

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. There are 3 different tools depending on the wire gauge needed.

These hand tools are dedicated for the Mini PV® 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.

▪ PV® Hand tool 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

Amphenol ICC recommends using the hand tool for prototyping and small production quantities.

This tool should only be used for the terminals and wire gauges specified in this document.

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



TARGET MARKETS



Hand Tool Assembly

PV[®] Hand Tool

P/N : 10162308-001, 10162309-001 & 10162310-001



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 ICC recommends using the hand tool for prototyping and small production quantities only.

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.



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.

Professionelles Crimphandwerkzeug Professional crimping hand tool

Verwendungsbereich / Field of application

AWG 18-20

Amphenol ICC PN: 10162308-001

- Leichte Handhabung
Easy handling
- Linearer Hub
Straight action principle
- Kontaktpositionierung mit Klapppositionierer
Contact positioning with flap locator
- Präzise gefertigte Profile
Precisely manufactured profiles
- Oberfläche brüniert
Burnished surface
- Ergonomisch geformte Soft-Handgriffe
Farbe: verkehrsblau (änhl. RAL 5017)
Ergonomically formed soft-grips
Colour: Blue (similar RAL 5017)
- RoHS konform
RoHS compliant

Abmessungen:

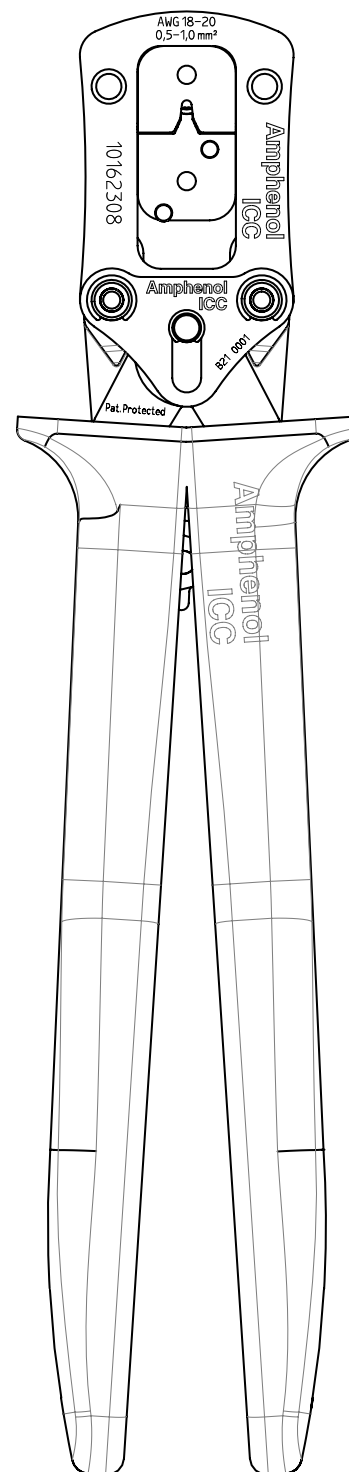
Dimensions:

	Werkzeugkopf tool head	Basiswerkzeug basic tool	Crimphandwerkzeug komplett crimping hand tool completely
Länge ca. Length approx.	65 mm	210 mm	255 mm
Breite ca. Width approx.	37 mm	65 mm	65 mm
Tiefe ca. Depth approx.	29 mm	29 mm	29 mm
Gewicht ca. Weight approx.	100 g	340 g	440 g

Anwendungsbereich:

Application range:

Leiterquerschnitt Cross section range	Crimphöhe Leiter Crimp height wire	Crimpbreite Leiter Crimp width wire ± 0,05	Kontakt Typ: Contact Typ:
AWG 18-20 0,5-1,0 mm ²	1,02-1,07	1,42-1,47	Mini-PV



Professionelles Crimphandwerkzeug Professional crimping hand tool

Verwendungsbereich / Field of application

AWG 22-26

Amphenol ICC PN: 10162309-001

- Leichte Handhabung
Easy handling
- Linearer Hub
Straight action principle
- Kontaktpositionierung mit Klapppositionierer
Contact positioning with flap locator
- Präzise gefertigte Profile
Precisely manufactured profiles
- Oberfläche brüniert
Burnished surface
- Ergonomisch geformte Soft-Handgriffe
Farbe: verkehrsblau (änhl. RAL 5017)
Ergonomically formed soft-grips
Colour: Blue (similar RAL 5017)
- RoHS konform
RoHS compliant

Abmessungen:

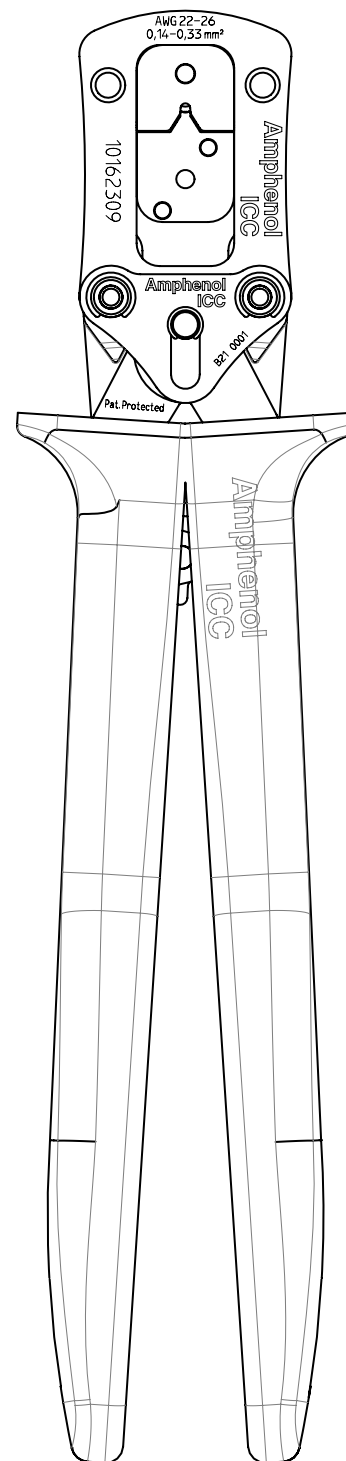
Dimensions:

	Werkzeugkopf tool head	Basiswerkzeug basic tool	Crimphandwerkzeug komplett crimping hand tool completely
Länge ca. Length approx.	65 mm	210 mm	255 mm
Breite ca. Width approx.	37 mm	65 mm	65 mm
Tiefe ca. Depth approx.	26,5 mm	29 mm	29 mm
Gewicht ca. Weight approx.	95 g	330 g	425 g

Anwendungsbereich:

Application range:

Leiterquerschnitt Cross section range	Crimphöhe Leiter Crimp height wire	Crimpbreite Leiter Crimp width wire ± 0,05	Kontakt Typ: Contact Typ:
AWG 22-26 0,14-0,33 mm ²	0,81-0,86	1,16	Mini-PV



Professionelles Crimphandwerkzeug Professional crimping hand tool

Verwendungsbereich / Field of application

AWG 28-32

Amphenol ICC PN: 10162310-001

- Leichte Handhabung
Easy handling
- Linearer Hub
Straight action principle
- Kontaktpositionierung mit Klapppositionierer
Contact positioning with flap locator
- Präzise gefertigte Profile
Precisely manufactured profiles
- Oberfläche brüniert
Burnished surface
- Ergonomisch geformte Soft-Handgriffe
Farbe: verkehrsblau (änhl. RAL 5017)
Ergonomically formed soft-grips
Colour: Blue (similar RAL 5017)
- RoHS konform
RoHS compliant

Abmessungen:

Dimensions:

	Werkzeugkopf tool head	Basiswerkzeug basic tool	Crimphandwerkzeug komplett crimping hand tool completely
Länge ca. Length approx.	65 mm	210 mm	195 mm
Breite ca. Width approx.	37 mm	65 mm	65 mm
Tiefe ca. Depth approx.	29 mm	29 mm	29 mm
Gewicht ca. Weight approx.	100 g	340 g	440 g

Anwendungsbereich:

Application range:

Leiterquerschnitt Cross section range	Crimphöhe Leiter Crimp height wire	Crimpbreite Leiter Crimp width wire ± 0,05	Kontakt Typ: Contact Typ:
AWG 28-32 0,03-0,08 mm ²	0,66-0,71	0,94-0,99	Mini-PV

