

Dubox® 2.54mm Hand Tool

PROFESSIONAL, FAST & ROBUST HAND TOOL

The 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 2 different tools depending on the wire gauge needed.

These hand tools are dedicated for the Dubox® 2.54mm Crimp-to-Wire product.

The Dubox®, connector families offer an extensive range of through-hole and surface-mount part options, including single or double-row in either straight or right-angle orientation from 2 to 50 positions, with a current rating of 3A (maximum) per individual contact.

The Dubox® contact has a pre-stressed, dual beam design to enable low insertion force, 4-wall contact design for signal protection.

- Dubox® Hand tool P/N:
 - 10164488-001 (AWG 20-22)
 - 10164489-001 (AWG 22-30)
- Contact P/N:
 - 76347-412LF & 76347-312LF (to combine with 10164488-001 hand tool)
 - 76347-401LF & 76347-301LF (to combine with 10164489-001 hand tool)
- Ergonomic handle for an optimal grip



TARGET MARKETS



Amphenol CS 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.

Hand Tool Assembly

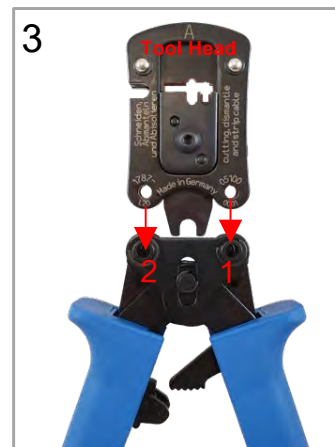
Dubox® 2.54mm Hand Tool P/N: 10164488-001 & 10164489-001



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 CS 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 20-22

Amphenol CS PN: 10164488-001

- Leichte Handhabung
Easy handling
- Linearer Hub
Straight action principle
- Entriegelbare Zwangssperre
Ratchet release
- Kontaktpositionierung mit Klapppositionierer
Contact positioning with flap locator
- Präzise geschliffene Profile
Precisely ground profiles
- Oberfläche brüniert
Burnished surface
- Ergonomisch geformte Soft-Handgriffe Farbe: verkehrsblau (ähnl. RAL 5017)
Ergonomically formed soft-grips
Colour: traffic blue (similar RAL 5017)
- RoHS konform
RoHS compliant

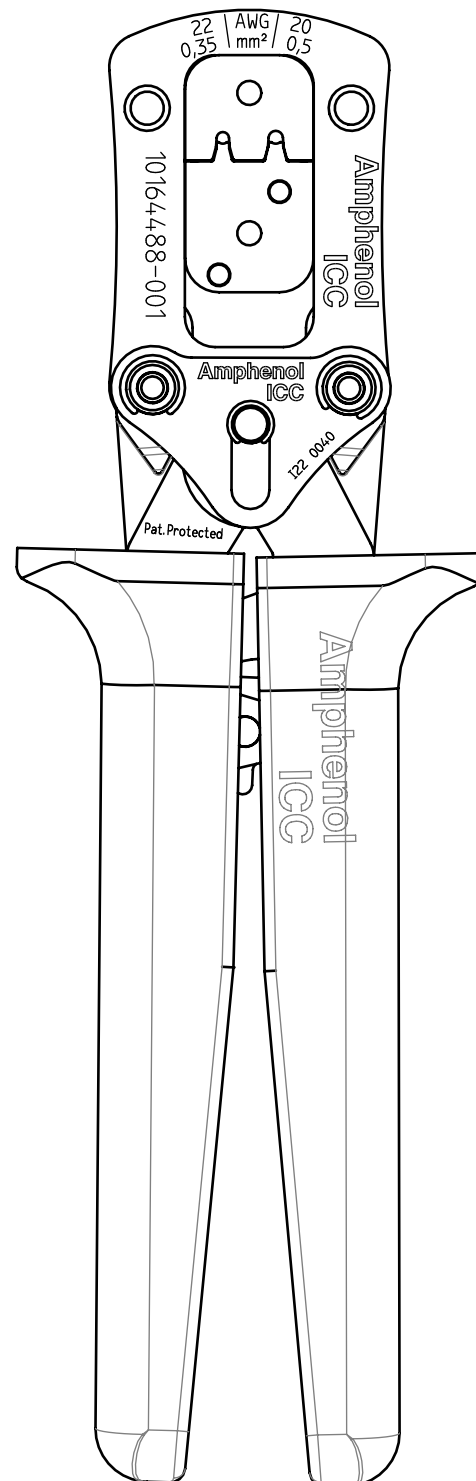
Abmessungen:

Dimensions:

- Länge: ca. 195 mm
Length: approx. 195 mm
- Breite: ca. 65 mm
Width: approx. 65 mm
- Tiefe: ca. 29 mm
Depth: approx. 29 mm
- Gewicht: ca. 300 g
Weight: approx. 300 g

Anwendungsbereich:

Application range:



Leiterquerschnitt Cross section range mm²	Leiterquerschnitt Cross section range AWG	Isolations Ø insulation diameter	Crimphöhe Leiter Crimp height wire ±0,03	Crimpbreite Leiter Crimp width wire ± 0,05	Crimphöhe Isolation Crimp height insulation ± 0,05	Crimpbreite Isolation Crimp width insulation ± 0,05
0,35	22	1,25	0,93	1,50	1,55	1,71
		1,55			1,60	1,71
0,50	20	1,50	0,95	1,50	1,81	1,95
		1,80			1,77	1,93

Professionelles Crimphandwerkzeug Professional crimping hand tool

Verwendungsbereich / Field of application

AWG 22-30

Amphenol CS PN: 10164489-001

- Leichte Handhabung
Easy handling
- Linearer Hub
Straight action principle
- Entriegelbare Zwangssperre
Ratchet release
- Kontaktpositionierung mit Klapppositionierer
Contact positioning with flap locator
- Präzise geschliffene Profile
Precisely ground profiles
- Oberfläche brüniert
Burnished surface
- Ergonomisch geformte Soft-Handgriffe Farbe:
verkehrsblau (ähnl. RAL 5017)
Ergonomically formed soft-grips
Colour: traffic blue (similar RAL 5017)
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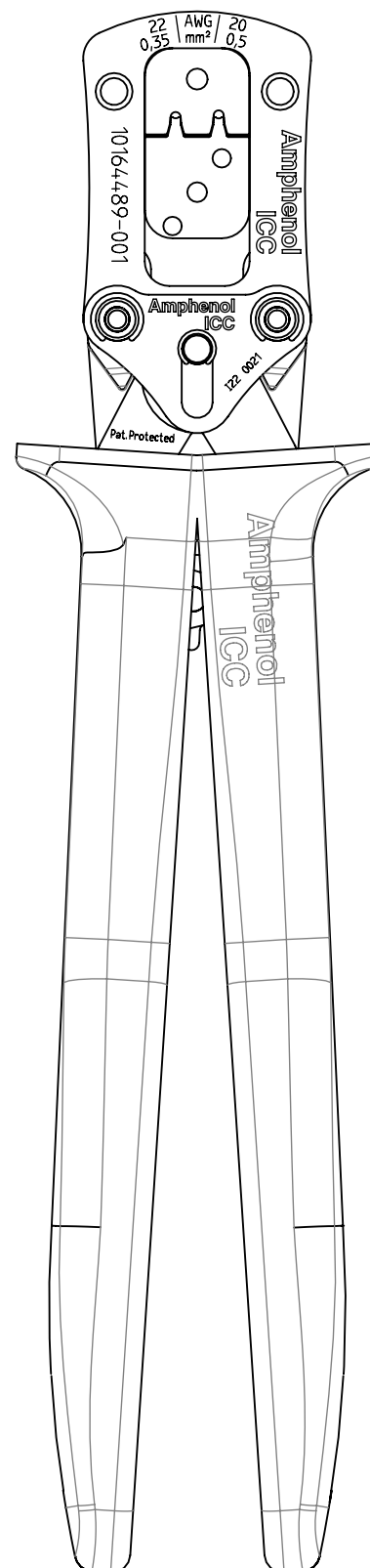
Abmessungen:

Dimensions:

- Länge: ca. 250 mm
Length: approx. 250 mm
- Breite: ca. 65 mm
Width: approx. 65 mm
- Tiefe: ca. 30 mm
Depth: approx. 30 mm
- Gewicht: ca. 440 g
Weight: approx. 440 g

Anwendungsbereich:

Application range:



Leiterquerschnitt Cross section range mm²	Leiterquerschnitt Cross section range AWG	Crimphöhe Leiter Crimp height wire	Prüfleiter: Test wire:
0,05-0,14	26-30	0,63-0,70	AWG 26
0,25-0,35	22-24	0,83-0,89	AWG 22