



Electrical Components

## Manual Crimping Tools

- Insulated Terminals
- Uninsulated Terminals
- Power Terminals
- Open Barrel Terminals
- Ferrules
- RJ Connectors



# Crimping Tools for Solderless Electrical Terminals and Ferrules

Professional crimping tools for solderless terminals must compress the whole length of the terminal’s “barrel” without damaging the individual strands of the conductor and without breaking the terminal itself. The conductor shall be secured that it shall not be pulled out of the crimped terminal. Some terminals require a double crimping operation.

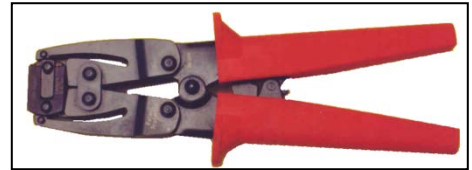
The crimp shape produced by quality tools can vary from a simple indent to a single or double flat mark, or a concentric hexagonal shape.

The tool used must match the type of solderless terminal which must be crimped, both in type and in wire gauge.

With regards to type, different tools are required for each of the following styles of terminals:

- insulated solderless terminals
- miniature solderless terminals (smaller than 22AWG)
- power solderless terminals larger than 8AWG (in most cases, uninsulated)
- closed-end connectors
- “Flag” solderless insulated terminals
- “Open-barrel” uninsulated terminals

All ITC tools are covered by a 12-month parts and labour warranty.



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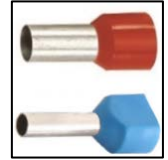
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### Other Crimping Tools available not listed in this catalog:

- Hydraulic crimping tools kits for crimping copper lugs, butt splices and aluminum terminals
- Crimping tools, dies and locators for Turned and Milled contacts
- Crimping tools, dies and locators all crimp connectors, Solar contacts and automotive contacts

## Crimping Tools for FERRULES

ITC provides a variety of ferrule crimping tools, from simple plier-type crimpers to heavy-duty and automatic stripping/crimping machines.



### QUADRO Manual Multifunction Ferrule Tool


QUADRO is a manual tool designed to significantly increase productivity in the termination of control wiring with insulated ferrules. QUADRO (part No. 500.090) performs 4 functions on stranded wires 0.5 to 2.5mm<sup>2</sup> (22-14AWG):

- Cuts the wire
- Strips the insulation
- Twists the strands
- Crimps the ferrule

This tool can cut wires up to 2.5mm<sup>2</sup> (~14AWG) (with most common types of insulation). It then strips them precisely and safely, and prepares the stripped end by twisting the bare strands: this enables easy insertion in the ferrule. For the final operation, no adjustment is necessary: ferrules are supplied in strips within quick-change magazines (refillable): one last pressure on the handles performs a quality crimp, and the tool is ready for another cycle. Operation is effortless, and the tool weighs less than 1/2lb. Quadro is approved by TÜV-GS (Germany) and carries the CE mark.



#### QUADRO Ferrule Tool (Order by Part No.)

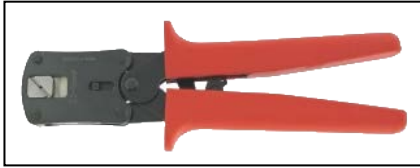
Part No.	Description	Wire Size AWG	Wire Size mm <sup>2</sup>	Weight (g)	Crimp Shape
500.090	Quadro multifunction tool, with case and 3 magazines	22 - 14 AWG	0.50mm <sup>2</sup> - 2.50mm <sup>2</sup>	285	
500.092	Spare magazine	--	--	10	--
170.508	Insulated ferrule 0.50mm <sup>2</sup> , strips of 50 pieces	22 AWG	0.50mm <sup>2</sup>	--	--
177.508	Insulated ferrule 0.75mm <sup>2</sup> , strips of 50 pieces	20 AWG	0.75mm <sup>2</sup>	--	--
171.008	Insulated ferrule 1.00mm <sup>2</sup> , strips of 50 pieces	18 AWG	1.00mm <sup>2</sup>	--	--
171.508	Insulated ferrule 1.50mm <sup>2</sup> , strips of 50 pieces	16 AWG	1.50mm <sup>2</sup>	--	--
172.508	Insulated ferrule 2.50mm <sup>2</sup> , strips of 40 pieces	14 AWG	2.50mm <sup>2</sup>	--	--

*Information subject to change without notice. The cross section shapes of the crimps are for indication purposes only*



## AE series precision ferrule crimping tools

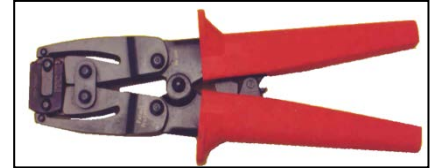
AE series of professional, patented ratchet-action ferrule crimping tools feature parallel-action crimping, meaning that the same pressure is applied along the whole length of the ferrule. Front loading makes access to reduced space easier. Single-die operation means that there is no possibility of choosing the wrong slot for crimping a ferrule - the tool self-adjusts to the proper section, without variation in crimping pressure.



500.023



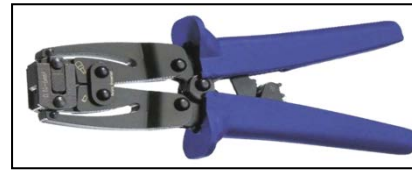
500.030



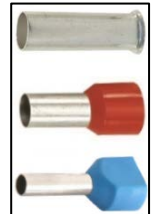
500.031

**Crimp shape:** trapezoidal

**Material:** tempered steel, burnished  
ergonomic grips in polyurethane compound



500.032



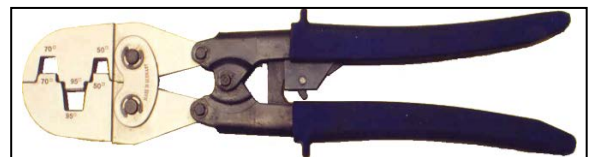
## CK series heavy duty ferrule crimping tools

This family includes two heavy-duty, professional quality ratcheting crimping tools for uninsulated and insulated ferrules in the range from 10 to 95 mm<sup>2</sup> (8 to 3/0 AWG) with different crimp indents. Crimp shape is trapezoidal.

**Material:** hardened/tempered steel. Blue plastic-coated handles









500.033



500.034

### Professional Ratcheting Ferrule Crimping Tools - AE/CK Series (Order by Part No.)

Part No.	Model	Description	Wire Size AWG*	Wire Size mm <sup>2</sup>	Length (mm)	Weight (g)	Crimp Shape
500.023	AE23	Professional square die crimp tool	14-6 AWG	2.5-16mm <sup>2</sup>	195	371	
500.030	AE2	Professional front-load crimp tool	26-10 AWG	0.14-6mm <sup>2</sup>	210	485	
500.031	AE3	Professional front-load crimp tool	14-8 AWG	2.5-10mm <sup>2</sup>	210	485	
500.032	AE4	Professional front-load crimp tool	8-6 AWG	10-16mm <sup>2</sup>	230	590	
500.033	CK 28	Heavy-duty precision ferrule crimper	8-1 AWG	10-50mm <sup>2</sup>	340	760	
500.034	CL 29	Heavy-duty precision ferrule crimper	1-3/0 AWG	50-95mm <sup>2</sup>	345	856	

The cross section shapes of the crimps are for indication purposes only  
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\* refers to single ferrules



## Professional, Ratcheting Ferrule Crimping Tools - PEW 8.8 Series

PEW 8.85 and 8.86 ratchet-action ferrule crimping tools feature square or hexagonal crimping shape, obtained by means of synchronous driven crimp jaws. As a result, the same pressure is applied along the whole length of the ferrule and the shape is ideal for installation in wire clamps (square crimp) or in screw-pressure wire terminals (hexagonal crimp). Side loading on both models, single-die operation (the tool self-adjusts to the proper section, without variation in crimping pressure).

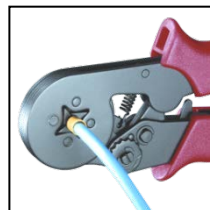
PEW 8.88 (part No. 500.049) is a ratchet-action ferrule crimping tool with front access and square crimp shape. A 2-position lever extends the maximum crimping range (from 28AWG) to a maximum of either 7AWG or 5AWG: the widest crimp range of all our tools!

**Crimp shapes:** see illustrations below

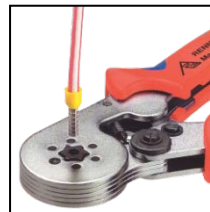
**Material:** tempered steel, burnished  
ergonomic grips in polyurethane compound



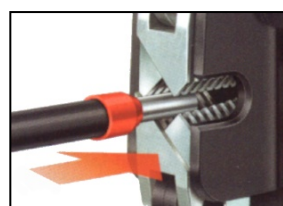
500.035






500.039



500.049



### Professional Ratcheting Ferrule Crimping Tools - PEW Series (Order by Part No.)

Part No.	Model	Description	Wire Size AWG*	Wire Size mm <sup>2</sup>	Length (mm)	Weight (g)	Crimp Shape
500.035	PEW 8.85	Professional square die crimp tool	28-8 AWG	0.08-10mm <sup>2</sup>	180	380	
500.039^	PEW 8.86	Professional hex die crimp tool	28-10 AWG	0.08-6mm <sup>2</sup>	180	380	
500.049	PEW 8.88	Professional front-load square die crimp tool	28-6 AWG	0.08-16mm <sup>2</sup>	190	475	

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*\* refers to single ferrules*



*^ End of stock*

## Vice-mounted, heavy-duty industrial-grade ferrule crimping tools

ITC's unique model CS 70150 Heavy duty Vice-mounted Ferrule crimping tool is an ingenious device (part No. 500.051), which uses the pressure available in a standard bench-mounted vice to crimp large ferrules without using expensive hydraulic tools. It is capable of crimping uninsulated and insulated single ferrules from 70 to 150 mm<sup>2</sup> (2/0 to 250MCM) with different crimp indents. Crimp shape is trapezoidal.

**Material:** hardened steel, polished

### Vice-Mounted, Heavy-duty Industrial-grade Ferrule Crimping Tools (Order by Part No.)

Part No.	Model	Description	Wire Size AWG*	Wire Size mm <sup>2</sup>	Length (mm)	Weight (g)	Crimp Shape
500.051	CS 70150	Vice-mounted ferrule crimper	2/0 AWG - 250 MCM	70-150mm <sup>2</sup>	125x100	2300	
500.054	CS 150240	Vice-mounted ferrule crimper	300 - 500 MCM	150-240mm <sup>2</sup>	125x100	2200	

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## Economy plier-type ferrule crimping tool

Model PE7 (part No. 500.047) Precision Ferrule Plier-type Crimper is a precision non-ratchet tool for limited production, for quality crimping single ferrules - uninsulated and insulated - from 0.25 to 2.5 mm<sup>2</sup> (24 to 14AWG) or twin ferrules 0.14 to 1.5mm<sup>2</sup> (26 to 16AWG) with different crimp indents. Crimp shape is trapezoidal (see picture), ideal for inserting in terminal blocks, contactors, circuit breakers.

**Material:** special tool steel, hardened and polished  
plastic-coated handles



### Plier-type Ferrule Crimping Tool (Order by Part No.)

Part No.	Model	Description	Wire Size AWG*	Wire Size mm <sup>2</sup>	Length (mm)	Weight (g)	Crimp Shape
500.047	PE7	Precision plier-type crimper	24 - 14 AWG	0.25 - 2.5 mm <sup>2</sup>	150	140	

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## Pneumatic Ferrule Crimping Tools

### Hand-held pneumatic crimping tools for ferrules

Two models of hand-held pneumatic crimping tools are offered by ITC:

- Model AC25, for ferrules 0.25 to 2.5 mm<sup>2</sup> (24-14 AWG), single die, ferrule insertion from either front or side of the head
- Model AC100, for ferrules 4.0 to 10 mm<sup>2</sup> (12-8 AWG), ferrule insertion from side of tool only





Features and specifications:

- require compressed air at 4 to 6 bar (90 to 120 psi)
- controlled by a pressure lever on the body of the tool itself
- equipped with a finger guard for safety
- come equipped with a pneumatic hose and a connector
- Tool length: 200 mm (-8")



### Pneumatic Ferrule Crimping Tools (Order by Part No.)

Part No.	Model	Description/model	Wire Size AWG*	Wire Size mm <sup>2</sup>	Weight (g)	Crimp Shape
500.952	AC25	Pneumatic hand-held crimper for ferrules	24-14 AWG	0.25-2.5mm <sup>2</sup>	430	
500.962	AC100	Pneumatic hand-held crimper for ferrules	12-8 AWG	4-10mm <sup>2</sup>	460	

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### Bench-mount pneumatic crimping tools for ferrules

Two models of bench-mount pneumatic crimping tools are offered by ITC:

- Model AC25T, for ferrules 0.25 to 2.5 mm<sup>2</sup> (24-14 AWG), single die, ferrule insertion from either front or side of the head
- Model AC100T, for ferrules 4.0 to 10 mm<sup>2</sup> (12-8 AWG), ferrule insertion from side of tool only





Features and specifications:

- require compressed air at 4 to 6 bar (90 to 120 psi)
- controlled by a foot switch (supplied)
- equipped with a finger guard for safety
- handy ferrule tray on the body of the tool
- equipped with pneumatic hose, foot switch, and bench mount clamp



### Bench-mount Pneumatic Crimping Tools for Ferrules (Order by Part No.)

Part No.	Model	Description/model	Wire Size AWG*	Wire Size mm <sup>2</sup>	Weight (g)	Crimp Shape
500.951	AC25T	Pneumatic bench mount crimper for ferrules	24-14 AWG	0.25-2.5mm <sup>2</sup>	1000	
500.961	AC100T	Pneumatic bench mount crimper for ferrules	12-8 AWG	4-10mm <sup>2</sup>	1000	

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## Crimping Tools for TERMINALS

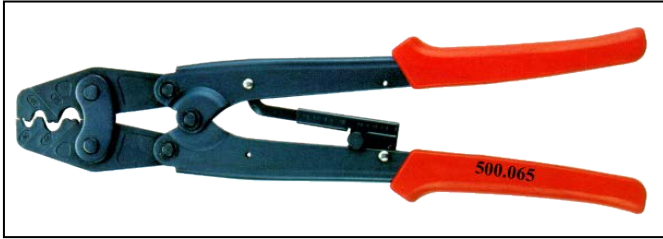
ITC offers a wide variety of terminal crimping tools.



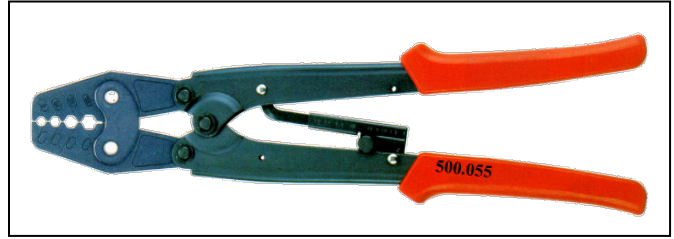
### Manual crimping tools for uninsulated power terminals

Two manual ratchet-action tool, with long handles to minimize operator's effort, for crimping uninsulated terminals from 6-25mm<sup>2</sup> (10-4AWG).

**Material:** steel, hardened die, plastic coated handles



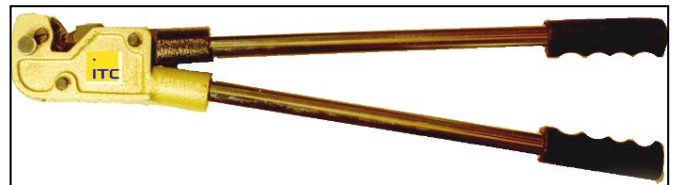
500.065



500.055

ITC's manual, rotating-die crimp tool type CT38 (Part No. 500.038) (non-ratcheting) is very practical and economical, as the female die can be selected by simple rotation among the values: 10mm<sup>2</sup> (8AWG) - 16mm<sup>2</sup> (6AWG) - 25mm<sup>2</sup> (4AWG) - 35mm<sup>2</sup> (2AWG). Long handles minimize operator effort.

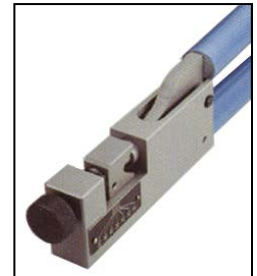
**Material:** steel, with dies in hardened steel, plastic handles



500.038

Finally, the heavy-duty single-die crimp tool type HD120 (part No. 500.620) is a non-ratcheting single-die heavy-duty tool, designed for crimping uninsulated terminals from 16 to 120 mm<sup>2</sup> (approx. 6 to 4/0AWG). It requires no separate or rotating dies: adjustment is made by turning a knurled screw on the tool's head. Among its features:

- appropriate for most types of solderless power terminals. No risk of losing any dies
- single indent crimp
- long handles make operation extremely easy even for the largest wire size
- die made of tempered steel. Handles of high tensile strength aluminum tubing with plastic grip



500.620







**Crimping range for 500.620 (HD-120: AWG values are approximate - tool is rated in mm<sup>2</sup> and not in AWG)**

mm <sup>2</sup>	1 6	25	35	50	70	95	120
AWG	6	4	2	1	00	000	0000

Screw adjustment allows setting to intermediate values

### Uninsulated Power Terminal Manual Crimping Tool (Order by Part No.)

Part No.	Model	Description	Wire Size AWG	Wire Size mm <sup>2</sup>	Length (mm)	Weight (g)	Crimp Shape
500.065	HD-25L	Industry grade crimper	10-4 AWG	6-25mm <sup>2</sup>	354	780	
500.055	HD25X	Industry grade hex imprint crimper	10-4 AWG	6-25mm <sup>2</sup>	354	780	
500.038	CT 38	Rotating die crimp tool for uninsulated power terminals	8-2 AWG	10-35mm <sup>2</sup>	580	2,720	
500.620	HD120	Single die heavy-duty crimp tool for uninsulated power terminals	6-4/0 AWG	16-120mm <sup>2</sup>	645	3,700	

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## Premium crimping tool for insulated terminals (ratcheting)




Covering the most common range of insulated crimp terminals (red 22-16AWG, blue 16-14AWG and yellow 12-10 AWG,) these tools offer ergonomic handles, extreme precision and durability. Lightweight yet powerful, model PEW9.20 (part No. 500.064) is designed to operate within confined spaces.

**Material:** hardened steel, ergonomic plastic-coated handles



### Insulated Terminal Premium Crimping Tool (Order by Part No.)

Part No.	Model	Description	Wire Size AWG	Wire Size mm <sup>2</sup>	Length (mm)	Weight (g)	Crimp Shape
500.064	PEW 9.20	Professional crimp tool for insulated terminals	22-10 AWG	0.5-10mm <sup>2</sup>	215	780	

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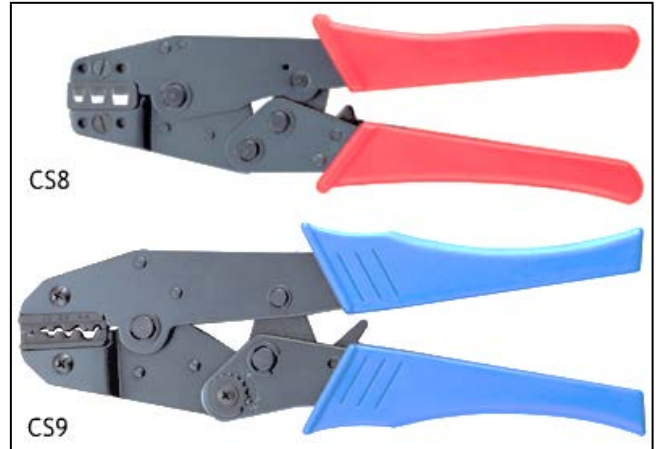
# Crimping Tools for Solderless Electrical Terminals and Ferrules

## CS8 & CS9 Series Manual Crimping Tools for Electrical Terminals

These 2 series of manual ratcheting crimping tools are designed for use with the most common electrical terminals. The CS8 series is compact, economical and weighs approximately 390g. The CS9 series offers a wide range of dies, more leverage and weighs approximately 540g. With both series the frame and dies can be purchased together or separately.




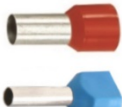










These crimping tools can be used on:

- Ferrules 22-1AWG
- Insulated crimp terminals 26-10AWG
- Uninsulated crimp terminals 22-8AWG
- Uninsulated open-barrel terminals 30-10AWG
- "Flag" disconnect terminals 22-14AWG
- Closed-end crimp connectors 22-10AWG
- Modular plugs RJ45 terminals, 8 position



### CS8 Series

CS8 Crimping Tools (Order by Part No.) Series 8 frames are 8" long

Part No. (Frame & Die)	Description	Part No. Die only	Wire Size AWG	Wire Size mm <sup>2</sup>	Die & Crimp Shape	
504.800 (no die)	8 inch Series CS8 frame	--	--	--	--	
504.811	CS8 crimping tool for ferrules	504.811D	22-10 AWG	0.5-6mm <sup>2</sup>		
504.812	CS8 crimping tool for ferrules	504.812D	10-6 AWG	6-16mm <sup>2</sup>		
504.821	CS8 crimping tool for insulated terminals	504.821D	26-18 AWG	0.14-1mm <sup>2</sup>		
504.822	CS8 crimping tool for insulated terminals	504.822D	22-14 AWG	0.5-2.5 mm <sup>2</sup>		
504.831	CS8 crimping tool for uninsulated terminals	504.831D	19-14 AWG	0.5-2.5 mm <sup>2</sup>		
504.841	CS8 crimping tool for open barrel terminals	504.841D	30-18 AWG	0.05-1mm <sup>2</sup>		
504.842	CS8 crimping tool for open barrel terminals	504.842D	24-14 AWG	0.25-2.5mm <sup>2</sup>		

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## CS9 Series

CS9 Series Crimping Tools (Order by Part No.) Series 9 frames are 9" long

Part No. (Frame & Die)	Description	Part No. Die only	Wire Size AWG	Wire Size mm <sup>2</sup>	Die & Crimp Shape	
504.900 (no die)	9 inch Series CS9 frame	--	--	--	--	--
504.911	CS9 crimping tool for ferrules	504.911D	20-8 AWG	0.5-10mm <sup>2</sup>		
504.912	CS9 crimping tool for ferrules	504.912D	10-6 AWG	6-16mm <sup>2</sup>		
504.913	CS9 crimping tool for ferrules	504.913D	4-1 AWG	25-50mm <sup>2</sup>		
504.914	CS9 crimping tool for ferrules	504.914D	6-2 AWG	16-35mm <sup>2</sup>		
504.921	CS9 crimping tool for insulated terminals	504.921D	20-10 AWG	0.5-6mm <sup>2</sup>		
504.923	CS9 crimping tool for insulated flag terminals	504.923D	20-14 AWG	1.5-2.5 mm <sup>2</sup>		
504.924	CS9 crimping tool for uninsulated flag terminals	504.924D	20-14 AWG	0.5-2.5mm <sup>2</sup>		
504.925	CS9 crimping tool for closed end connectors	504.8925D	20-10 AWG	0.5-6mm <sup>2</sup>		
504.931	CS9 crimping tool for uninsulated terminals	504.931D	18-10 AWG	1-6mm <sup>2</sup>		
504.932	CS9 crimping tool for uninsulated terminals	504.932D	20-8 AWG	0.5-10mm <sup>2</sup>		
504.941	CS9 crimping tool, open barrel terminals	504.941D	27-14 AWG	0.1-2.5 mm <sup>2</sup>		
504.942	CS9 crimping tool for open barrel terminals	504.942D	20-10 AWG	0.5-6mm <sup>2</sup>		
504.952	CS9 RJ45 8 Position key modular plug: cut + strip	504.952D	--	--		

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## CS10 Crimping Tools & Kit

CS10 is a professional kit for electricians, designed to crimp the most common types of electrical terminals.









This kit includes one professional ratchet-type crimping tool, and four different interchangeable die sets, each for one of these terminals:

- Insulated crimp terminals 22-10AWG
- Insulated disconnect terminals 22-10AWG
- Insulated and uninsulated ferrules 22-12AWG
- Closed end connectors 22-10AWG

The components above are delivered in a plastic case with a transparent window on the cover, dimensions: 290x210x50mm.













### CS10 Tool kit and replacement dies (Order by Part No.)

Part No.	Description	Wire Size AWG	Wire Size mm <sup>2</sup>	Die & Crimp Shape	
500.068	Complete CS-10 tool kit in plastic case, including 4 die sets (ferrules, insul term., insul. disconnect, closed end)	--	--	--	---
504.100	CS10 frame (no dies)	--	--	--	---
504.111D	Spare die set for ferrules	22-12 AWG	0.5-4mm <sup>2</sup>		
504.121D	Spare die set for insulated single crimp terminals	22-10 AWG	0.5-6mm <sup>2</sup>		
504.126D	Spare die set for insulated single crimp disconnect terminals	22-10 AWG	0.5-4mm <sup>2</sup>		
504.125D	Spare die for closed end terminals	22-10 AWG	0.5-6mm <sup>2</sup>		

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Other dies are available for the use with the CS10 frame, increasing the versatility of the CS10 series.

### CS10 additional dies available (Order by Part No.)

Part No.	Description	Wire Size AWG	Wire Size mm <sup>2</sup>	Die & Crimp Shape	
504.112D	Extra die set for ferrules	10-6 AWG	6-16mm <sup>2</sup>		
504.113D	Extra die set for ferrules	4-2 AWG	25-35mm <sup>2</sup>		
504.114D	Extra die set for ferrules	4-1 AWG	25-50mm <sup>2</sup>		
504.123D	Extra die set for insulated flag terminals	22-14 AWG	0.5-2.5mm <sup>2</sup>		
504.131D	Extra die set for uninsulated terminals	22-10 AWG	0.5-6mm <sup>2</sup>		
505.141D	Extra die set for uninsulated open barrel terminals	22-10 AWG	0.5-6mm <sup>2</sup>		

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