PV® Hand Tool

PROFESSIONAL, FAST & ROBUST HAND TOOL

FCI Basics' crimping hand tool is professionally designed for applications in the prototyping phase or small production quantities. The hand tool has a mechanism which opens automatically after making the last advance of the ratchet.

These hand tools are dedicated for the Mini PV® Header and Receptacle Crimp-to-Wire product.

PV® is the high performance, highly reliable Wire-to-Board; Wire-to-Wire and Board-to-Board system on 2.54mm pitch for shock and vibration applications.

The leaf spring contact design provides a constant contact pressure through up to 1,000 mating cycles to ensure excellent electrical and mechanical performance over time.



TARGET MARKETS

To learn more about how to use our all-in-one Crimping Hand Tool, click to watch the video.

- PV® Hand tool Receptacle P/N:
  - 10162308-001 – AWG 18-20
  - 10162309-001 – AWG 22-26
  - 10162310-001 – AWG 28-32

Contact (base part number) to be use with **10162308-001 (AWG 18-20)**						
47221	47441	47566	47648	47713	47716	47746
47749	47785	48014	48047	48052	48231	48232
48233	48241	48244	48247	48250	48253	48256
48266	48276					

Contact (base part number) to be use with **10162309-001 (AWG 22-26)**						
47216	47217	47439	47445	47457	47565	47649
47706	47712	47715	47743	47745	47747	47750
48046	48049	48051	48234	48235	48236	48242
48245	48248	48251	48254	48257		

Contact (base part number) to be use with **10162310-001 (AWG 28-32)**						
47212	47213	47437	47446	47456	47564	47650
47705	47711	47714	47742	47744	47748	47751
48045	48048	48050	48237	48238	48239	48243
48246	48249	48252	48255	48258		

- Ergonomic handle for an optimal grip

- PV® Hand tool Header Pin:
  - 10182221-001 – AWG 28, 30, 32
  - 10182222-001 – AWG 22, 24, 26

NOTE
Amphenol recommends using the hand tool for prototyping and small production quantities only.
This tool should only be used for the terminals and wire gauges specified in this document.

Hand Tool Assembly

PV® Hand Tool
P/N : 10162308-001, 10162309-001, 10162310-001, 10182221-001 and 10182222-001

1



Unlock 2 pins by pushing towards them.

2



Extract the pins.

3



Open the handles and insert the tool head into the open holes.
The laser marking of both parts should match.

4



Lock the pins by pushing toward them. Hand Tool is ready to use.

NOTE
Amphenol recommends using the hand tool for prototyping and small production quantities only.
This tool should only be used for the terminals and wire gauges specified in this document.

Premature Release of the Hand Tool

In case of an assembly mistake / operating fault the pliers can be opened prematurely by unlocking the integrated ratchet by pushing the handles gently together and at the same time releasing the locking lever.

By doing so the handles can be opened completely and the crimp contact can be released.

5



6



CAUTION
Do not use the crimped wire in case of a premature release!
Please pay attention that in-correct crimped wires are disposed and not processed.