



## GENERAL CATALOG EAST-CENTRAL EUROPEAN AREA



CONTENT

COMPANY OVERVIEW

6

MECHANIC CABLE CRIMPING TOOLS

8



MECHANIC CRIMPING TOOLS

8

HYDRAULIC CABLE CRIMPING TOOLS

17



HAND HYDRAULIC CRIMPING TOOLS

18

BATTERY-HYDRAULIC CRIMPING TOOLS

20

HYDRAULIC CRIMPING HEADS

24

MECHANIC CABLE CUTTING TOOLS

26



SCISSORS

26

KNIVES AND SAWS

28

CUTTING PLIERS

30

RATCHET CUTTERS

31

HYDRAULIC CABLE CUTTING TOOLS

33



HAND HYDRAULIC CUTTING TOOLS

34

BATTERY-HYDRAULIC CUTTING TOOLS

36

HYDRAULIC CUTTING HEADS

40

PUNCHING TOOLS

42



HAND HYDRAULIC PUNCHING TOOL

43

BATTERY-HYDRAULIC PUNCHING TOOL

43

HYDRAULIC PUNCHING HEAD

43

BUS BAR RAIL PROCESSING

44



CUTTING-PUNCHING-BENDING UNIT

44

BUS BAR PUNCHING HEAD

46

## HYDRAULIC PUMPS

47



BATTERY OPERATED HYDRAULIC PUMPS	48
FOOT OPERATED HYDRAULIC PUMPS	49

## CABLE STRIPPING TOOLS

51



FOR REMOVING CABLE JACKETS	52
FOR SEMICONDUCTIVE LAYERS	56
FOR INNER PRIMER INSULATION	58
FOR ARMOUR WIRES	59
MULTI TOOL SETS	60

## GENERAL HAND TOOLS

62



PLIERS	62
SCREWDRIVERS	65
ADDITIONAL TOOLS	69

## PERSONAL PROTECTION

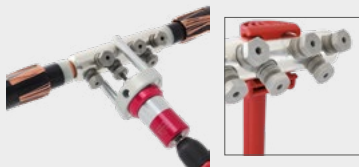
72



GLOVES	72
HELMETS	73
SAFETY CABLE SLEEVES	74

## TOOLS FOR SCREW CABLE CONNECTORS

75



TOOLS FOR SCREW CONNECTORS	75
----------------------------	----

## TUBULAR CABLE LUGS, CONNECTORS AND THEIR CRIMPING DIES

77



I-SERIES / CI... M...,CTF...	78
DIN-SERIES CU / ICD...	80
DIN-SERIES AL, AL-CU / ICAL..., ICALCU...	82
NICKEL AND STEEL / ICNI..., ICVA...	84

CONTENT

INSULATED CRIMPING TERMINALS / ICIQ...

86



CABLE END-SLEEVES / ICIAE..., ICAE...

94



INSULATED END-SLEEVES / ICIAE...	94
UNINSULATED END-SLEEVES / ICAE...	96
END-SLEEVES REELS, STRIPS, KITS	98

UNINSULATED CRIMPING TERMINALS / ICQ..., ICC...

102



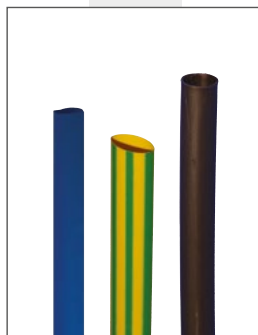
UNINSULATED SMALL TERMINALS / ICQ...	102
UNINSULATED SMALL PUSH-ON TERMINALS / ICC...	106

CABLE TIES / CTB..., CTN..., CTS..., ICC61 ...

110



Cable Glands



Shrinking Tubes



Terminal Blocks



#welovetools





## COMPANY

Intercable Tools is one of the most significant producers of special tools as well as electrical connection material for various sectors. Founded in 1972 as a trade company, the family business continued to develop and began producing insulated tools in 1986. Beside the Bruneck center - in the German-speaking area of South Tyrol, in the embrace of the Dolomites (Northern Italy), - the production plants are located in other Italian cities and also in Germany. Additionally, there are Intercable Tools companies in Austria, in the Netherlands and in Hungary too, from where we can serve products and provide support to the related closer regional areas.

The special articles of Intercable Tools are mainly used for processing and connecting low, medium and high voltage cables::

- Hand tools
- Stripping tools
- Cutting tools
- Crimping tools
- Punching tools
- Hydraulic pumps

Additionally, Intercable Tools has an extensive range of copper and aluminium connection materials such as tubular cable lugs and other connectors.

We pone great importance to a high level of vertical integration and produce our products in our own facilities in Italy and Germany. Thus, we have full control over every single step and can guarantee the highest quality and reliability.

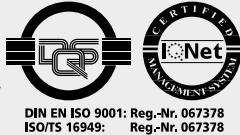
Quality at Intercable is more than a promise, it is a principle that we live by every day. Here, we work according to the "zero-error principle" – with this strategic orientation, we avoid generating rejects or having to rework bad parts. This is the only way we can meet our own requirements and those of our customers. It is a continuous process and requires the full commitment of our highly qualified staff.

We want to be an attractive and competitive family company, which focuses on innovation and customer satisfaction. It is our mission to remain independent, sustainable and humble and we want to keep orienting and aligning ourselves with our employees, suppliers and customers. We are committed to making our customers' work safer, easier and more professional.

The safety aspect is the main priority in our industry. State-of-the-art in-house production facilities ensure that the products that leave our plants, are compliant with the applicable safety standards and guidelines, thus guaranteeing safety for the user.



## QUALITY

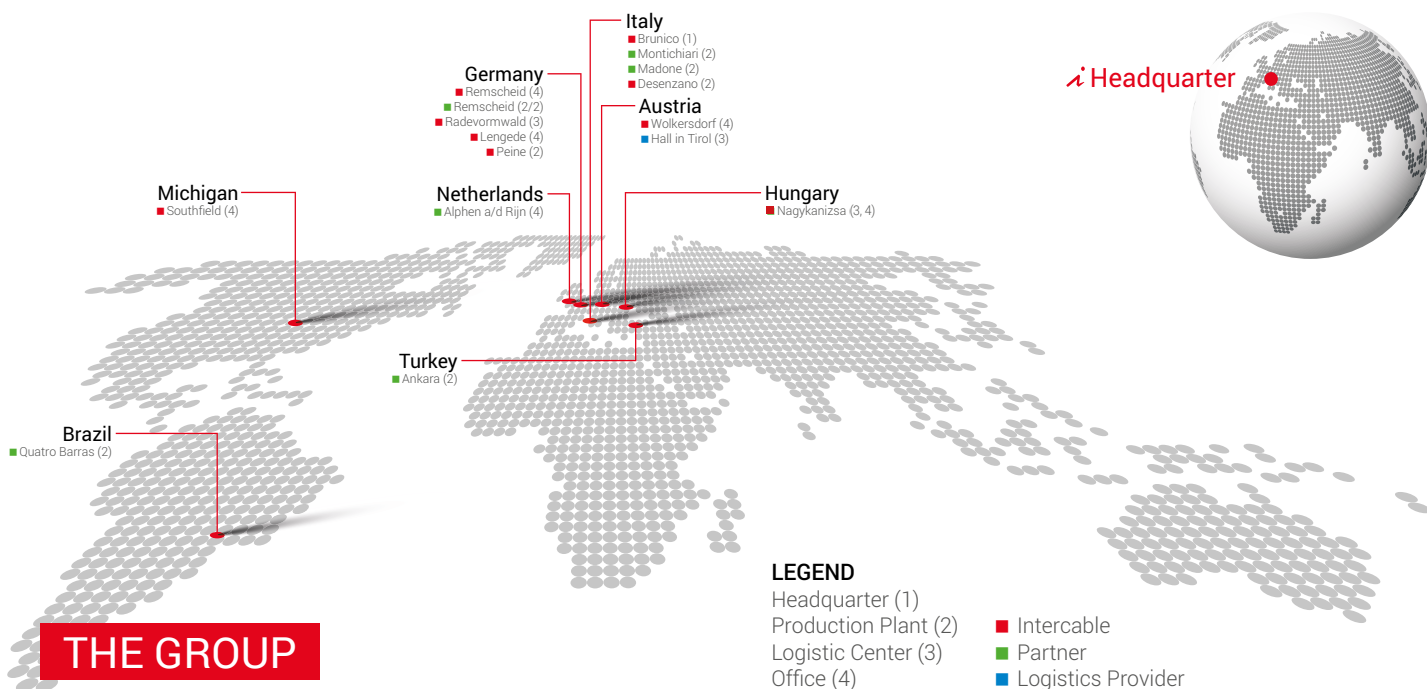


INTERCABLE STANDS FOR HIGHEST QUALITY

### TECHNOLOGY IS OUR PASSION

Our products are popular worldwide. We receive a lot of positive feedback from electrical service companies, companies that produce electrical switch cabinets, other industrial users and, last but not least, electricians. We take your comments into account when developing our products. For us, these are the most important confirmations.

Along with these, various certificates certify the quality of our work.



Intercable Tools, together with Intercable Tec, developer and producer of technical parts and solutions for the automotive industry (e-mobility), form the Intercable Group. As a modern company group, we strive for an optimal usage of synergies within the group. Intercable is represented globally with many different subsidiaries.



Different certificates confirm the quality of our work. We hold the following quality certificates:

- ISO 9001 (Quality management system)
  - ISO 14001 (Environmental management system)
  - ISO 45001 (Occupational health and safety management system)
- as well as the VDE / IMQ / DGUV-Test / UL / CE / GS – certification.

Additionally, we are proud members of the CEI (Italian Committee for Electrical Engineering), the UNI (Italian Committee for Standardization) and various working groups of the European and International Standards Committee.

Our electrically insulated tools are isolated according to EN60900, which was prescribed by the European Committee for Standardization in 1993

and is mandatory in all countries of the European Union since 1999. The norm prescribes a series of technical tests that must be performed on all insulated tools. Every single insulated tool that leaves our production facilities is tested for 1000V and 100% suitable for live working.

Insulated hand tools are made fully or partially of conductive material and are covered with insulating material. This protects the user from a possible electric shock.

Insulating hand tools are made entirely or essentially of insulating material, except for inserts made of conductive material (for the purpose of reinforcement), but without exposed conductive parts. This protects the user from a possible electric shock and prevents a short circuit between two parts with different electrical potential.

## NEW-GENERATION MECHANICAL CRIMPING TOOLS



Releasable ratchet ensures the complete crimp process




















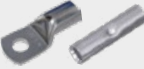




Low handle force thanks to an optimal force transmission

Lightweight

Ergonomic

Ergonomic soft-handles with slip-off protection













CRIMPING TOOLS / ORDER NO.	APPLICATION	CROSS SECTION	CRIMP FORM	INFO, LENGTH, WEIGHT
 MPIQ6	 insulated terminals	0,5 - 6 mm <sup>2</sup>		220 mm, 0,48 kg
 MPIQ16	 insulated terminals	6 - 16 mm <sup>2</sup>		285 mm, 0,71 kg
 PMGI6	 heat shrinkable and closed end connectors	0,5 - 6 mm <sup>2</sup>		220 mm, 0,48 kg
 MPFV	 non-insulated open barrel terminals	0,25 - 6 mm <sup>2</sup>		220 mm, 0,48 kg
 PMC16	 non-insulated connectors	10 - 16 mm <sup>2</sup>		285 mm, 0,70 kg
 PMCL16	 non-insulated connectors DIN 46234	0,5 - 16 mm <sup>2</sup>		280 mm, 0,70 kg
 PMC25	 non-insulated connectors	10 - 25 mm <sup>2</sup>		270 mm, 0,70 kg
 MPMC6	 MC4 photovoltaic / solar connectors	2,5 - 6 mm <sup>2</sup>		220 mm, 0,55 kg additional positioner for MC4 Evo2 connectors: PMC4EVO2

MECHANIC CRIMPING TOOLS

Crimping pliers with advanced ratchet mechanism for cable end-sleeves



CRIMPING TOOLS / ORDER NO.	CROSS SECTION	CRIMP FORM	INFO, LENGTH, WEIGHT
 MPAE16K	0,5 - 16 mm <sup>2</sup>		(not ratcheting) 190 mm, 0,25 kg
 MPAE16T	0,14 - 16 mm <sup>2</sup>		230 mm, 0,49 kg
 MPAE10V	0,08 - 10 mm <sup>2</sup>		195 mm, 0,32 kg
 MPAE16VV	0,08 - 16 mm <sup>2</sup>		<ul style="list-style-type: none"> <li>• 360° freely rotatable head with 8 locking positions (with 45° steps)</li> <li>• Automatic adjustment to the cross section without setting</li> </ul> 193 mm, 0,47 kg
 MPAE16S	0,08 - 16 mm <sup>2</sup>		<ul style="list-style-type: none"> <li>• Automatic adjustment to the cross section without setting</li> <li>• Movable locator for a precise location of small cross sections</li> </ul> 215 mm, 0,45 kg

2 types of fine wire cables  
1 good solution

*i*crimping



fine-wires / cable class 5



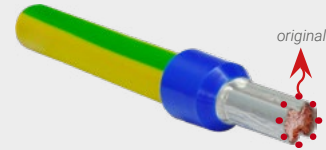
superfine-wires / cable class 6



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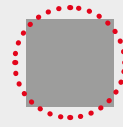


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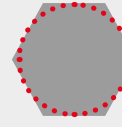
*i*-crimping



trapezoid











square



hexagonal



intelligent

CRIMPING TOOLS / ORDER NO.	CROSS SECTION	CRIMP FORM	INFO, LENGTH, WEIGHT
 MPAE2R / MPAE6R / MPAE16R	0,14 - 2,5 mm <sup>2</sup> / 1,5 - 6 mm <sup>2</sup> / 10 - 16 mm <sup>2</sup>		195 mm, 0,32 kg
 MPAE25R	10 - 25 mm <sup>2</sup>		195 mm, 0,65 kg
 MPAE50R	10 - 50 mm <sup>2</sup>		300 mm, 0,61 kg
 MPAE95R	50 - 95 mm <sup>2</sup>		300 mm, 0,61 kg

**MECHANIC CRIMPING TOOLS**



**Set mechanical crimping tool with interchangeable dies**

Description	Order No.	Dimensions	Weight
Set: Mechanic crimping tool	PM-TRE	220 mm	0,74 kg

**Including this set**

 UEIQ6	 insulated terminals	 0,5 - 6 mm <sup>2</sup>
 UEQ10	 non-insulated braided	 0,5 - 10 mm <sup>2</sup>
 UEAE10T	 end-sleeves	 0,14 - 10 mm <sup>2</sup>



**Set mechanical crimping tool with interchangeable dies**

Description	Order No.	Dimensions	Weight
Set: Mechanic crimping tool	MPUSET-2	440 x 230 x 80 mm	0,9 kg

**Including this set**

 UEIQ6	 insulated terminals	 0,5 - 6 mm <sup>2</sup>
 UEAE2R	 end-sleeves	 0,14 - 2,5 mm <sup>2</sup>
 UEAE16R	 end-sleeves	 4 - 16 mm <sup>2</sup>

• Rigid case

**Set for photovoltaic installations**

Description	Order No.	Dimensions	Weight
Photovoltaic set	ICPVSET2	380 x 345 x 90 mm	1,6 kg

- Easy handling
- Unlockable positive lock, ensures complete crimping
- Precisely manufactured profiles made of high-strength special steel
- Contact positioning with positioning aid
- With bolt for fall protection
- Ergonomically shaped soft handles

**Including this set:**

- Crimping tool for MC4 connectors 2,5 - 6 mm<sup>2</sup> with positioner ..... MPMC6
- Stripping tool with cutting function 1,5 - 10 mm<sup>2</sup>.....AV8270
- Cable scissors up to 50 mm<sup>2</sup> fine stranded cables ..... 16020-F1-PV
- Installation spanners (2 pcs) for closing cable glands
- Rigid case



MPMC6

AV8270

16020-F1-PV

spanners

Basic tools - Mechanical crimping tools for compatible interchangeable crimping dies

Description	Length	Weight	Order No.
Mechanic crimping plier - basic tool	220 mm	0,51 kg	MPU



Available:  
Tool case (0,25 kg)  
MPU-KK

Description	Length	Weight	Order No.
Mechanic crimping plier - basic tool	270 mm	0,57 kg	MPU-L



Available:  
Tool case (0,75 kg)  
MPU-L-KK

Crimping dies compatible to MPU, MPU-L and PM crimping tools

ARTICLE	APPLICATION	CRIMP FORM	ARTICLE	APPLICATION	CRIMP FORM	ARTICLE	APPLICATION	CRIMP FORM
UEIQ2	insulated terminals	0,1 - 2,5 mm <sup>2</sup>	UEAE2R	end-sleeves	0,14 - 2,5 mm <sup>2</sup>	UEQ10	non-insulated brazed seam terminals	0,5 - 10 mm <sup>2</sup>
UEIQ6	insulated terminals	0,5 - 6 mm <sup>2</sup>	UEAE16R	end-sleeves	4 - 16 mm <sup>2</sup>	UER2	tubular cable lugs and connectors	0,5 - 2,5mm <sup>2</sup>
UEIQ2WF	insulated 90° flag terminals	0,5 - 2,5 mm <sup>2</sup>	UEAE35R	end-sleeves	25 - 35 mm <sup>2</sup>	UER10	tubular cable lugs R-series	4 - 10 mm <sup>2</sup>
UEIQ6WS	shrinkable insulated connectors	0,14 - 6 mm <sup>2</sup>	UEAE50R	end-sleeves	50 mm <sup>2</sup>	UER16	tubular cable lugs R-series	10 - 16 mm <sup>2</sup>
UEFV28	non-insulated open barrel terminals	2,8 mm x 0,1 - 1 mm <sup>2</sup>	UEAE2x16R	end-sleeves	2x4 - 2x16 mm <sup>22</sup>	UEMC41	MC4 photovoltaic / solar connectors	1,5 - 4 mm <sup>2</sup>
UEFV48	non-insulated open barrel terminals	4,8 mm x 0,5 - 2,5 mm <sup>2</sup>	UEFVS63	open barrel 90° flag terminals	6,3mm x 10 - 16 mm <sup>2</sup>	UEMC4	MC4 photovoltaic / solar connectors	2,5 - 6 mm <sup>2</sup>
UEFV63	non-insulated open barrel terminals	6,3mm x 0,5 - 6 mm <sup>2</sup>	UEBNC	Koax connectors for BNC cables	RG 58 / 59 / 62 / 71	UEMC3	MC3 photovoltaic / solar connectors	2,5 - 6 mm <sup>2</sup>

**MECHANIC CRIMPING TOOLS**

Mechanical crimping tool for non-insulated tubular cable lugs and connectors, R series



Cable cross-section	Compatible cable lugs	Order No.	Length	Weight
10 - 25 mm <sup>2</sup>	R-series	MPR25i	270 mm	0,70 kg

Mechanical crimping tool for non-insulated tubular cable lugs and connectors with revolver crimping dies










MPR-2

MPR-1




MPR120i  
MPD120S

MPMR50i  
MPD50S  
MPF70i

Cable cross-section	Compatible cable lugs	Order No.	Crimp form	Length	Weight
6 - 50 mm <sup>2</sup>	I-series	MPR-1		380 mm	1,5 kg
25 - 150 mm <sup>2</sup>	I-series	MPR-2		550 mm	3,7 kg
6 - 50 mm <sup>2</sup>	R-series	MPR50i		380 mm	1,5 kg
10 - 120 mm <sup>2</sup>	R-series	MPR120i		550 mm	3,7 kg
10 - 70 mm <sup>2</sup>	F-series	MPF70i		515 mm	2,1 kg
6 - 50 mm <sup>2</sup>	DIN-series	MPD50S		380 mm	1,5 kg
10 - 120 mm <sup>2</sup>	DIN-series	MPD120S		550 mm	3,7 kg

Mechanical crimping tool for non-insulated tubular cable lugs and connectors standard type 10 - 120 mm<sup>2</sup>



Cable cross-section	Crimp form	Order No.	Length	Weight
10 - 120 mm <sup>2</sup>		MPR-3	535 mm	3,1 kg

Mechanical crimping tools with press heads for different crimping dies series with telescopic handles

SET ARTICLE ORDER NO.	MP60-1	MP60-3	MP60-2
CRIMPING SECTION	max 240 mm <sup>2</sup>	max 240 mm <sup>2</sup>	max 300 mm <sup>2</sup>
MAXIMUM STROKE	20 mm	20 mm	19 mm
CRIMPING FORCE	60 kN	60 kN	60 kN
COMPATIBLE CRIMPING DIES	series 50, 60-1, 60-3	series 50, 60-1, 60-3	series 60-2, 60-4
TOOL WEIGHT	2,9 kg	3,6 kg	3,6 kg
SET WEIGHT	4,6 kg	5,3 kg	5,3 kg



**Including the set:**

- Mechanical crimping tool
- Nylon case and holder for crimping dies









HYDRAULIC CRIMPING TOOLS - OVERVIEW

	CRIMPING HEADS*	HAND OPERATED	BATTERY OPERATED		CRIMPING SECTION MAX.	CRIMPING FORCE	
SERIES 45		 HP45	 STILO45		150 mm <sup>2</sup>	45 kN	
SERIES 50		 HP50	 STILO50		240 mm <sup>2</sup>	50 kN	
SERIES 60-1/3	 PP60-1	 HP60-3		 AP60-1	240 mm <sup>2</sup>	60 kN	
SERIES VD		 HP60-VD	 STILO	 AP60-VD	300 mm <sup>2</sup>	60 kN	
SERIES 60-2/4	 PP60-2	 HP60-4	 STILO60	 AP60-2	300 mm <sup>2</sup>	60 kN	
SERIES 130-C	 PP130-C	 HPI130-C	← head opening: 29 mm →		 AP130-C	400 mm <sup>2</sup>	130 kN
SERIES 130-C2	 PP130-C2	 HPI130-C2	← head opening: 42 mm →		 AP130-C2	400 mm <sup>2</sup>	130 kN
SERIES 130-H	 PP130-H	 HPI130-H		 AP130-H	400 mm <sup>2</sup>	130 kN	
SERIES 230	 PP230-630  PP230				630 mm <sup>2</sup>	230 kN	
SERIES 520	 PP520				1.000 mm <sup>2</sup>	520 kN	
SERIES 600	 PP600				1.600 mm <sup>2</sup>	600 kN	

\* Tool heads operated by hydraulic pumps, see page 47

\* Bigger crimping tools on request



**HAND HYDRAULIC CRIMPING TOOLS**

**Versatile**

Rotatable head

**Portable / Resistant**

Tough pump body for most kind of crimping applications

**Handy**

Grip handle for one handed precise positioning



**Fast**

Innovative quick feed with double hydraulic cylinder

**Secure**

Safety die-locking buttons

**Reliable**

Precise and stable pressure release valve

**Convenient**

One hand release operation

**Hand hydraulic crimping tools - SET equipment:**


- Report of the tests made on the tool after the production
- Manual hydraulic crimping tool
- Rigid plastic case for the tools and for crimping dies



**Hand hydraulic crimping tool 400 mm<sup>2</sup>**

Order No.	Description	Tool weight
HPI130-C	Hand hydraulic crimping tool - set	6,6 kg
HPI130-C2	Hand hydraulic crimping tool - set	6,5 kg


CRIMPING SECTION	max. 400 mm <sup>2</sup>	CRIMPING FORCE	130 kN
JAW OPENING	C: 29 mm, C2: 42 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 130	see page 81	see page 83	see page 79

**Hand hydraulic crimping tool 400 mm<sup>2</sup>**

Order No.	Description	Tool weight
HPI130-H	Hand hydraulic crimping tool - set	7,6 kg

CRIMPING SECTION	max. 400 mm <sup>2</sup>	CRIMPING FORCE	130 kN
MAXIMUM STROKE	30 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 130	see page 81	see page 83	see page 79



HAND HYDRAULIC CRIMPING TOOLS


Hand hydraulic crimping tool 240 mm<sup>2</sup>



HP50

Order No.	Description	Tool weight
HP50	Hand hydraulic crimping tool - set	2,7 kg

CRIMPING SECTION	max. 240 mm <sup>2</sup>	CRIMPING FORCE	50 kN
MAXIMUM STROKE	16 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 50	see page 81	see page 83	see page 79


Hand hydraulic crimping tool 240 mm<sup>2</sup>



HP60-3

Order No.	Description	Tool weight
HP60-3	Hand hydraulic crimping tool - set	2,7 kg

CRIMPING SECTION	max. 240 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 50	see page 81	see page 83	see page 79


Hand hydraulic crimping tool 300 mm<sup>2</sup>



HP60-4

Order No.	Description	Tool weight
HP60-4	Hand hydraulic crimping tool - set	2,8 kg

CRIMPING SECTION	max. 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 60-2	see page 81	see page 83	see page 79

Dieless hand hydraulic crimping tool 300 mm<sup>2</sup>



HP60-VD

Order No.	Description	Tool weight
HP60-VD	Hand hydraulic crimping tool - set	4,6 kg

CRIMPING SECTION	16 - 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
		OPERATING PRESSURE	700 bar (70 MPa)

Removable die housing for easy maintenance



# STILO60



## Manageable

Rotating crimping head for optimal crimping in any position

## Automatic return

At the end of the crimping cycle

## Ergonomic

Effortless working and easy handling thanks to equilibrate 2-component handle

## Resistant

Light and compact design, Housing in impact resistant plastic

## Powerful

18V 2,0 Ah Lithium-Ion battery for even more pressings during one battery life

## Quiet

Extra silent motor

## Intelligent

indicates information about the tool and the battery status.

Readout of the data of the crimping cycles via USB interface, integrated service management



Video Stilo60

### Stilo hydraulic crimping tools - SET equipment:

- Report of the tests made on the concrete tool after the production
- Battery-operated hydraulic crimping tool
- Battery 18 V/2,0 Ah Li-Ion (RA20)
- Battery charger (LG8)
- USB-cable
- Software (CD)
- Rigid plastic case for the tool and for the crimping dies





BATTERY OPERATED HYDRAULIC CRIMPING TOOLS - STILO




STILO50

Battery operated hydraulic crimping tool 240 mm<sup>2</sup>

Order No.	Description	Tool weight
STILO50	Stilo hydraulic crimping tool - set	2,3 kg

CRIMPING SECTION	max. 240 mm <sup>2</sup>	CRIMPING FORCE	50 kN
MAXIMUM STROKE	16 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 50	see page 81	see page 83	see page 79




STILO60

Battery operated hydraulic crimping tool 300 mm<sup>2</sup>

Order No.	Description	Tool weight
STILO60	Stilo hydraulic crimping tool - set	3,3 kg

CRIMPING SECTION	max. 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 60-2	see page 81	see page 83	see page 79




STILO

Battery operated hydraulic crimping tool 300 mm<sup>2</sup> with built-in universal crimping head

Order No.	Description	Tool weight
STILO	Stilo hydraulic crimping tool - set	2,5 kg

CRIMPING SECTION	max. 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
HEAD OPENING	40 mm	OPERATING PRESSURE	700 bar (70 MPa)

Built-in universal crimping	for Cu IC standard tubular connectors	for brazed sheet terminals (ICQ)
	up to 300 mm <sup>2</sup>	up to 240 mm <sup>2</sup>



**Comfortable**

Attachment for shoulder strap

**Service friendly**

easily changable due to a modular design

**Reliability**

Durable exterior and interior



**Head rotation**

360° tool head turning

**Release**

Pressure release button with single handed operation on both sides

**Lighting**

Integrated LED for illuminating the working area in poor light conditions

**2-speed system**

Easier work, thanks to the variable approaching speed for the precise positioning of the crimping tool

**Powerful**

18V 5Ah Lithium-Ion battery with status indicator for even more pressings during one battery life

**Ergonomic**

Effortless working and easy handling due to equilibrated 2-component handle



**Pistol grip hydraulic crimping tools - SET equipment:**

- Report of the tests made on the tool after the production
- Battery 18 V/5,0 Ah Li-Ion (RA50)
- Shoulder strap (TG2)
- Battery-operated hydraulic crimping tool
- Battery charger (LG8)
- Rigid plastic case for the tool and for the crimping dies




AP60-1



AP60-2


**Pistol grip crimping tool 240 mm<sup>2</sup>**

Order No.	Description	Tool weight	
AP60-1	Pistol grip hydraulic crimping tool - set	4,3 kg	
CRIMPING SECTION	max. 240 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 60-1	see page 81	see page 83	see page 79

**Pistol grip crimping tool 300 mm<sup>2</sup>**

Order No.	Description	Tool weight	
AP60-2	Pistol grip hydraulic crimping tool - set	4,4 kg	
CRIMPING SECTION	max. 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 60-2	see page 81	see page 83	see page 79




**BATTERY OPERATED HYDRAULIC CRIMPING TOOLS - HEAVY DUTY**



**Pistol grip crimping tool 400 mm<sup>2</sup>**

Order No.	Description	Tool weight
AP130-C	Pistol grip hydraulic crimping tool - set	6,7 kg
AP130-C2	Pistol grip hydraulic crimping tool - set	7,4 kg

CRIMPING SECTION	max. 400 mm <sup>2</sup>	CRIMPING FORCE	130 kN
JAW OPENING	C: 29 mm, C2: 42 mm	OPERATING PRESSURE	700 bar (70 MPa)


Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 130	see page 81	see page 83	see page 79



**Pistol grip crimping tool 400 mm<sup>2</sup>**

Order No.	Description	Tool weight
AP130-H	Pistol grip hydraulic crimping tool - set	6,2 kg

CRIMPING SECTION	max. 400 mm <sup>2</sup>	CRIMPING FORCE	130 kN
MAXIMUM STROKE	30 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
 series 130	see page 81	see page 83	see page 79



**Dieless pistol grip crimping tool 300 mm<sup>2</sup>**

Order No.	Description	Tool weight
AP60-VD	Pistol grip hydraulic crimping tool - set	6,2 kg

CRIMPING SECTION	16 - 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
		OPERATING PRESSURE	700 bar (70 MPa)

Removable die housing for easy maintenance



**HYDRAULIC CRIMPING HEADS**



**Secure**

Safety die-locking button

**Clean**

Built-in dust filter

**Uncomplicated**

Quick coupling with unloseable dust cap

Tilting coupling on bigger heads

**Powerful**

Advanced cylinder for better force transmission



**Hydraulic crimping heads - SET equipment:**

- Hydraulic crimping head
- Rigid plastic / metal case for the tool and with places for crimping dies



PP130-C



TPI130



PP130-C2

**Hydraulic crimping heads 400 mm<sup>2</sup>**

Order No.	Description	Tool weight
PP130-C	Crimping head C 30 mm jaw opening	4,1 kg
PP130-C2	Crimping head C 42 mm jaw opening	4,4 kg
PP130-H	Crimping head H	3,4 kg
TPI130	Crimping head table	12 kg

CRIMPING SECTION	max. 400 mm	CRIMPING FORCE	130 kN
OPERATING PRESSURE			700 bar (70 MPa)
MAXIMUM STROKE PP130-C			30 mm
MAXIMUM STROKE PP130-C2			42 mm
MAXIMUM STROKE PP130-H			30 mm
MAXIMUM STROKE TPI130			36 mm



PP130-H

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
series 130	see page 81	see page 83	see page 79






HYDRAULIC CRIMPING HEADS



PP60-1



Hydraulic crimping head 240 mm<sup>2</sup>


Order No.	Description	Tool weight	
PP60-1	Crimping head	1,6 kg	
CRIMPING SECTION	max. 300 mm	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
	see page 81	see page 83	see page 79
series 60-1			



PP60-2



Hydraulic crimping head 300 mm<sup>2</sup>


Order No.	Description	Tool weight	
PP60-2	Crimping head	1,7 kg	
CRIMPING SECTION	max. 300 mm	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
	see page 81	see page 83	see page 79
series 60-2			



PP230



Hydraulic crimping head 630 mm<sup>2</sup>

Order No.	Description	Tool weight	
PP230	Crimping head	5,5 kg	
CRIMPING SECTION	max. 630 mm <sup>2</sup>	CRIMPING FORCE	230 kN
MAXIMUM STROKE	28 mm	OPERATING PRESSURE	700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
	see page 81	see page 83	see page 79
series 230			




PP520



Video

Hydraulic crimping head 1.000 mm<sup>2</sup>

Order No.	Description	Tool weight	
PP520	Crimping head	13,2 kg	
CRIMPING SECTION	max. 1.000 mm <sup>2</sup>	CRIMPING FORCE	520 kN
MAXIMUM STROKE	25 mm	OPERATING PRESSURE	700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors		
	see page 81		
series 520			



PP600



Hydraulic crimping head 1.600 mm<sup>2</sup>

Order No.	Description	Tool weight	
PP600	Crimping head	17,0 kg	
CRIMPING SECTION	max. 1.600 mm <sup>2</sup>	CRIMPING FORCE	600 kN
MAXIMUM STROKE	30 mm	OPERATING PRESSURE	700 bar (70 MPa)

\* Bigger Crimping Heads on request

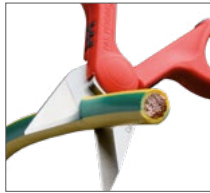


SCISSORS

F1 SCISSORS



Special blade design:  
to cut and strip cables



To cut Cu/Al cables  
up to 50 mm<sup>2</sup>



Special slot to crimp  
(0,5 - 4 mm<sup>2</sup>)

Strip

easy to strip of cables due to unique shape

Cut

non slip blade with micro-indentations  
heavy duty stainless steel blades

Durable

possibility to readjust the tool to  
avoid the natural wear

Crimp

crimping of end-sleeves  
from 0,5 up to 4 mm<sup>2</sup>

Suitable

2 component handle for a  
perfect grip to ensure the  
best cutting performance



Video F1



Video F1  
production



F1 electrician scissors 2K 3in1  
+ Safety box

Description	Order No.	Blade	Length
F1 scissors with Safety box	16020-F1	straight	160 mm

- To cut Cu/Al cables up to 50 mm<sup>2</sup>
- With slot to crimp end-sleeves from 0,5 to 4 mm<sup>2</sup>
- Blades with optimized teeth
- High cutting performance
- Loose-free screw/pin hinge
- 2 component handle

Attention: Not suitable for work under voltage!



### Cable cutter scissors + safety box and Voltage tester

Description	Order No.
1 Cable scissors - 16020-F1	16020-CF1
1 Voltage tester - AM0208	

- Voltage range: 50 - 600 VAC, 50 - 60 Hz
- Voltage display: optical and acoustic signal
- Application range: 0 - 50°C

Suitable for determining the voltage without contact



### Electricians' scissors 2K

Description	Order No.	Blade	Length
Special scissors	16012	straight	140 mm
16012 + safety box	16014		

- 2-component handles
- High cutting performance
- Blades with optimized teeth
- Loose-free screw/pin fixing

Attention: Not suitable for work under voltage!



### CONNECT scissors 2K

Description	Order No.	Blade	Length
CONNECT scissors with safety box	16040	straight with cut-in	153 mm

- 2-component handles
- High cutting performance
- Blades with optimized teeth and cut-in part for stripping
- Built-in crimping function for end-sleeves up to 4 mm<sup>2</sup>
- Loose-free screw/pin fixing

Attention: Not suitable for work under voltage!



### Safety box

Description	Order No.
Safety box empty for model 16012, 16020, 16040	16029



**KNIVES - 1000V**



• Universal cutting blade

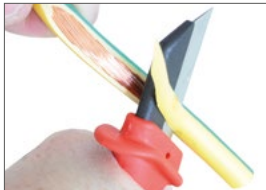
**Universal knife with clappable blade protection**

Description	Order No.	Blade	Length
Cable knife	AV3910	interch. 50 mm	185 mm
Spare blade	AV3911	-	50 mm

- 1000V insulated tool
- With replaceable standard blade (thickness 0,65 mm)
- Made of shock-proofed material
- Integrated, captive blade guard



- Special stripping blade shape
- Special blade grinding suitable for stripping cable without damaging the individual wires



**Cable stripping knife with clappable blade protection**

Description	Order No.	Blade	Length
Cable knife	AV3920	interch. 50 mm	185 mm
Spare blade	AV3921	-	50 mm

- 1000V insulated tool
- Specially hardened blade suitable for stripping cables
- With replaceable solid blade and insulated blade-back
- Made of shock-proofed material
- Integrated, captive blade guard



- Special blade grinding suitable for stripping cable without damaging the individual wires
- Individual wires
- Insulating blade with a very long service life



**Special cable stripping knife with ceramic blade**

Description	Order No.	Blade	Length
Cable knife	AV3930	fixed 46 mm	185 mm

- 1000V insulated tool
- Integrated, captive blade guard
- High cutting capacity

Replacing blade is not available



**Cable stripping knife with safety cap**

Description	Order No.	Blade	Length
Cable knife	288700	fixed 47 mm	175 mm

- Special blade with guide blade prevents damage of conductor strands
- For removal of insulation and sheath
- Blade and blade back sharpened
- Blade of tempered stainless steel
- Insulation of tough non-brittle plastic



1000V  
ENITEC60900:2004

### Hacksaw

WIDTH OF BLADE	5 mm
THICKNESS OF BLADE	0,80 mm

Description	Order No.	Length	Weight
Hacksaw	424200	280 mm	230 g
Spare saw-blade	433010	150 mm	3 g

- Made of flat steel 10 x 5 mm, galvanized
- For 148 mm saw-blades
- With insulated rotary handle for blade tension
- Insulation of soft, non-brittle plastic

■ ATTENTION: NOT SUGGESTED FOR WORK UNDER VOLTAGE



1000V  
ENITEC60900:2004

### Hacksaw

WIDTH OF BLADE	13 mm
THICKNESS OF BLADE	0,63 mm

Description	Order No.	Length	Weight
Hacksaw / saw-blade	424300	470 mm	660 g
Blade 22/32 teeth width 13 mm, thicken. 0,63 mm	421000	300 mm	17 g
Blade 18 teeth width 13 mm, thicken. 0,63 mm	421016	300 mm	17 g
Blade double-sided 22/32 teeth width 25 mm, thicken. 0,8 mm	421920	300 mm	40 g

- With insulated wing bold for blade tension
- Insulation of soft, non-brittle plastic

■ ATTENTION: NOT SUGGESTED FOR WORK UNDER VOLTAGE



1000V  
ENITEC60900:2004

### Insulated cable sheath saw

Description	Order No.	Length	Weight
Cable sheat saw (24 teeth, fine)	430302	250 mm	140 g
Saw-blade (14 teeth, coarse)	430801	120 mm	6 g
Saw-blade (24 teeth, fine)	430805	120 mm	6 g

- For steel strip armoured cable
- Adjustable stopper
- Replaceable saw-blade
- Coarse toothed saw-blade for soft materials
- Fine toothed saw-blade for sheet metal cutting, saw-blade no. 430805 - 24 teeth fine
- Insulation made of shock-proof material
- If desired, alternatively 14 saw blade teeth can be supplied

■ ATTENTION: NOT SUGGESTED FOR WORK UNDER VOLTAGE



MECHANIC CUTTING TOOLS

CUTTING TOOLS / ORDER NO.	FEATURE	LENGTH, WEIGHT
 16032	 <b>Insulated cable shears 2K</b> <ul style="list-style-type: none"> <li>• Adjustable screwjoint</li> <li>• High cutting performance</li> <li>• Surface treatment: burnished and polished</li> <li>• 2-component-handles</li> </ul>	180 mm, 0,10 kg
 1202160	 <b>Side cutter 2K</b> <ul style="list-style-type: none"> <li>• Very slim design of the head</li> <li>• For cutting hard and soft wire</li> <li>• Induction hardened precision cutting</li> <li>• High cutting performance</li> <li>• 2-component resistant insulated handles</li> </ul>	160 mm, 0,21 kg
 1604160	 <b>Cable cutter D17 2K</b> <ul style="list-style-type: none"> <li>• For cutting Cu and Al cables up to 50 mm<sup>2</sup></li> <li>• With adjustable screw joint</li> <li>• Special tool steel with chrome finish</li> <li>• 2-component resistant insulated handles</li> <li>• Jaw opening: 17 mm</li> </ul>	160 mm, 0,22 kg
 1604200	 <b>Cable cutter D22 2K</b> <ul style="list-style-type: none"> <li>• For cutting Cu and Al cables up to 80 mm<sup>2</sup></li> <li>• 2 types of cutting edges</li> <li>• With adjustable screw joint</li> <li>• Special tool steel with chrome finish</li> <li>• 2-component resistant insulated handles</li> <li>• Jaw opening: 25 mm</li> </ul>	200 mm, 0,35 kg
 11094	 <b>Cable cutter D15 2K ISOplus</b> <ul style="list-style-type: none"> <li>• For cutting flexible Al and Cu conductors</li> <li>• Up to 50 mm<sup>2</sup></li> <li>• Blades are induction hardened</li> <li>• 2-component insulated handles</li> <li>• ISOplus safety insulation</li> </ul>	170 mm, 0,15 kg
 MSA180	<b>MultiCutter 3in1</b> Cutting: cable < Ø 11 mm • soft wire < Ø 6 mm, • hard wire < Ø 2 mm, Stripping cable Ø 5 - 16 mm • 3 x 1,5 mm <sup>2</sup> < 5 x 1,5 mm <sup>2</sup> Stripping flexible conductors < Ø 5 mm Induction hardened blades Ergonomic handle	185 mm, 0,27 kg
 MKS200	<b>Heavy-duty side cutter</b> <ul style="list-style-type: none"> <li>• Precision cutter for piano wire 62 HRC</li> <li>• Cutting length: 24 mm</li> <li>• Special tool steel, oil-hardened</li> <li>• Leverage, thus 40% power savings</li> </ul>	200 mm, 0,33 kg



**Portability**  
Smart weight reduction

**Suitable**  
Ergonomic and slip reduction grip

**Safety**  
Available in 1000V insulated

**Quality**  
Made of high-strength special steel, stressed parts are extra hardened

**Handling**  
Opening mechanism in any position

**100% MADE IN GERMANY**

**1000V IEC 60900**

ORDER NO.	1605034	1607062	1608032
CABLE TYPE	Al, Cu	Al, Cu	ACSR (Al/Steel)
CUTTING RANGE MAX.	D 34 mm / 300 mm <sup>2</sup>	D 62 mm / 500 mm <sup>2</sup>	D 32 mm / 240 mm <sup>2</sup>
LENGTH	296 mm	306 mm	346 mm
WEIGHT	0,63 kg	0,89 kg	1,4 kg



1605034  
1000V IEC 60900



1607062  
1000V IEC 60900



1608032  
1000V IEC 60900

*intercable*  
TOOLS

# THE NEW STILO-S CABLE CUTTERS



STILO-S40



STILO-S54



STILO-S50F

The all-rounder





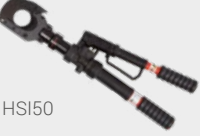









The energy champion

The industry professional





HYDRAULIC CUTTING TOOLS - OVERVIEW

	CUTTING HEADS*	HAND OPERATED	BATTERY OPERATED		CUTTING Ø MAX.	APPLICATION RANGE
SERIES 25	 PS25	 HS25	 STILO-S25	 AS25	Ø 25 mm	<ul style="list-style-type: none"> <li>• Steel</li> <li>• ACSR</li> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 26			 STILO-S26		Ø 26 mm	<ul style="list-style-type: none"> <li>• Steel</li> <li>• ACSR</li> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 40			 STILO-S40		Ø 40 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 45	 PS45	 HSI45		 AS45	Ø 45 mm	<ul style="list-style-type: none"> <li>• Steel</li> <li>• ACSR</li> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 50	 PS50	 HSI50	 STILO-S50F	 AS50	Ø 50 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 54			 STILO-S54		Ø 54 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 65	 PS65			 AS65	Ø 65 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 85	 PS85	 HSI85		 AS85	Ø 85 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 95	 PS95			 AS95	Ø 95 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 120-2	 PS120-2			 AS120-2	Ø 120 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 120	 PS120 (SK160)				Ø 120 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Heavy armoured cables</li> </ul>

\* Tool heads operated by hydraulic pumps, see page 47

\* Bigger cutting tools on request



# HS25



## Portable / Resistant

Alu body for low capacity tools to give them lightness

Steel body for bigger capacity tools

## Light

Lightweight body

## Reliable

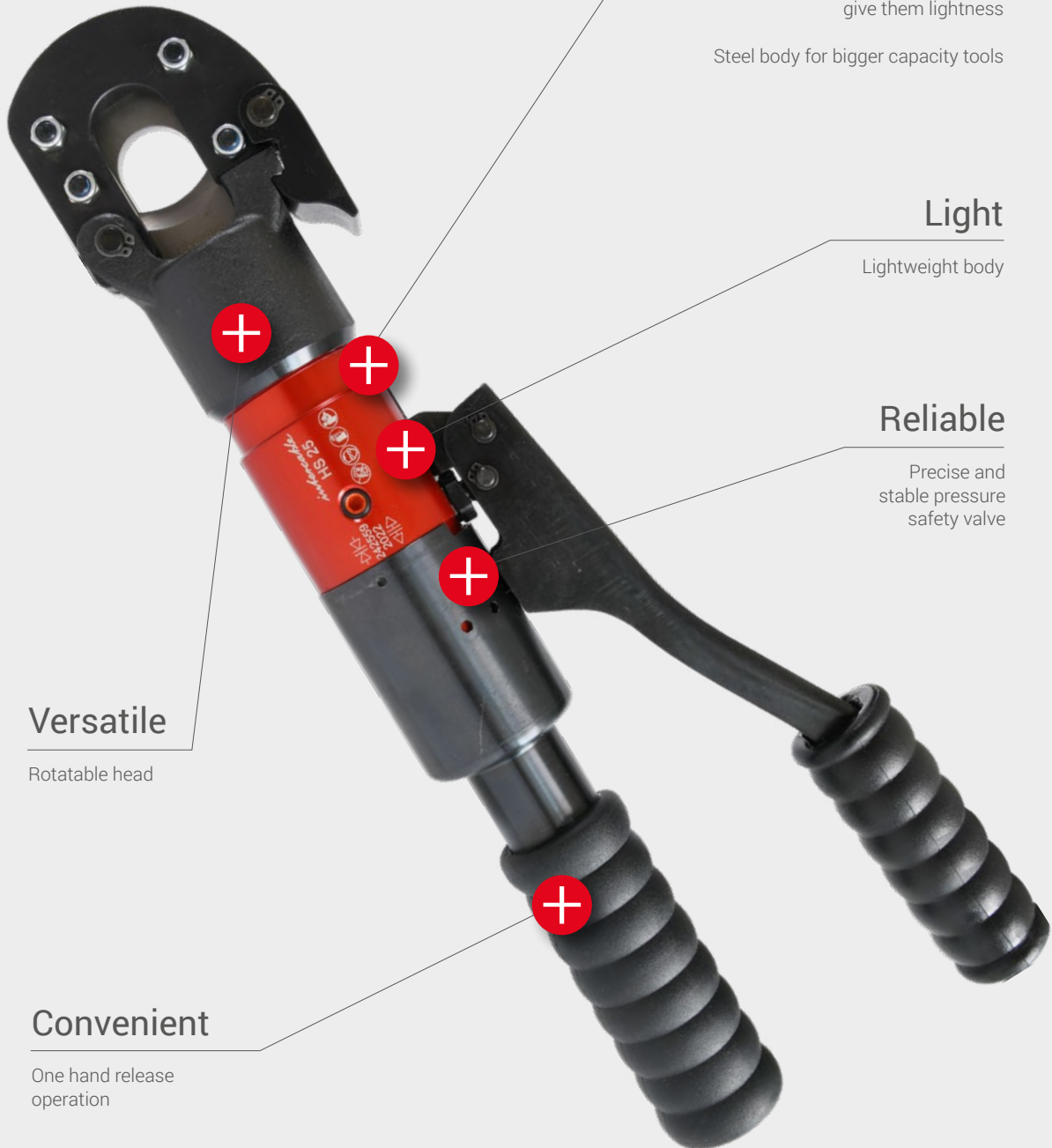
Precise and stable pressure safety valve

## Versatile

Rotatable head

## Convenient

One hand release operation



### Hand hydraulic cutting tools - SET equipment:

- Report of the tests made on the concrete tool after the production
- Manual hydraulic cutting tool
- Rigid plastic case



Spare blades are available for each



HAND HYDRAULIC CUTTING TOOLS



HS25

Hand hydraulic cutting tool Ø25 mm  
(Steel, ACSR, Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
HS25	Hand hydraulic cutting tool - set	2,9 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 23 mm	Ø 25 mm
Copper	Rope and cable	<410								
	Bar	<250								
	Bar	<300								
Aluminium	Rope and cable	<200								
	Bar	<160								
	Bar	<340								
Aldrey	Cable	<340								
Alu/Steel	Rope	<1800								
Steel	Rope	<2200								
	Bar	<600								
	Bar	<420								
	Rope (>200 wires)	<180								



HS145

Hand hydraulic cutting tool Ø45 mm  
(Steel, ACSR, Aluminium)

Order No.	Description	Tool weight	Cutting force
HS145	Hand hydraulic cutting tool - set	5,7 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 9 mm	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 25 mm	Ø 27 mm	Ø 31 mm	Ø 33 mm	Ø 35 mm	Ø 37 mm	Ø 39 mm	Ø 41 mm	Ø 43 mm	Ø 45 mm
Copper	Rope and cable	<410																	
	Bar	<300																	
	Bar	<250																	
Aluminium	Rope and cable	<200																	
	Bar	<160																	
	Bar	<340																	
Aldrey	Rope and cable	<340																	
Alu/Steel	Rope	<1800																	
Steel	Rope	<2200																	
	Bar	<600																	
	Bar	<420																	
	Rope (>200 wires)	<180																	



HS150

Hand hydraulic cutting tool Ø50 mm  
(Copper, Aluminium)

Order No.	Description	Tool weight	Cutting force
HS150	Hand hydraulic cutting tool - set	5,1 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	<Ø20 mm	<Ø25 mm	<Ø30 mm	<Ø40 mm	<Ø45 mm	<Ø50 mm	<Ø55 mm
Copper	Rope and cable	<410							
Aluminium	Rope and cable	<200							

HS150F is available: specially designed to the flexible cable classes 5, 6



HS185

Hand hydraulic cutting tool Ø85 mm  
(Copper, Aluminium)

Order No.	Description	Tool weight	Cutting force
HS185	Hand hydraulic cutting tool - set	7,3 kg	70 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	<Ø50 mm	<Ø55 mm	<Ø60 mm	<Ø65 mm	<Ø70 mm	<Ø75 mm	<Ø80 mm	<Ø85 mm	<Ø90 mm
Copper	Rope and cable	<410									
Aluminium	Rope and cable	<200									

Spare blades are available for each



**Accurate**

Clean and straight cut thanks to new cutting geometry

**Wear-resistant**

Cutting blades in alloyed and hardened tool steel with special coating for wear reduction

**Head rotation**

Cutting head endlessly rotatable, enables work in any position

**Resistant**

Light and compact design  
Housing in impact resistant plastic

**Efficient**

Automatic opening after cutting process is completed, protects battery and device

**Ergonomic**

Effort-saving work and easy handling thanks to the balanced 2-component handle

**Intelligent**

Readout of the cutting cycles via USB interface, integrated service management (from 20,000 cycles)

**Multifunction LED**

indicates information about the tool and the battery status

**Powerful**

Powerful, replaceable 18V / 2,0 Ah Li-Ion battery with integrated battery management for even more work cycles

**Easy change and adjustment of the cutting blades**

To change the blades only an open-end wrench is needed for counterholding, so that you can loosen, remove or tighten the blades with a hexagon socket on the opposite side. Thanks to the soft rubber cover of the blades, you have easy access to the blade screws.

**Stronger Cutting force**

Thanks to the new innovative shape of the cutting blades, the force transmission to the cable is bigger. In addition, a larger piston is installed and generates a bigger cutting force.

**Less service intensive**

The new design of the cutting head, in addition to the new internal design of the tool, increases the service life and handling of the tool for the customer.

**Stilo hydraulic cutting tools - SET equipment:**

- Report of the tests made on the concrete tool after the production
- Battery-operated hydraulic cutting tool
- Battery 18 V/2,0 Ah Li-Ion (RA20)
- Battery charger (LG8)
- USB-cable
- Software (CD)
- Rigid plastic case



Spare blades are available for each



**BATTERY OPERATED HYDRAULIC CUTTING TOOLS - STILO**



STILO-S25



Video S26



STILO-S26



Video S40



STILO-S40



Video S54



STILO-S50F

STILO-S54

**Battery operated hydraulic cutting tool Ø26 mm  
(Steel, ACSR, Aluminium, Copper)**

Order No.	Description	Tool weight	Cutting force
STILO-S25	Hydraulic cutting tool S25 - set	3,7 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 23 mm	Ø 25 mm
Copper	Rope and cable	<410								
	Bar	<250								
	Bar	<300								
Aluminium	Rope and cable	<200								
	Bar	<160								
	Bar	<340								
Aldrej	Cable	<340								
Alu/Steel	Rope	<1800								
	Rope	<2200								
Steel	Bar	<600								
	Bar	<420								
	Bar	<420								
	Rope (>200 wires)	<180								

**Battery operated hydraulic cutting tool Ø26 mm  
(Steel, ACSR, Aluminium, Copper)**

Order No.	Description	Tool weight	Cutting force
STILO-S26	Hydraulic cutting tool S26 - set	4,4 kg	44 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 23 mm	Ø 25 mm
Copper	Rope and cable	<410								
	Bar	<250								
	Bar	<300								
Aluminium	Rope and cable	<200								
	Bar	<160								
	Bar	<340								
Aldrej	Cable	<340								
Alu/Steel	Rope	<1800								
	Rope	<2200								
Steel	Bar	<600								
	Bar	<420								
	Bar	<420								
	Rope (>200 wires)	<180								

**Battery operated hydraulic cutting tool Ø40 mm  
(Aluminium, Copper)**

Order No.	Description	Tool weight	Cutting force
STILO-S40	Hydraulic cutting tool S40 - set	3,1 kg	29 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 20 mm	Ø 25 mm	Ø 30 mm	Ø 35 mm	Ø 40 mm
Copper	Rope and cable	<410					
Aluminium	Rope and cable	<210					

Stilo-S40: cable class 1, 2, 5

**Battery operated hydraulic cutting tool Ø50 mm / Ø54 mm  
(Aluminium, Copper)**

Order No.	Description	Tool weight	Cutting force
STILO-S50F	Hydraulic cutting tool S50F - set	3,2 kg	26 kN
STILO-S54	Hydraulic cutting tool S54 - set	3,9 kg	32 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 20 mm	Ø 25 mm	Ø 30 mm	Ø 35 mm	Ø 40 mm	Ø 45 mm	Ø 50 mm
Copper	Rope and cable	<410							
Aluminium	Rope and cable	<210							

Stilo-S50F: specially designed to the flexible cable classes 5, 6  
Stilo-S54: cable classes 1, 2, 5

Spare blades are available for each



**Reliability**

Durable exterior and interior

**Service friendly**

easily changable due to a modular design



**Head rotation**

360° tool head turning

**Comfortable**

Attachement for shoulder strap



**2-speed system**

Easier to work, thanks to the variable approach speed for precise positioning of the cutting tool

**Lighting**

Integrated LED for illuminating the working area in poor light conditions

**Powerful**

18V 3Ah Lithium-Ion battery for even more cuts during one battery life

**Release**

Pressure release button with single handed operation on both sides

**Ergonomic**

Effortless working and easy handling due to equilibrated 2-component handle

**Pistol grip hydraulic cutting tools - SET equipment:**

- Report of the tests made on the concrete tool after the production
- Battery-operated hydraulic cutting tool
- Battery 18 V/3,0 Ah Li-Ion (RA50)
- Battery charger (LG8)
- Rigid plastic case
- Shoulder strap (TG2)



Spare blades are available for each

**BATTERY OPERATED HYDRAULIC CUTTING TOOLS - HEAVY DUTY**



AS25



**Pistol grip cutting tool Ø25 mm (Steel, ACSR, Al, Cu)**

Order No.	Description	Tool weight	Cutting force
AS25	Pistol grip hydraulic cutting tool - set	4,2 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 23 mm	Ø 25 mm
Copper	Rope and cable	<410								
	Bar	<250								
	Bar	<300								
Aluminium	Rope and cable	<200								
	Bar	<160								
Aldrey	Bar	<340								
	Cable	<340								
Alu/Steel	Rope	<1800								
	Rope	<2200								
Steel	Bar	<420								
	Bar	<600								
	Bar	<600								
	Rope (>200 wires)	<180								



AS45



**Pistol grip cutting tool Ø45 mm (Steel, ACSR, Al, Cu)**

Order No.	Description	Tool weight	Cutting force
AS45	Pistol grip hydraulic cutting tool - set	5,4 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 9 mm	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 25 mm	Ø 27 mm	Ø 31 mm	Ø 33 mm	Ø 35 mm	Ø 37 mm	Ø 39 mm	Ø 41 mm	Ø 43 mm	Ø 45 mm
Copper	Rope and cable	<410																	
	Bar	<300																	
	Bar	<250																	
Aluminium	Bar	<340																	
	Rope and cable	<200																	
Aldrey	Bar	<160																	
	Rope and cable	<340																	
Alu/Steel	Rope	<1800																	
	Rope	<2200																	
Steel	Bar	<600																	
	Bar	<420																	
	Bar	<420																	
	Rope (>200 wires)	<180																	



AS50



**Pistol grip cutting tool Ø50 mm (Aluminium, Copper)**

Order No.	Description	Tool weight	Cutting force
AS50	Pistol grip hydraulic cutting tool - set	5,4 kg	60 kN

AS50F is available: specially designed to the flexible cable classes 5, 6



AS65



Video AS65



**Pistol grip cutting tool Ø65 mm (Aluminium, Copper)**

Order No.	Description	Tool weight	Cutting force
AS65	Pistol grip hydraulic cutting tool - set	7,6 kg	44 kN



AS85



**Pistol grip cutting tool Ø85 mm (Aluminium, Copper)**

Order No.	Description	Tool weight	Cutting force
AS85	Pistol grip hydraulic cutting tool - set	7,2 kg	70 kN



AS95



**Pistol grip cutting tool Ø95 mm (Aluminium, Copper)**

Order No.	Description	Tool weight	Cutting force
AS95	Pistol grip hydraulic cutting tool - set	9,8 kg	65 kN



AS120-2



**Pistol grip cutting tool Ø120 mm (Aluminium, Copper)**

Order No.	Description	Tool weight	Cutting force
AS120-2	Pistol grip hydraulic cutting tool - set	10,5 kg	60 kN

Tool weight: the hydraulic cutting tool with the battery



**HYDRAULIC CUTTING HEADS**

**100%  
MADE IN  
ITALY**

**Sharp**

Improved cutting geometry

**Handy**

Handling grip on bigger heads

**Uncomplicated**

Quick coupling with unloseable dust cap

**Quality**

Reinforced cutting head

**Simple**

Customer friendly spare blade replacements

**Powerful**

Advanced cylinder for better force transmission

**Clean**

Built-in dust filter

**Universal**

Tilting coupling on bigger heads

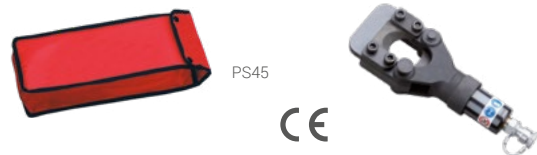
**Hydraulic cutting heads - SET equipment:**

- Hydraulic cutting head
- Rigid plastic / metal case or soft nylon case

Spare blades are available for each



PS25



PS45



**Hydraulic cutting head Ø25 mm (Steel, ACSR, Aluminium)**

Order No.	Description	Tool weight	Cutting force
PS25	Hydraulic cutting head - set	1,9 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 23 mm	Ø 25 mm
Copper	Rope and cable	<410								
	Bar	<250								
	Bar	<300								
Aluminium	Rope and cable	<200								
	Bar	<160								
	Bar	<340								
Aldrey	Cable	<340								
Alu/Steel	Rope	<1800								
	Rope	<2200								
Steel	Bar	<420								
	Bar	<600								
	Rope (>200 wires)	<180								

**Hydraulic cutting head Ø45 mm (Steel, ACSR, Aluminium)**

Order No.	Description	Tool weight	Cutting force
PS45	Hydraulic cutting head - set	3,7 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 9 mm	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 25 mm	Ø 27 mm	Ø 31 mm	Ø 33 mm	Ø 35 mm	Ø 37 mm	Ø 39 mm	Ø 41 mm	Ø 43 mm	Ø 45 mm
Copper	Rope and cable	<410																	
	Bar	<300																	
	Bar	<250																	
Aluminium	Bar	<340																	
	Rope and cable	<200																	
	Bar	<160																	
Aldrey	Rope and cable	<340																	
Alu/Steel	Rope	<1800																	
	Rope	<2200																	
Steel	Bar	<600																	
	Bar	<420																	
	Rope (>200 wires)	<180																	





HYDRAULIC CUTTING HEADS



PS50



Hydraulic cutting head Ø50 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS50	Hydraulic cutting head - set	2,9 kg	60 kN

PS50F is available: specially designed to the flexible cable classes 5, 6



PS65



Hydraulic cutting head Ø65 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS65	Hydraulic cutting head - set	4,7 kg	44 kN



PS85



Hydraulic cutting head Ø85 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS85	Hydraulic cutting head - set	4,5 kg	70 kN



PS95



Hydraulic cutting head Ø95 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS95	Hydraulic cutting head - set	7,5 kg	65 kN



PS120-2



Hydraulic cutting head Ø120 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS120-2	Hydraulic cutting head - set	8,2 kg	60 kN



PS120



Hydraulic cutting head Ø120 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS120	Hydraulic cutting head - set	9,6 kg	100 kN



PS120-SK160



Hydraulic cutting head Ø120 mm  
(for wire armoured aluminium and copper cables)

Order No.	Description	Tool weight	Cutting force
PS120-SK160	Hydraulic cutting head - set	11,0 kg	135 kN



PUNCHING TOOLS



**Flexible**

Balanced centre of gravity for easy handling and effortless operations

**Manageable**

High flexibility using 360° rotating head

**Resistant**

Light and compact design  
Housing in impact resistant plastic

**Ergonomic**

Effort-saving work and easy handling thanks to balanced 2-component hand

**Quiet**

Extra silent motor

**Multifunction LED**

indicates information about the tool and the battery status

**Control**

Punching detection

**Reliable**

An integrated pressure sensor increases the service life of the punching tool.

First service after 20.000 cycles

**Intelligent**

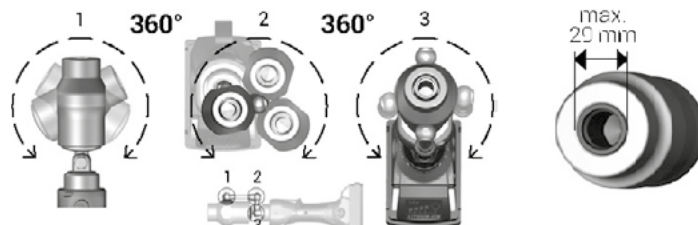
Readout of the data of the punching cycles via USB interface, integrated service management

**Powerful**

Powerful, replaceable 18V Li-Ion battery with integrated battery management for even more work cycles



Video Stilo-BL





**Set equipment:**

- Hand-operated hydraulic hole punching tool
- 1 draw stud 9.5 x 19.0 mm
- 1 draw stud 19.0 x 125.0 mm
- 1 spacer sleeve
- 1 tube of anti-wear paste
- 1 HSS-E step drill
- Operating instructions, safety and maintenance instructions
- Carrying case for the tool and accessories as well as 8 pairs of round hole inserts



HP60-BL

**Hand-operated hydraulic hole punching tool**

Order No.	Description	Tool weight
HP60-BL	Hand-operated hydraulic hole punching tool	4,2 kg
PUNCHING FORCE		60kN
OPERATING PRESSURE		700 bar

**Punching capacity (max. sheet thicknesses):**

- Up to Ø 63.5 mm: ..... 3.0 mm steel / 2.5 mm stainless steel
- Up to Ø 68.0 x 68.0 mm: ..... 3.0 mm steel / 1.5 mm stainless steel
- Up to Ø 92.0 x 92.0 mm: ..... 2.5 mm steel / 1.5 mm stainless steel
- Larger than 92.0 x 92.0 mm, up to 138.0 x 138.0 mm 2 mm steel

**Set equipment:**

- Battery-operated hydraulic hole punching tool
- Li-ion battery 18V - 1.5Ah
- Battery charger LG8
- 1 draw stud 9.5 x 19.0 mm
- 1 draw stud 19.0 x 125.0 mm
- 1 spacer sleeve
- 1 tube of anti-wear paste
- 1 HSS-E step drill
- USB cable
- CD-ROM (software)
- Operating instructions, safety and maintenance instructions
- Carrying case for the tool, spare batteries, charger, and 8 pairs of round hole inserts



STILO-BL

**Battery-operated hydraulic hole punching tool**

Order No.	Description	Tool weight
STILO-BL	Battery-operated hydraulic hole punching tool	6,3 kg
PUNCHING FORCE		60kN
OPERATING PRESSURE		700 bar

**Punching capacity (max. sheet thicknesses):**

- Up to Ø 63.5 mm: ..... 3.0 mm steel / 2.5 mm stainless steel
- Up to Ø 68.0 x 68.0 mm: ..... 3.0 mm steel / 1.5 mm stainless steel
- Up to Ø 92.0 x 92.0 mm: ..... 2.5 mm steel / 1.5 mm stainless steel
- Larger than 92.0 x 92.0 mm, up to 138.0 x 138.0 mm 2 mm steel

Scope of delivery: Hydraulic cylinder (without draw bolts)



PBL60

**Hydraulic hole punching tool**

Order No.	Description	Tool weight
PBL60	Hydraulic hole punching tool	2,5 kg
PUNCHING FORCE		60kN
OPERATING PRESSURE		700 bar

**Punching capacity (max. sheet thicknesses):**

- Up to Ø 63.5 mm: ..... 3.0 mm steel / 2.5 mm stainless steel
- Up to Ø 68.0 x 68.0 mm: ..... 3.0 mm steel / 1.5 mm stainless steel
- Up to Ø 92.0 x 92.0 mm: ..... 2.5 mm steel / 1.5 mm stainless steel
- Larger than 92.0 x 92.0 mm, up to 138.0 x 138.0 mm 2 mm steel

**TRE SPLIT - hole punching dies for hydraulic punchers**

Easy clean cut in 3 pieces, without any stuck.

**Metric line**

Hole Ø mm	16,2	20,4	25,4	32,5	40,5	50,5	63,5	30,5
Order No.	BLTM16	BLTM20	BLTM25	BLTM32	BLTM40	BLTM50	BLTM63	BLTN30,5
Draw stud	ZB9,5x19			ZB19x125				ZB9,5x19

**PG line**

Hole Ø mm	18,6	20,4	22,5	28,3	37,0	47,0	54,0	60,0
Order No.	BLTPG11	BLTPG13	BLTPG16	BLTPG21	BLTPG29	BLTPG36	BLTPG42	BLTPG48
Draw stud	ZB9,5x19				ZB19x125			



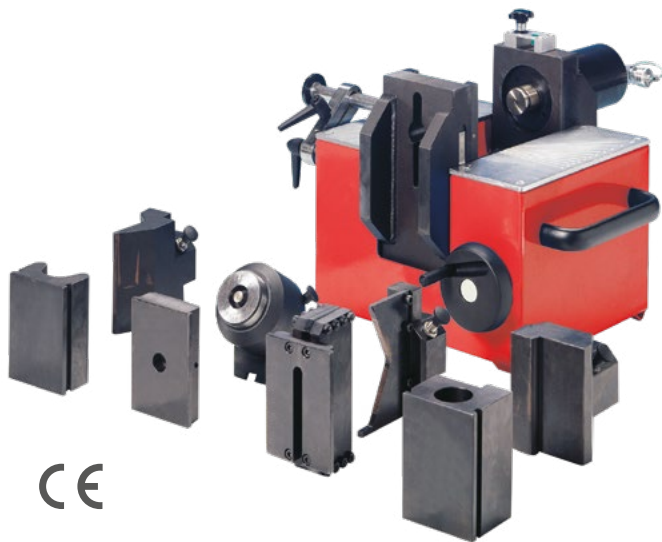
Punching die



Draw studs



Video BLS



**BLS120 - Power rail work station**

Designed to bend, punch, cut and crimp bus bars in copper or aluminium up to 120 x 12 mm. The works station must be powered by a hydraulic pump (max. pressure 700bar/70MPa).

**Technical characteristics:**

- Sturdy and compact, suitable for use in workshops and on construction sites
- Composed of a base unit and a variety of work tools, interchangeable tools depending on the task being performed
- Simple and quick tool changing
- The electrical proximity switch guarantees 100% bending repeatability
- The work bench adjusts in height with a side stop to make holes without tracing and measuring
- Quick automatic-lock connection of hydraulics and undetachable dust cap
- Cutting tool for clean burr-free cuts due to special shape of the blade
- Exact dimensional bending of bow in one operation
- Perforates and cuts laminated power rails and earthing strips

Force generated: ..... max. 185 kN  
 Operating pressure: ..... 700bar (70 MPa)  
 Bus bar width: ..... up to 120 mm  
 Bus bar thickness: ..... up to 12 mm

**Recommended pumps to operate BLS-120**



NP220  
(main powered)



ANP24/220  
(main and battery powered)

Order No.	Description	Dimensions	Weight
BLS-120	Power rail work station	480x500x360 mm	53 kg

**Accessories:**

Order No.	Description	Power rail dimensions	Weight
BLS-M	Bending female die	up to 120 x 12 mm	3,3 kg

Order No.	Description	Bending radius	Bending angle	Weight
BLS-R5	Bending tool	R5 mm	to 110°	4 kg
BLS-R8	Bending tool	R8 mm	to 110°	4,1 kg
BLS-R10	Bending tool	R10 mm	to 110°	4,4 kg
BLS-R20	Bending tool	R20 mm	to 110°	5 kg
BLS-R	Back-bending die			3,8 kg

**Attention:**

The bending female die BLS-M must have had (ordered separately) beside any BLS-R... bendig tool for the bending process!

Order No.	Description	Power rail dimensions	Weight
BLS-S	Cutting tool for massive power rails	up to 120 x 12 mm	5,8 kg

Order No.	Description	Power rail dimensions	Weight
BLS-SL	Cutting tool for laminated rails	up to 120 x 12 mm	9,0 kg

Order No.	Description	Power rail dimensions	Weight
BLS-K	Offset shaping tool	up to 120 x 12 mm	11,0 kg



**ELECTRIC BUS BAR PROCESSING UNIT**

**Technical characteristics:**

- For solid and laminated bus bars
- Perforation near the Insulation possible (min. 5 mm) by step in the tool
- Round hole: Ø 6.5 to 21.0 mm
- Longitudinal slot: 6.5 x 13 to 17 x 20 mm



Order No.	Description	Power rail dimensions	Weight
BLS-L4	Perforation tool IV for laminated and solid rails	up to 120 x 12 mm	4,3 kg



Description	Ø	Female die	Punch	Stripper
Round hole punch and female dies for laminated and solid bus bars	6,5 mm	LS4R06,5M	LS4R06,5S	LS4R06,5N
	7,0 mm	LS4R07,0M	LS4R07,0S	LS4R07,0N
	8,5 mm	LS4R08,5M	LS4R08,5S	LS4R08,5N
	9,0 mm	LS4R09,0M	LS4R09,0S	LS4R09,0N
	10,0 mm	LS4R10,0M	LS4R10,0S	LS4R10,0N
	10,5 mm	LS4R10,5M	LS4R10,5S	LS4R10,5N
	11,0 mm	LS4R11,0M	LS4R11,0S	LS4R11,0N
	12,0 mm	LS4R12,0M	LS4R12,0S	LS4R12,0N
	13,0 mm	LS4R13,0M	LS4R13,0S	LS4R13,0N
	14,0 mm	LS4R14,0M	LS4R14,0S	LS4R14,0N
	14,5 mm	LS4R14,5M	LS4R14,5S	LS4R14,5N
	15,0 mm	LS4R15,0M	LS4R15,0S	LS4R15,0N
	17,0 mm	LS4R17,0M	LS4R17,0S	LS4R17,0N
	18,0 mm	LS4R18,0M	LS4R18,0S	LS4R18,0N
19,0 mm	LS4R19,0M	LS4R19,0S	LS4R19,0N	
21,0 mm	LS4R21,0M	LS4R21,0S	LS4R21,0N	

**Attention:**

Female die (M) + Punch (S) + Stripper (N) all must have had for the hole punching!



Description	Ø	Female die	Punch	Stripper
Long hole punch and female dies for laminated and solid bus bars on request	6,5x13,0	LS4L06,5x13,0M	LS4L06,5x13,0S	LS4L06,5x13,0N
	10,5x13,0	LS4L10,5x13,0M	LS4L10,5x13,0S	LS4L10,5x13,0N
	8,5x16,0	LS4L08,5x16,0M	LS4L08,5x16,0S	LS4L08,5x16,0N
	6,5x21,0	LS4L06,5x21,0M	LS4L06,5x21,0S	LS4L06,5x21,0N
	8,0x20,0	LS4L08,0x20,0M	LS4L08,0x20,0S	LS4L08,0x20,0N
	9,0x20,0	LS4L09,0x20,0M	LS4L09,0x20,0S	LS4L09,0x20,0N
	13,0x20,0	LS4L13,0x17,0M	LS4L13,0x17,0S	LS4L13,0x17,0N
	11,0x20,0	LS4L11,0x20,0M	LS4L11,0x20,0S	LS4L11,0x20,0N
	13,0x20,0	LS4L13,0x20,0M	LS4L13,0x20,0S	LS4L13,0x20,0N
	14,0x20,0	LS4L14,0x20,0M	LS4L14,0x20,0S	LS4L14,0x20,0N
	17,0x20,0	LS4L17,0x20,0M	LS4L17,0x20,0S	LS4L17,0x20,0N



Plastic case for BLS tools and dies (Accessories)

**Accessories:**

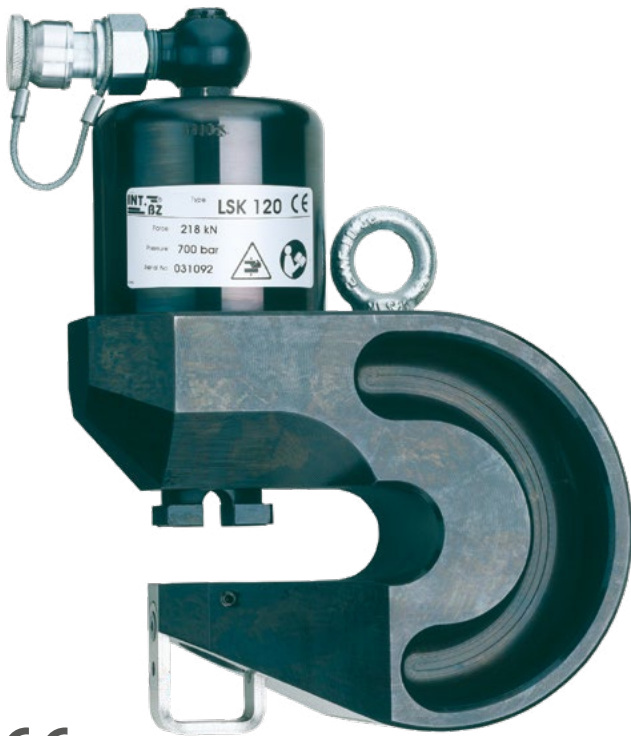
Description	Order No.	Dimensions	Weight
Trolley for BLS	BLS-W	800x500x750 mm	ca. 45 kg
Trestle for BLS	BLS-B	800x440 mm	ca. 5 kg
Plastic case for BLS	ACBLSWZG	400x250x250	6,5 kg
Spray Metallflux	SPRAY-M	400 ml	ca. 450 g



Spray for cutting and punching



Trolley/Trestle for positioning the Bus Bar Work Station on ergonomic high



### LSK120 - Hydraulic punching head

Designed to punch bus bars rails (dimensions up to 120 x 12mm) made of copper, aluminium or steel with tensile strength up to 470N/mm<sup>2</sup>. The hydraulic punching head must be combined with a hydraulic pump (maximum pressure 700bar/70MPa).

**Technical characteristics:**

- Strong and compact structure
- "C" head for easy positioning of the power rails
- Easy insertion of inserts (die and punch)
- Also useable on mounted bus bars without disassembly
- Quick automatic-lock connection and undetachable dust cap
- Centrally punched holes in bars up to 120 mm wide
- Functional range for the following bars:

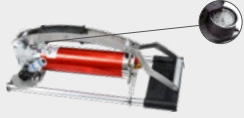











12 mm Cu/Al ..... max. Ø 21,0 mm  
 8 mm steel ..... max. Ø 21,0 mm  
 9 mm steel ..... max. Ø 19,5 mm  
 12 mm steel ..... max. Ø 14,0 mm  
 Punching force: ..... max. 218 kN  
 Operating pressure: ..... 700bar (70MPa)

Description	Order No.	Dimensions	Weight
Hydraulic punching head	<b>LSK120</b>	234x174x88 mm	ca. 9,3 kg
Rigid case	<b>KKLSK120</b>	400x365x135 mm	ca. 1,8 kg



Description	Ø	Female die	Puncher
Round hole punch and female dies for solid rails	6,0 mm	LSR06,0M	LSR06,0S
	6,5 mm	LSR06,5M	LSR06,5S
	7,0 mm	LSR07,0M	LSR07,0S
	8,0 mm	LSR08,0M	LSR08,0S
	8,5 mm	LSR08,5M	LSR08,5S
	9,0 mm	LSR09,0M	LSR09,0S
	10,0 mm	LSR10,0M	LSR10,0S
	10,5 mm	LSR10,5M	LSR10,5S
	11,0 mm	LSR11,0M	LSR11,0S
	12,0 mm	LSR12,0M	LSR12,0S
	12,5 mm	LSR12,5M	LSR12,5S
	13,0 mm	LSR13,0M	LSR13,0S
	13,5 mm	LSR13,5M	LSR13,5S
	14,0 mm	LSR14,0M	LSR14,0S
	14,5 mm	LSR14,5M	LSR14,5S
	15,0 mm	LSR15,0M	LSR15,0S
	16,0 mm	LSR16,0M	LSR16,0S
	17,0 mm	LSR17,0M	LSR17,0S
	18,0 mm	LSR18,0M	LSR18,0S
	18,5 mm	LSR18,5M	LSR18,5S
	19,0 mm	LSR19,0M	LSR19,0S
19,5 mm	LSR19,5M	LSR19,5S	
20,0 mm	LSR20,0M	LSR20,0S	
21,0 mm	LSR21,0M	LSR21,0S	



Pump		Operation	Set equipment (pump + ...)
FPI70		Foot	<ul style="list-style-type: none"> <li>• Metal case</li> <li>• Pressure gauge</li> </ul>
FPI70S		Foot	<ul style="list-style-type: none"> <li>• Flexible hose 3m</li> <li>• Metal case</li> <li>• Pressure gauge</li> </ul>
FPI70 EC		Foot	<ul style="list-style-type: none"> <li>• Metal case</li> </ul>
FPI70S EC		Foot	<ul style="list-style-type: none"> <li>• Flexible hose 3m</li> <li>• Metal case</li> </ul>
CP700		<p>Battery</p> <p>↳ Main adapter available</p>	<ul style="list-style-type: none"> <li>• Battery and charger</li> <li>• Flexible hose 1,5 m</li> <li>• Remote control 1,5 m</li> <li>• USB-cable</li> <li>• Nylon bag with shoulder strap</li> </ul>
CP700 EC		<p>Battery</p> <p>↳ Main adapter available</p>	<ul style="list-style-type: none"> <li>• Battery and charger</li> <li>• Flexible hose 1,5 m</li> <li>• Remote controle 1,5 m</li> <li>• USB-Cable</li> <li>• Nylon bag with shoulder strap</li> </ul>
ANP24/220		Battery or Mains	<ul style="list-style-type: none"> <li>• Remote controle 5 m</li> <li>• Power cord 3 m</li> <li>• Shoulder strap</li> </ul>
NP220		Mains	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>
90404		Mains	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>
90418		Mains	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>
90415		Mains	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>
91421		Mains	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>



**HYDRAULIC PUMPS**

**CP700 - Compact hydraulic pump with battery**

Designed to operate hydraulic tools up to 700bar (70MPa).

**Technical characteristics:**

- Light, compact and robust structure
- Body made of polyamide reinforced with fibreglass, completely insulating and shock resistant
- Long lifetime due to a lifting magnet. First service after 20000 cycles
- Possibility of reading all the data of the working cycles and error indications through USB interface
- Double piston technology for rapid high pressure feed
- Individual programs for cutting and crimping
- Freely programmable pump (only model CP700)
- Anti-scratch and shock resistant display protection
- Possibility of reading the curves on PC and on the pump display (only model CP700)

- Operating pressure: 700 bar (70 MPa)
- High performance lithium ion battery 5,0 Ah
- Charge indicator on the battery
- Flow range at low pressures < 100 bar: 1.2 lit./min.
- Flow range at pressures up to 700 bar: 0.2 lit./min.
- Power: 200 W
- Battery voltage: 18,0 V DC
- Range of use: -20°C / +55°C (integrated cooling system)
- Remote control (1.5 m) two buttons and LED indicator
- Possibility to attach the remote control to the unit with the integrated magnet
- A belt or shoulder strap can be added through a clamp support
- Optional transportation bag with pockets, with a shoulder strap or attached to a belt (optional)
- Including software

Tool dimensions: 290 x 190 x 205 mm  
Tool weight: 4,5 kg



**Battery operated hydraulic pump**

Order No.	Description	Tool weight
CP700	Battery operated hydraulic pump - set	4,5 kg
CP700EC	Battery operated hydraulic pump - set	4,5 kg

**Battery operated hydraulic pump - set equipment:**

- Compact hydraulic pump
- Battery 18 V/5,0 Ah lithium-ion (RA50)
- Battery charger (LG8)
- Flexible high pressure hose – length 1,5 m
- Remote control 1,5 m (CP-F)
- Shoulder strap (TG3)
- USB cable + software
- Comfortable sturdy nylon bag







FPI70



Pressure gauge and tilting coupling is standard on FPI70 and FPI70s models (not on models "-EC")



FPI70S



FPI70S EC



FPI70 EC

Hose must be ordered separately



Set FPI70

## FPI70 / FPI70-EC – Foot operated hydraulic pump

Designed to operate hydraulic tools up to 700bar (70MPa).

### Technical characteristics:

- Compact dimensions
- Lightweight due to use of light alloys and corrosion-resistant materials
- Handy and stable due to a firm fitting pedal and sturdy non slip base
- Automatic two speed device (fast advancing under no-load and slow under load)
- Tilting system for coupler (not on models "-EC")
- Pressure monitoring by oil pressure gauge (not on models "-EC")
- Manual pressure release at any time
- High mounted quick release coupling with dust cap
- Operating pressure: 700 bar (70 MPa)
- Low pressure pump capacity: 18,3 cm<sup>3</sup>/stroke
- High pressure pump capacity: 2 cm<sup>3</sup>/stroke
- Amount of oil: 1200 ml
- Operating temperature: -20°C to a +40°C

### Tool dimensions:

- FPI70: 570 x 230 x 209 mm
- FPI70S: 570 x 230 x 209 mm
- FPI70 EC: 545 x 212 x 198 mm
- FPI70S EC: 545 x 212 x 198 mm

### Foot operated hydraulic pump with pressure gauge

Order No.	Description	Tool weight
FPI70	Foot operated hydraulic pump -set	9,6 kg
FPI70S	Foot operated hydraulic pump with 3 m hose - set	10,9 kg

### Foot operated hydraulic pump (ECO)

Order No.	Description	Tool weight
FPI70 EC	Foot operated hydraulic pump - set	9,6 kg
FPI70S EC	Foot operated hydraulic pump with 3 m hose - set	10,3 kg

#### Set equipment FPI70:

- Foot operated pump with oil pressure gauge
- Metal case

#### Set equipment FPI70S:

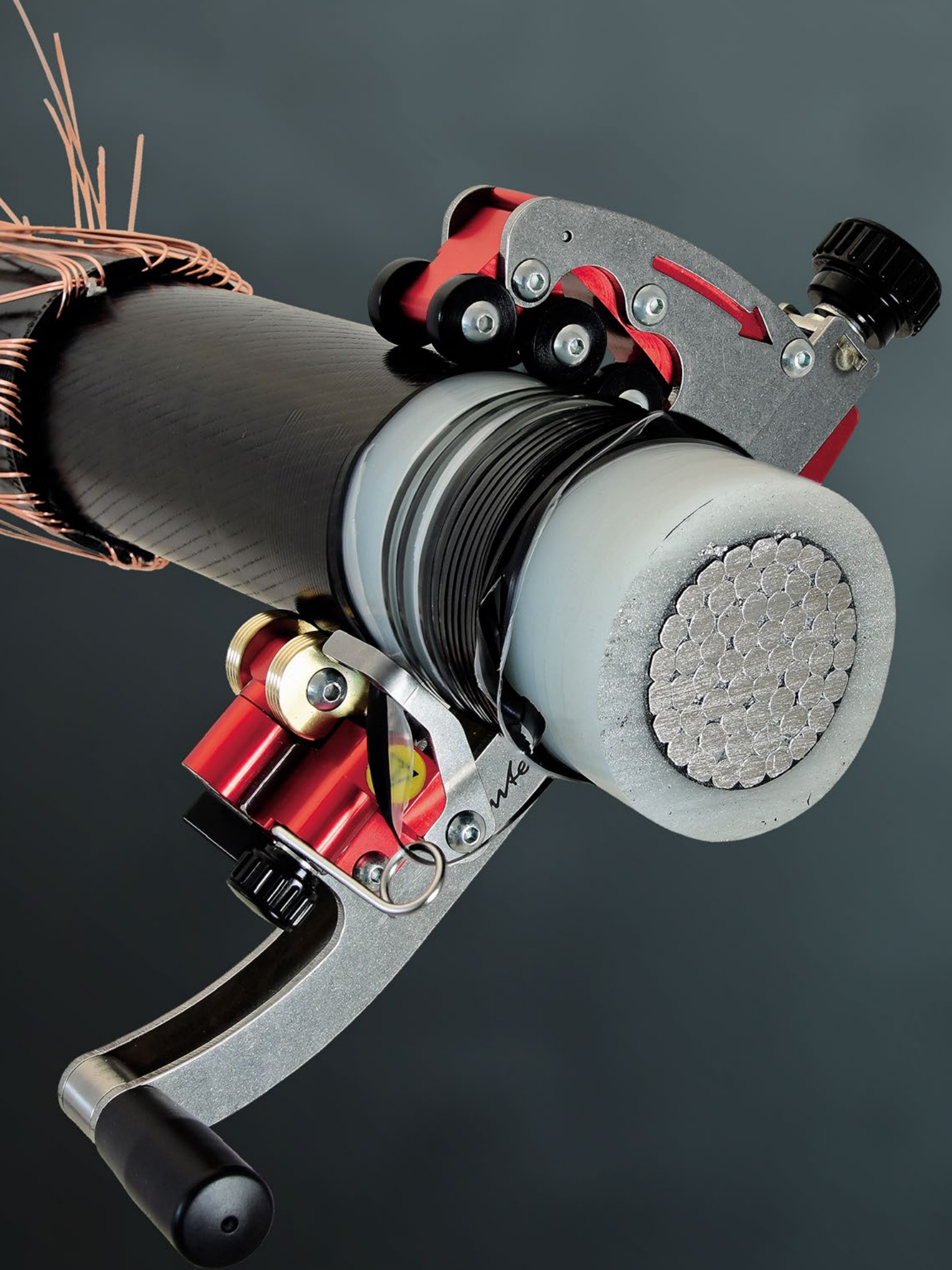
- Foot operated pump with oil pressure gauge
- Flexible hose 3 m
- Metal case

#### Set equipment FPI70 EC:

- Foot operated pump
- Metal case

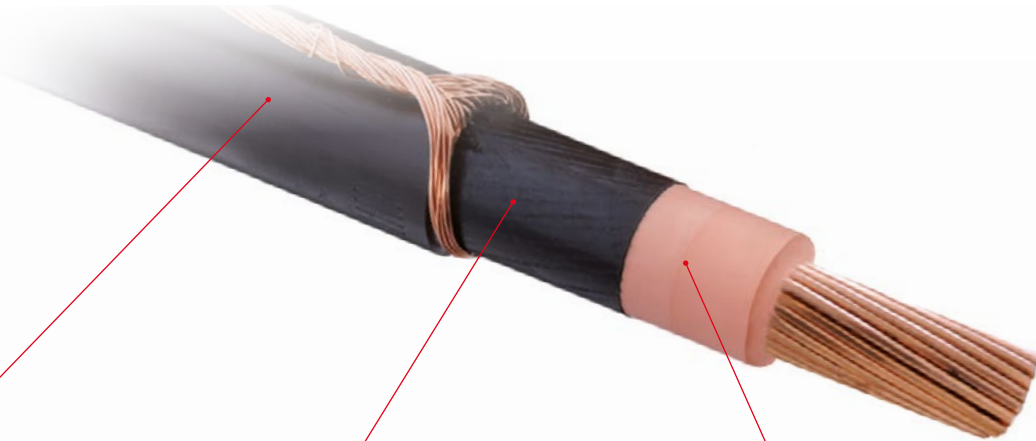
#### Set equipment FPI70S EC:

- Foot operated pump
- Flexible hose 3 m
- Metal case





STRIPPING TOOLS - OVERVIEW



STRIPPING TOOLS FOR EXTERNAL INSULATION



AB16 (0,03 - 16 mm<sup>2</sup>)    PTS4 (0,2 - 6 mm<sup>2</sup>)    AV8203 (6 - 16 mm<sup>2</sup>)

ABI1 (Ø 4,5 - 29 mm)



AMS / AMS 1000V AV6220 / 17130 (Ø > 25 mm)



AMS MAXI AV6240 (Ø > 45 mm)

AMX 17300 (Ø 16 - 54 mm)



AIS 17190 (Ø 16 - 54 mm)



FSI 150 17170 (16 - 150 mm<sup>2</sup>)



FSI AE6200 (rigid, single 10 mm<sup>2</sup>, flexi 2,5-4-6 mm<sup>2</sup>)



1609076 (Ø 20 - 76 mm)



STRIPPING TOOLS FOR SEMICONDUCTOR LAYERS

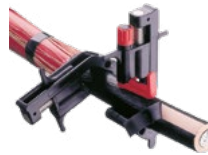
FBS 17220 (Ø 10 - 52 mm vulcanized, bonded)



FBS II (Ø 16 - 58 mm vulcanized) 17250 (17°) 17252 (8°)



HLS AV6400 (Ø 16 - 41 mm peelable)



HLS MAXI AV6460 (Ø 35 - 60 mm peelable)

STRIPPING TOOLS FOR PRIMARY INSULATION

IMS 20KV AV6310 (25 - 240 mm<sup>2</sup>)



AV63300 (300 mm<sup>2</sup>), AV63400 (400 mm<sup>2</sup>)



IMS II 17230 (Ø 15 - 52 mm)



UFS 17240 (Ø 15 - 60 mm)



IMS III 17260 (Ø15 - 58 mm)



Video playlist

# ABI 1

## THE CABLE JACKET REMOVER

for cables with diameter 4,5 - 29 mm

### Precision

Cutting depth adjustable in steps of 0.1 mm up to 3 mm, thus no damage to the underlying layers of the cable

### Efficiency

Blade suitable for all types of cable insulation

### Safety

The innovative design ensures an injury-free working

### Versatile

Setting of round, longitudinal and spiral cuts

### Handling & cleverness







No tilting due to axial pulling of the tool in the longitudinal direction;  
Clever block system for avoiding the blade breakage due to misuse

### Ergonomics





The optimally adapted shape of the tool enables fatigue-free working



Video ABI1

STRIPPING TOOLS / ORDER NO.	APPLICATION RANGE	INFO	LENGTH, WEIGHT
 PTS4	0,2 - 6 mm <sup>2</sup>	<ul style="list-style-type: none"> <li>• For commercial flexible cables</li> <li>• With cutting function</li> </ul>	170 mm, 0,2 kg
 AB16	0,03 - 16 mm <sup>2</sup>	<ul style="list-style-type: none"> <li>• For commercial cables</li> <li>• With cutting function</li> </ul>	210 mm, 0,35 kg  spare blade set including the red angle plate: <b>EM16</b>  spare blade for PTEE insulation 0,14 - 4 mm <sup>2</sup> : <b>EM16V</b>
 AV8203	6 - 16 mm <sup>2</sup>	<ul style="list-style-type: none"> <li>• For any type of cables</li> <li>• Especially for shielded cables</li> </ul>	170 mm, 0,12 kg
 ABI1	 Video ABI1  diameter 4,5 - 29 mm	<ul style="list-style-type: none"> <li>• For all common insulations</li> <li>• Round, longitudinal and spiral cuts</li> <li>• Cutting depth adjustable in steps of 0.1 mm up to 3 mm using the rotary knob (clockwise)</li> <li>• No damage on the underlying layer</li> <li>• Clever block system prevent the breakage of the blade due to misuse</li> <li>• Special sliding properties ensures the resistance-free work</li> <li>• Hardened special blade</li> </ul>	140 mm, 0,15 kg  spare blade: <b>EM1</b>
 AV8270	1,5 - 10 mm <sup>2</sup>	<ul style="list-style-type: none"> <li>• For common photovoltaic cables</li> <li>• With cutting function up to Ø 3 mm</li> <li>• Optical length measurement up to 26 mm</li> </ul>	215 mm, 0,45 kg

STRIPPING TOOLS

STRIPPING TOOLS / ORDER NO.	APPLICATION RANGE	INFO	LENGTH, WEIGHT
 AV3801	diameter 8 - 28 mm	<b>Cable knife</b> <ul style="list-style-type: none"> <li>• For all common round cables</li> </ul>	135 mm, 0,09 kg spare blade: AV3899
 AV3820	diameter 4 - 28 mm	<b>Cable knife with hook blade</b> <ul style="list-style-type: none"> <li>• For all common round cables</li> <li>• With adjustable cutting depth</li> </ul>	145 mm, 0,07 kg
 AV3825	diameter 4 - 28 mm  fix stripping spots for: 0,5 - 6 mm <sup>2</sup>	<b>Cable knife with fix strippers</b> <ul style="list-style-type: none"> <li>• For all common round cables</li> <li>• With adjustable cutting depth</li> <li>• With fix stripping spots</li> </ul>	145 mm, 0,07 kg
 AV8230	diameter 8 - 13 mm  fix stripping spots for: 0,5 - 6 mm <sup>2</sup>	<b>Cable knife MULTI</b> <ul style="list-style-type: none"> <li>• For all common round cables</li> <li>• With fix stripping inserts</li> <li>• With cutting function</li> </ul>	125 mm, 0,08 kg
 AV8240	diameter 8 - 13 mm	<b>Quadro stripping tool with hook blade</b> <ul style="list-style-type: none"> <li>• For all common round cables</li> <li>• Integrated stripping area</li> <li>• Quick longitudinal cut with optimal cable routing</li> <li>• Retractable hook blade, can be locked</li> </ul>	125 mm, 0,08 kg

Check out our knives, see page 28!



	STRIPPING TOOLS FOR REMOVING THE CABLE SHEATHS	ORDER NO. / INFO
FSI		<p style="text-align: right;">AE6200</p> <p>FSI set for flexible single pole cables: 2,5 - 4 - 6 mm<sup>2</sup> for rigid single pole: 10 mm<sup>2</sup></p> <ul style="list-style-type: none"> <li>• 20 mm stripping length</li> <li>• In this set: stripping tool, easy bag; 0,15 kg</li> </ul> <p style="text-align: right;">  </p>
AMS	 <p style="text-align: right;"><i>Video</i> AMS</p>	<p style="text-align: right;">AV6220</p> <p>AMS set for LV and MV cable sheaths / PVC, RUBBER Insulation thickness: 0 - 5 mm / Cable Ø &gt; 25 mm</p> <ul style="list-style-type: none"> <li>• Longitudinal and circular cuts</li> <li>• Designed to strip ends and or middle parts</li> <li>• Stripping without hurting the lower layers</li> <li>• Interchangeable two-sided blade / Spare blade Order No.: AV6299</li> <li>• In this set: stripping tool, plastic case; 0,2 kg</li> </ul> <p>Tool versions: AMS 1000V / 17130: for working on live parts up to 1000V AC und 1500V DC AMS MAXI / AV6240: for HV and PE insulated cables too, Ø &gt; 45 mm</p>
AMX	 <p style="text-align: right;"><i>Video</i> AMX</p>	<p style="text-align: right;">17300</p> <p>AMX set for LV and MV cable sheaths / PVC, PE, PE with bonded Al Insulation thickness: 0 - 5 mm / Cable Ø 16 - 54 mm</p> <ul style="list-style-type: none"> <li>• Longitudinal and circular cuts</li> <li>• Additional claw to break hard insulation</li> <li>• The cutting depth is adjustable in steps of 0,1 mm</li> <li>• Functions to make the work very precise and clean at ease</li> <li>• In this set: basic tool 17300, feed lever 17094, allen-key, easy bag; 1,3 kg</li> <li>• Spare blade Order No.: 17301</li> </ul>
AIS	 <p style="text-align: right;"><i>Video</i> AIS</p>	<p style="text-align: right;">17190</p> <p>AIS set for LV/MV cable sheaths / PVC, PE, PE with bonded Al Insulation thickness: 0 - 5 mm / Cable Ø 16 - 54 mm</p> <ul style="list-style-type: none"> <li>• Longitudinal and circular cuts</li> <li>• Designed to strip ends or middle parts</li> <li>• Hooked blade for removing the sheath that has been cut</li> <li>• 100° tool rotation makes a complete 360° circumference cut</li> <li>• In this set: basic tool 17196, feed lever 17094, 10x14 pcs colored washers, 2 blade-fasten screws in spare, allen-key, rigid resin case; 2 kg</li> <li>• Spare blade Order No.: 17195</li> </ul> <p style="text-align: right;">  </p>
FSI 150		<p style="text-align: right;">17170</p> <p>FSI 150 set for insulated overhead cables with double insulation with pre-set stripping heads 6 - 150 mm<sup>2</sup></p> <ul style="list-style-type: none"> <li>• Stripping depth adjustment built inside the handle</li> <li>• Insulated handle with bayonet connection</li> <li>• Stripping length adjustable from 20 to 80 mm</li> <li>• Scale marked on the built-in device to display the preset length</li> <li>• Interchangeable blades in the stripping heads</li> <li>• In this set: handle 17171, 6x stripping heads, 3x spare blades, allen-key, rigid resin case; 0,95 kg</li> <li>• Spare blade Order No.: 17179</li> </ul> <p style="text-align: right;">  </p>

# FBS II

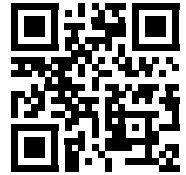
CABLE STRIPPER FOR VULCANIZED SEMICONDUCTIVE LAYER  
USABLE **WITHOUT** SILICON

## Handling

Shift lever for activation/  
deactivation of the axial feed  
enables an optimal guidance and  
precise circular cut

## Agility

Movable roller system  
adapts optimally to small  
and large diameters,  
no silicon required



Video FBS II

## Precision

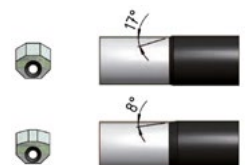
Special blade grind and  
adjustable cutting depth  
ensures a surface on the  
smooth primary insulation

## Range








Application range for MV-  
cables up to 1.000mm<sup>2</sup> /  
16-58mm Ø

## High quality

Light and robust design  
through the use of light  
metals and stainless INOX

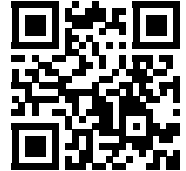




STRIPPING TOOLS FOR THE SEMICONDUCTIVE LAYERS		ORDER NO. / INFO
FBS	   <p><i>Video</i> FBS</p>	<p style="text-align: right;">17220</p> <p>FBS set for vulcanized, extruded, bonded semiconductive layer Insulation thickness: 0 - 5 mm / Cable Ø 10 - 52 mm</p> <ul style="list-style-type: none"> <li>• Axial feed activation/deactivation device (usable in both directions)</li> <li>• Stripping can be done starting from any position on the cable</li> <li>• Optimal sliding properties thanks to coated contact surface</li> <li>• Cutting depth adjustable from 0 to 1.5 mm</li> <li>• Cutting depth can be limited or blocked</li> <li>• Interchangeable blade</li> </ul> <p>• In this set: stripping tool 17221, allen-key, a tube of silicon grease AG1013, rigid resin case; 0,8 kg</p> <p>• Spare blade (17°) Order No.: 17142 • Spare parts kit ( 2x plates, 1x roll, screws) Order No.: 17145</p>
FBS II	   <p><i>Video</i> FBS II</p>	<p style="text-align: right;">17250</p> <p>FBS II set for vulcanized, extruded, bonded semiconductive layer Insulation thickness: 0 - 5 mm / Cable Ø 16 - 58 mm</p> <p>IT WORKS SMOOTHLY WITHOUT SILICON GREASE</p> <ul style="list-style-type: none"> <li>• Axial feed activation/deactivation device (usable in both directions)</li> <li>• Stripping can be done starting from any position on the cable</li> <li>• Optimal sliding properties thanks to coated contact surface</li> <li>• Cutting depth adjustable from 0 to 1.5 mm</li> <li>• Cutting depth can be limited or blocked</li> <li>• Interchangeable blade</li> </ul> <p>• In this set: stripping tool 17251, allen-key, easy bag; 1 kg • Spare blade (17°) Order No.: 17142</p>
HLS	 	<p style="text-align: right;">AV6400</p> <p>HLS set for non vulcanized, peelable semiconductive layer Insulation thickness: 0 - 2 mm / Cable Ø 16 - 41 mm</p> <ul style="list-style-type: none"> <li>• Longitudinal, helical and circular cuts</li> <li>• Stop clamp to limit the stripping length</li> <li>• Gradually depth adjustment</li> <li>• The incision depth can be adjusted from 0 to 0,9 mm with 0,1 mm steps each by turning the corresponding knob</li> <li>• The start of longitudinal incision can be done in exact correspondence with the circumferential incision</li> </ul> <p>• In this set: stripping tool AV6410, stop clamp AV6411, a tube of silicon grease AG1013, rigid resin case; 0,6 kg</p> <p>Tool version: HLS MAXI / AV6460: for peelable layer of cables Ø 35 - 60 mm</p>

# IMS III

## CABLE STRIPPER FOR PRIMARY INSULATIONS FOR MV/HV CABLES WITHOUT SILICON



*Video* IMS III



100%  
MADE IN  
ITALY

### Handling

Shift lever for activation/  
deactivation of the axial feed  
enables an optimal guidance and  
precise circular cut

### Agility

Movable roller system  
adapts optimally to small  
and large diameters,  
no silicon required

### Precision

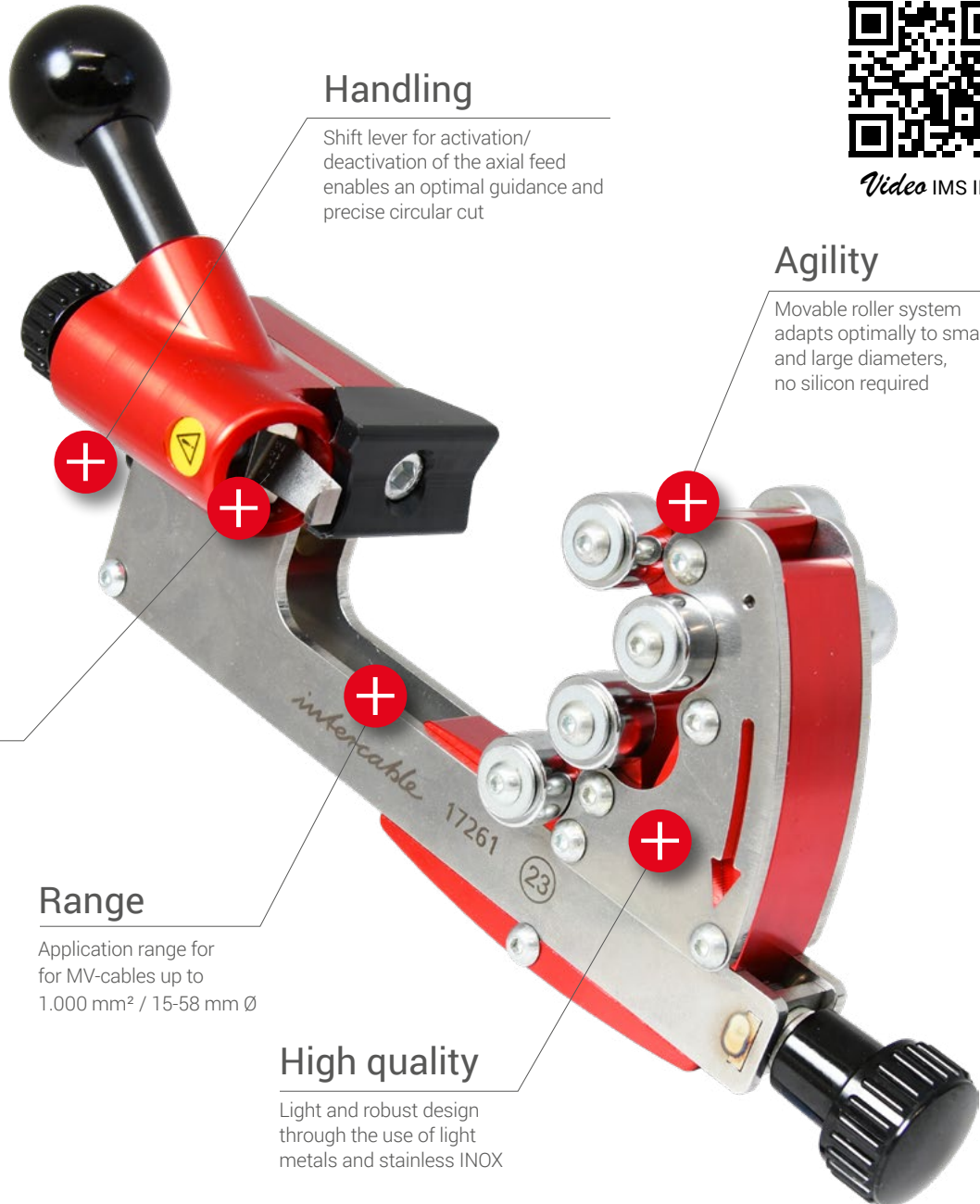
Special blade grind and  
adjustable cutting depth  
ensures no damage on the  
conductor.

### Range

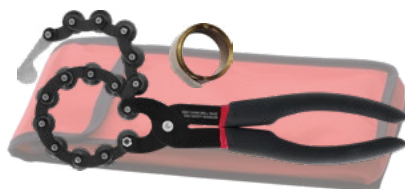
Application range for  
for MV-cables up to  
1.000 mm<sup>2</sup> / 15-58 mm Ø

### High quality

Light and robust design  
through the use of light  
metals and stainless INOX



STRIPPING TOOLS FOR REMOVING THE PRIMARY INSULATION		ORDER NO. / INFO
IMS	 <p>Video IMS</p>	<p>AV6310</p> <p>IMS 20 kV set for any type of primary insulations of MV cables with pre-adjusted stripping heads 25 - 240 mm<sup>2</sup></p> <ul style="list-style-type: none"> <li>• Stripping length adjustable from 20 to 100 mm using the device integrated in the handle</li> <li>• Scale marked on the handle for preset stripping length</li> <li>• Handle with bayonet connection</li> <li>• Interchangeable blade</li> </ul> <p>• In this set: stripping tool AV6300, 9x stripping heads 25 - 240 mm<sup>2</sup>, rigid resin case; 0,6 kg</p>
IMS II	 <p>Video IMS II</p>	<p>17230</p> <p>IMS II set for any type of primary insulations of MV cables Insulation thickness: 0 - 15 mm / Cable Ø 15 - 52 mm</p> <ul style="list-style-type: none"> <li>• Spiral and circular cuts , depth adjustable from 0 to 15 mm</li> <li>• Optimal sliding properties thanks to coated contact surface</li> <li>• Feed can be selected in 5 stages with unlimited stripping length</li> <li>• In this set: stripping tool 17231, allen-key, a tube of silicon grease AG1013, rigid resin case; 1 kg</li> </ul> <p>• Spare blade Order No.: 17132 • Spare parts kit ( 2x plates, 1x roll, screws) Order No.: 17135</p>
IMS III	 <p>Video IMS III</p>	<p>17260</p> <p>IMS III set for any type of primary insulations of MV cables Insulation thickness: 0 - 15 mm / Cable Ø 15 - 58 mm</p> <p>IT WORKS SMOOTHLY WITHOUT SILICON GREASE</p> <ul style="list-style-type: none"> <li>• Spiral and circular cuts , depth adjustable from 0 to 15 mm</li> <li>• Optimal sliding properties thanks to coated contact surface</li> <li>• Feed can be selected in 2 stages with unlimited stripping length</li> <li>• In this set: stripping tool 17261, allen-key, easy bag; 1,1 kg</li> </ul> <p>• Spare blade Order No.: 17132</p>
UFS	 <p>Video UFS</p>	<p>17240</p> <p>UFS set for chamfering any type of primary insulations of MV cables Cable Ø 15 - 60 mm</p> <ul style="list-style-type: none"> <li>• Chamfering with blades 2 x 45°</li> <li>• Optimal sliding properties thanks to coated contact surface</li> <li>• In this set: chamfering tool 17241, allen-key, easy bag; 0,39 kg</li> </ul> <p>• Spare blade Order No.: 17242</p>











1609076

Roller chains cutter for cutting armour wires

Order No.	Description	Weight
1609076	Set: Roller chains cutter	0,8 kg
APPLICATION RANGE	Ø 20 - 76 mm	
SUGGESTED APPLICATION	Armoured cables	

STRIPPING TOOLS

MULTI TOOL SET ORDER NO.:		1799001	1799002	1799004	1799016 working without silicon
FOR REMOVING THE CABLE SHEATHS	AMS 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	AIS 	<input checked="" type="checkbox"/>			
	AMX 			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FOR SEMICONDUCTIVE LAYERS	FBS 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	FBS II WORKING WITHOUT SILICON 				<input checked="" type="checkbox"/>
FOR REMOVING THE PRIMARY INSULATION	IMS II 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	IMS III WORKING WITHOUT SILICON 				<input checked="" type="checkbox"/>
FOR CHAMFERING THE PRIMARY INSULATION	UFS 			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Check out more multi tool sets!



including silicon



including silicon,  
knife, scissors



including silicon



no need of silicon



### Tool kit for cable jointers - 12/20kV/MS cable

Order No.: AG2020

**including:**

- Case ..... AG2000
- 1/20 sliding caliper 150 mm ..... AG1001
- Measuring rod 3 m ..... 7406030
- Steel brush for files ..... AG1014
- Rasp without handle ..... AG1005
- Half round file with handle ..... AG1004
- Screwdriver slotted screws 3x100 mm FII ..... 1301030
- Screwdriver slotted screws 4x100 mm FII ..... 1301040
- Screwdriver slotted screws 5x125 mm FII ..... 1301055
- Ball-point screwdriver hex socket 6 mm FII ..... 1305060
- Mallet 300 g ..... 7130582
- Mallet Ø 35 mm ..... AG1010
- Sheath spreader ..... AG1011
- Special electricians' scissors ..... 16011
- Cable knife with interch. blade ..... AV3920
- Spare blade for AV3920 ..... AV3921
- Knife with trapezoidal blade ..... AV3910
- 3 spare blades for AV3910 ..... AV3911
- High precision lens with light ..... AG1012
- Universal pliers 180 mm ..... AP0119 N
- Cable cutter 160 mm ..... AP1017
- Tube of silicone grease ..... AG1013
- 2,5 mm Allen wrench ..... 1710 0



### Cable cleaning liquid and wipes

Description	Dimensions	Content	Order No.
Liquid cleaner	135 x 100 x 220 mm	2 l	AV4901
Wipes	500 x 380 mm	50 pcs	AV4902

**Cleaning liquid:**

- Low boiling point: 42°C
- Excellent solubility with water up to 33%
- Non-flammable
- Non-toxic and biodegradable
- According to CEE Directive 91/155 of March 5, 1991

**Wipes:**

- To be used in combination with the cable cleaning liquid
- Special lint-free fabric
- Antistatic



**GENERAL HAND TOOLS - PLIERS**



ISO 5746  
UNI 9894  
VDE 0682-201

**Slim**

Easier working in  
hard-to-reach workareas



**Wear-resistant**

Made of high-alloyed tool steel, edges  
specially hardened, surface chrome-plated

**Smooth**

One-hand operation through  
special smooth joint

**Powerful**

Extra long cutting edges for large  
cable cross-sections, suitable for  
cutting soft and hard wire,  
as well as piano wire

**Ergonomic**

Ergonomically shaped, non-slip  
2-component handles for maximum  
power transmission

**Environmentally friendly**

Skin-friendly, special plastic material free of  
cadmium and heavy metals



**Combination pliers**



Order No.	Length	Weight
1201160	160 mm	218 g
1201180	180 mm	250 g
1201200	200 mm	282 g

**Flat-nosed pliers**



Order No.	Length	Weight
1206160	160 mm	170 g

**Telephone pliers, straight**



Order No.	Length	Weight
1203160	160 mm	170 g
1203200	200 mm	208 g

**Telephone pliers, bent 45°**



Order No.	Length	Weight
1204160	160 mm	164 g
1204200	200 mm	206 g



Round-nosed pliers



Order No.	Length	Weight
1207160	160 mm	154 g

Side cutting pliers



Order No.	Length	Weight
1202160	160 mm	198 g

Stripping plier



Order No.	Length	Weight
1205160	160 mm	190 g

Water-pump pliers, 7 phases



Order No.	Length	Weight
1110250	240 mm	398 g

Gripping pliers ISOplus insulated 2K



Order No.	Length	Weight
11091	180 mm	140 g

- gripping surface with 8 indentations for various cable diameters
- no exposed metal parts, no blades

Combination pliers ISOplus insulated 2K



Order No.	Length	Weight
11092	190 mm	147 g

- for Cu and Al cables with maximum 16 mm<sup>2</sup>, with extra long blades
- gripping surface with 3 indentations for various cable diameters

Telephone pliers ISOplus insulated 2K



Order No.	Length	Weight
11095	200 mm	138 g

- toothed gripping surface, slim head
- no exposed metal parts

Cable cutting pliers ISOplus insulated 2K D15



Order No.	Length	Weight
11094	170 mm	150 g

- for Cu and Al cables with maximum 50 mm<sup>2</sup>



GENERAL HAND TOOLS - CUTTERS, KNIVES, SCISSORS

Cable cutting VDE D17



Order No.	Length	Weight
1604160	160 mm	220 g

• for Al / Cu cables up to D 17 mm, ~ 50 mm<sup>2</sup> fine stranded cables

Cable cutting VDE D22



Order No.	Length	Weight
1604200	200 mm	360 g

• for Al / Cu cables up to D 22 mm, ~ 70 mm<sup>2</sup> fine stranded cables

Cable knife / standard



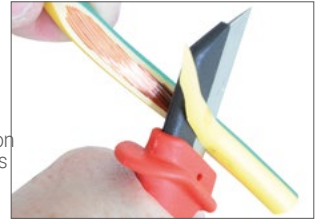
- 1000V insulated tool
- With replaceable standard very sharp blade (thickness 0,65 mm)
- Made of shock-proof material

Description	Order No.	Blade	Length
Cable knife / standard	AV3910	interch. 50 mm	185 mm
Spare blade / standard	AV3911	-	50 mm

Cable knife / special steel



- 1000V insulated tool
- With replaceable special shaped stripping blade - that cuts the insulation without damaging the conductor wires
- Made of shock-proof material



Description	Order No.	Blade	Length
Cable knife / special steel	AV3920	interch. 50 mm	185 mm
Spare blade / special steel	AV3921	-	50 mm
Cable knife / special ceramic	AV3930	fixed 46 mm	185 mm

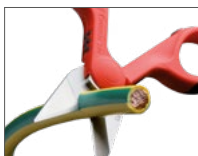
Electricians' scissors for cutting, stripping and crimping on cables - F1 style



Description	Order No.	Length
F1 Electricians' scissors 3 in 1 with safety box	16020-F1	160 mm

- To cut Cu/Al cables up to 50 mm<sup>2</sup>
- With slot to crimp insulated or non insulated end-sleeves from 0,5 to 4 mm<sup>2</sup>
- Blades with optimized teeth
- High cutting performance
- Loose-free screw/pin hinge
- 2 component handle

Attention: Not suitable for work under voltage!



it cuts Cu/Al cables up to 50 mm<sup>2</sup>



special hard blade designed for cable cutting and stripping



adjustable tightness of the blades



it crimps end-sleeves up to 4 mm<sup>2</sup>



Product page and demo  
**Video**





# THE QUALITY AND THE UNIQUE INTERCABLE DESIGN

These series of SLIM screwdrivers are the result of extensive studies performed in cooperation with numerous electrical installers



Standard:  
VDE 0682 / 201



**SLIM**  
Very thin insulated blade diameter for a smooth workability in limited space

**Ergonomic**  
Handles in non-slip material, guarantee the maximum force application with minimum fatigue

**Safety**  
Every single tool is tested according to IEC 60900

**High quality**  
Blade in high resistance chrom-vanadium-molybdenum-steel, hardened, with surface burnish protection.

**Precision**  
Accuracy of the form, it fits perfectly to the corresponding screw head



Identification lens for an easy choice of the proper screwdriver  
Color codification:

		For slotted head screws yellow			For hex-head screws violet
		For "Phillips"-head screws red			For <b>TORX</b> ® head screws blue
		For "Pozidriv"-head screws green			For combined "Phillips"-head screws red / yellow
		For hex socket-head screws white			For combined "Pozidriv"-head screws green / yellow



registered trademark of CAMCAR TEXTRON,  
Rockford, Illinois, USA



Screwdriver for slotted head screws – FUTUR II

Type	Order No.				
Type	Order No.	mm	mm	mm	mm
	1301025	2,5	75	0,4	175
	1301030	3,0	100	0,5	200
	1301035 *	3,5	100	0,6	200
	1301040 *	4,0	100	0,8	200
	1301045 *	4,5	125	1,0	230
	1301055 *	5,5	125	1,0	230
	1301065 *	6,5	150	1,2	255
	1301080	8,0	175	1,2	290
	1301100	10,0	200	1,6	320



Screwdriver for "Phillips" screws – FUTUR II

Type	Order No.			
Type	Order No.	mm	mm	mm
	13020	0	60	160
	13021 *	1	75	175
	13022 *	2	100	205
	13023	3	150	265
	13024	4	200	320



Screwdriver for "Pozidriv" screws – FUTUR II

Type	Order No.			
Type	Order No.	mm	mm	mm
	13030	0	60	160
	13031 *	1	75	175
	13032 *	2	100	205
	13033	3	150	265



Combination screwdriver "Phillips" – FUTUR II

• For combined Slotted-/Intersecting slot screws in electrical systems

Type	Order No.			
Type	Order No.	mm	mm	mm
	13131 *	1	80	180
	13132 *	2	100	205



Combination screwdriver "Pozidriv" – FUTUR II

• For combined Slotted-/Intersecting slot screws in electrical systems

Type	Order No.			
Type	Order No.	mm	mm	mm
	13141 *	1	80	175
	13142 *	2	105	205



\* SLIM types



DE CE 1000V IEC 60900

Screwdriver for hexagon socket screws – FUTUR II

Type	Order No.	mm	mm	mm
	1304025	2,5	75	175
	1304030	3	75	180
	1304040	4	75	180
	1304050	5	75	190
	1304060	6	100	215
	1304080	8	100	220

Screwdriver for hexagon screws – FUTUR II

Type	Order No.	mm	mm	mm
	1306040	4	125	225
	1306050	5	125	225
	1306055	5,5	125	225
	1306060	6	125	230
	1306070	7	125	230
	1306080	8	125	230
	1306090	9	125	230
	1306100	10	125	240
	1306110	11	125	240
	1306120	12	125	240
	1306130	13	125	240

**TORX®** Screwdriver – FUTUR II

Type	Order No.	mm	mm	mm
	1307010	10	60	160
	1307015	15	75	175
	1307020	20	75	180
	1307025	25	75	180
	1307030	30	100	215

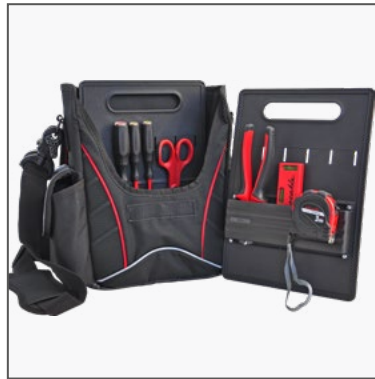
Phase screwdriver

Order No.	mm	mm	mm
AV6104	3,0	65	140
AV6105	3,5	105	190

Screwdrivers included in set	Order No.
Slot 4,, Slot 5,5, PH1, PH2	1399001
Slot 3, Slot 4, Slot 5,5, Slot 6,5	1399002
PH0, PH1, PH2	1399003
PZ0, PZ1, PZ2	1399004
PH1, PH2	1399005
PZ1, PZ2	1399006



TOOL CASES



Check out our  
tool cases!



### Universal cabinet key in pocket format

- Designed to use in opening and closing electric panels and the most common systems of closure
- Suitable for all common electrical panels and cabinets
- Five different key profiles
- The magnetic attachment gives the possibility to use the key with any type of bit

Order No.	Additional bit		Standard bits			
QUATTRO		11,5 x 6 mm Triangular key				
QUATTRO-D		10 x 7,4 x 2 mm Square key				
QUATTRO-S		10 x 7 mm Daimler Benz key	10 x 6,5 mm 6.3 Bit magnetic attachment	14 x 8 mm Square key insert	14 x 9 mm Triangular key insert	14 x 9 x 2 mm 2 x 14 key Insert



Hexagon key set - 9 pcs:	Order No.
1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10	7110592



Hexagon key set, folding - 7 pcs:	Order No.
2,5 - 3 - 4 - 5 - 6 - 8 - 10	7401002



Allen key set (ball head), folding - 7 pcs:	Order No.
2,5 - 3 - 4 - 5 - 6 - 8 - 10	7401202



Torx key set, folding - 8 pcs:	Order No.
9 - 10 - 15 - 20 - 25 - 27 - 30 - 40	7409002



ADDITIONAL TOOLS



Cable duct cutter with inserts

Description	Cutting length	Weight	Order No.
Cable duct cutter	max. 57 mm	0,75 kg	16260

- Multi-purpose scissors for precise cutting work
- For plastic, rubber, wooden profiles
- With 5 interchangeable cutting inserts:
  - resin insert for straight cuts
  - resin insert for 45 - 120° cuts
  - aluminium insert for 90° profiles
  - aluminium insert for 16 - 19 mm tubes
  - aluminium insert for 25 mm tubes



Tape measure

Description	Length	Height	Order No.
Tape measure	3 mm	16 mm	7406030
	5 mm	19 mm	7406050
	8 mm	25 mm	7406080

- Accuracy class 2
- Unbreakable ABS case



Ultralight handy metal sawframe

Length	Order No.
300 mm	7120600
spare blade for metal HSS	7120610

- Ergonomical structural shape
- 2 component plastic handle, glass fiber reinforced
- Integrated clamping key and integrated blade magazine





### Set - EnerGrip cable puller

Equipment	Order No.
4 EnerGrip (AV8902)	AS8902

- Cable puller with excellent grip (Ø 3-12 mm)



### IQ-CAP - for cable pulling

Description	Order No.
IQ-CAP	IQ-CAP

#### Including:

- 1 x CAP black: length: 24 mm / Ø 11 mm: max. 6 x 1,5 mm<sup>2</sup>
- 1 x CAP red: length: 24 mm / Ø 13 mm: max. 5 x 2,5 mm<sup>2</sup>



### Lubricant for cables 1 l

Description	Order No.
Liquid	7142160
Gel	7142161



Integrated mini torch

### AC-tive Finder

Description	Length	Order No.
AC-tive Finder	158 mm	AM0204

- Phase conductor identification
- The ZOOM function increases sensitivity (from 24 to 1000 VAC), to follow lines even at great depth
- For finding breaks in wires and cables
- When voltage is present, the tip lights up and an acoustic signal is emitted



**CE** 1000V  
IEC 60900  
EN 60903 / IEC 903  
VDE 0682 part 311

**Insulated electrical safety gloves**

Description	Order No.	Operating Voltage	Test Voltage	Thickness	Size
Safety gloves class 00	AV4711	500 V	2.500 V	0,5 mm	8
	AV4712				9
	AV4713				10
	AV4714				11
Safety gloves class 0	AV4720	1.000 V	5.000 V	1 mm	8
	AV4721				9
	AV4722				10
	AV4723				11
Safety gloves class 1	AV4731	7.500 V	10.000 V	1,35 mm	9
	AV4732				10
	AV4733				11
Safety gloves class 2	AV4741 AV4742	17.000 V	20.000 V	2 mm	9 10
Safety gloves class 3	AV4750 AV4751	26.500 V	30.000 V	2,6 mm	9 10

- Tested and produced according to EN 60903 / IEC 903, VDE 0682 p. 311
- For work on live MV/LV parts
- Material: natural latex
- Length: 360mm
- Smooth inside/outside
- Color: beige



EN 60903:2003 - IEC 60903:2014  
IEC 61482-1-2,1//7  
CE 0333  
EN 388  
Categoria RC

**3-in-1 insulating gloves, with mechanical protection and electric arc resistance 7 kA and 4 kA**

Description	Order No.	Operating Voltage	Size
Gloves class 0	AV4701	1000V - 7kA	8
Gloves class 0	AV4702		9
Gloves class 0	AV4703		10

- For work in installations where electric arcs may arise
- Resistance to electric arc of 7kA/0.5 seconds - / CEI EN 61482-1-2 / cl. II
- Suitable for live work up to 1000 V - standard CEI EN 60903 / class 0
- Excellent sense of touch thanks to the special structure on the palm
- Excellent shape of correspondence
- Mechanical protection
- Material: natural rubber
- Length 410 mm
- Colour: orange



EN 60903:2003 - IEC 60903:2014  
IEC 61482-1-2,1//7  
CE 0333  
EN 388  
Categoria AZC

**ULTRA TOUCH**

Description	Order No.	Operating Voltage	Size
Gloves class 0	AV4706	1000V - 4kA	8
Gloves class 0	AV4707		9
Gloves class 0	AV4708		10

- For work in installations where electric arcs may arise
- 4kA electric arc resistance - IEC EN 61482-1-2 / class I
- Suitable for live work up to 1000 V - IEC EN 60903 / class 0
- Excellent sense of touch thanks to the special structure on the palm
- Excellent shape correspondence
- Special surface structure, anti-slip
- Mechanical protection
- Material: natural rubber
- Length 360 mm
- Colour: orange





CE

EN 420  
EN 388

### Protective overgloves

Description	Order No.	Size	Weight
Protective gloves	AV4771	9	200 g
Protective gloves	AV4772	10	200 g
Protective gloves	AV4773	11	200 g

- Tested and produced according to EN 420 / EN 388
- Overglove to protect the insulating glove
- Material: water-repellent silicone-treated grain leather



### Pump for testing insulated gloves

Description	Order No.	Dimensions	Weight
Pump	631800	140 x Ø -130 mm	800 g

- To inflate insulating gloves and check for any leaks.
- Material: thermoplastic resin, light alloy, anti-oxidation metal and other equivalent material.



### Safety helmet with built-in visor for electricians

Description	Order No.	Color	Weight
Safety helmet	AV9303W	white	740 g
Safety helmet	AV9303R	red	740 g

- Protective helmet with integrated visor for live work on LV systems
- Material: shell: polyethylene visor: scratch-resistant polycarbonate
- DIN EN 397 - UNI 7154 - VDE 0680-1
- Adjustable harness from 52 to 66 (rack) chin strap with Velcro fastening
- Integrated and retractable visor in the shell, colourless
- Thickness 1.2 mm
- Protection against electric arc
- Suitable for live work



1000V  
IEC 60900  
VDE 0680

Insulating safety caps

Description	Order No.	Ø	Length
Insulating caps	AV4094	8 - 13 mm	60mm
	AV4095	13 - 20 mm	80mm

- Tested and produced according to VDE 0680
- To protect rigid cables
- Material: rigid thermoplastic resin
- Color: red



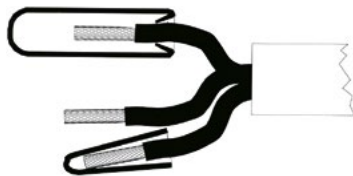
Slip over side with grip

1000V  
IEC 60900  
VDE 0680

Push on cover with grip

Order No.	Length	Opening	Suitable for cable mm <sup>2</sup>	Weight
646004	40 mm	10 mm	1 - 25	4 g
646006	60 mm	10 mm	6 - 35	14 g
646010	100 mm	10 mm	6 - 35	21 g
646015	100 mm	15 mm	10 - 50	31 g
646020	110 mm	20 mm	35 - 95	40 g
646030	130 mm	30 mm	95 - 185	70 g
646040	150 mm	40 mm	185 - 240	135 g
646050	185 mm	50 mm	240 - 400	140 g
646060	185 mm	60 mm	240 - 500	220 g
646070	210 mm	70 mm	300 - 500	300 g
646090	255 mm	90 mm	- 630	550 g
646120	240 mm	120 mm	- 800	700 g

- Tested and produced according to VDE 0680
- For temporary insulation of the ends of live LV single-pole cables
- Also suitable for protecting cables with cable terminals
- Material: flexible thermoplastic resin
- Color: red



Slip over side without grip

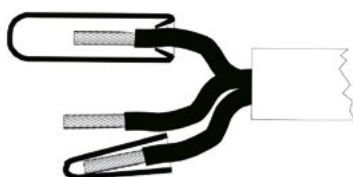
1000V  
IEC 60900  
VDE 0680

Push on cover conical

Order No.	Length	Opening	Suitable for cable mm <sup>2</sup>	Weight
647030	30 mm	10 mm	10 - 25	10 g
645006	50 mm	10 mm	10 - 25	10 g
647010	60 mm	10 mm	6 - 25	15 g
645000	100 mm	10 mm	10 - 35	7 g
645001	100 mm	20 mm	120 - 150	19 g

Transparent conical push on covers available on request

- Tested and produced according to VDE 0680
- For temporary insulation of the ends of live LV single-pole cables
- Also suitable for protecting cables with cable terminals
- Material: flexible thermoplastic resin
- Color: red





TOOLS FOR SCREW-CONNECTORS



Holding device for mechanical screw-connectors

Description	Dimensions	Weight	Order No.
Holding device	195 x 65 x 64 mm	0,35 kg	22013

Suitable for excellent holding when screwing the connectors with a diameter of 14 to 40 mm.

- Suitable for live work up to 1000V AC and 1500V DC
- Clamp fastening system
- Can be used for insulated and non-insulated connectors
- Insulation according to CEI / EN 60900:2004
- Suitable for use at very low temperatures up to -40°C

Including:

- Holding device – 22013
- Diameter reducer insert

Torque amplifier set for screw-connectors

Suitable for the controlled tightening of breakaway screws on the mechanical screw-connectors, using any standard screwing machine.

- Simple and precise product handling
- Gentle closing of bolts, without forcing and stressing the material, via torque amplifier system.
- Transmission ratio 1:24
- Load capacity up to 65 Nm
- Triangle attachment for standard chucks min. Ø 14 mm
- Tool dimensions: 199 mm x 89 mm
- Tool weight: approx. 1050 gr.
- Attention: not usable in combination with impact screwdrivers!

Description	Dimensions	Weight	Order No.
Torque amplifier	370 x 245 x 115 mm	1,93 kg	DMVI65

Including:

- Torque amplifier
- Allen key 5
- Sockets 13, 17, 19, 22
- Allen key inserts 5, 6, 8
- Rigid case

INSULATED VERSION IS AVAILABLE: DMVI65-ISL

95 NM VERSION IS AVAILABLE: DMVI95

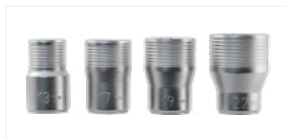
The set contents are vary corresponding to the application.



Set DMVI65



Allen key inserts



Sockets

Torque amplifier set with accu-tool

Description	Dimensions	Weight	Order No.
Torque amplifier with accu-tool	480 x 280 x 125 mm	4,60 kg	DMVI65A

Including:

- Battery operated torque amplifier 12V-2Ah
- Allen key 5
- Sockets 10,13, 14, 17, 19, 22, 24
- Allen key inserts 5, 6, 8, 10
- Battery charger
- Rigid case



Set DMVI65A

MORE TOOLS WE LOVE



Insulated wrenches  
and keys



Modular tools



Electrotechnical  
Equipment

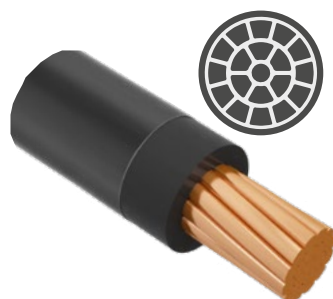


Safety Cutting

## 4 types of stranded cables



**rigid**  
stranded  
cable - class 2



**compact rigid**  
stranded  
cable - class 2



**flexible**  
fine stranded  
cable - class 5



**super-flexible**  
extra fine stranded  
cable - class 6

## 1 better crimping solution



any standard  
**tubular cable lugs**  
and **connectors**





***i* - crimping**

***i*ntelligent  
crimping**

## *i*ntelligent crimping

- it combines the characteristics of the hexagonal crimping and the punch crimping.
- Suitable for:
  - multi-wired stranded rigid cables,
  - multi-wired stranded compact rigid cables,
  - multi fine wired stranded flexible cables,
  - multi extra-fine wired stranded super-flexible cables.
- More effective pressing on the conductors improving the electrical characteristics of the connection.
- The tensile strength value of the cable is higher than traditional solutions and significantly higher than the values of applicable standards, ensuring better mechanical characteristics of the connection.

Pressing	Normal hexagonal crimping	Innovative <i>i</i> -crimping
		
Result	Sufficient (partially suitable for compact cables)	Better /above the standard requirement

**I-SERIES - TUBULAR CABLE LUGS AND CONNECTORS & CRIMPING TOOLS**

**Inspection hole**

With inspection hole to control the perfect connection

**Cost-Efficient**

Lighter and shorter compared to DIN lugs without compromising on capabilities


**Highest quality materials**

Cu-HCP 99,9% clean electrolytic copper, tinned.  
The base for the long-term highest quality crimped connection














**Variety range of use**





For more types of cable classes.  
Best performance with i-crimping (see page 77)



Cu I											CTT...	
	mm <sup>2</sup>	M3	M4	M5	M6	M8	M10	M12	M14	M16		M20
1,5	● CI1.5-M3 ● ICS1390	● CI1.5-M4 ● ICS1490	● CI1.5-M5 ● ICS1590	● CI1.5-M6 ● ICS1690								CTT-1.5
2,5		● CI2.5-M4 ● ICS2490	● CI2.5-M5 ● ICS2590	● CI2.5-M6 ● ICS2690	● CI2.5-M8 ● ICS2890							CTT-2.5
4		● CI4-M4 ● ICS4490	● CI4-M5 ● ICS4590	● CI4-M6 ● ICS4690	● CI4-M8 ● ICS4890							CTT-4
6		● CI6-M4 ● ICS6490	● CI6-M5 ● ICS6590	● CI6-M6 ● ICS6690	● CI6-M8 ● ICS6890	● CI6-M10						CTT-6
10		● CI10-M4	● CI10-M5 ● CI10-M5-90 ● CI10-M5-45	● CI10-M6 ● CI10-M6-90 ● CI10-M6-45	● CI10-M8 ● CI10-M8-90 ● CI10-M8-45	● CI10-M10 ● CI10-M10-90	● CI10-M12 ● CI10-M12-90					CTT-10
16			● CI16-M5 ● CI16-M5-90	● CI16-M6 ● CI16-M6-90 ● CI16-M6-45	● CI16-M8 ● CI16-M8-90 ● CI16-M8-45	● CI16-M10 ● CI16-M10-90 ● CI16-M10-45	● CI16-M12 ● CI16-M12-90					CTT-16
25			● CI25-M5 ● CI25-M5-90 ● CI25-M5-45	● CI25-M6 ● CI25-M6-90 ● CI25-M6-45	● CI25-M8 ● CI25-M8-90 ● CI25-M8-45	● CI25-M10 ● CI25-M10-90 ● CI25-M10-45	● CI25-M12 ● CI25-M12-90 ● CI25-M12-45	● CI25-M14				CTT-25
35			● CI35-M5	● CI35-M6 ● CI35-M6-90 ● CI35-M6-45	● CI35-M8 ● CI35-M8-90 ● CI35-M8-45	● CI35-M10 ● CI35-M10-90 ● CI35-M10-45	● CI35-M12 ● CI35-M12-90 ● CI35-M12-45	● CI35-M14	● CI35-M16			CTT-35
50				● CI50-M6 ● CI50-M6-90 ● CI50-M6-45	● CI50-M8 ● CI50-M8-90 ● CI50-M8-45	● CI50-M10 ● CI50-M10-90 ● CI50-M10-45	● CI50-M12 ● CI50-M12-90 ● CI50-M12-45	● CI50-M14	● CI50-M16 ● CI50-M16-90	● CI50-M20		CTT-50
70				● CI70-M6 ● CI70-M6-45	● CI70-M8 ● CI70-M8-90 ● CI70-M8-45	● CI70-M10 ● CI70-M10-90 ● CI70-M10-45	● CI70-M12 ● CI70-M12-90 ● CI70-M12-45	● CI70-M14 ● CI70-M14-90	● CI70-M16 ● CI70-M16-90			CTT-70
95				● CI95-M6	● CI95-M8 ● CI95-M8-90 ● CI95-M8-45	● CI95-M10 ● CI95-M10-90 ● CI95-M10-45	● CI95-M12 ● CI95-M12-90 ● CI95-M12-45	● CI95-M14	● CI95-M16 ● CI95-M16-90	● CI95-M20 ● CI95-M20-90		CTT-95
120					● CI120-M8 ● CI120-M8-90 ● CI120-M8-45	● CI120-M10 ● CI120-M10-90 ● CI120-M10-45	● CI120-M12 ● CI120-M12-90 ● CI120-M12-45	● CI120-M14	● CI120-M16 ● CI120-M16-90 ● CI120-M16-45	● CI120-M20		CTT-120
150					● CI150-M8 ● CI150-M8-90 ● CI150-M8-45	● CI150-M10 ● CI150-M10-90 ● CI150-M10-45	● CI150-M12 ● CI150-M12-90 ● CI150-M12-45	● CI150-M14	● CI150-M16 ● CI150-M16-90 ● CI150-M16-45	● CI150-M20 ● CI150-M20-90		CTT-150
185					● CI185-M8	● CI185-M10 ● CI185-M10-90 ● CI185-M10-45	● CI185-M12 ● CI185-M12-90 ● CI185-M12-45	● CI185-M14	● CI185-M16 ● CI185-M16-90 ● CI185-M16-45	● CI185-M20 ● CI185-M20-90 ● CI185-M20-45		CTT-185
240					● CI240-M8	● CI240-M10 ● CI240-M10-90	● CI240-M12 ● CI240-M12-90	● CI240-M14 ● CI240-M14-45	● CI240-M16 ● CI240-M16-90	● CI240-M20 ● CI240-M20-90		CTT-240
300						● CI300-M10	● CI300-M12	● CI300-M14	● CI300-M16	● CI300-M20		CTT-300
400						● CI400-M10	● CI400-M12	● CI400-M14	● CI400-M16	● CI400-M20		CTT-400
500							● CI500-M12		● CI500-M16	● CI500-M20		CTT-500
630									● CI630-M16	● CI630-M20		CTT-630

I-SERIES - TUBULAR CABLE LUGS AND CONNECTORS & CRIMPING TOOLS

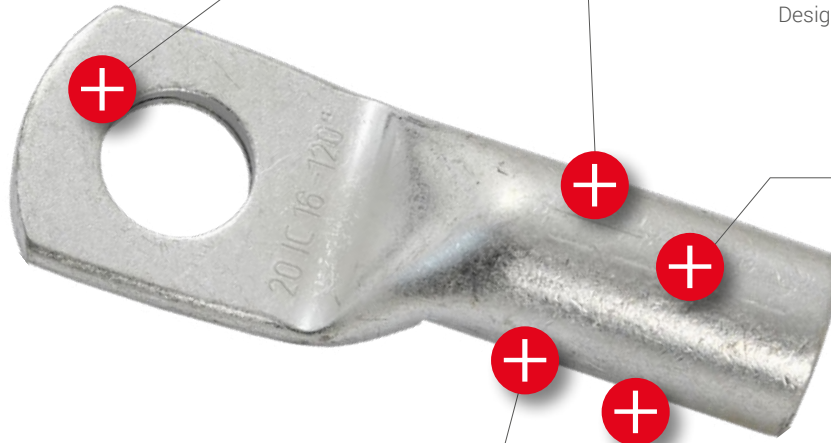
	TOOL SERIES 50 50 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-1, 60-3 60 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-2 60 kN, 10 - 300 mm <sup>2</sup>	TOOL SERIES 130 130 kN, 10 - 400 mm <sup>2</sup>
hand- mechanic	page 15	 MP60-1      MP60-3	 MP60-2	
hydraulic head	page 24	 PP60-1	 PP60-2	 PP130-C    PP130-C2    PP130-H
hand- hydraulic	page 18  HP50	 HP60-3	 HP60-4	 HPI130-C    HPI130-C2    HPI130-H
accu- hydraulic	page 20  STILO50	 AP60-1	 STILO60      AP60-2	 AP130-C    AP130-C2    AP130-H

	CRIMPING DIES SERIES 50, 60-1, 60-3				CRIMPING DIES SERIES 60-2		CRIMPING DIES SERIES 130	
								
mm <sup>2</sup>	Crimping width	Order No.	Crimping width	Order No.	Crimping width	Order No.	Crimping width	Order No.
10	7 mm	U5-K07M	7 mm	U5-I10	7 mm	U6-I10	7 mm	U13-K07M
16	7 mm	U5-K08M	7 mm	U5-I16	7 mm	U6-I16	7 mm	U13-K08M
25	7 mm	U5-K10M	9 mm	U5-I25	9 mm	U6-I25	12 mm	U13-K10M
35	7 mm	U5-K11M	5 mm	U5-I35	5 mm	U6-I35	12 mm	U13-K11M
50	7 mm	U5-K13M	5 mm	U5-I50	5 mm	U6-I50	12 mm	U13-K13M
70	7 mm	U5-K14	5 mm	U5-I70	5 mm	U6-I70	12 mm	U13-K14
95	7 mm	U5-K17M	5 mm	U5-I95	5 mm	U6-I95	12 mm	U13-K17M
120	7 mm	U5-K18	5 mm	U5-I120	5 mm	U6-I120	12 mm	U13-K18
150	5 mm	U5-K20D	5 mm	U5-I150	5 mm	U6-I150	12 mm	U13-K20D
185	5 mm	U5-K22D	5 mm	U5-I185	5 mm	U6-I185	14 mm	U13-K22D
240	5 mm	U5-K25M	5 mm	U5-I240	5 mm	U6-I240	14 mm	U13-K25M
300					5 mm	U6-I300	7 mm	U13-K28D
400							7 mm	U13-K34D

**DIN-SERIES - TUBULAR CABLE LUGS AND CONNECTORS & CRIMPING TOOLS**

**Made in Germany**

Made in the German factory owned by Intercable. The tinning process is done within the company



**DIN-series**

Compatibility with the crimping dies designed for dimensions acc. to DIN 46235, 46267. Designed with 2-3 times safety

**Marked**

Visually marked crimping positions

**Highest quality materials**

Cu-HCP 99,9% clean electrolytic copper, tinned. The base for the long-term highest quality crimped connection

**Variety range of use**












For copper cables class 1 and 2 and for flexible cables from class 5, according to VDE0295

Cu DIN	ICD... ICD...90 ICD...V									
	mm <sup>2</sup>	M5	M6	M8	M10	M12	M14	M16	M20	
6		● ICD65	● ICD66	● ICD68						ICD6V
10		● ICD105	● ICD106 ● ICD10690	● ICD108 ● ICD10890	● ICD1010					ICD10V
16		● ICD165	● ICD166 ● ICD16690	● ICD168 ● ICD16890	● ICD1610 ● ICD161090	● ICD1612 ● ICD161290				ICD16V
25			● ICD256 ● ICD25690	● ICD258 ● ICD25890	● ICD2510 ● ICD251090	● ICD2512 ● ICD251290		● ICD2516		ICD25V
35			● ICD356 ● ICD35690	● ICD358 ● ICD35890	● ICD3510 ● ICD351090	● ICD3512 ● ICD351290		● ICD3516		ICD35V
50			● ICD506	● ICD508 ● ICD50890	● ICD5010 ● ICD501090	● ICD5012 ● ICD501290	● ICD5014	● ICD5016 ● ICD501690		ICD50V
70				● ICD708 ● ICD70890	● ICD7010 ● ICD701090	● ICD7012 ● ICD701290	● ICD7014	● ICD7016 ● ICD701690	● ICD7020	ICD70V
95				● ICD958 ● ICD95890	● ICD9510 ● ICD951090	● ICD9512 ● ICD951290	● ICD9514	● ICD9516 ● ICD951690	● ICD9520	ICD95V
120				● ICD1208	● ICD12010 ● ICD1201090	● ICD12012 ● ICD1201290	● ICD12014	● ICD12016 ● ICD1201690	● ICD12020 ● ICD1202090	ICD120V
150				● ICD1508 ● ICD150890	● ICD15010 ● ICD1501090	● ICD15012 ● ICD1501290	● ICD15014	● ICD15016 ● ICD1501690	● ICD15020 ● ICD1502090	ICD150V
185				● ICD1858 ● ICD185890	● ICD18510 ● ICD1851090	● ICD18512 ● ICD1851290	● ICD18514	● ICD18516 ● ICD1851690	● ICD18520 ● ICD1852090	ICD185V
240					● ICD24010	● ICD24012 ● ICD2401290	● ICD24014	● ICD24016 ● ICD2401690	● ICD24020 ● ICD2402090	ICD240V
300					● ICD30010	● ICD30012 ● ICD3001290	● ICD30014	● ICD30016 ● ICD3001690	● ICD30020 ● ICD3002090	ICD300V
400					● ICD40010	● ICD40012	● ICD40014	● ICD40016	● ICD40020	ICD400V
500						● ICD50012	● ICD50014	● ICD50016	● ICD50020	ICD500V
625								● ICD62516	● ICD62520	ICD625V
800								● ICD80016	● ICD80020	ICD800V
1000									● ICD100020	ICD1000V

Without tin: ICD...BK



DIN-SERIES - TUBULAR CABLE LUGS AND CONNECTORS & CRIMPING TOOLS

	TOOL SERIES 50 50 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-1, 60-3 60 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-2 60 kN, 10 - 300 mm <sup>2</sup>	TOOL SERIES 130 130 kN, 10 - 400 mm <sup>2</sup>
hand- mechanic	page 15	 MP60-1      MP60-3	 MP60-2	
hydraulic head	page 24	 PP60-1	 PP60-2	 PP130-C    PP130-C2    PP130-H
hand- hydraulic	page 18	 HP50	 HP60-3	 HPI130-C    HPI130-C2    HPI130-H
accu- hydraulic	page 20	 STILO50	 AP60-1	 STILO60      AP60-2      AP130-C    AP130-C2    AP130-H

	SERIES 50, 60-1, 60-3		SERIES 60-2		SERIES 130		SERIES 230		SERIES 520	
										
mm <sup>2</sup> / dies code	Crimp width	Order No.	Crimp width	Order No.	Crimp width	Order No.	Crimp width	Order No.	Crimp width	Order No.
6 / 5	5 mm	MK5-50	5 mm	MK5-CK						
10 / 6	5 mm	MK6-50	5 mm	MK6-CK	5 mm	MK6-C				
16 / 8	5 mm	MK8-50	5 mm	MK8-CK	14 mm	MK8-C				
25 / 10	5 mm	MK10-50	5 mm	MK10-CK	14 mm	MK10-C	14 mm	MK10-230		
35 / 12	5 mm	MK12-50	5 mm	MK12-CK	14 mm	MK12-C	14 mm	MK12-230	14 mm	MK12-520
50 / 14	5 mm	MK14-50	5 mm	MK14-CK	14 mm	MK14-C	14 mm	MK14-230	14 mm	MK14-520
70 / 16	5 mm	MK16-50	5 mm	MK16-CK	14 mm	MK16-C	14 mm	MK16-230	14 mm	MK16-520
95 / 18	5 mm	MK18-50	5 mm	MK18-CK	14 mm	MK18-C	12 mm	MK18-230	14 mm	MK18-520
120 / 20	5 mm	MK20-50	5 mm	MK20-CK	14 mm	MK20-C	14 mm	MK20-230	14 mm	MK20-520
150 / 22	5 mm	MK22-50	5 mm	MK22-CK	14 mm	MK22-C	14 mm	MK22-230	14 mm	MK22-520
185 / 25	5 mm	MK25-50	5 mm	MK25-CK	14 mm	MK25-C	14 mm	MK25-230	14 mm	MK25-520
240 / 28	5 mm	MK28-50	5 mm	MK28-CK	10 mm	MK28-C	14 mm	MK28-230	14 mm	MK28-520
300 / 32			5 mm	MK32-CK	7 mm	MK32-C	17 mm	MK32-230	17 mm	MK32-520
400 / 38							17 mm	MK38-230	17 mm	MK38-520
500 / 42							17 mm	MK42-230	17 mm	MK42-520
625 / 44							17 mm	MK44-230	17 mm	MK44-520
800 / 52									25 mm	MK52-520
1000 / 58									25 mm	MK58-520

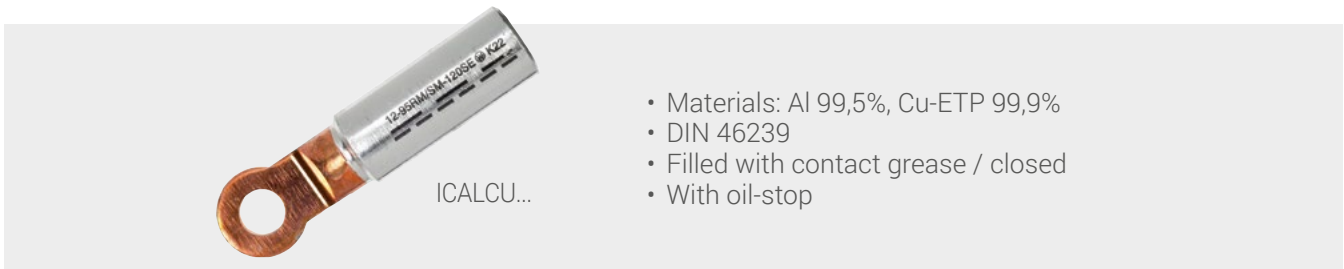
**AL DIN-SERIES - TUBULAR CABLE LUGS AND CONNECTORS & CRIMPING TOOLS**



- Material: Al 99,5 % / ...LDV: tinned
- DIN 46239 (lugs) / 46267 (connectors)
- Filled with contact grease / closed
- With oil-stop
















*ICAL...LD with tinned surface: ICAL...LDV  
With this special thickness of tinning, these types are also applicable for Al-Cu connections in dry area.*








- Materials: Al 99,5%, Cu-ETP 99,9%
- DIN 46239
- Filled with contact grease / closed
- With oil-stop

AI / AL - CU DIN-series		 ICAL...  ICAL...LD  ICALCU...					 ICAL...V
mm <sup>2</sup> stranded Al cable	mm <sup>2</sup> solid Al cable	M8	M10	M12	M16	M20	
16	25	ICAL168 ICAL168LD ICALCU168	ICAL1610 ICAL1610LD ICALCU1610				ICAL16V
25	35	ICAL258 ICAL258LD ICALCU258	ICAL2510 ICAL2510LD ICALCU2510	ICALCU2512			ICAL25V
35	50	ICAL358 ICAL358LD ICALCU358	ICAL3510 ICAL3510LD ICALCU3510	ICAL3512 ICAL3512LD ICALCU3512			ICAL35V
50	70	ICAL508 ICAL508LD ICALCU508	ICAL5010 ICAL5010LD ICALCU5010	ICAL5012 ICAL5012LD ICALCU5012			ICAL50V
70	95		ICAL7010 ICAL7010LD ICALCU7010	ICAL7012 ICAL7012LD ICALCU7012		ICALCU7016	ICAL70V
95	120		ICAL9510 ICAL9510LD ICALCU9510	ICAL9512 ICAL9512LD ICALCU9512		ICAL9516 ICAL9516LD ICALCU9516	ICAL95V
120	150		ICAL12010 ICAL12010LD ICALCU12010	ICAL12012 ICAL12012LD ICALCU12012		ICAL12016 ICAL12016LD ICALCU12016	ICAL120V
150	185		ICAL15010 ICAL15010LD ICALCU15010	ICAL15012 ICAL15012LD ICALCU15012		ICAL15016 ICAL15016LD ICALCU15016	ICAL150V
185	240		ICAL18510 ICAL18510LD ICALCU18510	ICAL18512 ICAL18512LD ICALCU18512		ICAL18516 ICAL18516LD ICALCU18516	ICAL185V
240	300		ICAL24010 ICAL24010LD ICALCU24010	ICAL24012 ICAL24012LD ICALCU24012		ICAL24016 ICAL24016LD ICALCU24016	ICAL240V
300	-		ICALCU30010	ICAL30012 ICAL30012LD ICALCU30012		ICAL30016 ICAL30016LD ICALCU30016	ICAL300V
400	-		ICALCU40010	ICAL40012 ICAL40012LD ICALCU40012		ICAL40016 ICAL40016LD ICALCU40016	ICAL400V
500	-		ICALCU50010	ICAL50012 ICAL50012LD ICALCU50012		ICAL50016 ICAL50016LD ICALCU50016	ICAL500V
630	-			ICALCU62512	ICALCU62516	ICALCU62520	

AL DIN-SERIES - TUBULAR CABLE LUGS AND CONNECTORS & CRIMPING TOOLS

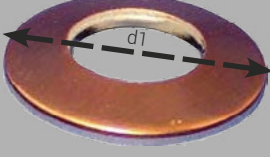
	TOOL SERIES 50 50 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-1, 60-3 60 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-2 60 kN, 10 - 300 mm <sup>2</sup>	TOOL SERIES 130 130 kN, 10 - 400 mm <sup>2</sup>
hand-mechanic page 15		 MP60-1 MP60-3	 MP60-2	
hydraulic head page 24		 PP60-1	 PP60-2	 PP130-C PP130-C2 PP130-H
hand-hydraulic page 18	 HP50	 HP60-3	 HP60-4	 HPI130-C HPI130-C2 HPI130-H
accu-hydraulic page 20	 STILO50	 AP60-1	 STILO60 AP60-2	 AP130-C AP130-C2 AP130-H

	SERIES 50, 60-1, 60-3		SERIES 60-2		SERIES 130		SERIES 230		SERIES 520	
										
mm <sup>2</sup> / dies code	Crimp width	Order No.	Crimp width	Order No.	Crimp width	Order No.	Crimp width	Order No.	Crimp width	Order No.
16 / 12	7 mm	MK12B-50	7 mm	MK12B-CK	14 mm	MK12-C	14 mm	MK12-230	14 mm	MK12-520
25 / 12										
35 / 14	7 mm	MK14B-50	7 mm	MK14B-CK	14 mm	MK14-C	14 mm	MK14-230	14 mm	MK14-520
50 / 16	7 mm	MK16B-50	7 mm	MK16B-CK	14 mm	MK16-C	14 mm	MK16-230	14 mm	MK16-520
70 / 18	7 mm	MK18B-50	7 mm	MK18B-CK	14 mm	MK18-C	12 mm	MK18-230	12 mm	MK18-520
95 / 22	7 mm	MK22B-50	7 mm	MK22B-CK	14 mm	MK22-C	40 mm	MK22B-230	40 mm	MK22B-520
120 / 22										
150 / 25	7 mm	MK25B-50	7 mm	MK25B-CK	14 mm	MK25-C	40 mm	MK25B-230	40 mm	MK25B-520
185 / 28	7 mm	MK28B-50	7 mm	MK28B-CK	14 mm	MK28L-C	40 mm	MK28B-230	40 mm	MK28B-520
240 / 32	5 mm	MK32-50V*	7 mm	MK32B-CK	17 mm	MK32L-C	25 mm	MK32B-230	40 mm	MK32B-520
300 / 34			5 mm	MK34-CK	17 mm	MK34L-C	25 mm	MK34B-230	40 mm	MK34B-520
400 / 38							25 mm	MK38B-230	40 mm	MK38B-520
500 / 44							17 mm	MK44-230	40 mm	MK44B-520
625 / 52									40 mm	MK52B-520

\* only for 60-1 and 60-3 hydraulic tools

**AL-CU WASHERS, NICKEL AND STAINLESS STEEL CABLE LUGS**

Al-Cu washers:

	M6 / d1	M8 / d1	M10 / d1	M12 / d1	M16 / d1	M20 / d1
	ICALCU6CS 16 mm	ICALCU8CS 18 mm	ICALCU10CS 23 mm	ICALCU12CS2 26 mm	ICALCU16CS 35 mm	ICALCU20CS 37 mm
			ICALCU10CS2 26 mm	ICALCU12CS 30 mm	ICALCU16CS2 46 mm	ICALCU20CS2 46 mm
			ICALCU12CS3 46 mm			

**Nickel-series**

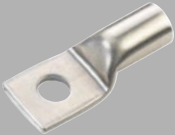
- Material: pure nickel
- For high temperature operation, T 500°C

Ni										
	mm <sup>2</sup>	M3	M4	M5	M6	M8	M10	M12		M16
0,5 - 1	ICNI13	ICNI14	ICNI15							ICNI1V
1,5 - 2,5		ICNI24	ICNI25	ICNI26						ICNI2V
4 - 6		ICNI64	ICNI65	ICNI66	ICNI68					ICNI6V
10			ICNI105	ICNI106	ICNI108					ICNI10V
16			ICNI165	ICNI166	ICNI168					ICNI16V

**Stainless Steel-series**

- Material: stainless steel, V4A
- For high temperature operation, T 400°C
- Strong and durable
- Safe against oxidation and acids, and safe for food



Steel									
	mm <sup>2</sup>	M3	M4	M5	M6	M8	M10	M12	M16
1,5 - 2,5			ICVA24	ICVA25	ICVA26				
4 - 6			ICVA64	ICVA65	ICVA66	ICVA68			
10				ICVA105	ICVA106	ICVA108			
16				ICVA165	ICVA166	ICVA168			
25					ICVA256	ICVA258			
35					ICVA356	ICVA358	ICVA3510		
50						ICVA508	ICVA5010	ICVA5012	
70						ICVA708	ICVA7010	ICVA7012	ICVA7016
95						ICVA958	ICVA9510	ICVA9512	ICVA9516

































Tool selection for the Ni and steel connectors:  
see page 9, page 13

Crimping dies for Ni and steel connectors:  
page 101



WE PRODUCE HIGH QUALITY TUBULAR CABLE LUGS AND CONNECTORS

Check out some more details about the lugs from our connector series!  
Scan / click for the pdf files!

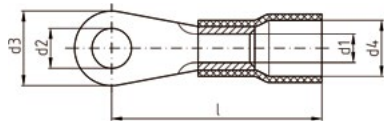
 I-SERIES TUBULAR CABLE LUGS AND CONNECTORS I-series   Cu lugs and connectors	 R-SERIES TUBULAR CABLE LUGS AND CONNECTORS R-series   Cu lugs and connectors	 F-SERIES TUBULAR CABLE LUGS AND CONNECTORS F-series   Cu lugs and connectors	 DIN-SERIES / CU TUBULAR CABLE LUGS AND CONNECTORS DIN-series   Cu lugs and connectors	 DIN-SERIES AL   AL-CU TUBULAR CABLE LUGS AND CONNECTORS DIN-series   Al, Al-Cu lugs and connectors
 <b>CI...-M...</b>	 <b>ICR...</b>	 <b>ICF...</b>	 <b>ICD...</b>	 <b>ICAL...</b>
 <b>CI...-M...-CL</b>	 <b>ICR...DL / D.</b>	 <b>ICF...S</b>	 <b>ICD...90</b>	 <b>ICAL...V</b>
 <b>CI...-M...-PR</b>	 <b>ICR...S</b>	 <b>ICF...90</b>	 <b>ICD...V</b>	 <b>ICALCU...</b>
 <b>CI...-M...-90</b>	 <b>ICR...90</b>	 <b>ICF...90S</b>		 <b>ICALCU...V</b>
 <b>CI...-M...-45</b>	 <b>ICR...45</b>	 <b>ICF...V</b>		
 <b>CTT...</b>	 <b>ICR...V</b>			
	 <b>ICR...T</b>			

Check the connectors on our sites!



**INSULATED CRIMPING TERMINALS**

Insulated cable lugs DIN 46237



Application: For fine and extra fine stranded conductors  
 Connection material: CU-ETP  
 Surface: galvanically tinned  
 Insulation: PC halogenfree  
 Operation temperature up to 120°C  
 Max. 600 V



Cable mm <sup>2</sup>	Screw M	Colour	Order No.	Dimensions in mm					Weight kg / 100 pcs	PU
				d1	d4	d2	d3	l		
0,1-0,5	2	●	ICIQ052*	1	2,3	2,2	5	14	0,02	100
	3	●	ICIQ053*			3,2	5	14	0,02	100
	4	●	ICIQ054*			4,3	6,5	16	0,03	100
	5	●	ICIQ055*			5,3	8	16	0,03	100
0,5-1	2	●	ICIQ12	1,6	4	2,2	6	17	0,06	100
	3	●	ICIQ13			3,2	6	17	0,06	100
	3,5	●	ICIQ135			3,7	6	17	0,06	100
	4	●	ICIQ14			4,3	8	18	0,07	100
	4	●	ICIQ14S			4,3	7	17,5	0,06	100
	4	●	ICIQ14GV			4,3	8	18	0,07	1000*
	5	●	ICIQ15			5,3	10	19	0,08	100
	5	●	ICIQ15S			5,3	8	18,5	0,06	100
	5	●	ICIQ15GV			5,3	10	19	0,08	1000*
	6	●	ICIQ16*			6,5	10	19	0,08	100
8	●	ICIQ18*	8,4	14	23	0,10	100			
10	●	ICIQ110*	10,5	18	25	0,10	100			
1,5-2,5	3	●	ICIQ23	2,3	4,4	3,2	6	17	0,07	100
	3,5	●	ICIQ235			3,7	6	17	0,06	100
	4	●	ICIQ24			4,3	8	18	0,08	100
	4	●	ICIQ24S			4,3	6,8	17,6	0,06	100
	4	●	ICIQ24GV			4,3	8	18	0,08	1000*
	5	●	ICIQ25			5,3	10	20	0,10	100
	5	●	ICIQ25S			5,3	8	19,5	0,07	100
	5	●	ICIQ25GV			5,3	10	20	0,10	1000*
	6	●	ICIQ26			6,5	11	22	0,11	100
	6	●	ICIQ26GV			6,5	11	22	0,11	1000*
	8	●	ICIQ28			8,4	14	23	0,14	100
	10	●	ICIQ210*			10,5	18	25,6	0,19	100
12	●	ICIQ212*	13	18	26	0,16	100			
4-6	4	●	ICIQ64	3,6	6,4	4,3	8	21	0,14	100
	5	●	ICIQ65			5,3	10	22	0,16	100
	6	●	ICIQ66			6,5	11	23	0,17	100
	6	●	ICIQ66GV			6,5	11	23	0,17	1000*
	8	●	ICIQ68			8,4	14	26	0,22	100
	10	●	ICIQ610			10,5	18	28	0,27	100
	12	●	ICIQ612			13	18	28	0,24	100

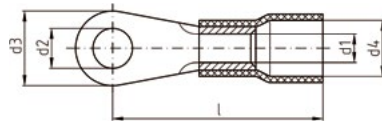
\* = not part of DIN 46237



Tool selection:  
see page 9, page 12, page 13

INSULATED CRIMPING TERMINALS

Insulated cable lugs DIN 46234



Application: For fine and extra fine stranded conductors  
 Connection material: CU-ETP  
 Surface: galvanically tinned  
 Insulation: PC halogenfree  
 Operation temperature up to 120°C  
 Max. 600 V  
 Pipe dimensions acc.to  
 DIN 46234 (10 - 150 mm<sup>2</sup>)



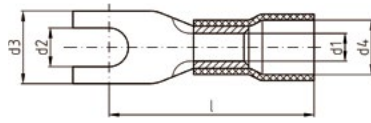
Cable mm <sup>2</sup>	Screw M	Colour	Order No.	Dimensions in mm					Weight kg / 100 pcs	PU
				d1	d4	d2	d3	l		
10	5	●	ICIQ105	4,5	8	5,3	10	24,5	0,23	50
	6	●	ICIQ106			6,5	11	25,5	0,24	50
	8	●	ICIQ108			8,4	14	28,5	0,30	50
	10	●	ICIQ1010			10,5	18	29,5	0,35	50
16	5	●	ICIQ165	5,8	10,5	5,3	11	31,5	0,40	50
	6	●	ICIQ166			6,5	11	31,5	0,38	50
	8	●	ICIQ168			8,4	14	33,5	0,43	50
	10	●	ICIQ1610			10,5	18	35,5	0,50	50
25	5	●	ICIQ255	7,5	13	5,3	12	38	0,71	50
	6	●	ICIQ256			6,5	12	38	0,69	50
	8	●	ICIQ258			8,4	16	38	0,76	50
	10	●	ICIQ2510			10,5	18	39	0,79	50
	12	●	ICIQ2512			13	22	44	0,97	50
35	6	●	ICIQ356	9	14,5	6,5	15	41	0,97	50
	8	●	ICIQ358			8,4	16	41	0,97	50
	10	●	ICIQ3510			10,5	18	42	1,01	50
	12	●	ICIQ3512			13	22	46	1,17	50
50	6	●	ICIQ506	11	16,5	6,5	18	47,5	1,76	50
	8	●	ICIQ508			8,4	18	47,5	1,71	50
	10	●	ICIQ5010			10,5	18	47,5	1,74	50
	12	●	ICIQ5012			13	22	49,5	1,80	50
70	6	●	ICIQ706	13	18,7	6,5	22	51	2,58	50
	8	●	ICIQ708			8,4	22	51	2,63	50
	10	●	ICIQ7010			10,5	22	51	2,55	50
	12	●	ICIQ7012			13	22	51	2,58	50
	16	●	ICIQ7016			17	28	55	2,68	50
95	8	●	ICIQ958	15	21,7	8,4	24	57,5	4,09	50
	10	●	ICIQ9510			10,5	24	57,5	4,22	50
	12	●	ICIQ9512			13	24	57,5	3,92	50
	16	●	ICIQ9516			17	28	59,5	3,94	50
120	8	●	ICIQ1208	16,5	24,2	8,4	24	62	5,63	25
	10	●	ICIQ12010			10,5	24	62	5,56	25
	12	●	ICIQ12012			13	24	62	5,33	25
	16	●	ICIQ12016			17	28	66	5,67	25
150	10	●	ICIQ15010	19	27,2	10,5	30	70	8,02	25
	12	●	ICIQ15012			13	30	70	7,84	25
	16	●	ICIQ15016			17	30	70	7,56	25



Tool selection:  
see page 9, page 12, page 13

**INSULATED CRIMPING TERMINALS**

Insulated cable terminals, fork type, DIN 46237

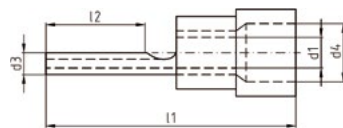


Application: For fine and extra fine stranded conductors  
 Connection material: CU-ETP  
 Surface: galvanically tinned  
 Insulation: PC halogenfree  
 Operation temperature up to 120°C  
 Cable cross-section: 0,5 - 6 mm<sup>2</sup> / DIN 46237  
 Cable cross-section: 10 - 16 mm<sup>2</sup> / DIN 46230  
 Max. 600 V



Cable mm <sup>2</sup>	Screw M	Colour	Order No.	Dimensions in mm					Weight kg / 100 pcs	PU
				d1	d4	d2	d3	l		
0,5-1	3	●	ICIQ13G	1,6	4	3,2	6	17	0,06	100
	3,5	●	ICIQ135G			3,7	6	17	0,05	100
	4	●	ICIQ14G			4,3	8	18,1	0,07	100
	4	●	ICIQ14GS			4,3	6,8	18	0,06	100
	5	●	ICIQ15G			5,3	10	19	0,08	100
	6	●	ICIQ16G*			6,5	11	21	0,09	100
1,5-2,5	3	●	ICIQ23G	2,3	4,5	3,2	5,5	19	0,06	100
	3,5	●	ICIQ235G			3,7	6	17	0,07	100
	4	●	ICIQ24G			4,3	8	18	0,08	100
	4	●	ICIQ24GS			4,3	6,8	18,7	0,06	100
	5	●	ICIQ25G			5,3	10	20	0,10	100
	6	●	ICIQ26G			6,5	11	22	0,12	100
4-6	4	●	ICIQ64G	3,6	6,4	4,3	8	21	0,14	100
	5	●	ICIQ65G			5,3	10	22	0,16	100
	6	●	ICIQ66G			6,5	11	23	0,17	100
	8	●	ICIQ68G			8,4	14	26	0,25	100
	10	●	ICIQ610G			10,5	18	28	0,34	100
10	5	●	ICIQ105G	4,5	8	5,3	10,5	24,1	0,23	50
	6	●	ICIQ106G			6,5	10,8	24,6	0,24	50
16	6	●	ICIQ166G	5,8	11	6,5	11	32,2	0,50	50
	8	●	ICIQ168G			8,4	13,8	32,2	0,50	50

Insulated pin terminals DIN 46231



Application: For fine and extra fine stranded conductors  
 Connection material: CU-ETP  
 Surface: galvanically tinned  
 Insulation: PC halogenfree  
 Operation temperature up to 120°C  
 Max. 600 V



Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm					Weight kg / 100 pcs	PU
			d1	d4	d3	l1	l2		
0,1-0,5	●	ICIQ05ST*	1	2,2	1,2	18	9	0,02	100
0,5-1	●	ICIQ1ST	1,7	4	1,9	22,8	11	0,06	100
1,5-2,5	●	ICIQ2ST	2,3	4,5	1,9	22,8	11	0,07	100
1,5-2,5	●	ICIQ2STL	2,3	4,5	1,9	27	14	0,09	100
4-6	●	ICIQ6ST	3,6	6,4	2,8	27	11	0,15	100
10	●	ICIQ10ST*	4,5	7,8	2,4x4,3	34	12	0,25	50
16	●	ICIQ16ST*	5,8	9,1	2,5x5,6	40,7	13,5	0,43	50
25	●	ICIQ25ST*	7	12,4	2,5x6,9	44	16	0,69	50
35	●	ICIQ35ST*	8,4	14	3,2x8,1	52,5	20	1,19	50

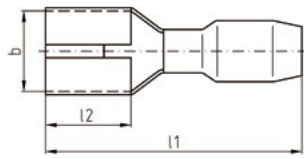
\* = not part of DIN 46231



Tool selection:  
see page 9, page 12, page 13



Insulated female disconnectors

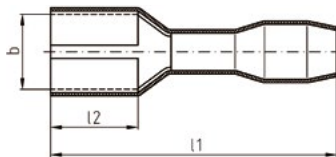


Application: For fine and extra fine stranded conductors  
 Connection material: Brass with copper collar  
 Surface: galvanically tinned  
 Insulation: PVC or PC  
 Operation temperature up to 70°C (PVC) or 125°C (PC)  
 Max. 300 V



Cable mm <sup>2</sup>	Colour	insul. PVC Order No.	insul. PC Order No.	Dimensions in mm				Weight kg / 100 pcs	PU
				Plug width	Plug thick.	l1	l2		
0,1-0,5	●	ICIQ0525FH	-	2,8	0,5	16	6,4	0,04	100
	●	ICIQ0528FH	-	2,8	0,8	16	6,4	0,04	100
0,5-1	●	ICIQ125FH	ICIQ125FHPC	2,8	0,5	19	6,5	0,08	100
	●	ICIQ128FH	ICIQ128FHPC	2,8	0,8	19	6,5	0,08	100
	●	ICIQ145FH	ICIQ145FHPC	4,8	0,5	19,4	6,4	0,09	100
	●	ICIQ148FH	ICIQ148FHPC	4,8	0,8	19,4	6,4	0,09	100
	●	ICIQ168FH	ICIQ168FHPC	6,3	0,8	20,8	7,5	0,11	100
	●	ICIQ168FHGV	-	6,3	0,8	20,8	7,5	0,11	1000*
1,5-2,5	●	ICIQ225FH	ICIQ225FHPC	2,8	0,5	19	6,5	0,08	100
	●	ICIQ228FH	ICIQ228FHPC	2,8	0,8	19	6,5	0,08	100
	●	ICIQ245FH	-	4,8	0,5	19,4	6,4	0,10	100
	●	ICIQ248FH	ICIQ248FHPC	4,8	0,8	19,4	6,4	0,08	100
	●	ICIQ268FH	ICIQ268FHPC	6,3	0,8	20,8	7,3	0,12	100
	●	ICIQ268FHGV	-	6,3	0,8	20,8	7,3	0,12	1000*
4-6	●	ICIQ668FH	ICIQ668FHPC	6,3	0,8	23,3	7,3	0,18	100
	●	ICIQ6912FH	ICIQ6912FHPC	9,5	1,2	28,6	12	0,26	100

Fully insulated female disconnectors



Application: For fine and extra fine stranded conductors  
 Connection material: Brass with copper collar  
 Surface: galvanically tinned  
 Insulation: PA or PC  
 Operation temperature up to 105°C (PA) or 125°C (PC)  
 Max. 300 V



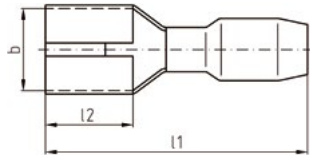
Cable mm <sup>2</sup>	insul. PA Order No.	insul. PC Order No.	Colour	Dimensions in mm				PU
				Plug width	Plug thick.	l1	l2	
0,5-1,5	ICIQ125FHVI	ICIQ125FHVIPC	●	2,8	0,5	19,2	6,4	100
	ICIQ128FHVI	ICIQ128FHVIPC	●	2,8	0,8	19,2	6,4	100
	ICIQ145FHVI	ICIQ145FHVIPC	●	4,8	0,5	20,2	6,4	100
	ICIQ148FHVI	ICIQ148FHVIPC	●	4,8	0,8	20,2	6,4	100
	ICIQ168FHVI	ICIQ168FHVIPC	●	6,3	0,8	21,5	7,3	100
1,5-2,5	ICIQ245FHVI	ICIQ245FHVIPC	●	4,8	0,5	20,2	6,5	100
	ICIQ248FHVI	ICIQ248FHVIPC	●	4,8	0,8	20,2	6,5	100
	ICIQ268FHVI	ICIQ268FHVIPC	●	6,3	0,8	21,5	7,3	100
4-6	ICIQ668FHVI	ICIQ668FHVIPC	●	6,3	0,8	24,2	7,3	100



Tool selection:  
see page 9, page 12, page 13

**INSULATED CRIMPING TERMINALS**

**Insulated female disconnectors, tin bronze**

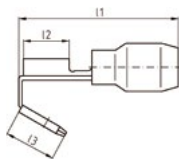


Application: For fine and extra fine stranded conductors  
 Connection material: Tin bronze  
 Surface: galvanically tinned  
 Insulation: PA  
 Operation temperature up to 100°C  
 Max. 300 V



Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm				Weight kg / 100 pcs	PU
			Plug width	Plug thick.	l1	l2		
0,5-1	●	ICIQ125FHB	2,8	0,5	18,4	6,4	0,06	100
	●	ICIQ128FHB	2,8	0,8	18,4	6,4	0,06	100
	●	ICIQ148FHB	4,8	0,8	19	6,2	0,08	100
	●	ICIQ168FHB	6,3	0,8	21	8	0,10	100
1,5-2,5	●	ICIQ268FHB	6,3	0,8	21	8	0,11	100

**Insulated branching disconnectors**

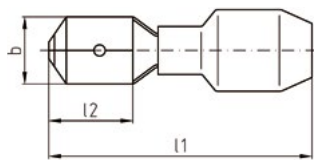


Application: For fine and extra fine stranded conductors  
 Connection material: Brass with copper collar  
 Surface: galvanically tinned  
 Insulation: PVC  
 Operation temperature up to 70°C  
 Max. 300 V



Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm				Weight kg / 100 pcs	PU	
			Plug width	Plug thick.	l1	l2			l3
0,5-1	●	ICIQ1FHA	6,3	0,8	23,9	8	8,2	0,15	100
1,5-2,5	●	ICIQ2FHA	6,3	0,8	23	8	8,2	0,16	100
4-6	●	ICIQ6FHA	6,3	0,8	25	8	8,2	0,18	100

**Insulated plugs for female disconnectors**

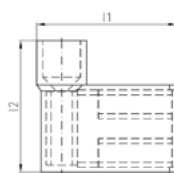
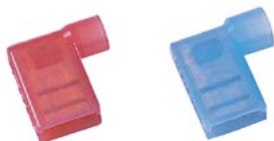


Application: For fine and extra fine stranded conductors  
 Connection material: Brass / Copper  
 Surface: galvanically tinned  
 Insulation: PVC or PC  
 Operation temperature up to 70°C (PVC) or 125°C (PC)  
 Max. 300 V



Cable mm <sup>2</sup>	Colour	insul. PVC Order No.	insul. PC Order No.	Dimensions in mm				Weight kg / 100 pcs	PU
				Plug width	Plug thick.	l1	l2		
0,5-1	●	ICIQ128FS	ICIQ128FSPC	2,8	0,8	19,2	6,5	0,08	100
	●	ICIQ148FS	ICIQ148FSPC	4,8	0,8	19,8	6,7	0,09	100
	●	ICIQ168FS	ICIQ168FSPC	6,3	0,8	21,8	7,7	0,10	100
1,5-2,5	●	ICIQ248FS	ICIQ248FSPC	4,8	0,8	19,8	6,7	0,09	100
	●	ICIQ268FS	ICIQ268FSPC	6,3	0,8	21,8	7,7	0,11	100
4-6	●	ICIQ668FS	ICIQ668FSPC	6,3	0,8	24	7,7	0,18	100

**Fully insulated 90° female disconnectors**

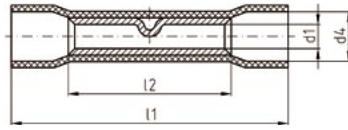


Application: For fine and extra fine stranded conductors  
 Connection material: Brass  
 Surface: galvanically tinned  
 Insulation: PA  
 Operation temperature up to 100°C  
 Max. 300 V



Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm				Weight kg / 100 pcs	PU
			Plug width	Plug thick.	l1	l2		
0,5-1	●	ICIQ168WFHVI	6,3	0,8	16,3	15	0,12	100
1,5-2,5	●	ICIQ268WFHVI	6,3	0,8	16,8	15	0,12	100

Insulated butt connectors



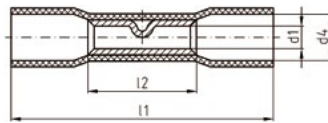
Application: For fine and extra fine stranded conductors  
 Connection material: CU-ETP  
 Surface: galvanically tinned  
 Insulation: PC halogenfree  
 Operation temperature up to 120°C  
 Max. 300 V



E521264

Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm				Weight kg / 100 pcs	PU
			d1	d4	l1	l2		
0,1-0,5	●	ICIQ05V	1,2	2	20	12	0,03	100
0,5-1	●	ICIQ1V	1,6	4,1	25	15	0,09	100
0,5-1	●	ICIQ1VGV	1,6	4,1	25	15	0,09	1000*
1,5-2,5	●	ICIQ2V	2,3	4,5	26	15	0,11	100
1,5-2,5	●	ICIQ2VGV	2,3	4,5	26	15	0,11	1000*
4,6	●	ICIQ6V	3,6	6,4	27	15	0,18	100

Insulated butt connectors with shrinkable PA insulation



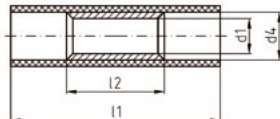
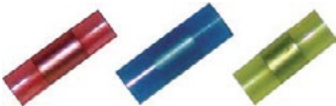
Application: For fine and extra fine stranded conductors  
 Connection material: CU-ETP  
 Surface: galvanically tinned  
 Insulation: PA  
 Shrinkable insulation T. 120°C  
 Max. 300 V



E521264

Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm				Weight kg / 100 pcs	PU
			d1	d4	l1	l2		
0,14-0,5	●	ICIQ05WSV	1,4	3,1	24,5	11,5	0,04	50
0,5-1	●	ICIQ1WSV	1,7	4,4	36	15	0,09	50
1,5-2,5	●	ICIQ2WSV	2,3	5,2	36	15	0,11	50
4-6	●	ICIQ6WSV	3,6	6,5	41	15	0,18	20

Insulated parallel connectors



Application: For fine and extra fine stranded conductors  
 Connection material: CU-ETP  
 Surface: galvanically tinned  
 Insulation: PA halogenfree  
 Max. 300 V



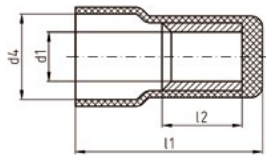
Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm				Weight kg / 100 pcs	PU
			d1	d4	l1	l2		
0,1-0,5	●	ICIQ05PV	1,2	2	12	5	0,01	100
0,5-1	●	ICIQ1PV	1,7	3,2	17	7	0,04	100
1,5-2,5	●	ICIQ2PV	2,3	4	17	7	0,05	100
4-6	●	ICIQ6PV	3,6	5,4	21,2	7	0,09	100



Tool selection:  
 see page 9, page 12, page 13

**INSULATED CRIMPING TERMINALS**

Insulated closed end connectors

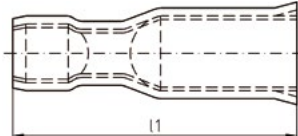


Application: For fine and extra fine stranded conductors  
 Connection material: CU-ETP  
 Surface: galvanically tinned  
 Insulation: PA halogenfree  
 Max. 300 V



Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm				Weight kg / 100 pcs	PU
			d1	d4	l1	l2		
0,5-1,5	● transparent	ICIQ1EV	2,3	6	15,2	8,8	0,04	100
1,5-2,5	● transparent blue	ICIQ2EV	2,3	6,4	15,4	8	0,05	100
4-6	● transparent yellow	ICIQ6EV	3,4	9,2	17,7	8,5	0,09	100
10	● transparent	ICIQ10EV	5	11,8	22	8	0,16	50

Insulated round female connectors

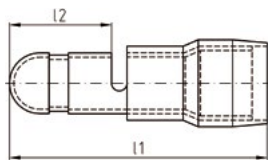


Application: For fine and extra fine stranded conductors  
 Connection material: Brass / copper  
 Surface: galvanically tinned  
 Insulation: PVC  
 Operation temperature up to 70°C  
 Max. 300 V



Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm		Weight kg / 100 pcs	PU
			Plug Ø	l1		
0,5-1	●	ICIQ1RSH	4	23,3	0,13	100
1,5-2,5	●	ICIQ2RSH	5	23,3	0,16	100
4-6	●	ICIQ6RSH	5	25,1	0,23	100

Insulated round plugs



Application: For fine and extra fine stranded conductors  
 Connection material: Brass / copper  
 Surface: galvanically tinned  
 Insulation: PVC or PC  
 Operation temperature up to 70°C (PVC) or 120°C (PC)  
 Max. 300 V

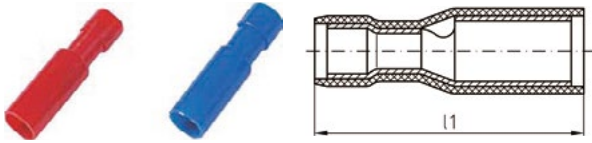


Cable mm <sup>2</sup>	Colour	insul. PVC	insul. PC	Dimensions in mm			Weight kg / 100 pcs	PU
		Order No.	Order No.	Stecker Ø	l1	l2		
0,5-1	●	ICIQ1RST	ICIQ1RSTPC	4	21,5	8,5	0,09	100
1,5-2,5	●	ICIQ2RST	ICIQ2RSTPC	5	21,2	8,5	0,11	100
4-6	●	ICIQ6RST	ICIQ6RSTPC	5	24	8,5	0,17	100



Tool selection:  
see page 9, page 12, page 13

Fully insulated round female connectors

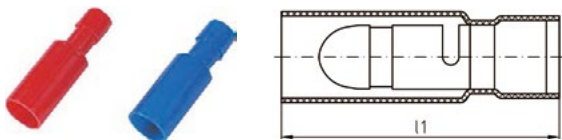


Application: For fine and extra fine stranded conductors  
 Connection material: Brass / copper  
 Surface: galvanically tinned  
 Insulation: PA halogenfree  
 Max. 300 V



Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm		Weight kg / 100 pcs	PU
			Plug Ø	l1		
0,5-1	●	ICIQ1RSHVI	4	25,2	0,12	100
1,5-2,5	●	ICIQ2RSHVI	4	25,2	0,13	100

Fully insulated round plugs



Application: For fine and extra fine stranded conductors  
 Connection material: Brass / copper  
 Surface: galvanically tinned  
 Insulation: PA halogenfree  
 Max. 300 V

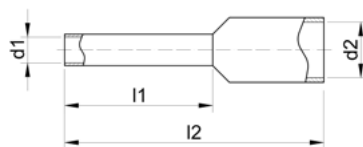


Cable mm <sup>2</sup>	Colour	Order No.	Dimensions in mm		Weight kg / 100 pcs	PU
			Plug Ø	l1		
0,5-1	●	ICIQ1RSTVI	4	27	0,13	100
1,5-2,5	●	ICIQ2RSTVI	4	27	0,15	100



Tool selection:  
 see page 9, page 12, page 13

CABLE END-SLEEVES



Cu-ETP 99,9%, Sn / Copper tinned  
PP (Polipropilene insulation)  
T 105°C max.  
Halogen Free



mm <sup>2</sup>	Color 1		Color 2		DIN 46228/4	d1	d2	l2	l1	PU	
0,14	●	ICIAE0146	●	ICIAE0146BR		0,7	1,6	10	<b>6</b>	100	
	●	ICIAE0148	●	ICIAE0148BR		0,7	1,6	12	<b>8</b>	100	
0,25	●	ICIAE0256	●	ICIAE0256HGE		0,75	1,8	10	<b>6</b>	100	
	●	ICIAE0258	●	ICIAE0258HGE		0,75	1,8	12	<b>8</b>	100	
0,34	●	ICIAE0346	●	ICIAE0346HGRÜ		0,8	2,0	10	<b>6</b>	100	
	●	ICIAE0348	●	ICIAE0348HGRÜ		0,8	2,0	12	<b>8</b>	100	
0,5	●	ICIAE056OR*	●	ICIAE056*	●	ICIAE056*	1,0	2,6	12	<b>6</b>	100
	●	ICIAE058OR*	●	ICIAE058*	●	ICIAE058*	1,0	2,6	14	<b>8</b>	100
	●	ICIAE0510OR*	●	ICIAE0510*	●	ICIAE0510*	1,0	2,6	16	<b>10</b>	100
0,75	●	ICIAE0756WE*	●	ICIAE0756B*	●	ICIAE07506*	1,2	2,8	12	<b>6</b>	100
	●	ICIAE0758WE*	●	ICIAE0758B*	●	ICIAE07508*	1,2	2,8	14	<b>8</b>	100
	●	ICIAE07510WE*	●	ICIAE07510BL*	●	ICIAE07510*	1,2	2,8	16	<b>10</b>	100
	●	ICIAE07512WE*	●	ICIAE07512BL*	●	ICIAE07512*	1,2	2,8	18	<b>12</b>	100
1	●	ICIAE16GE*	●	ICIAE16*	●	ICIAE16*	1,4	3,0	12	<b>6</b>	100
	●	ICIAE18GE*	●	ICIAE18*	●	ICIAE18*	1,4	3,0	14	<b>8</b>	100
	●	ICIAE110GE*	●	ICIAE110*	●	ICIAE110*	1,4	3,0	16	<b>10</b>	100
	●	ICIAE112GE*	●	ICIAE112*	●	ICIAE112*	1,4	3,0	18	<b>12</b>	100
1,5	●	ICIAE158RO*	●	ICIAE158*	●	ICIAE158*	1,7	3,5	14	<b>8</b>	100
	●	ICIAE1510RO*	●	ICIAE1510*	●	ICIAE1510*	1,7	3,5	16	<b>10</b>	100
	●	ICIAE1512RO*	●	ICIAE1512*	●	ICIAE1512*	1,7	3,5	18	<b>12</b>	100
	●	ICIAE1518RO*	●	ICIAE1518*	●	ICIAE1518*	1,7	3,5	24	<b>18</b>	100
2,5	●	ICIAE28*	●	ICIAE28GR*	●	ICIAE28*	2,2	4,2	14	<b>8</b>	100
	●	ICIAE212*	●	ICIAE212GR*	●	ICIAE212*	2,2	4,2	18	<b>12</b>	100
	●	ICIAE218*	●	ICIAE218GR*	●	ICIAE218*	2,2	4,2	24	<b>18</b>	100
4	●	ICIAE410*	●	ICIAE410OR*	●	ICIAE410*	2,8	4,8	17	<b>10</b>	100
	●	ICIAE412*	●	ICIAE412OR*	●	ICIAE412*	2,8	4,8	20	<b>12</b>	100
	●	ICIAE418*	●	ICIAE418OR*	●	ICIAE418*	2,8	4,8	26	<b>18</b>	100
6	●	ICIAE612SCH*	●	ICIAE612GRÜ*	●	ICIAE612*	3,5	6,3	20	<b>12</b>	100
	●	ICIAE618SCH*	●	ICIAE618GRÜ*	●	ICIAE618*	3,5	6,3	26	<b>18</b>	100
10	●	ICIAE1012ELF*	●	ICIAE1012BR*	●	ICIAE1012*	4,5	7,6	22	<b>12</b>	100
	●	ICIAE1018ELF*	●	ICIAE1018BR*	●	ICIAE1018*	4,5	7,6	28	<b>18</b>	100
16	●	ICIAE1612GRÜ*	●	ICIAE1612ELF*	●	ICIAE1612*	5,8	8,8	24	<b>12</b>	100
	●	ICIAE1618GRÜ*	●	ICIAE1618ELF*	●	ICIAE1618*	5,8	8,8	28	<b>18</b>	100
25	●	ICIAE2516BR*	●	ICIAE2516SCH*	●	ICIAE2516*	7,3	11,2	30	<b>16</b>	50
	●	ICIAE2518BR*	●	ICIAE2518SCH*	●	ICIAE2518*	7,3	11,2	32	<b>18</b>	50
	●	ICIAE2522BR*	●	ICIAE2522SCH*	●	ICIAE2522*	7,3	11,2	36	<b>22</b>	50
35	●	ICIAE3516BE*			●	ICIAE3516*	8,3	12,7	30	<b>16</b>	50
	●	ICIAE3518BE*			●	ICIAE3518*	8,3	12,7	32	<b>18</b>	50
	●	ICIAE3525BE*			●	ICIAE3525*	8,3	12,7	39	<b>25</b>	50
50	●	ICIAE5020OL*			●	ICIAE5020*	10,3	15,0	36	<b>20</b>	50
	●	ICIAE5025OL*			●	ICIAE5025*	10,3	15,0	40	<b>25</b>	50
70	●	ICIAE7021					13,5	16,0	37	<b>21</b>	25
95	●	ICIAE9525					14,5	18,0	44	<b>25</b>	25
120	●	ICIAE12027					16,5	20,0	48	<b>27</b>	10
150	●	ICIAE15032					19,5	23,0	58	<b>32</b>	10

\* UL certificated

Insulated end-sleeves for short-circuit-proof cables with wider collar



Cu-ETP 99,9%, Sn / Copper tinned  
PP (Polipropilene insulation)  
T 105°C max.  
Halogen Free



mm <sup>2</sup>	l mm	Color	Order No.	mm				kg (/1000)	Pack
				l1	l2	d1	d2		
1,5	8	●	ICIAE158K	17,5	8	1,8	7,5	0,08	100
	10	●	ICIAE1510K	19,5	10			0,10	100
2,5	8	●	ICIAE28K	17,5	8	2,3	8	0,09	100
	12	●	ICIAE212K	21,5	12			0,14	100
4	10	●	ICIAE410K	19,5	10	2,9	9,5	0,18	100
6	12	●	ICIAE612K	23	12	3,6	10	0,28	100
10	12	●	ICIAE1012K	24	12	4,6	11,5	0,39	100
16	12	●	ICIAE1612K	25,5	12	6	13,5	0,50	100

Insulated twin end-sleeves



Cu-ETP 99,9%, Sn / Copper tinned  
PP (Polipropilene insulation)  
T 105°C max.  
Halogen Free



mm <sup>2</sup>	Color 1	Color 2	DIN 46228/4	d1	d2	d3	l2	l1	PU
2 x 0,25	● ICIAE0258Z			1,15	1,8	3,4	15	8	100
2 x 0,34	● ICIAE0348Z			1,15	1,8	3,4	15	8	100
2 x 0,5	● ICIAE058ZOR	● ICIAE058Z	● ICIAE058Z	1,4	2,5	4,7	15	8	100
2 x 0,75	● ICIAE0756ZWE	● ICIAE0756ZBL	● ICIAE0756Z	1,8	2,8	5	13	6	100
	● ICIAE0758ZWE	● ICIAE0758ZBL	● ICIAE0758Z	1,8	2,8	5	15	8	100
	● ICIAE07510ZWE	● ICIAE07510ZBL	● ICIAE07510Z	1,8	2,8	5	17	10	100
2 x 1	● ICIAE16ZGE	● ICIAE16Z	● ICIAE16Z	2	3,4	5,4	13	6	100
	● ICIAE18ZGE	● ICIAE18Z	● ICIAE18Z	2	3,4	5,4	15	8	100
	● ICIAE110ZGE	● ICIAE110Z	● ICIAE110Z	2	3,4	5,4	17	10	100
	● ICIAE118ZGE	● ICIAE118Z	● ICIAE118Z	2	3,4	5,4	25	18	100
2 x 1,5	● ICIAE158ZRO	● ICIAE158Z	● ICIAE158Z	2,3	3,6	6,6	16	8	100
	● ICIAE1512ZRO	● ICIAE1512Z	● ICIAE1512Z	2,3	3,6	6,6	20	12	100
	● ICIAE1518ZRO	● ICIAE1518Z	● ICIAE1518Z	2,3	3,6	6,6	26	18	100
2 x 2,5	● ICIAE210Z	● ICIAE210ZGR	● ICIAE210Z	2,9	4,2	7,8	18,5	10	100
	● ICIAE213Z	● ICIAE213ZGR	● ICIAE213Z	2,9	4,2	7,8	21,5	13	100
2 x 4	● ICIAE412Z	● ICIAE412ZOR	● ICIAE412Z	3,7	4,9	8,8	23	12	100
2 x 6	● ICIAE614ZSCH	● ICIAE614ZGRÜ	● ICIAE614Z	4,8	6,9	10	26	14	100
2 x 10	● ICIAE1014ZELF	● ICIAE1014ZBR	● ICIAE1014Z	6,4	7,2	13	26	14	100
2 x 16	● ICIAE1614ZGRÜ	● ICIAE1614ZELF	● ICIAE1614Z	8,2	9,6	18,4	30	14	50



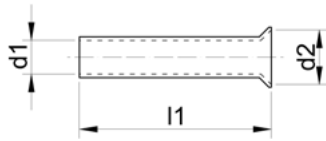
Tool selection for end-sleeves:  
see page 10, page 11, page 12, page 13

Crimping dies for end-sleeves:  
page 100



**CABLE END-SLEEVES**

Uninsulated end-sleeves DIN 46228



Cu-ETP 99,9%, Sn / Copper tinned (DIN EN 13600)

DIN 46228 p. 1. (exc.: \*)



mm <sup>2</sup>	Order No.	mm			kg (/1000)	Pack
		l1	d1	d2		
0,14	ICAE0147	7	0,65		0,03	500
0,25	ICAE0255*	5	0,75		0,03	500
	ICAE0257*	7			0,04	500
0,34	ICAE0345*	5	0,85		0,03	500
	ICAE0347*	7			0,04	500
0,5	ICAE056	6	1,1	2,1	0,04	500
	ICAE058*	8			0,05	500
	ICAE0510	10			0,06	500
0,75	ICAE0756	6	1,3	2,3	0,04	500
	ICAE0758	8			0,05	500
	ICAE07510	10			0,07	500
1	ICAE16	6	1,5	2,5	0,05	500
	ICAE18*	8			0,06	500
	ICAE110	10			0,08	500
1,5	ICAE157	7	1,9	2,8	0,07	500
	ICAE1510	10			0,10	500
	ICAE1512	12			0,11	500
	ICAE1515*	15			0,15	500
2,5	ICAE27	7	2,3	3,4	0,08	500
	ICAE210	10			0,10	500
	ICAE212	12			0,14	500
	ICAE215*	15			0,18	500
	ICAE218	18			0,21	500
4	ICAE49	9	2,9	4,0	0,17	100
	ICAE412	12			0,22	100
	ICAE418	18			0,34	100
6	ICAE610	10	3,5	4,7	0,23	100
	ICAE612	12			0,28	100
	ICAE615	15			0,36	100
	ICAE618	18			0,41	100



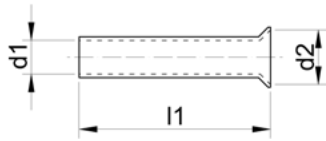
Tool selection for end-sleeves:  
see page 10, page 11, page 12, page 13

Crimping dies for end-sleeves:  
page 100





Uninsulated end-sleeves DIN 46228



Cu-ETP 99,9%, Sn / Copper tinned (DIN EN 13600)

DIN 46228 p. 1. (exc.: \*)



mm <sup>2</sup>	Order No.	mm			kg (/1000)	Pack
		l1	d1	d2		
10	ICAE1010*	10	4,6	5,8	0,30	100
	ICAE1012	12			0,39	100
	ICAE1015	15			0,45	100
	ICAE1018	18			0,58	100
16	ICAE1612	12	6	7,5	0,50	100
	ICAE1615	15			0,56	100
	ICAE1618	18			0,74	100
	ICAE1625	25			1,00	100
	ICAE1632	32			1,24	100
25	ICAE2512*	12	7,5	9,5	0,61	50
	ICAE2515	15			0,93	50
	ICAE2518	18			0,93	50
	ICAE2525	25			1,26	50
	ICAE2532	32			1,55	50
35	ICAE3518	18	8,5	11,0	1,04	50
	ICAE3525	25			1,38	50
	ICAE3532	32			1,99	50
50	ICAE5018	18	10,5		1,94	50
	ICAE5022*	22			2,31	50
	ICAE5025	25			2,59	50
	ICAE5032	32			3,02	50
70	ICAE7025*	25	12,7		3,68	25
	ICAE7032*	32			4,85	25
95	ICAE9525*	25	14,7		4,24	25
	ICAE9532*	32			5,30	25
120	ICAE12032*	32	16,7		7,87	10
	ICAE12040*	40			10,11	10
150	ICAE15032*	32	18,7		8,89	10
	ICAE15040*	40			10,70	10
185	ICAE18540*	40	20,2		14,37	10
240	ICAE24034*	34	23,1		13,04	10
	ICAE24040*	40			15,34	10



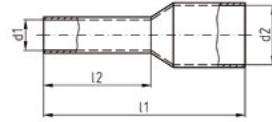
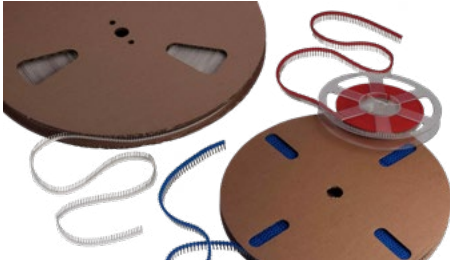
Tool selection for end-sleeves:  
see page 10, page 11, page 12, page 13

Crimping dies for end-sleeves:  
page 100



**CABLE END-SLEEVES**

Insulated end-sleeves on reels

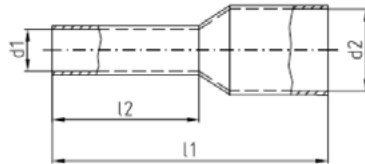


Cu-ETP 99,9%, Sn / Copper tinned  
PP (Polipropilene insulation)  
T 105°C max.  
Halogen Free



mm <sup>2</sup>	Color	Order No. Reel Ø 18 cm	Qty / Reel	Order No. Reel Ø 32 cm	Qty / Reel	Order No. Reel Ø 45 cm	Qty / Reel	d1	d2	l1	l2
0,5	●	TPD0508BL	1.000	TPD0508BM	4.000	TPD0508BL	10.000	1,0	2,6	14,0	8,0
0,75	●	TPD7508BL	1.000	TPD7508BM	4.000	TPD7508BL	10.000	1,2	2,8	14,0	8,0
1	●	TPD0108BL	800	TPD0108BM	3.500	TPD0108BL	7.500	1,4	3,0	14,0	8,0
1,5	●	TPD1508BL	800	TPD1508BM	3.500	TPD1508BL	7.500	1,7	3,5	14,0	8,0
2,5	●	TPD2508BL	500	TPD2508BM	2.500	TPD2508BL	5.000	2,2	4,2	14,0	8,0

Insulated end-sleeves on strips

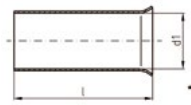


Cu-ETP 99,9%, Sn / Copper tinned  
PP (Polipropilene insulation)  
T 105°C max.  
Halogen Free

DIN 46228 p. 4.



mm <sup>2</sup>	l mm	Color DIN		Color 1		mm				kg (/1000)	Pack
		Order No.	Order No.	Order No.	Order No.	l1	l2	d1	d2		
0,5	8	●	ICIAE058STF	●	ICIAE058ORSTF	14	8	1	2,6	0,05	500
0,75	8	●	ICIAE0758STF	●	ICIAE0758WESTF	14	8	1,2	2,8	0,05	500
1	8	●	ICIAE18STF	●	ICIAE18GESTF	14	8	1,4	3	0,06	500
1,5	8	●	ICIAE158STF	●	ICIAE158ROSTF	14	8	1,7	3,5	0,08	500
2,5	8	●	ICIAE28STF	●	ICIAE28STF	14	8	2,2	4,2	0,09	500

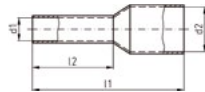


SETAE2 - box kit of uninsulated end-sleeves  
0,5 - 2,5 mm<sup>2</sup>

Pcs	Cross-section	Dimensions in mm		Articles in the box
		l	d1	
300	0,5 mm <sup>2</sup>	6	1,1	ICAE056
300	0,75 mm <sup>2</sup>	6	1,3	ICAE0756
300	1 mm <sup>2</sup>	6	1,5	ICAE16
300	1,5 mm <sup>2</sup>	7	1,9	ICAE157
200	2,5 mm <sup>2</sup>	7	2,3	ICAE27

Order No.: SETAE2

0,12 kg

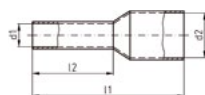


SETIAE2 - box kit of insulated end-sleeves  
0,5 - 2,5 mm<sup>2</sup>

Pcs	Cross-section	Dimensions in mm				Articles in the box
		l1	l2	d1	d2	
50	0,5 mm <sup>2</sup>	14	8	1	2,6	ICIAE058
100	0,75 mm <sup>2</sup>	14	8	1,2	2,8	ICIAE0758
100	1 mm <sup>2</sup>	14	8	1,4	3	ICIAE18
100	1,5 mm <sup>2</sup>	14	8	1,7	3,5	ICIAE158
50	2,5 mm <sup>2</sup>	14	8	2,2	4,2	ICIAE28

Order No.: SETIAE2

0,10 kg

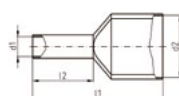


SETIAE16 - box kit of insulated end-sleeves  
4 - 16 mm<sup>2</sup>

Pcs	Cross-section	Dimensions in mm				Articles in the box
		l1	l2	d1	d2	
50	4 mm <sup>2</sup>	17	12	2,8	4,8	ICIAE410
20	6 mm <sup>2</sup>	20	12	3,5	6,3	ICIAE612
20	10 mm <sup>2</sup>	22	12	4,5	7,6	ICIAE1012
10	16 mm <sup>2</sup>	24	12	5,8	8,8	ICIAE1612

Order No.: SETIAE16

0,10 kg



SETIAE2Z - box kit of insulated end-sleeves  
twin 0,75 - 2,5 mm<sup>2</sup>

Pcs	Cross-section	Dimensions in mm				Articles in the box
		l1	l2	d1	d2	
50	0,75 mm <sup>2</sup>	15	8	1,8	2,8/5,0	ICIAE0758Z
50	1 mm <sup>2</sup>	15	8	2	3,4/5,4	ICIAE18Z
50	1,5 mm <sup>2</sup>	16	8	2,3	3,6/6,6	ICIAE158Z
50	2,5 mm <sup>2</sup>	18,5	10	2,9	4,2/7,8	ICIAE210Z

Order No.: SETIAE2Z


0,09 kg

**CABLE END-SLEEVES RELATED CRIMPING DIES**

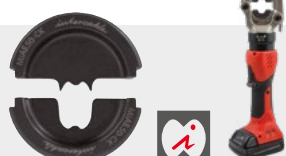
	TOOL SERIES 50 50 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-1, 60-3 60 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-2 60 kN, 10 - 300 mm <sup>2</sup>	TOOL SERIES 130 130 kN, 10 - 400 mm <sup>2</sup>
hand-mechanic page 15		MP60-1      MP60-3	MP60-2	
hydraulic head page 24		PP60-1	PP60-2	PP130-C    PP130-C2    PP130-H
hand-hydraulic page 18	HP50	HP60-3	HP60-4	HP1130-C    HP1130-C2    HP1130-H
accu-hydraulic page 20	STILO50	AP60-1	STILO60    AP60-2	AP130-C    AP130-C2    AP130-H








	CRIMPING DIES SERIES 50, 60-1, 60-3				CRIMPING DIES SERIES 60-2				CRIMPING DIES SERIES 130	
mm <sup>2</sup>	Crimping width	Order No.	Crimping width	Order No.	Crimping width	Order No.	Crimping width	Order No.	Crimping width	Order No.
10	20 mm	MTT10-50	18 mm	U5-T10	20 mm	MTT10-CK	18 mm	MIAE10-CK		
16	20 mm	MTT16-50	18 mm	U5-T16	20 mm	MTT16-CK	18 mm	MIAE16-CK	20 mm	MTT16-C
25	20 mm	MTT25-50	18 mm	U5-T25	20 mm	MTT25-CK	18 mm	MIAE25-CK	20 mm	MTT25-C
35	20 mm	MTT35-50	18 mm	U5-T35	20 mm	MTT35-CK	18 mm	MIAE35-CK	20 mm	MTT35-C
50	20 mm	MTT50-50	18 mm	U5-T50	20 mm	MTT50-CK	18 mm	MIAE50-CK	26 mm	MTT50-C
70	20 mm	MTT70-50	18 mm	U5-T70	20 mm	MTT70-CK	18 mm	MIAE70-CK	26 mm	MTT70-C
95	20 mm	MTT95-50	18 mm	U5-T95	20 mm	MTT95-CK	18 mm	MIAE95-CK	26 mm	MTT95-C
120			18 mm	U5-T120	20 mm	MTT120-CK	18 mm	MIAE120-CK	26 mm	MTT120-C
150					20 mm	MTT150-CK	18 mm	MIAE150-CK	26 mm	MTT150-C
185					20 mm	MTT185-CK	18 mm	MIAE185-CK	26 mm	MTT185-C
240					20 mm	MTT240-CK	18 mm	MIAE240-CK	28 mm	MTT240-C






Hand tool selection for end-sleeves:  
see page 10, page 11, page 12, page 13



CRIMPING DIES FOR CU DIN 46234, 46230, 46341 AND NI, STEEL TERMINALS

	TOOL SERIES 50 50 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-1, 60-3 60 kN, 10 - 240 mm <sup>2</sup>	TOOL SERIES 60-2 60 kN, 10 - 300 mm <sup>2</sup>	TOOL SERIES 130 130 kN, 10 - 400 mm <sup>2</sup>
hand-mechanic	page 15	 MP60-1      MP60-3	 MP60-2	
hydraulic head	page 24	 PP60-1	 PP60-2	 PP130-C    PP130-C2    PP130-H
hand-hydraulic	page 18  HP50	 HP60-3	 HP60-4	 HPI130-C    HPI130-C2    HPI130-H
accu-hydraulic	page 20  STILO50	 AP60-1	 STILO60      AP60-2	 AP130-C    AP130-C2    AP130-H



	CRIMPING DIES SERIES 50, 60-1, 60-3	CRIMPING DIES SERIES 60-2	CRIMPING DIES SERIES 130
			
mm <sup>2</sup>	Order No.	Order No.	Order No.
10	MD10-50	MD10-CK	MD10-C
16	MD16-50	MD16-CK	MD16-C
25	MD25-50	MD25-CK	MD25-C
35	MD35-50	MD35-CK	MD35-C
50	MD50-50	MD50-CK	MD50-C
70	MD70-50	MD70-CK	MD70-C
95	MD95-50	W91738	MD95-C
120		W91739	MD120-C
150			MD150-C

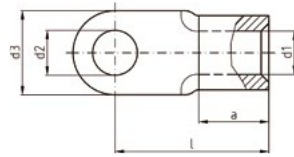


Hand tool selection for the ICQ DIN connectors:  
see page 9, page 13



**UNINSULATED CRIMPING TERMINALS**

Uninsulated copper sheet cable lugs DIN 46234

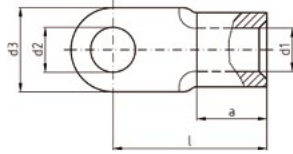


Application: For multi-, fine- and extra-fine-stranded conductors  
 Material: Cu-HCP  
 Surface: galvanically tinned  
 Cable cross-section: 0,5 - 240 mm<sup>2</sup>

Cable mm <sup>2</sup>	Screw M	Order No.	Dimensions in mm					Weight kg / 100 pcs	PU
			d1	d2	d3	l	a		
0,5-1	2	ICQ12*	1,6	2,2	6	11	5	0,06	100
	2,5	ICQ125		2,7	6	11		0,06	100
	3	ICQ13		3,2	6	11		0,06	100
	3,5	ICQ135		3,7	6	11		0,06	100
	4	ICQ14		4,3	8	12		0,07	100
	5	ICQ15		5,3	10	13		0,08	100
	6	ICQ16*		6,5	10	13		0,08	100
	8	ICQ18*		8,4	12	17		0,10	100
	10	ICQ110*	10,5	14	17	0,10	100		
1,5-2,5	3	ICQ23	2,3	3,2	6	11	5	0,07	100
	3,5	ICQ235		3,7	6	11		0,06	100
	4	ICQ24		4,3	8	12		0,08	100
	5	ICQ25		5,3	10	14		0,10	100
	6	ICQ26		6,5	11	16		0,11	100
	8	ICQ28		8,4	14	17		0,14	100
		10		ICQ210*	10,5	18		20	0,19
	12	ICQ212*	13	18	20	0,16	100		
4-6	4	ICQ64	3,6	4,3	8	14	6	0,14	100
	5	ICQ65		5,3	10	15		0,16	100
	6	ICQ66		6,5	11	16		0,17	100
	8	ICQ68		8,4	14	19		0,22	100
	10	ICQ610		10,5	18	21		0,27	100
	12	ICQ612*		13	18	21		0,24	100
10	4	ICQ104*	4,5	4,3	10	16	8	0,23	100
	5	ICQ105		5,3	10	16		0,23	100
	6	ICQ106		6,5	11	17		0,24	100
	8	ICQ108		8,4	14	20		0,30	100
	10	ICQ1010		10,5	18	21		0,35	100
	12	ICQ1012		13	22	23		0,41	100
16	5	ICQ165	5,8	5,3	11	20	10	0,40	100
	6	ICQ166		6,5	11	20		0,38	100
	8	ICQ168		8,4	14	22		0,43	100
	10	ICQ1610		10,5	18	24		0,50	100
	12	ICQ1612		13	22	26		0,59	100
25	5	ICQ255	7,5	5,3	12	25	11	0,71	100
	6	ICQ256		6,5	12	25		0,69	100
	8	ICQ258		8,4	16	25		0,76	100
	10	ICQ2510		10,5	18	26		0,79	100
	12	ICQ2512		13	22	31		0,97	100
	16	ICQ2516		17	28	35		1,20	100
35	6	ICQ356	9	6,5	15	26	12	0,97	50
	8	ICQ358		8,4	16	26		0,97	50
	10	ICQ3510		10,5	18	27		1,01	50
	12	ICQ3512		13	22	31		1,17	50
	16	ICQ3516		17	28	36		1,41	50
	20	ICQ3520*		21	30	37,5		1,68	50

\* = not part of DIN 46234

Uninsulated copper sheet cable lugs DIN 46234



Application: For multi-, fine- and extra-fine-stranded conductors  
 Material: Cu-HCP  
 Surface: galvanically tinned  
 Cable cross-section: 0,5 - 240 mm<sup>2</sup>

Cable mm <sup>2</sup>	Screw M	Order No.	Dimensions in mm					Weight kg / 100 pcs	PU
			d1	d2	d3	l	a		
50	6	ICQ506	11	6,5	18	34	16	1,76	50
	8	ICQ508		8,4	18	34		1,71	50
	10	ICQ5010		10,5	18	34		1,74	50
	12	ICQ5012		13	22	36	18	1,80	50
	16	ICQ5016		17	28	40		2,19	50
	20	ICQ5020*		21	32	41,2		2,57	50
70	6	ICQ706	13	6,5	22	38	18	2,58	50
	8	ICQ708		8,4	22	38		2,63	50
	10	ICQ7010		10,5	22	38		2,55	50
	12	ICQ7012		13	22	38	19	2,58	50
	16	ICQ7016		17	28	42		2,68	50
	20	ICQ7020*		21	32	45		3,06	50
95	8	ICQ958	15	8,4	24	42	20	4,09	50
	10	ICQ9510		10,5	24	42		4,22	50
	12	ICQ9512		13	24	42		3,92	50
	16	ICQ9516		17	28	44		3,94	50
120	8	ICQ1208	16,5	8,4	24	44	22	5,63	50
	10	ICQ12010		10,5	24	44		5,56	50
	12	ICQ12012		13	24	44		5,33	50
	16	ICQ12016		17	28	48	21	5,67	50
	20	ICQ12020*		21	32	53		5,60	50
150	10	ICQ15010	19	10,5	30	50	24	8,02	25
	12	ICQ15012		13	30	50		7,84	25
	16	ICQ15016		17	30	50	27	7,56	25
	20	ICQ15020*		21	36	63		7,35	25
185	10	ICQ18510	21	10,5	36	50	28	10,60	25
	12	ICQ18512		13	36	50		10,78	25
	16	ICQ18516		17	36	50		10,61	25
	20	ICQ18520*		21	36	50		10,17	25
240	10	ICQ24010	23,5	10,5	38	56	32	15,01	25
	12	ICQ24012		13	38	56		14,98	25
	16	ICQ24016		17	38	56		14,53	25



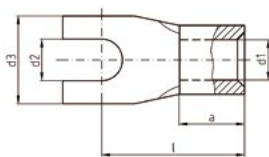
Tool selection for the ICQ DIN connectors:  
 see page 9, page 13

Crimping dies for ICQ DIN connectors:  
 page 101



## UNINSULATED CRIMPING TERMINALS

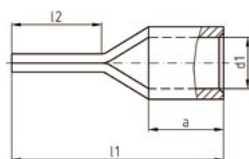
### Uninsulated copper sheet cable terminals DIN 46234, fork form



Application: For multi-, fine- and extra-fine-stranded conductors  
Material: Cu-HCP  
Surface: galvanically tinned  
Cable cross-section: 0,5 - 16 mm<sup>2</sup>

Cable mm <sup>2</sup>	Screw M	Order No.	Dimensions in mm					Weight kg / 100 pcs	VE
			d1	d2	d3	l	a		
<b>0,5-1</b>	3	ICQ13G	1,6	3,2	6	11	5	0,06	100
	3,5	ICQ135G		3,7	6	11		0,05	100
	4	ICQ14G		4,3	8	12		0,07	100
	5	ICQ15G		5,3	10	13		0,08	100
	6	ICQ16G		6,5	12	17		0,09	100
<b>1,5-2,5</b>	3	ICQ23G	2,3	3,2	6	11	5	0,06	100
	3,5	ICQ235G		3,7	6,8	11		0,07	100
	4	ICQ24G		4,3	8	12		0,08	100
	5	ICQ25G		5,3	10	14		0,10	100
	6	ICQ26G		6,5	11	16		0,12	100
<b>4-6</b>	4	ICQ64G	3,6	4,3	8	14	6	0,14	100
	5	ICQ65G		5,3	10	15		0,16	100
	6	ICQ66G		6,5	11	16		0,17	100
	8	ICQ68G		8,4	14	19		0,25	100
<b>10</b>	5	ICQ105G	4,5	5,3	10	16	8	0,23	100
	6	ICQ106G		6,5	11	17		0,24	100
<b>16</b>	6	ICQ166G	5,8	6,5	11	20	10	0,50	50
	8	ICQ168G		8,4	14	22		0,50	50

### Uninsulated pin terminals DIN 46230



Application: For multi-, fine- and extra-fine-stranded conductors  
Material: Cu-HCP  
Surface: galvanically tinned  
Cable cross-section: 0,5 - 95 mm<sup>2</sup>

Cable mm <sup>2</sup>	Order No.	Dimensions in mm					Weight kg / 100 pcs	VE
		d1	l1	l2	a	ø Stift		
<b>0,5-1</b>	ICQ1ST	1,6	17	10	5	1,9	0,06	100
<b>1,5-2,5</b>	ICQ2ST	2,3	17	10	5	1,9	0,07	100
<b>4-6</b>	ICQ6ST	3,6	20	11	6	2,6	0,15	100
<b>10</b>	ICQ10ST	4,5	22	12	8	2,3 x 4,2	0,25	100
<b>16</b>	ICQ16ST	5,8	26	13	10	2,5 x 5,6	0,43	100
<b>25</b>	ICQ25ST*	7	34,1	16	14	2,5 x 6,9	0,69	50
<b>35</b>	ICQ35ST*	8,4	41	20	16	3,2 x 8,1	1,19	50
<b>50</b>	ICQ50ST*	9,5	45,7	21	19	3,7 x 9,5	1,89	50
<b>70</b>	ICQ70ST*	11,2	55	24	24	4 x 11	3,01	50
<b>95</b>	ICQ95ST*	13,5	55,5	22	24	5,1 x 12,3	4,25	50



Tool selection for the ICQ DIN connectors:  
see page 9, page 13

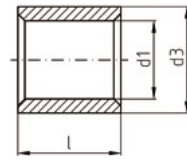
Crimping dies for ICQ DIN connectors:  
page 101





UNINSULATED CRIMPING TERMINALS

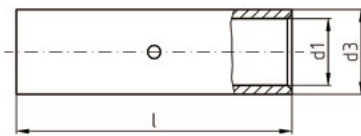
Parallel connectors DIN 46341 part 1, Form A



Application: For multi-, fine- and extra-fine-stranded conductors  
Material: Cu-HCP  
Surface: galvanically tinned  
Cable cross-section: 0,5 - 150 mm<sup>2</sup>

Cable mm <sup>2</sup>	Order No.	Dimensions in mm			Weight kg / 100 pcs	VE
		l	d1	d3		
0,5-1	ICQ1PV	7	1,6	3,3	0,04	100
1,5-2,5	ICQ2PV	7	2,3	4	0,05	100
4-6	ICQ6PV	7	3,6	5,7	0,09	100
10	ICQ10PV	9	4,6	6,8	0,15	100
16	ICQ16PV	10	5,9	8,3	0,23	100
25	ICQ25PV	12,5	7,7	10,7	0,53	100
35	ICQ35PV	14	9,2	12,4	0,74	100
50	ICQ50PV	17,5	11,2	14,8	1,26	100
70	ICQ70PV	18	13,5	17,5	1,66	100
95	ICQ95PV	19	15	20	2,45	50
120	ICQ120PV	21	16,7	22,7	3,77	50
150	ICQ150PV	25	19	25,5	5,03	50

Parallel connectors DIN 46341 part 1, Form B



Application: For multi-, fine- and extra-fine-stranded conductors  
Material: Cu-HCP  
Surface: galvanically tinned  
Cable cross-section: 0,5 - 150 mm<sup>2</sup>

Cable mm <sup>2</sup>	Order No.	Dimensions in mm			Weight kg / 100 pcs	VE
		l	d1	d3		
0,5-1	ICQ1PVL	15	1,6	3,3	0,09	100
1,5-2,5	ICQ2PVL	15	2,3	4	0,11	100
4-6	ICQ6PVL	15	3,6	5,7	0,18	100
10	ICQ10PVL	20	4,6	6,8	0,36	100
16	ICQ16PVL	26	5,9	8,3	0,61	100
25	ICQ25PVL	29	7,7	10,7	1,13	100
35	ICQ35PVL	32	9,2	12,4	1,55	50
50	ICQ50PVL	38	11,2	14,8	2,44	50
70	ICQ70PVL	42	13,5	17,5	3,73	50
95	ICQ95PVL	48	15	20	6,08	50
120	ICQ120PVL	52	16,7	22,7	8,67	50
150	ICQ150PVL	56	19	25,5	11,25	25

\* = not part of DIN 46234



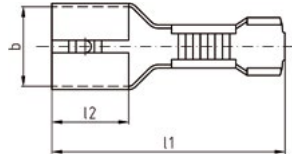
Tool selection for the ICQ DIN connectors:  
see page 9, page 13

Crimping dies for ICQ DIN connectors:  
page 101



**UNINSULATED CRIMPING TERMINALS**

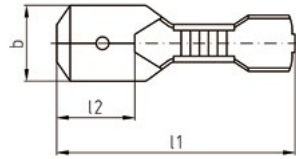
Female disconnectors with open barrel DIN 46247



Application: For fine and extra fine stranded conductors  
Material: Brass or Steel  
Surface: galvanically tinned  
Cable cross-section: 0,5 - 6 mm<sup>2</sup>

Cable mm <sup>2</sup>	Brass Order No.	Plug width mm	Plug thick. mm	Dimensions in mm		Weight kg / 100 pcs	PU	Ni-plated steel Order No.
				l1	l2			
<b>0,5-1</b>	ICC125FH	2,8	0,5	14,6	6,2	0,03	100	-
	ICC128FH	2,8	0,8	14,6	6,2	0,03	100	-
	ICC145FH	4,8	0,5	15,6	6,4	0,05	100	-
	ICC148FH	4,8	0,8	15,6	6,4	0,05	100	-
	ICC168FH	6,3	0,8	19,7	7,7	0,09	100	ICC168FHSV
<b>1,5-2,5</b>	ICC248FH	4,8	0,8	15,9	6,6	0,05	100	-
	ICC268FH	6,3	0,8	19,7	7,7	0,09	100	ICC268FHSV
<b>4-6</b>	ICC668FH	6,3	0,8	19,8	7,7	0,10	100	ICC668FHSV

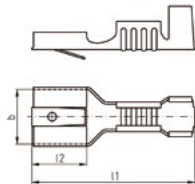
Plugs for female disconnectors with open barrel DIN 46248



Application: For fine and extra fine stranded conductors  
Material: Brass  
Surface: galvanically tinned  
Cable cross-section: 0,5 - 2,5 mm<sup>2</sup>

Cable mm <sup>2</sup>	Order No.	Plug width mm	Plug thick. mm	Dimensions in mm		Weight kg / 100 pcs	PU
				l1	l2		
<b>0,5-1</b>	ICC168FS	6,3	0,8	20,5	9,3	0,06	100
<b>1,5-2,5</b>	ICC268FS	6,3	0,8	20,7	8	0,07	100

Female disconnectors with open barrel DIN 46340, with locking hook



Application: For fine and extra fine stranded conductors  
Material: Brass  
Surface: galvanically tinned  
Cable cross-section: 0,5 - 6 mm<sup>2</sup>

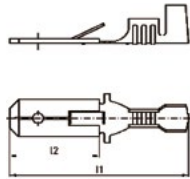
Cable mm <sup>2</sup>	Order No.	Plug width mm	Plug thick. mm	Dimensions in mm		Weight kg / 100 pcs	PU
				l1	l2		
<b>0,5-1</b>	ICC168FHR	6,3	0,8	20	7,6	0,07	100
<b>1,5-2,5</b>	ICC268FHR	6,3	0,8	20	7,6	0,08	100
<b>4-6</b>	ICC668FHR	6,3	0,8	19,38	7,7	0,08	100



Tool selection for the open barrel connectors:  
see page 9, page 13

UNINSULATED CRIMPING TERMINALS

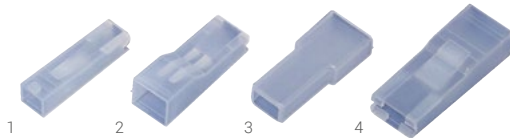
Plugs for female disconnectors DIN 46343, with locking hook



Application: For fine and extra fine stranded conductors  
Material: Brass  
Surface: galvanically tinned  
Cable cross-section: 0,5 - 6 mm<sup>2</sup>

Cable mm <sup>2</sup>	Order No.	Plug width mm	Plug thick. mm	Dimensions in mm		Weight kg / 100 pcs	PU
				I1	I2		
<b>0,5-1</b>	ICC168FSR	6,3	0,8	28	15	0,09	100
<b>1,5-2,5</b>	ICC268FSR	6,3	0,8	28	15	0,09	100
<b>4-6</b>	ICC668FSR	6,3	0,8	28,7	15,4	0,10	100

Insulation houses



Application: for housing uninsulated crimping terminals  
Colour: natur  
Cable cross-section: 0,5 - 6 mm<sup>2</sup>

Type	Order No.	Plug width mm	for cable mm <sup>2</sup>	Material	Weight kg / 100 pcs	PU
1	ICC12IH	2,8	0,5-1	Polyamid 6.6	0,03	100
2	ICC24IH	4,8	0,5-2,5	Polyamid 6.6	0,04	100
3	ICC26IH	6,3	0,5-2,5	Polyethylen	0,04	100
4	ICC66IH	6,3	0,5-6	Polyamid 6.6	0,06	100

Branching plugs



Application: For fine and extra fine stranded conductors  
Material: Brass  
Surface: galvanically tinned  
Plug size: 6,3 x 0,8 mm  
Cable cross-section: 0,5 - 2,5 mm<sup>2</sup>

Type	Cable mm <sup>2</sup>	Order No.	Weight kg / 100 pcs	PU
1	<b>0,5-1</b>	ICC1FHA	0,11	100
1	<b>1,5-2,5</b>	ICC2FHA	0,12	100
2	-	ICC68FHAI	0,12	100
3	-	ICC68FHAI	0,14	100

**UNINSULATED CRIMPING TERMINALS**

Flat plugs



Material: Brass  
Surface: galvanically tinned

Type	Order No.	Plug width mm	Plug thick. mm	Hole ø mm	Weight kg / 100 pcs	PU
1	ICC68FSI	6,3	0,8	4,2	0,09	100
2	ICC68FSIIL4	6,3	0,8	4,2	0,09	100
2	ICC68FSIIL5	6,3	0,8	5,2	0,08	100
3	ICC68FSIII	6,3	0,8	4,2	0,09	100
5	ICC68FSVL4	6,3	0,8	4,3	0,14	100
5	ICC68FSVL6	6,3	0,8	6,2	0,16	100
6	ICC68FSVI	6,3	0,8	4,3	0,14	100
7	ICC28FSVII	2,8	0,8	-	0,04	100
7	ICC68FSVII	6,3	0,8	-	0,09	100
8	ICC68FSVIII	6,3	0,8	-	0,05	100

Flat plug couplings

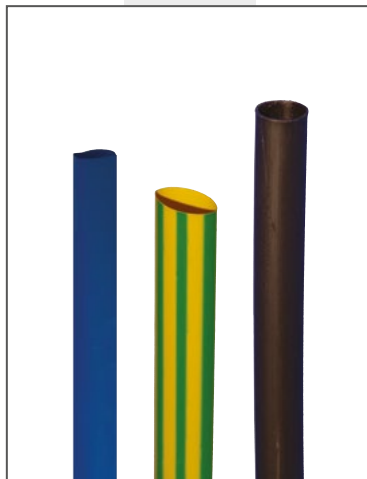


Material: Brass, Isolation  
Colour: transparent  
Size: 6,3 x 0,8 mm

Type	Order No.	No. of poles	Plug width	Plug thick.	Width b mm	Insulation	Flat plug surface	Weight kg / 100 pcs	PU
1	ICC168FSK	1	6,3	0,8	27,8	soft-PVC	tinned	0,25	100
2	ICC1268FSK	12	6,3	0,8	25,8	soft-PVC	tinned	2,80	10
3	ICC168FSA	1/2	6,3	0,8	54,0	soft-PVC	tinned	0,66	20



Cable Glands



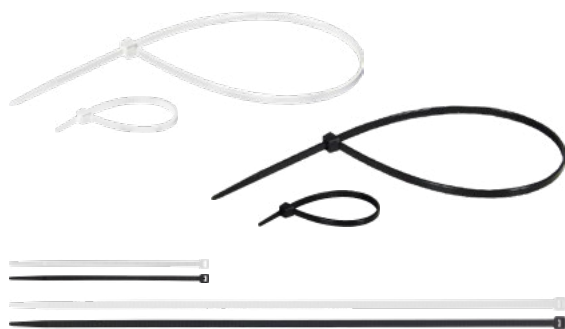
Shrinking Tubes



Terminal Blocks

**CABLE TIES**

**POLYAMIDE PA6.6 CABLE TIES / I**



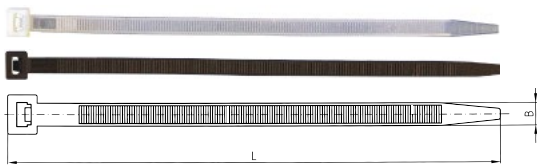
Material: Polyamide PA6.6  
Self extinguishing: UL94-V2  
Operating temperature: -40°C ÷ + 85°C  
Installation temperature: -10°C

Good resistance to oils and greases, solvents, petroleum products.



Natural Color	Black Color	Width	Length	Max. Bundle Ø	Tensile str.	PU
Order No.	Order No.	[mm]	[mm]	[mm]	[kg]	
CTB2580	CTN2580	2,5	80	14,0	8	5.000/50.000
CTB2510	CTN2510	2,5	100	20,5	8	5.000/50.000
CTB2512	CTN2512	2,5	120	27,0	8	5.000/25.000
CTB2516	CTN2516	2,5	160	39,8	8	5.000/25.000
CTB2520	CTN2520	2,5	200	52,5	8	2.500/25.000
CTB3614	CTN3614	3,6	140	33,0	18	2.500/25.000
CTB3620	CTN3620	3,6	200	52,5	18	2.500/20.000
CTB3628	CTN3628	3,6	280	78,0	18	2.500/10.000
CTB3637	CTN3637	3,6	370	106,0	18	2.000/10.000
CTB4612	CTN4612	4,6	120	23,8	22	2.500/20.000
CTB4616	CTN4616	4,6	160	36,6	22	2.000/10.000
CTB4819	CTN4819	4,8	190	46,0	22	2.000/10.000
CTB4820	CTN4820	4,8	200	49,5	22	2.000/10.000
CTB4825	CTN4825	4,8	250	65,0	22	1.500/10.500
CTB4830	CTN4830	4,8	300	81,0	22	1.500/10.500
CTB4836	CTN4836	4,6	360	100,0	22	1.000/5.000
CTB4839	CTN4839	4,8	390	110,0	22	1.000/5.000
CTB4843	CTN4843	4,8	430	122,5	22	1.000/5.000
CTB7615	CTN7615	7,6	150	35,0	55	1.000/5.000
CTB7620	CTN7620	7,6	200	50,9	55	1.000/5.000
CTB7630	CTN7630	7,6	300	82,8	55	1.000/5.000
CTB7637	CTN7637	7,6	370	103,5	55	500/5.000
CTB7645	CTN7645	7,6	450	130,5	55	100/2.500
CTB7675	CTN7675	7,6	750	226,0	55	100/1.000
CTB9045	CTN9045	9,0	450	130,5	80	100/2.500
CTB9055	CTN9055	9,0	550	163,5	80	100/1.000
CTB9071	CTN9071	9,0	710	213,3	80	100/1.000
CTB9078	CTN9078	9,0	780	235,5	80	100/1.000
CTB9081	CTN9081	9,0	810	245,0	80	100/1.000
CTB9010	CTN9010	9,0	1020	312,0	80	100/500
CTB9012	CTN9012	9,0	1220	340,0	80	100/500
CTB9015	CTN9015	9,0	1530	474,5	80	100/500

POLYAMIDE PA6.6 CABLE TIES / II

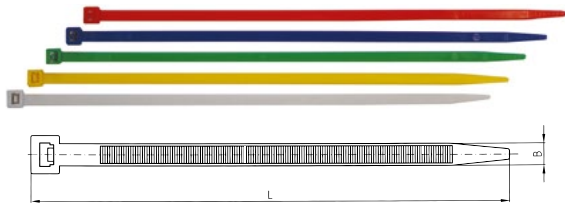


Material: Polyamide 6.6  
Colour: natur or black  
Halogenfree  
Operating temperature: -40° C to + 85° C

Length mm	Width mm	Natural Order No.	Black Order No.	Max. Bundle Ø mm	Tensile str. Newton	Weight kg / 100 pcs	PU
100	2,5	ICC61051	ICC61151	24	100	0,29	100
135		ICC61053	ICC61153	35		0,44	
200		ICC61057	ICC61157	55		0,61	
140	3,5	ICC61059	ICC61159	36	190	0,63	100
200		ICC61062	ICC61162	55		0,87	
280		ICC61065	ICC61165	80		1,31	
360		ICC61068	ICC61168	103		1,83	
160	4,5	ICC61071	ICC61171	38	270	1,08	100
180		ICC61073	ICC61173	45		1,15	
200		ICC61075	ICC61175	51		1,34	
250		ICC61077	ICC61177	68		1,69	
280		ICC61080	ICC61180	76		1,83	
360		ICC61083	ICC61183	101		2,23	
430		ICC61086	ICC61186	123		2,94	
180		7,5	ICC61090	ICC61190		44	
240	ICC61091		ICC61191	62	3,54		
320	ICC61095		ICC61195	88	4,16		
360	ICC61098		ICC61198	101	5,62		
450	ICC61101		ICC61201	130	7,13		
540	ICC61104		ICC61204	160	8,23		
750	9,0	ICC61106	ICC61206	220	780	11,80	100
780		ICC61110	ICC61210	235		15,61	
500	12,5	ICC61116	ICC61216	140	1170	14,18	50
750		ICC61119	ICC61219	222		20,31	
1000		ICC61122	ICC61222	300		27,58	

**CABLE TIES**

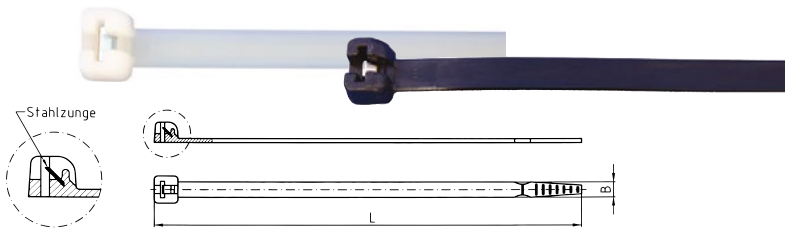
**POLYAMIDE PA6.6 CABLE TIES / COLOURED**



Material: Polyamide 6.6  
Colour: red, blue, green, yellow, grey  
Halogenfree  
Operating temperature: -40° C to + 85° C

Length mm	Width mm	Colour	Order No.	Max. Bundle Ø mm	Tensile str. Newton	Weight kg / 100 pcs	PU
100	2,5	red	ICC61602	24	100	0,29	100
		blue	ICC61604				
		green	ICC61606				
		yellow	ICC61608				
		grey	ICC61610				
140	3,5	red	ICC61612	36	190	0,63	100
		blue	ICC61614				
		green	ICC61616				
		yellow	ICC61618				
		grey	ICC61620				
200	4,5	red	ICC61622	51	270	1,28	100
		blue	ICC61624				
		green	ICC61626				
		yellow	ICC61628				
		grey	ICC61630				
280	4,5	red	ICC61632	76	270	1,88	100
		blue	ICC61634				
		green	ICC61636				
		yellow	ICC61638				
		grey	ICC61640				

**CABLE TIES WITH STEEL TONGUE ACC. TO DIN EN 50146 : 2000**



Material:  
Polyamide 6.6, steel tongue made of stainless steel, for high tensile strength, Halogenfree  
Continuous service temperature: -40°C to + 85°C

Length mm	Width mm	Natur Order No.	Black Order No.	Max. Bundle Ø	max. tensile strength Newton	PU
100	2,5	ICC61251	ICC61351	24	180	100
200		ICC61257	ICC61357	55		100
140	3,5	ICC61259	ICC61359	36	280	100
200		ICC61262	ICC61362	55		100
280		ICC61265	ICC61365	80		100
190	4,5	ICC61275	ICC61375	51	400	100
290		ICC61280	ICC61380	76		100
360		ICC61283	ICC61383	101		100
220	7,5	ICC61291	ICC61391	56	800	50
360		ICC61298	ICC61398	101		50



**POLYAMIDE PA6.6 RELEASABLE CABLE TIES / I**



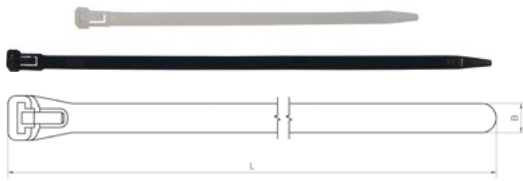
Material: Polyamide PA6.6  
Self extinguish: UL94V-2  
Operating temperature: -40°C ÷ +85°C  
Installation temperature: -10°C  
With trigger type releasable button

Good resistance to oils and greases, solvents, petroleum products.



Order No.	Width [mm]	Length [mm]	Max. Bundle Ø [mm]	Tensile str. [kg]	PU
<b>CTR7615</b>	7,6	150	40,3	22	100/5.000
<b>CTR7620</b>	7,6	200	55,6	22	100/5.000
<b>CTR7630</b>	7,6	300	88,1	22	100/5.000

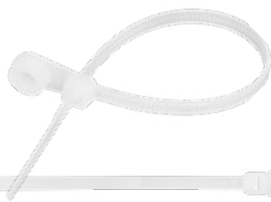
**POLYAMIDE PA6.6 RELEASABLE CABLE TIES / II**



Material: Polyamide 6.6,  
Colour: black, 1-2 years outdoor and weather resistant, halogen-free  
Colour: natural, halogen-free  
Continuous use temperature: -15° C to +75° C

Length mm	Width mm	Colour	Order No.	Max. Bundle Ø mm	Tensile str. Newton	Weight kg / 100 pcs	PU
200	7,5	natur	<b>ICC61660</b>	50	340	2,63	100
		black	<b>ICC61662</b>			2,52	100
250	7,5	natur	<b>ICC61664</b>	65	340	3,06	100
		black	<b>ICC61666</b>			3,08	100
280	7,5	natur	<b>ICC61668</b>	76	340	3,49	100
		black	<b>ICC61670</b>			3,48	100
360	7,5	natur	<b>ICC61672</b>	100	340	4,47	100
		black	<b>ICC61674</b>			4,55	100

**POLYAMIDE PA6.6 CABLE TIES WITH MOUNT HEAD**



Material: Polyamide PA6.6  
Self extinguishing: UL94-V2  
Operating temperature: -40°C ÷ + 85°C  
Installation temperature: -10°C  
With mount head

Good resistance to oils and greases, solvents, petroleum products.



Order No.	Width [mm]	Length [mm]	Max. Bundle Ø [mm]	Tensile str. [kg]	Ø Fixing hole [mm]	PU
<b>CTH2511*</b>	2,5	110	19,0	8	2,5	100/25.000
<b>CTH4820</b>	4,8	200	49,5	22	5	100/10.000
<b>CTH7630</b>	7,6	305	78,7	55	6	100/6.000

\* UL Certification not available

**CABLE TIES**

**POLYAMIDE PA6.6 CABLE TIES FOR EXTERNAL USE, UV RESISTANT**



Material: Polyamide PA6.6. UV resistant  
Self extinguish: UL94V-2  
Operating temperature: -40°C ÷ +85°C  
Installation temperature: -10°C

Weather resistance cable ties for outdoor use, high UV resistance.



Order No.	Width [mm]	Length [mm]	Max. Bundle Ø [mm]	Tensile str. [kg]	PU
CTN9018	9,0	180	40,0	40	5.000
CTN9026	9,0	265	62,0	55	2.500
CTN9036	9,0	360	93,0	55	2.500

**AISI 304 STAINLESS STEEL CABLE TIES**



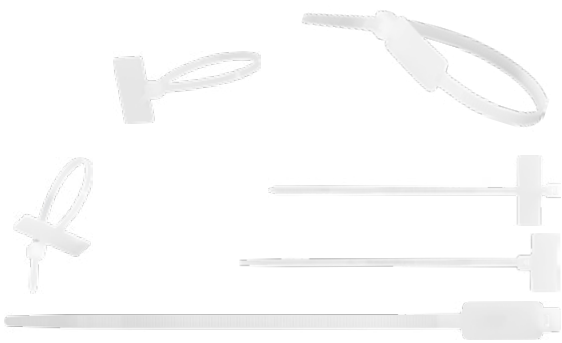
Material: AISI 304 stainless steel  
Operating temperature: -80°C ÷ +500°C

Good resistance to UV lights, oils, grease, solvents, petroleum products. Non-flammable.



Order No.	Width [mm]	Length [mm]	Max. Bundle Ø [mm]	Tensile str. [kg]	PU
CTS4615	4,6	150	46,0	90	100/5.000
CTS4620	4,6	200	61,9	90	100/5.000
CTS4629	4,6	290	90,6	90	100/2.500
CTS4636	4,6	360	112,8	90	100/2.500
CTS4652	4,6	520	163,8	90	100/2.000
CTS4668	4,6	680	214,8	90	100/1.000
CTS7920	7,9	200	61,9	150	100/2.500
CTS7929	7,9	290	90,6	150	100/2.000
CTS7936	7,9	360	112,8	150	100/2.000
CTS7952	7,9	520	163,8	150	100/1.000
CTS7968	7,9	680	214,8	150	100/1.000
CTS7984	7,9	840	265,7	150	100/1.000

POLYAMIDE PA6.6 MARKER CABLE TIES



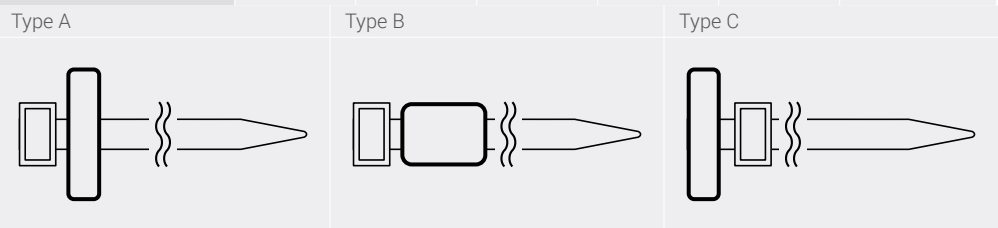
Material: Polyamide PA6.6  
Self extinguish: UL94V-2  
Operating temperature: -40°C ÷ +85°C  
Installation temperature: -10°C  
With marking plate

Good resistance to oils and greases, solvents, petroleum products.

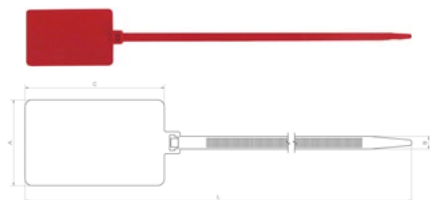


Order No.	Type	Width [mm]	Length [mm]	Max. Bundle Ø [mm]	Tensile str. [kg]	PU
CTT2510	A	2,5	100	22,0	8	1.000/25.000
CTT2511*	C	2,5	110	22,6	8	1.000/25.000
CTT2520*	A	2,5	200	53,9	8	1.000/20.000
CTT1948*	B	4,8	190	50,9	22	1.000/10.000
CTT2748*	B	4,8	270	74,8	22	1.000/5.000

\* UL Certification not available



CABLE TIES WITH EXTRA LARGE LABELLING FIELD



Material: Polyamide 6.6,  
Color red, halogen-free  
Continuous use temperature: -15° C to +75° C

Length mm	Width mm	Label field mm	Order No.	Max. Bundle Ø mm	Tensile str. Newton	Weight kg / 100 pcs	PU
363	7,5	51 x 83	ICC61690	70	420	5,03	50

**CABLE TIES**

**CABLE TIES MOUNT WITH ADHESIVE BACK**



Material: Polyamide PA6.6  
Self extinguish: UL94V-2  
Operating temperature: -40°C ÷ +85°C  
Installation temperature: -10°C

Adhesive and fixing with screw support for cable ties



Natural Color	Black Color	Width	Length	For cable ties max. width		PU
Order No.	Order No.	[mm]	[mm]	[mm]		
CTB1919	CTN1919	19,0	19	3,6	Adhesive	1.000/20.000
CTB2828	CTN2828	28,0	28	4,8	Adhesive	1.000/5.000
CTBS2828*	CTNS2828*	28,0	28	4,8	-	1.000/5.000

\* UL Certification not available

**CABLE TIES SCREW MOUNT**



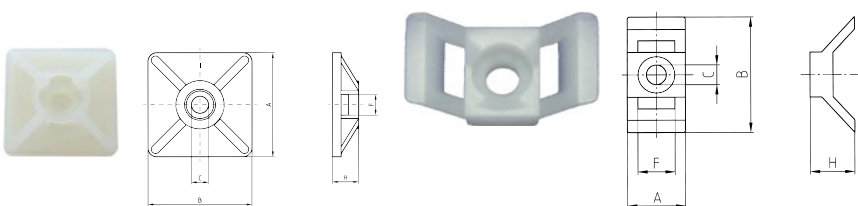
Material: Polyamide PA6.6  
Self extinguish: UL94V-2  
Operating temperature: -40°C ÷ +85°C  
Installation temperature: -10°C

Fixing support with screw for cable ties



Order No.	Width	Length	Height	Fixing hole Ø	Max width cable ties	PU
	[mm]	[mm]	[mm]	[mm]	[mm]	
CTNS1595	15	9,5	6,8	3,3	4,8	1.000/20.000
CTNS2216	22,0	16	9,6	5,2	7,6	1.000/10.000

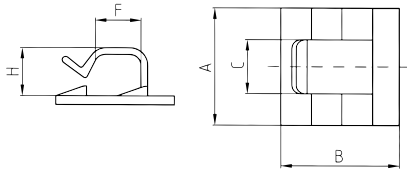
**CABLE TIES SCREW MOUNT**



Material: Polyamide 6.6,  
Colour: natur

Order No.	Sizes in mm					Weight kg / 100 pcs	PU	
	A	B	C	F	H			
ICC61038	19	19	4,8	4	5,3	0,07	100	with adhesive back
ICC61040	26,5	26,5	4,9	5,5	6,7	0,17	100	with adhesive back
ICC61044	14,7	30	5,2	9,4	11,5	0,13	100	with adhesive back

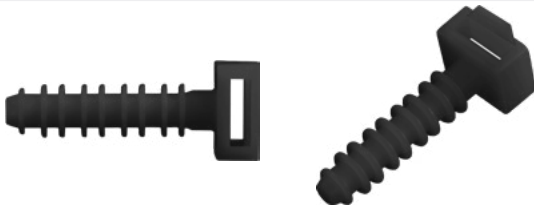
CORD-CLIPS, SELF-ADHESIVE



For fastening cables, hoses, pipes, etc.  
Material: polyamide 6.6  
Color: natural

Order No.	Sizes in mm					Weight kg / 100 pcs	PU
	A	B	C	F	H		
ICC61020	19	19	10,1	5,5	5,3	0,10	100
ICC61022	26,4	26,7	12,2	11,5	10	0,25	100
ICC61024	25,7	25,7	16	17,5	15	0,34	100

CABLE TIES PLUG



Material: Polyamide PA6.6  
Self extinguish: UL94V-2  
Operating temperature: -40°C ÷ +85°C  
Installation temperature: -10°C



Order No.	Diameter [mm]	Length [mm]	For cable ties max. width [mm]	PU
CTN0908	8,1	38,1	7,6	1.000/5.000



2,13 x 1,00 x 0,46 m



0,75 x 0,5 x 0,25 m



2,10 x 0,95 x 0,50 m



## CATALOGUE CONTENTS BY ARTICLE NUMBER

11091	63	7120600	70	CTN...	110	ICIQ...RST	92	PP600	17, 25
11092	63	7120610	70	CTN0908	117	ICIQ...RSTPC	92	PP60-1	17, 25
11094	30, 63	7142160	71	CTN1919	116	ICIQ...RSTVI	93	PP60-2	17, 25
11095	63	7142161	71	CTN2828	116	ICIQ...ST	88	PS120	33, 41
1110250	63	7401002	69	CTN90...	114	ICIQ...V	91	PS120-2	33, 41
1201160	62	7401202	69	CTNS2828	116	ICIQ...WFHVI	90	PS120-SK160	33, 41
1201180	62	7406030	70	CTR76...	113	ICIQ...WSV	91	PS25	33, 40
1201200	62	7406050	70	CTS...	114	ICNI...	84	PS45	33, 40
1202160	30, 63	7406080	70	CTT...	115	ICPVSET2	12	PS50	33, 41
1203160	62	7409002	69	CTT...	78	ICQ...	102, 103	PS65	33, 41
1203200	62	AB16	51, 53	DMVI...	75	ICQ...G	104	PS85	33, 41
1204160	62	ABI1	51, 53	EM1	53	ICQ...PV	105	PS95	33, 41
1204200	62	ACBLSWZG	45	EM16	53	ICQ...PVL	105	PTS4	51, 53
1205160	63	AE6200	51, 55	EM16V	53	ICQ...ST	104	QUATTRO...	69
1206160	62	AG1013	57	FPI70...	47, 49	i-crimping	11, 77	SETAE...	99
1207160	63	AG2020	61	HP45	17	ICVA...	84	SETIAE...	99
1301...	66	AM0204	71	HP50	17, 19	IQ-CAP	71	SPRAY-M	45
1302...	66	AM0208	27	HP60-3	17, 19	KKLSK120	46	STILO	17, 21
1303...	66	ANP24/220	47	HP60-4	17, 19	LS4L...	45	STILO45	17
1304...	67	AP130-C	17, 23	HP60-BL	43	LS4R...	45	STILO50	17, 21
1306...	67	AP130-C2	17, 23	HP60-VD	17, 19	LSK-120	46	STILO60	17, 21
1307...	67	AP130-H	17, 23	HPI130-C	17, 18	LSR...	46	STILO-BL	43
1313...	66	AP60-1	17, 22	HPI130-C2	17, 18	MD...	101	STILO-S25	33, 37
1314...	66	AP60-2	17, 22	HPI130-H	17, 18	MIAE...	100	STILO-S26	33, 37
1399...	67	AP60-VD	17, 23	HS25	33, 35	MK...	81, 82	STILO-S40	33, 37
16012	27	AS120-2	33, 39	HSI45	33, 35	MKS200	30	STILO-S50F	33, 37
16014	27	AS25	33, 39	HSI50	33, 35	MP60-1	15	STILO-S54	33, 37
16020-F1	26, 64	AS45	33, 39	HSI50F	33, 35	MP60-2	15	TPD...	98
16020-CF1	27	AS50	33, 39	HSI85	33, 35	MP60-3	15	TPI130	17, 24
16029	27	AS65	33, 39	ICAE...	96, 97	MPAE10V	10	U13-...	79
16032	30	AS85	33, 39	ICAL...	82	MPAE16K	10	U5-I...	79
16040	27	AS8902	71	ICALCU...	82, 84	MPAE16R	11	U5-T...	100
16260	70	AS95	33, 39	ICC...FH	106	MPAE16S	10	U6-I...	79
1604160	30, 64	AV3801	54	ICC...FHA	107	MPAE16T	10	UEAE16R	12, 13
1604200	30, 64	AV3820	54	ICC...FHR	106	MPAE16VV	10	UEAE2R	12, 13
1605034	31	AV3825	54	ICC...FS	106	MPAE2R	11	UEAE2x16R	13
1607062	31	AV3910	28, 64	ICC...FS...	108	MPAE6R	11	UEAE35R	13
1608032	31	AV3911	28, 64	ICC...FSR	107	MPAE25R	11	UEAE50R	13
1609076	51, 59	AV3920	28, 64	ICC...IH	107	MPAE50R	11	UEBNC	13
17130	55	AV3921	28, 64	ICC610...	111	MPAE95R	11	UEFV28	13
17132	59	AV3930	28, 64	ICC61020	117	MPD50S	14	UEFV48	13
17135	59	AV4094	74	ICC61022	117	MPD120S	14	UEFV63	13
17142	57	AV4095	74	ICC61024	117	MPF70i	14	UEFVS63	13
17145	57	AV47...	72, 73	ICC61038	116	MPFV	9	UEIQ2	13
17170	51, 55	AV4901	61	ICC61040	116	MPIQ6	9	UEIQ2WF	13
17179	55	AV4902	61	ICC61044	116	MPIQ16	9	UEIQ6	12, 13
17190	51, 55	AV6104	67	ICC611...	111	MPMC6	9	UEIQ6WS	13
17195	55	AV6105	67	ICC612...	112	MPR-1	14	UEMC3	13
17220	51, 57	AV6220	51, 55	ICC613...	112	MPR-2	14	UEMC4	13
17230	51, 59	AV6240	55	ICC616...	112	MPR-3	14	UEMC41	13
17240	51, 59	AV6299	55	ICC6166...	113	MPR25i	14	UEQ10	13
17242	59	AV6310	51, 59	ICC6167...	113	MPR50i	14	UER2	13
17250	51, 57	AV63300	51	ICC61690	115	MPR120i	14	UER10	13
17260	51, 59	AV63400	51	ICD...	80	MPU	13	UER16	13
17300	51, 55	AV6400	51, 57	ICD...V	80	MPU-KK	13	ZB9,5x19	43
17301	55	AV6460	51, 57	ICIAE...	94, 95	MPU-L	13	ZB19x125	43
1799...	60	AV8203	51, 53	ICIAE...STF	98	MPU-L-KK	13		
22013	75	AV8230	54	ICIQ...	86, 87	MSA180	30		
288700	28	AV8240	54	ICIQ...EV	92	MTT...	100		
421000	29	AV8270	53	ICIQ...FH	89	NP220	47		
421016	29	AV9303...	73	ICIQ...FHA	90	PBL60	43		
421920	29	BLS120	44	ICIQ...FHB	90	PMC16	9		
424200	29	BLS...	44, 45	ICIQ...FHPC	89	PMC25	9		
424300	29	BLT...	43	ICIQ...FHVI	89	PMCL16	9		
430302	29	CI...M...	78	ICIQ...FHVIPC	89	PMGI6	9		
430801	29	CP700...	47, 48	ICIQ...FS	90	PM-TRE	12		
430805	29	CTB...	110	ICIQ...FSPC	90	PP130-C	17, 24		
433010	29	CTB1919	116	ICIQ...G	88	PP130-C2	17, 24		
631800	73	CTB2828	116	ICIQ...PV	91	PP130-H	17, 24		
64...	74	CTBS2828	116	ICIQ...RSH	92	PP230	17, 25		
7110592	69	CTH...	113	ICIQ...RSHVI	93	PP520	17, 25		



PRODUCT DEMO  
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