035	842-816-4033-035	2.76	2.600	2.360	19	1.900	.160
	Short Lock & Eject	842-816-4031-135	842-816-4033-135	(70,10)	(66,04)	(59,94)		(48,26)	(4,06)
	Long Lock & Eject	842-816-4031-435	842-816-4033-435						
50	No Lock & Eject	842-816-5031-035	842-816-5033-035	3.26	3.100	2.860	24	2.400	.160
	Short Lock & Eject	842-816-5031-135	842-816-5033-135	(82,80)	(78,74)	(72,64)		(60,96)	(4,06)
	Long Lock & Eject	842-816-5031-435	842-816-5033-435						
60	No Lock & Eject	842-816-6031-035	842-816-6033-035	3.76	3.600	3.360	29	2.900	.160
	Short Lock & Eject	842-816-6031-135	842-816-6033-135	(95,90)	(91,44)	(85,34)		(73,66)	(4,06)
	Long Lock & Eject	842-816-6031-435	842-816-6033-435						
64	No Lock & Eject	842-816-6431-035	842-816-6433-035	3.96	3.800	3.560	31	3.100	.160
	Short Lock & Eject	842-816-6431-135	842-816-6433-135	(100,58)	(96,52)	(90,42)		(78,74)	(4,06)
	Long Lock & Eject	842-816-6431-435	842-816-6433-435						

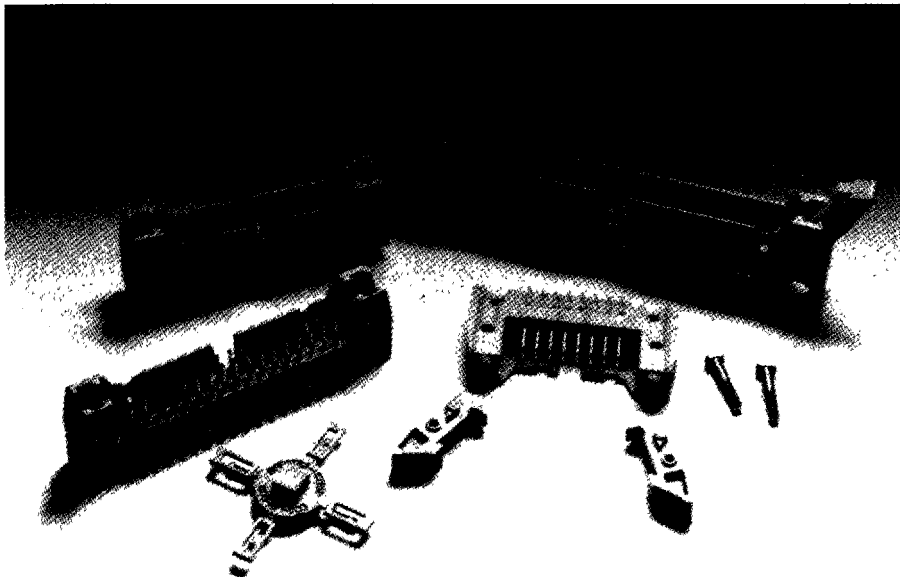


STRAIGHT LONG SOLDER TAIL 4 SIDED



RIGHT ANGLE LONG SOLDER TAIL 4 SIDED

# Amphenol® protected headers, three and four sided — 816 series




## description

All Amphenol headers are available in both right-angle and straight mounting configurations with three- and four-sided versions. Tail lengths are .100" and .160" in solder tail and .620" in wire wrap styles to meet PC board requirements. Lock and eject latches may be added to reduce strain on cable and PC boards when removing mating socket connectors.

## order information

	842 - 816 -	40	22	-4	35
<b>number of contacts:</b>	-10 -20 -34 -60 -14 -26 -40 -64 -16 -30 -50				
<b>pin configuration:</b>	3-sided 27 29 20 21 22 23	4-sided 37 39 30 31 32 33	= straight wire-wrap tail = right angle wire-wrap tail = straight solder tail for .062 PCB = straight solder tail for .125 PCB = right-angle solder tail for .062 PCB = right-angle solder tail for .125 PCB		
<b>lock &amp; eject (L&amp;E) and mounting stud options:</b>	0 = no L&E, no stud 1 = short L&E, no stud 2 = short L&E, short stud 3 = short L&E, long stud		4 = long L&E, no stud 5 = long L&E, short stud 6 = long L&E, long stud		
<b>plating options:</b>	19 = 15µ gold contact area, tin plated tails 35 = 30µ gold contact area, tin plated tails				

## benefits

- MIL-C-83503 compatible
- Snap-in polarization keys
- Easy to install lock & eject latches
- Right-angle and straight mounting styles
- Solder plated tails to avoid solder bath contamination
- Mounting studs option
- UL and CSA recognized 

## characteristics

### Physical

Contact spacing: .100" × .100"  
(2,54mm × 2,54mm) grid  
Number of contacts: 10, 14, 16, 20, 26, 30, 34, 36, 40, 50, 60, 64.  
Contact material: Phosphor bronze  
Contact plating: gold over nickel in mating area, solder plated tails  
Insulation material: Glass reinforced thermoplastic, UL flammability rating 94 V-O

### Electrical

Current rating: 1 amp  
Insulation Resistance:  
5000 megohms (min)  
Dielectric withstanding voltage:  
500 VAC for 60 seconds  
Operating Temperature Range:  
-55° C to +130° C  
(-67° F to +266° F)  
UL Recognized to 130° C

Compatible sockets: 842-812, 216

Blue type indicates standard, available product.

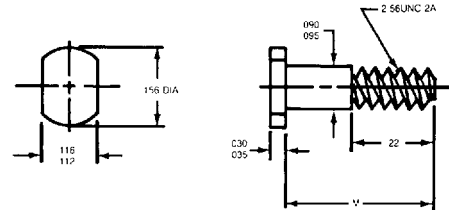
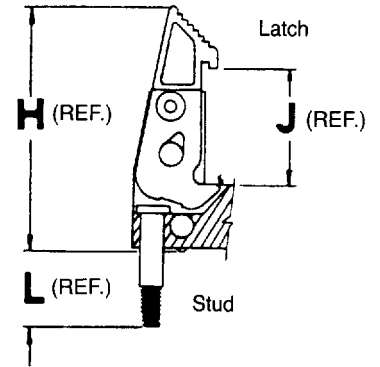
# Amphenol<sup>®</sup> protected headers — 816 series

lock and eject and stud options

Latches	H	J	
Short	1.015 (25,8)	.425 (10,8)	For use with socket connectors without strain relief
Long	1.135 (28,8)	.575 (14,6)	For use with socket connectors with strain relief

Part Numbers	
Short Latch	842-800-1607-005
Long Latch	842-800-1607-006
Short Stud	842-800-0309-001
Long Stud	842-800-0309-002

Studs	L	M	
Short	.270	.450	with short latch — 842-816-XXXX-2XX
			with long latch — " -5XX
Long	.340	.520	with short latch — " -3XX
			with long latch — " -6XX



## lock and eject installation and polarization tabs

Polarization Tab
Part Number: 842-800-1611-003

## recommended mounting hole pattern

