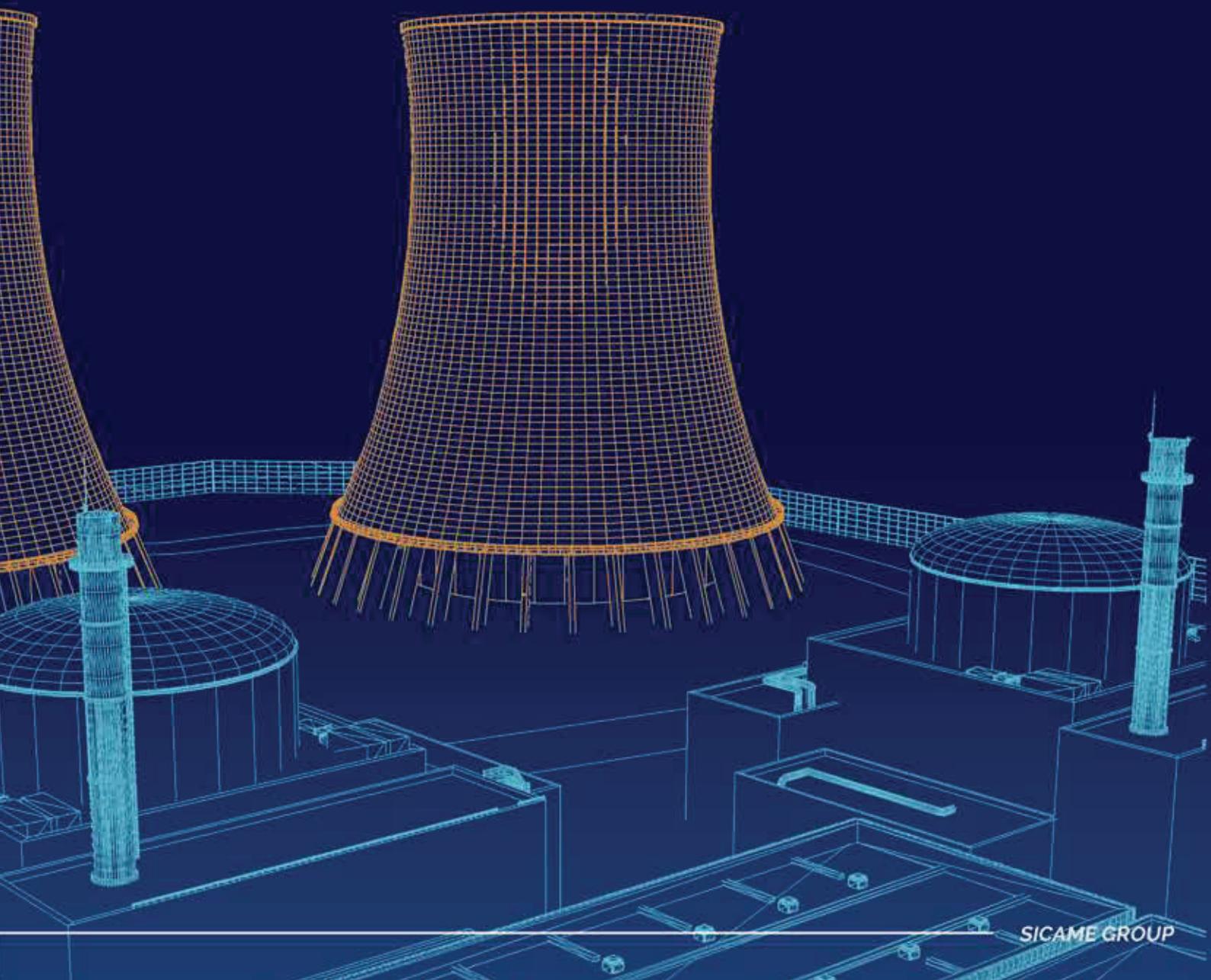




# Connections for the Nuclear Industry

Connecting  
Solutions





# Connecting Solutions

## A DYNAMIC COMPANY

Founded in 1981, MECATRACTION has become a major player in the field of electrical connections across 5 continents. Headquartered in Pompadour, Corrèze (France), on premises of 9000 m<sup>2</sup>, MECATRACTION offers a complete range of connecting solutions: industrial connectors (lugs, sleeves, end caps, ...), chain industrial connectors, earthing products and mechanical connectors, insulation products, cable ties and accessories, crimping tools. Our solutions are used in a wide range of sectors by leading manufacturers, integrators, installers and electrical equipment wholesalers.

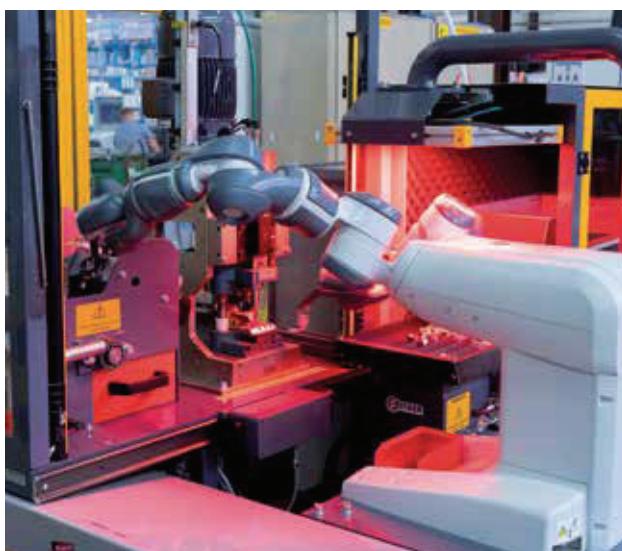
## MECATRACTION IS A SUBSIDIARY OF THE GROUP SICAME

SICAME is a worldwide industrial Group specialising in products and services relating to the transport and distribution of electrical energy. The group operates in 25 countries over 5 continents with production as well as commercial sites, allowing MECATRACTION to provide local support to customers all over the world.



## MODERN AND PERFORMING PRODUCTION METHODS

MECATRACTION designs and manufactures in France using extremely flexible and efficient production tools, which can produce with a very high level of quality both small and large series, rely on the latest robotics technologies on the latest robotics technologies. MECATRACTION is expert in trades such as stamping on progressive tool or transfer machine, very large series cutting, assembly and automated control, robotic assembly. In addition we share with SICAME important means of surface treatment.



# R&D at the core of our strategy

MECATRACTION designs, develops, and manufactures electrical connections, crimping tools and related services for a large spectrum of applications.

Our crimping expertise is globally recognized and our clients demand for our support in designing solutions answering to ever increasing performance and quality needs.

Our Voice of the Customer approach and global vision allow us to create solutions based on these broad experiences while taking into account economic, technical, and environmental issues.



**40 years** of experience in **railways**



**35 years** of experience in **aerospace**



**30 years** of experience in **automotive**



**25 years** of experience in **nuclear**

## RESOURCES

- Multidisciplinary teams for a simultaneous development.
- Research institutes, universities, partner networks in innovating technologies.
- Product development in APQP management (Progressive product/process qualification)
- CAD, CFAO, PLM, CRM tools at the forefront of technology
- Laboratory performing the investigations, tests and trials necessary to qualify our products.
- Access to the SICAME technological tools (IoT, numerical simulation, materials division, rapid prototyping & additive manufacturing).

## QUALITY SYSTEM

Our teams rely on quality tools such as GRAMS, APQP, PPAP, IMDS, 8D, consistent with different activities:



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# Main material characteristics

## Polymers used in the manufacturing of heat-shrink tubes:

	PVC INSULATION	POLYAMIDE INSULATION	POLYPHENYLSULFONE INSULATION
<b>General properties</b>			
Density (g/cm <sup>3</sup> )	1.4	1.13	1.29
Flammability	V0	V2	V0
Permissible operating temperatures	- 20° C to +70° C	- 40° C to + 105° C	- 50° C to + 180° C
Water absorption (24H at 23°C)	0.1 %	1.0 %	0.35 %
<b>Mechanical properties</b>			
Compression tensile strength at 23°C	87 MPa	82 MPa	99 MPa
Tensile elongation at 23°C	38 %	200 %	30 %
<b>Electrical properties</b>			
Dielectric strength at 23°C	14 KV/mm	20 KV/mm	15 KV/mm
<b>Thermal properties</b>			
Temperature resistance to deformation under loading of 1.85 MPa	67° C	65° C	200° C
Melting temperature	160° C	220° C	210° C

## Materials used in the manufacturing of electrical connections:

Material	Material specification	Electric conductivity (% IACS)	Resistance (mV x cm)	Max. operating temperature (°C)		
				Raw	Tin-plated	Nickel-plated
Copper	Cu-DHP (Cub1)	80	2.2			
	Cu-DLP (Cub2)	92	1.8	90	110	340
	Cu-OF (Cuc1)	100	1.72			
	Cu-ETP (Cua1)	100	1.72			
Brass	Cu Zn 30	29	6.2			
	Cu Zn 33	28	6.4	90	110	125
Bronze	Cu Sn 4P	20	9			
	Cu Sn 6P	15	13	120	110	150
Aluminium	A5 - 1050	59	2.9			
	A7 – 1070	61	2.9	90	110	120

# Key Rules for crimping



## The 4 key elements:

- ✓ An electrical connection must be electrically and mechanically sound.  
A complete system (terminal block, electric motor, automation, lighting...) depends upon the quality of this connection.
- ✓ In order to ensure the integrity of the final assembly, the product, the preparation, and the crimping operations should be implemented according to the key rules and by taking into account the following 4 essential key elements:

**1** A quality crimp termination suited to the application



**2** An electric cable correctly stripped and matched to the application



**3** A quality crimping tool matched to both termination and conductor



**4** An operator with experience in crimping techniques



## General features of a crimped electrical connection:

A crimped electrical connection provides the link between a cable and the electrical equipment.

The main features of these connections are:

- ✓ Excellent conductivity,
- ✓ Good tensile strength,
- ✓ Good corrosive resistance,
- ✓ Good resistance to vibration,
- ✓ No voltage drop or rise in temperature.

## Qualification of a crimped termination:

- ✓ Mechanical tests



Tensile strength



Vibration Resistance

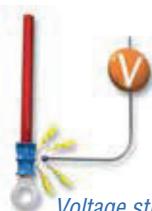


Insertion Extraction  
For disconnects and tabs

- ✓ Electrical tests



Voltage drop



Voltage strength  
For pre-insulated terminals

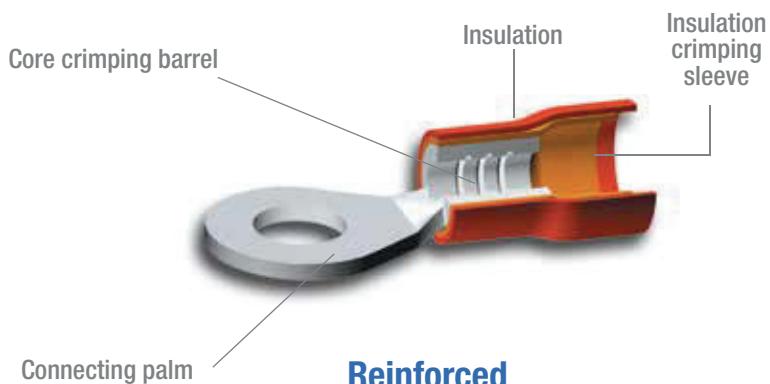


Increase in temperature

# Key Rules for crimping

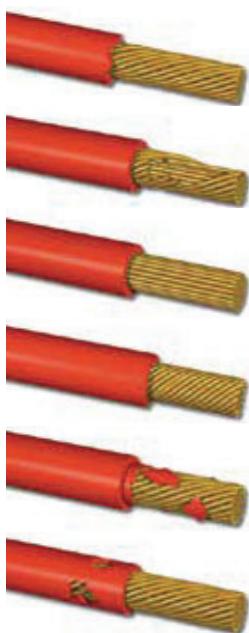
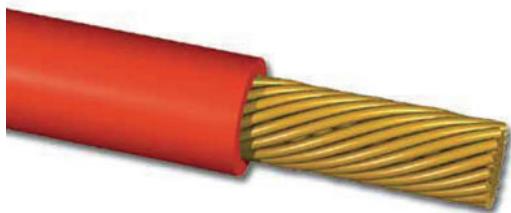
## Crimping of pre-insulated terminals:

The type "reinforced" is particularly adapted to electric connections which are subject to mechanical loads and/or vibrations.



## Cables

Cable correctly stripped:



✗ Insulation poorly stripped

✗ Cable strands damaged or cut

✗ Cable strands not twisted

✗ Cable strands over-twisted

✗ Insulation particles on cable core

✗ Cable insulation damaged

① Conductor strands protruding approximately 1 mm

② Colour code marking

③ Flange from 1 to 1.5 mm

## Crimping

Terminal correctly crimped:



Conductor insufficiently stripped ✗

Crimped off centre – too behind ✗

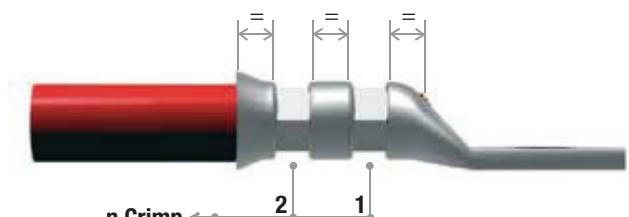
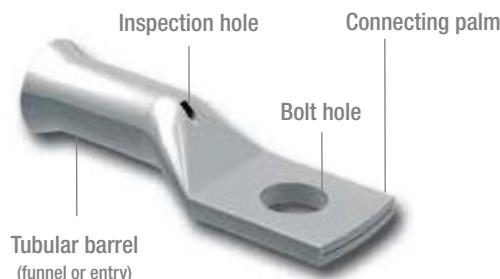
Crimped off centre – too in front ✗

Tool presented incorrectly ✗

Cable over stripped, difficult to assemble on the tab ✗

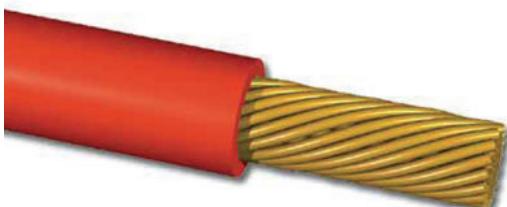
# Key Rules for crimping

## Crimping of Copper tubular lugs:

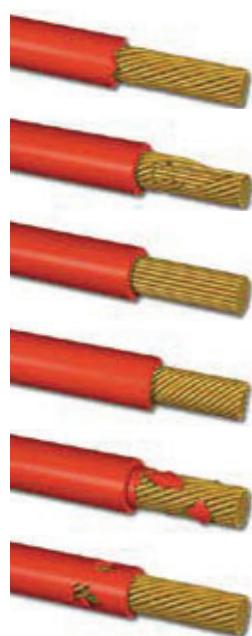


## Cables

Conductor correctly stripped:



Terminal correctly crimped: cable strands viewed through inspection hole.  
Cable correctly stripped and sufficiently introduced into the barrel,  
crimping mark correctly centred on the barrel.



**X** Insulation poorly stripped

**X** Cable strands damaged or cut

**X** Cable strands not twisted

**X** Cable strands over twisted

**X** Insulation particles on cable core

**X** Cable insulation damaged

Cable not fully inserted **X**

Crimped off centre – too behind **X**

Crimped off centre – too in front **X**

Incorrect or damaged die, handles appear **X**

Crimps incorrectly positioned **X**



# “B” Crimping compliant to NFC20-130

## Specifications of power cable cores and issues with crimping

The specification of cable cores is described by Norm EN 60228 which has been applicable since June 2005 and which has replaced norm NF 32-013 dated January 1983. The new provisions require more admissible real sections. This situation directly impacts the quality of the crimping and hence the integrity of the connection.



### Norm EN 60228 in terms of dimensions

The norm does not require any admissible real sections for cable cores, it defines the nominal section as:

“The value identifying a specific size of the core which cannot be the subject of a direct measurement.” A requirement on the maximum electric resistance corresponds to each nominal section value of the core expressed in Ohm/Km.

With regard to the cabled cores, the norm only refers to the minimum number or the maximum diameter of the strands.

These provisions are applicable to the core of Copper conductors and Aluminium conductors of class:

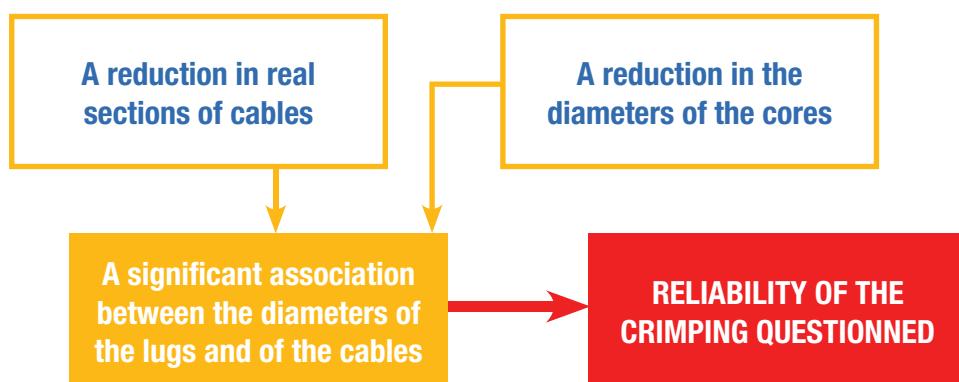
- 1: massive cores
- 2: cabled cores
- 5: flexible cores
- 6: very flexible cores

The lack of requirement of an admissible real section enables the manufacturers to be less “demanding” on the real dimensions of their products in relation to the nominal values.

### What is observed with manufacturers for Copper cables

The lack of requirement of an admissible real section enables the manufacturers to be less “demanding” on the real dimensions of their products in relation to the nominal values.

We therefore notice:



**The important association between the diameters of Copper cables and lugs may impact the reliability of the traditional crimping with hexagonal necking making it insufficiently compact and the strands are generally compressed leading to a risk of heating.**

# “B” Crimping compliant to NFC20-130



**The innovating solution which perfectly responds to the new situation: Mecatraction's crimping in “B”**

Mecatraction has developed a new crimping solution by creating a die form more adapted to variations in dimensions of Copper cable cores in relation to their nominal sections.

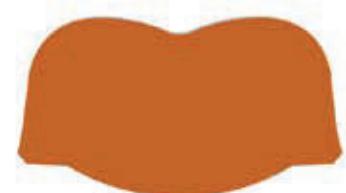
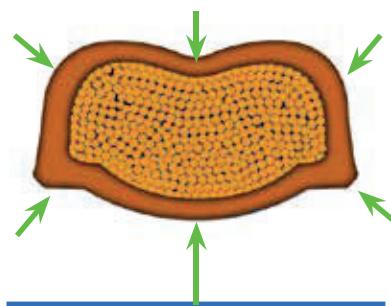
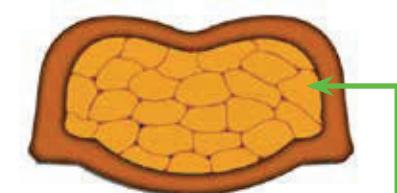
A complete set of mechanical and electrical tests have been performed on various crimped samples with the B corrugated and all the tests showed better results, in terms of performance, compared to the traditional methods of crimping.

## The advantages of crimping in “B” compared to hexagonal crimping

More efficient compacting

More homogeneous compression of strands

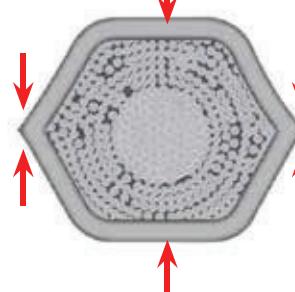
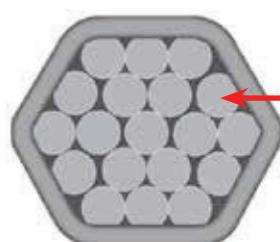
Non-aggressive crimping



The strands are more compact which guarantees optimum electric contact and a connection with better proofing.

The compression forces which are distributed in a more uniform manner, guarantee optimum contact among the strands.

The shape of the dies prevents the formation of sharp edges; this protects insulators and reduces the risk of corona discharge.



# Technical products support

Our technical-commercial department provides technical support services adapted to your needs

**Technical advices**

-  
**Choice of products**

-  
**Studies and expertise**

-  
**Specific solutions**

-  
**Training on products and implementation**



If you need any information, please contact:

+33 (0)5 55 73 89 80

[service.technico@mecatraction.com](mailto:service.technico@mecatraction.com)



# Connections for the nuclear industry

- 12 Copper tubular lugs and Butt connectors .....



- 17 Narrow palm tubular lugs .....



- 18 Aluminium and Copper Lugs, Butt Connectors and Terminals .....



- 25 Tin-plated forged tubular lugs .....



- 26 Pre-insulated lugs .....



- 30 Pin and blade terminals .....



- 31 Pre-insulated disconnects .....



- 32 Pre-insulated butt splices .....



- 33 Wire pass-through and slides .....



- 34 End sleeves .....



- 36 Brass earthing line supports .....



- 38 Washer and plates .....



- 39 "C" type connectors .....



- 40 Earthing tubular lugs .....





# Copper tubular lugs from 2.5 to 70 mm<sup>2</sup>

## General features

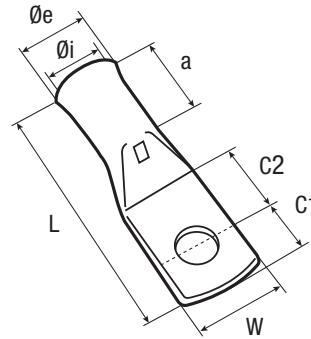
- ✓ Electrolytic tin-plating process.
- ✓ Other plating on request.
- ✓ Bell entry from 10 mm<sup>2</sup>.
- ✓ Straight entry on request, remove the "T" from the part number.

**EDF  
SEPTEN**

No. 3.2-3.4.05  
ECEMA040711

**Series  
C & CT**

**Compliant to  
NF C  
20-130**



	mm <sup>2</sup>	Item code	Part no.	Ø mm	W	Ø i	Ø e	C1	C2	a	L	
2.5	7417005	2.5-3	100	3	7.5	2.4	4	4.4	4.4	8	22.5	Clamp MB524P
	7417015	2.5-4	100	4	7.5	2.4	4	4.4	4.4	8	22.5	
	7417028	2.5-5	100	5	9	2.4	4	6.4	6.8	8	26	
	7417029	2.5-6	100	6	9	2.4	4	6.4	6.8	8	26	
4	7406205	4-4C	100	4	9	2.7	5	6.2	7.4	8.7	25.7	..HCU4
	7406215	4-5C	100	5	9	2.7	5	6.2	7.4	8.7	25.7	
	7406225	4-6C	100	6	12	2.7	5	6.2	7.4	8.7	25.7	
	7406235	4-8C	100	8	12	2.7	5	6.2	7.4	8.7	25.7	
6	7406255	6-4C	100	4	10	33	5.5	6.2	7	107	27.7	..HCU6
	7406265	6-5C	100	5	13	3.3	5.5	8	9	10.7	31.5	
	7406275	6-6C	100	6	13	3.3	5.5	8	9	10.7	31.5	
	7406285	6-8C	100	8	13	3.3	5.5	8	9	10.7	31.5	
10	7406260	6-10C	100	10	14.5	3.3	5.5	9	10	10.5	34	..HCU10
	7406306	10-4CT	100	4	11	4.3	6.8	6.2	6.6	13.7	32.2	
	7406316	10-5CT	100	5	11	4.3	6.8	6.2	6.6	13.7	32.2	
	7406326	10-6CT	100	6	11	4.3	6.8	6.2	6.6	13.7	32.2	
16	7406336	10-8CT	100	8	14	4.3	6.8	8.2	10.6	13.7	36.7	..HCU16
	7406346	10-10CT	100	10	14	4.3	6.8	8.2	10.6	13.7	36.7	
	7406386	16-5CT	100	5	12	5.3	8	6	7	14.7	34	
	7406396	16-6CT	100	6	12	5.3	8	6	7	14.7	34	
25	7406406	16-8CT	100	8	16	5.3	8	8	11	14.7	39	..HCU25
	7406416	16-10CT	100	10	16	5.3	8	8	11	14.7	39	
	7406426	16-12CT	100	12	17	5.3	8	9.2	13.4	12.5	40.7	
	7406466	25-6CT	50	6	13	6.6	9.5	7	9	14.6	37.6	
35	7406476	25-8CT	50	8	16	6.6	9.5	9	11	14.6	41.6	..HCU35
	7406486	25-10CT	50	10	16	6.6	9.5	9	11	14.6	41.6	
	7406496	25-12CT	50	12	17.5	6.6	9.5	9	11	14.6	41.6	
	7406536	35-6CT	50	6	15	7.9	11	9	10	16.5	43.5	
50	7406546	35-8CT	50	8	17	7.9	11	9	10	16.5	43.5	..HCU50
	7406556	35-10CT	50	10	17	7.9	11	9	10	16.5	43.5	
	7406566	35-12CT	50	12	18.5	7.9	11	9	10	16.5	43.5	
	7406606	50-6CT	50	6	18	9.2	12.5	7	9	18.5	43.5	
70	7406616	50-8CT	50	8	18	9.2	12.5	10	14	18.5	51	..HCU70
	7406626	50-10CT	50	10	18	9.2	12.5	10	14	18.5	51	
	7406636	50-12CT	50	12	19	9.2	12.5	10	14	18.5	51	
	7406676	70-8CT	50	8	21	11	15	10	14	20	55.5	
	7406686	70-10CT	50	10	21	11	15	10	14	20	55.5	..HCU70
	7406696	70-12CT	50	12	21	11	15	10	14	20	55.5	



Cable section (mm<sup>2</sup>)



Packing



Stud site



Type of dies

Unless indicated otherwise.  
all dimensions are in millimeters.

# Copper tubular lugs from 95 to 630 mm<sup>2</sup>

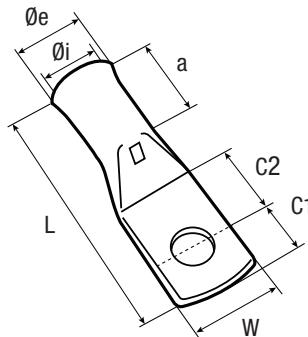


## General features

- ✓ Electrolytic tin-plating process.
- ✓ Other plating on request.
- ✓ Bell entry from 10 mm<sup>2</sup>.
- ✓ Straight entry on request, remove "T" from the part number.



No. 3.2-3.4.05  
ECEMA040711



		Item code	Part no.	Ø mm	W	Ø i	Ø e	C1	C2	a	L	
95	7406756	95-8CT	25	8	24	13.1	17	13.5	15.5	27.5	67.5	..HCU95
	7406766	95-10CT	25	10	24	13.1	17	13.5	15.5	27.5	67.5	
	7406776	95-12CT	25	12	24	13.1	17	13.5	15.5	27.5	67.5	
	7406786	95-14CT	25	14	24	13.1	17	13.5	15.5	27.5	67.5	
	7406796	95-16CT	25	16	24	13.1	17	13.5	15.5	27.5	67.5	
120	7406846	120-10CT	25	10	28	14.5	19	13	17	32.5	75.5	..HCU120
	7406856	120-12CT	25	12	28	14.5	19	13	17	32.5	75.5	
	7406866	120-14CT	25	14	28	14.5	19	13	17	32.5	75.5	
	7406876	120-16CT	25	16	28	14.5	19	13	17	32.5	75.5	
150	7406946	150-12CT	10	12	30	16.2	21	15	15	31.5	74.5	..HCU150
	7406956	150-14CT	10	14	30	16.2	21	17	17	31.5	78.5	
	7406966	150-16CT	10	16	30	16.2	21	17	17	31.5	78.5	
185	7407016	185-12CT	10	12	33	18	23	15	15	35.5	81.5	..HCU185
	7407026	185-14CT	10	14	33	18	23	17	17	35.5	85.5	
	7407036	185-16CT	10	16	33	18	23	17	17	35.5	85.5	
240	7407096	240-12CT	10	12	37	20.6	26	17	17	39.5	89.5	..HCU240
	7407106	240-14CT	10	14	37	20.6	26	19	19	39.5	93.5	
	7407116	240-16CT	10	16	37	20.6	26	19	19	39.5	93.5	
	7407126	240-20CT	10	20	37	20.6	26	20	20	39.5	95.5	
300	7407176	300-14CT	10	14	41	23	28	19	19	41	95.5	..HCU300
	7407186	300-16CT	10	16	41	23	28	19	19	41	95.5	
	7407196	300-18CT	10	18	41	23	28	20	20	41	97.5	
	7407206	300-20CT	10	20	41	23	28	20	20	41	97.5	
400	7407246	400-16CT	10	16	47	26	32	20	25	43	110.5	..HCU400
	7407256	400-18CT	10	18	47	26	32	20	25	43	110.5	
	7407266	400-20CT	10	20	47	26	32	20	25	43	110.5	
500	7407306	500-16CT	10	16	56	29.2	39.5	21	30	53	127	..HCU500
	7407316	500-18CT	10	18	56	29.2	39.5	21	30	53	127	
	7407326	500-20CT	10	20	56	29.2	39.5	21	30	53	127	
630	7407336	500-22CT	10	22	56	29.2	39.5	21	30	53	127	..HCU630
	7407376	630-16CT	10	16	61	33.5	42	27	34	60	149	
	7407396	630-18CT	10	18	61	33.5	42	27	34	60	149	



Cable section (mm<sup>2</sup>)



Packing



Stud site



Type of dies

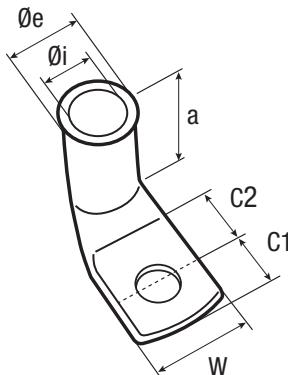
Unless indicated otherwise.  
all dimensions are in millimeters.



# Copper tubular lugs bent at 90° from 4 to 70 mm<sup>2</sup>

## General features

- ✓ Electrolytic tin-plating process.
- ✓ Other plating on request.
- ✓ Bell entry from 10 mm<sup>2</sup>.
- ✓ Straight entry on request, remove "T" from the part number.



**Series  
C 90E**

Compliant  
to  
**NF C  
20-130**

**Series  
CT 90E**

Refer to  
page 57

	mm <sup>2</sup>	Item code	Part no.	Ø mm	W	Ø i	Ø e	C1	C2	a	
4	7406209	4-4C90E	100	4	9	2.7	5	6.2	6.8	9	..HCU4
	7406219	4-5C90E	100	5	9	2.7	5	6.2	6.8	9	
	7406229	4-6C90E	100	6	12	2.7	5	6.2	6.8	9	
	7406238	4-8C90E	100	8	12	2.7	5	6.2	6.8	9	
6	7406258	6-4C90E	50	4	10	3.3	5.5	6.2	6.5	11	..HCU6
	7406268	6-5C90E	50	5	13	3.3	5.5	8	8.5	11	
	7406278	6-6C90E	50	6	13	3.3	5.5	8	8.5	11	
	7406288	6-8C90E	50	8	13	3.3	5.5	8	8.5	11	
10	7406309	10-4CT90E	100	4	11	4.3	6.8	6	6.5	13.7	..HCU10
	7406319	10-5CT90E	100	5	11	4.3	6.8	6	6.5	13.7	
	7406328	10-6CT90E	100	6	11	4.3	6.8	6	6.5	13.7	
	7406339	10-8CT90E	100	8	14	4.3	6.8	8	10.5	13.7	
16	7406349	10-10CT90E	100	10	14	4.3	6.8	8	10.5	13.7	..HCU16
	7406388	16-5CT90E	50	5	12	5.3	8	6	6.5	14.7	
	7406398	16-6CT90E	50	6	12	5.3	8	6	6.5	14.7	
	7406408	16-8CT90E	50	8	16	5.3	8	8	10.5	14.7	
25	7406418	16-10CT90E	50	10	16	5.3	8	8	10.5	14.7	..HCU25
	7406428	16-12CT90E	50	12	17	5.3	8	9	13.5	12.5	
	7406468	25-6CT90E	50	6	13	6.6	9.5	7	8.5	14.6	
	7406478	25-8CT90E	50	8	16	6.6	9.5	9	10.5	14.6	
35	7406488	25-10CT90E	50	10	16	6.6	9.5	9	10.5	14.6	..HCU35
	7406498	25-12CT90E	50	12	17.5	6.6	9.5	9	10.5	14.6	
	7406539	35-6CT90E	50	6	15	7.9	11	9	10.5	16.5	
	7406549	35-8CT90E	50	8	17	7.9	11	9	10.5	16.5	
50	7406558	35-10CT90E	50	10	17	7.9	11	9	10.5	16.5	..HCU50
	7406570	35-12CT90E	50	12	18.5	7.9	11	9	10.5	16.5	
	7406608	50-6CT90E	50	6	18	9.2	12.5	7	8.5	18.5	
	7406618	50-8CT90E	50	8	18	9.2	12.5	10	13.5	18.5	
70	7406629	50-10CT90E	50	10	18	9.2	12.5	10	13.5	18.5	..HCU70
	7406638	50-12CT90E	50	12	19	9.2	12.5	10	13.5	18.5	
	7406678	70-8CT90E	50	8	21	11	15	10	13.5	20.5	
	7406688	70-10CT90E	50	10	21	11	15	10	13.5	20.5	
	7406698	70-12CT90E	50	12	21	11	15	10	13.5	20.5	



Cable section (mm<sup>2</sup>)



Packing



Stud site



Type of dies

Unless indicated otherwise,  
all dimensions are in millimeters.

# Copper tubular lugs bent at 90° from 95 to 630 mm<sup>2</sup>



## General features

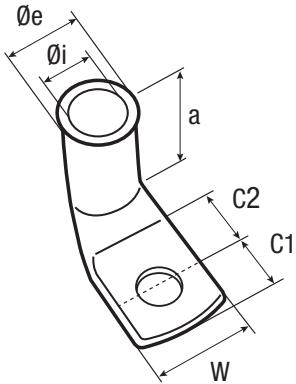
- ✓ Electrolytic tin-plating process.
- ✓ Other plating on request.
- ✓ Bell entry from 10 mm<sup>2</sup>.
- ✓ Straight entry on request, remove "T" from the part number.

**Series  
C 90E**

**Compliant to  
NF C  
20-130**

**Series  
CT 90E**

Refer to page 57



	mm <sup>2</sup>	Item code	Part no.	Ø mm	W	Ø i	Ø e	C1	C2	a	
95	7406754	95-8CT90E	25	8	24	13.1	17	13.5	15	27.5	..HCU95
	7406770	95-10CT90E	25	10	24	13.1	17	13.5	15	27.5	
	7406778	95-12CT90E	25	12	24	13.1	17	13.5	15	27.5	
	7406788	95-14CT90E	25	14	24	13.1	17	13.5	15	27.5	
	7406799	95-16CT90E	25	16	24	13.1	17	13.5	15	27.5	
120	7406849	120-10CT90E	25	10	28	14.5	19	13	16	32.5	..HCU120
	7406858	120-12CT90E	25	12	28	14.5	19	13	16	32.5	
	7406868	120-14CT90E	25	14	28	14.5	19	13	16	32.5	
	7406879	120-16CT90E	25	16	28	14.5	19	13	16	32.5	
150	7406949	150-12CT90E	10	12	30	16.2	21	15	14.5	31.5	..HCU150
	7406957	150-14CT90E	10	14	30	16.2	21	17	16.5	31.5	
	7406969	150-16CT90E	10	16	30	16.2	21	17	16.5	31.5	
185	7407018	185-12CT90E	10	12	33	18	23	15	14.5	35.5	..HCU185
	7407027	185-14CT90E	10	14	33	18	23	17	16.5	35.5	
	7407038	185-16CT90E	10	16	33	18	23	17	16.5	35.5	
240	7407098	240-12CT90E	10	12	37	20.6	26	17	16	39.5	..HCU240
	7407108	240-14CT90E	10	14	37	20.6	26	19	18	39.5	
	7407118	240-16CT90E	10	16	37	20.6	26	19	18	39.5	
	7407145	240-20CT90E	10	20	37	20.6	26	20	19	39.5	
300	7407177	300-14CT90E	10	14	41	23	28	19	17.5	41	..HCU300
	7407188	300-16CT90E	10	16	41	23	28	19	17.5	41	
	7407197	300-18CT90E	10	18	41	23	28	20	18.5	41	
	7407210	300-20CT90E	10	20	41	23	28	20	18.5	41	
400	7407248	400-16CT90E	10	16	47	26	32	20	23.5	43	..HCU400
	7407249	400-18CT90E	10	18	47	26	32	20	23.5	43	
	7407267	400-20CT90E	10	20	47	26	32	20	23.5	43	
500	7407308	500-16CT90E	10	16	56	29.2	39.5	21	27	53	..HCU500
	7407318	500-18CT90E	10	18	56	29.2	39.5	21	27	53	
	7407328	500-20CT90E	10	20	56	29.2	39.5	21	27	53	
	7407329	500-22CT90E	10	22	56	29.2	39.5	21	27	53	
630	7407378	630-16CT90E	10	16	61	33.5	42	27	30	60	..HCU630
	7407398	630-18CT90E	10	18	61	33.5	42	27	30	60	



Cable section (mm<sup>2</sup>)



Packing



Stud site



Type of dies

Unless indicated otherwise.  
all dimensions are in millimeters.



# Copper Parallel and Butt Connectors

## General features

**Butt connectors from 1.5 to 630 mm<sup>2</sup>**

- ✓ Electrolytic tin-plating process.
- ✓ Bell entry from 6 mm<sup>2</sup> and inspection hole with cable stopper.
- ✓ Straight entry on request, remove "T" from the part number.



**Series MJ**

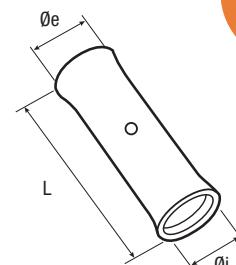
Compliant to  
**NF C 20-130**

**Series MP**

Refer to  
page 57

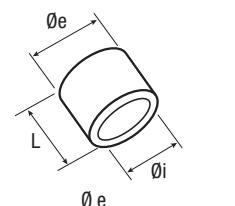
**Parallel connectors from 1.5 to 240 mm<sup>2</sup>**

- ✓ Tin-plated copper.
- ✓ Funnel entry.



**Butt connectors from 1.5 to 630 mm<sup>2</sup>**

mm <sup>2</sup>	Item code	Part no.	Packing	Ø i	Ø e	L	Type of dies
1.5	7431001	MJ1.5	100	1.8	3.3	14.5	Clamp MB524P
2.5	7431113	MJ2.5	100	2.4	4	14.5	..HCU4
4	7431225	MJ4C	100	2.7	5	19	..HCU6
6	7431236	MJ6CT	100	3.3	5.5	24	..HCU10
10	7431246	MJ10CT	100	4.3	6.8	29	..HCU16
16	7431256	MJ16CT	100	5.3	8	34	..HCU25
25	7431266	MJ25CT	50	6.6	9.5	34	..HCU35
35	7431276	MJ35CT	50	7.9	11	34	..HCU50
50	7431286	MJ50CT	50	9.2	12.5	44	..HCU70
70	7431306	MJ70CT	50	11	15	49	..HCU95
95	7431316	MJ95CT	25	13.1	17	55	..HCU120
120	7431326	MJ120CT	25	14.5	19	59	..HCU150
150	7431336	MJ150CT	10	16.2	21	65	..HCU185
185	7431346	MJ185CT	10	18	23	74	..HCU240
240	7431354	MJ240CT	10	20.6	26	79	..HCU300
300	7431366	MJ300CT	10	23	28	89	..HCU400
400	7431376	MJ400CT	10	26	32	99	..HCU500
500	7431384	MJ500CT	10	29.2	39.5	119	..HCU630
630	7431387	MJ630CT	10	33.5	42	120	..HCU524P



**Parallel connectors from 1.5 to 240 mm<sup>2</sup>**

mm <sup>2</sup>	Item code	Part no.	Packing	Ø i	Ø e	L	Type of dies
1.5	7430501	MP1.5	100	1.6	3.2	7	..HCU6
2.5	7430511	MP2.5	100	2.3	3.9	7	..HCU10
4 - 6	7430531	MP6	100	3.6	5.6	7	..HCU16
10	7430541	MP10	100	4.5	7	9	..HCU25
16	7430551	MP16	100	5.8	8.2	10.5	..HCU35
25	7430561	MP25	50	7.5	10.6	11.5	..HCU50
35	7430571	MP35	50	9.1	12.3	16	..HCU70
50	7430581	MP50	50	11.1	14.7	16	..HCU95
70	7430601	MP70	50	13.1	17	19	..HCU120
95	7430611	MP95	25	14.5	19	20	..HCU150
120	7430621	MP120	25	16.2	21	20	..HCU185
150	7430631	MP150	25	18	23	20	..HCU240
185	7430641	MP185	10	20.6	26	28	..HCU300
240	7430651	MP240	10	23	28	31	..HCU400
300	7430661	MP300	10	26	32	35	..HCU500
400	7430671	MP400	10	29.2	39.5	50	..HCU524P



Cable section (mm<sup>2</sup>)



Packing



Type of dies

Unless indicated otherwise,  
all dimensions are in millimeters.

# Copper Tubular Lugs with Narrow Palm



## General features

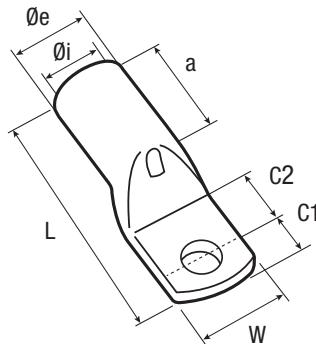
This type of lug with narrow palm allows fast and direct connection to electrical equipment with reduced space.

- ✓ Material: tin-plated copper.
- ✓ Funnel entry.
- ✓ Crimping tools identical to those for standard Copper tubular lugs of type "C" or "CT".



**Series  
PE**

**Compliant to  
NF C  
20-130**



mm <sup>2</sup>	Item code	Part no.	Ø mm	W	Ø i	Ø e	C1	C2	a	L	
95	7404022	95-8PE	25	8	21	13.1	17	10	15	28	64 ..HCU95
95	7404021	95-10PE	25	10	21	13.1	17	10	15	28	64 ..HCU95
120	7404030	120-8PE	25	8	24.5	14.5	19	10	15	26	64 ..HCU120
120	7404031	120-10PE	25	10	24.5	14.5	19	10	15	26	64 ..HCU120
150	7404042	150-8PE	10	8	24.5	16.2	21	10	15	30	67 ..HCU150
150	7404041	150-10PE	10	10	24.5	16.2	21	10	15	30	67 ..HCU150
185	7404051	185-10PE	10	10	24.5	18	23	10	15	39	77 ..HCU185
240	7404061	240-10PE	10	10	31.5	20.6	26	10	15	39	79 ..HCU240
240	7404063	240-12PE	10	12	31.5	20.6	26	14	15	39	83 ..HCU240
240	7404066	240-14PE	10	12	31.5	20.6	26	14	15	39	83 ..HCU240
300	7404071	300-10PE	10	10	31.5	23	28	10	15	41	83 ..HCU300
300	7404072	300-12PE	10	12	31.5	23	28	17	17	41	92 ..HCU300



Cable section (mm<sup>2</sup>)



Packing



Stud site



Type of dies

Unless indicated otherwise.  
all dimensions are in millimeters.



# Aluminium-Copper Lugs

## Deep Indent Crimping

### General features

- ✓ Friction welded aluminium-copper lugs.
- ✓ The Aluminium barrel, closed by a protection cap, is covered inside with neutral grease for better electrical contact.
- ✓ Crimping by deep indent.

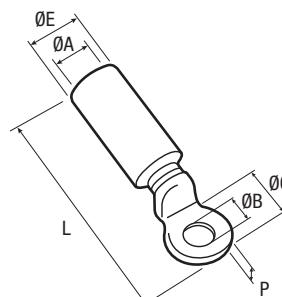


**EDF**  
**SEPTEN**

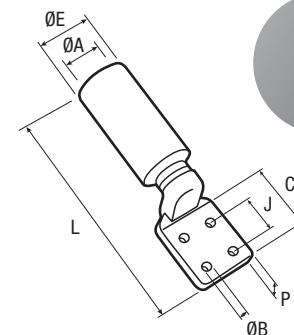
**Series**  
**C-AU**

**Compliant**  
**NF C**  
33-090-1

No. 3.2-3.4.05  
ECEMA040711



Tongue from CO AU  
16 to C5 AU 400



Tongue from C6 AU  
500 to C8 AU 1300



Refer to  
page 57

mm <sup>2</sup>	Item code	x3	Part no.	EDF Code	Ø A	Ø E	Ø C	Ø B	J	L	P	Dies	Stamp
16	7580011		COAU16		5.5	16	20	10.5	-	79	4.5	..MC0E	OE
25	7580021		COAU25	67 33 016	6.5	16	20	10.5	-	79	4.5	..MC0E	OE
35	7580031		COAU35	67 33 018	8	16	25	12.8	-	86	5	..MC0E	OE
50	7580041		C1AU50	67 33 023	9	20	25	12.8	-	86	5	..MC1E	1E
50	7580042		C1AU50-25-9		9	20	25	9	-	86	5	..MC1E	1E
70	7580051		C1AU70	67 33 044	11	20	25	12.8	-	86	5	..MC1E	1E
95	7580061		C1AU95	67 33 058	12.5	20	25	12.8	-	86	5	..MC1E	1E
95	7580062		C1AU95-25-9		12.5	20	25	9	-	86	5	..MC1E	1E
95	7580063		C1AU95-40-17		12.5	20	36	16.5	-	107	7	..MC1E	1E
120	7580071		C2AU120	67 33 067	13.7	25	30	12.8	-	110	6	..MC2E	2E
150	7580081		C2AU150	67 33 074	15.5	25	30	12.8	-	110	6	..MC2E	2E
150	7580082		C2AU150-40-17		15.5	25	36	16.5	-	120	7	..MC2E	2E
185	7580091		C4AU185	67 33 086	17	32	30	12.8	-	110	6	..MC4E	4E
240	7580101		C4AU240	67 33 092	19.5	32	30	12.8	-	110	6	..MC4E	4E
240	7580103		C4AU240-40-15		19.5	32	36	14.5	-	120	7	..MC4E	4E
240	7580102		C4AU240-40-17		19.5	32	36	16.5	-	120	7	..MC4E	4E
240	7580104		C4AU240-40-19		19.5	32	36	19	-	120	7	..MC4E	4E
300	7580111		C5AU300	67 33 096	23.3	40	36	16.5	-	153	7	..MC5E	5E
400	7580121		C5AU400		26	40	36	16.5	-	153	7	..MC5E	5E
400	7580122		C5AU400-40-13		26	40	36	12.8	-	153	7	..MC5E	5E
400	7580124		C5AU400-40-15		26	40	36	14.5	-	153	7	..MC5E	5E
400	7580123		C5AU400-40-19		26	40	36	19	-	153	7	..MC5E	5E
500	7580131		C6AU500		29.1	47	60 x 60	4 Ø 9	30	200	10	..MC6E	6E
630	7580141		C6AU630	67 33 102	32.5	47	60 x 60	4 Ø 9	30	200	10	..MC6E	6E
630	7580142		C6AU630-4-13		32.5	47	60X60	4x13	30	200	10	..MC6E	6E
800	7580171		C7AU800		37.5	60	80 x 80	4 Ø 11	40	260	10	..MC7E	7E
1 000	7580181		C7AU1000		42	60	80 x 80	4 Ø 11	40	260	10	..MC7E	7E
1 200	7580191		C8AU1200	67 33 104	45.5	65	80 x 80	4 Ø 11	40	270	10	..MC8E	8E
1 300	7580201		C8AU1300	67 33 106	47.5	65	80 x 80	4 Ø 11	40	270	10	..MC8E	8E



Cable section (mm<sup>2</sup>)



Packing



Type of dies

Unless indicated otherwise.  
all dimensions are in millimeters.

# Aluminium-Copper Angle Terminal End

## Deep Indent Crimping



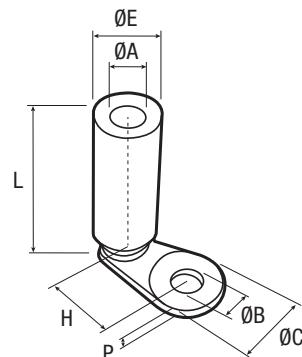
### General features

- ✓ Friction welded aluminium-copper terminal ends.
- ✓ The Aluminium barrel, closed by a protection cap, is covered inside with neutral grease for better electrical contact.
- ✓ Crimping by deep indent.



**Series  
Q-AU**

**Compliant to  
NF C  
33-090-1**



mm <sup>2</sup>	Item code	x3	Part no.	Ø A	Ø E	Ø C	Ø B	L	P	H	Dies	Stamp
				25	35	50	70	95	120	150	..MCOE	OE
25	7581011	x3	Q0AU25	6.5	16	20	10.5	62	4.5	23	..MCOE	OE
35	7581021		Q0AU35	8	16	25	12.8	62	4.5	23	..MCOE	OE
50	7581031		Q1AU50	9	20	25	12.8	62	5	23	..MC1E	1E
70	7581041		Q1AU70	11	20	25	12.8	62	5	23	..MC1E	1E
95	7581051		Q1AU95	12.5	20	25	12.8	62	5	23	..MC1E	1E
120	7581061		Q2AU120	13.7	25	30	12.8	81	6	28	..MC2E	2E
150	7581071		Q2AU150	15.5	25	30	12.8	81	6	28	..MC2E	2E
185	7581081		Q4AU185	17	32	30	12.8	81	7	34	..MC4E	4E
240	7581091		Q4AU240	19.5	32	30	12.8	81	7	34	..MC4E	4E



Cable section (mm<sup>2</sup>)



Packing



Type of dies

Unless indicated otherwise.  
all dimensions are in millimeters.



# Aluminium-Copper Pins

## General features

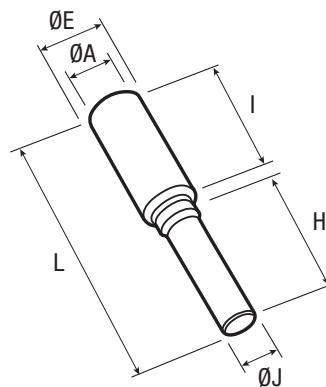
- ✓ Friction welded aluminium-copper terminal ends.
- ✓ The aluminium barrel, closed by a protection cap, is covered inside with neutral grease for better electrical contact.
- ✓ Crimping by deep indent.

Products on request.



**Series  
E-AU**

**Compliant to  
NF C  
33-090-1**



mm <sup>2</sup>	Item code	x3	Part no.	Ø A	Ø E	Ø J	I	H	L	Dies	Stamp
				16	25	35	50	70	95	120	150
16	7583001		E0AU16	5.5	16	8	47.5	30	82	..MCOE	OE
25	7583011		E0AU25	6.5	16	8	47.5	30	82	..MCOE	OE
35	7583021		E0AU35	8	16	8	47.5	30	82	..MCOE	OE
50	7583031		E1AU50	9	20	12	47.5	45	97	..MC1E	1E
70	7583041		E1AU70	11	20	12	47.5	45	97	..MC1E	1E
95	7583051		E1AU95	12.5	20	12	47.5	45	97	..MC1E	1E
120	7583061		E2AU120	13.7	25	14	64	55	125	..MC2E	2E
150	7583071		E2AU150	15.5	25	14	64	55	125	..MC2E	2E
185	7583081		E4AU185	17	32	14	64	55	125	..MC4E	4E
240	7583091		E4AU240	19.5	32	14	64	55	125	..MC4E	4E



Cable section (mm<sup>2</sup>)



Packing



Type of dies

Unless indicated otherwise.  
all dimensions are in millimeters.

# Aluminium Terminal Ends

## Deep Indent Crimping

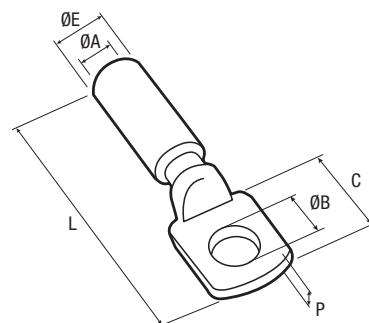


### General features

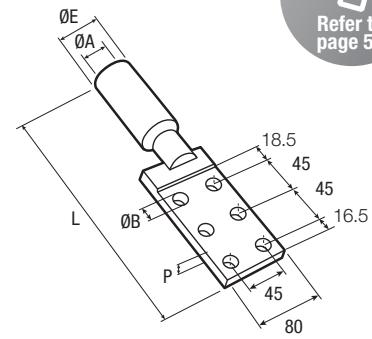
- ✓ Massive aluminium terminal ends for the connection of aluminium cables on aluminium device terminals.
- ✓ The aluminium barrel, closed by a protection cap, is covered inside with neutral grease for better electrical contact.
- ✓ Crimping by deep indent.

**Series  
C-A**

**Compliant to  
NF C  
33-090-1**



Tongue from CO A 25  
to C5 A 400



Tongue from C6 A 500  
to C8 A 1300



mm <sup>2</sup>	Item code	x3	Part no.	Ø A	Ø E	C	Ø B	L	P	Dies	Stamp
25	7581511		COA25	6.5	16	33 x 32	13	90	6.8	..MC0E	0E
35	7581521		COA35	8	16	33 x 32	13	90	6.8	..MC0E	0E
50	7581531		C1A50	9	20	33 x 32	16	101	6.8	..MC1E	1E
70-75	7581541		C1A70	11	20	33 x 32	16	101	6.8	..MC1E	1E
95	7581551		C1A95	12.5	20	33 x 32	16	101	6.8	..MC1E	1E
120	7581561		C2A120	13.7	25	37 x 37	16	121	10	..MC2E	2E
150	7581571		C2A150	15.5	25	37 x 37	16	121	10	..MC2E	2E
185	7581581		C4A185	17	32	39 x 39	16	121	12	..MC4E	4E
240	7581591		C4A240	19.5	32	39 x 39	16	121	12	..MC4E	4E
300	7581601		C5A300	23.3	40	39 x 39	16.5	170	13.8	..MC5E	5E
400	7581611		C5A400	26	40	39 x 39	16.5	170	13.8	..MC5E	5E
500	7581621		C6A500	29.1	47	125 x 80	6 Ø 16.5	275	15	..MC6E	6E
630	7581631		C6A630	32.5	47	125 x 80	6 Ø 16.5	275	15	..MC6E	6E
800	7581641		C7A800	37.5	60	125 x 80	6 Ø 16.5	310	15	..MC7E	7E
1 000	7581651		C7A1000	42	60	125 x 80	6 Ø 16.5	310	15	..MC7E	7E
1 200	7581661		C8A1200	45.5	65	125 x 80	6 Ø 16.5	340	15	..MC8E	8E
1 300	7581671		C8A1300	47.5	65	125 x 80	6 Ø 16.5	340	15	..MC8E	8E



Cable section (mm<sup>2</sup>)



Packing



Type of dies

Unless indicated otherwise.  
all dimensions are in millimeters.



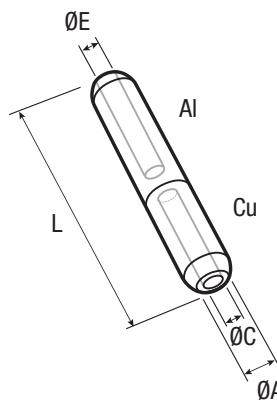
# Aluminium-Copper Butt Connectors

## General features

- ✓ These butt connectors enable the connection between an aluminium cable and a copper cable.
- ✓ Bimetal butt connectors, covered inside with neutral grease on the aluminium side, the ends closed by a protection cap.
- ✓ These butt connectors are packaged in a plastic bag of 3 pieces with the compound necessary for the filling up of the punching cells.
- ✓ Crimping by deep indent on the aluminium side and by hexagonal compression on the copper side.

**Series  
RJ-AU**

**Compliant to  
NF C  
33-090-1**



Aluminium mm <sup>2</sup>	Copper mm <sup>2</sup>	Item code	x3 Part no.	Ø A	Ø E	Ø C	L	Aluminium Dies	Stamp	Copper Dies
25	16	7582198	RJ0AU25-16	16	5.5	6.3	91	..MJ0E	0E	E140
50	35	7582201	RJ1AU50-35	20	9	8.5	106.5	..MJ1E	1E	E173
50	50	7582211	RJ1AU50-50	20	9	9.2	106.5	..MJ1E	1E	E173
50	70	7582221	RJ1AU50-70	20	9	11	106.5	..MJ1E	1E	E173
50	95	7582231	RJ1AU50-95	20	9	13	106.5	..MJ1E	1E	E173
50	120	7582241	RJ1AU50-120	20	9	14.2	106.5	..MJ1E	1E	E173
70	35	7582251	RJ1AU70-35	20	11	8.5	106.5	..MJ1E	1E	E173
70	50	7582261	RJ1AU70-50	20	11	9.2	106.5	..MJ1E	1E	E173
70	70	7582271	RJ1AU70-70	20	11	11	106.5	..MJ1E	1E	E173
70	95	7582281	RJ1AU70-95	20	11	13	106.5	..MJ1E	1E	E173
70	120	7582291	RJ1AU70-120	20	11	14.2	106.5	..MJ1E	1E	E173
95	50	7582301	RJ1AU95-50	20	12.5	9.2	106.5	..MJ1E	1E	E173
95	70	7582311	RJ1AU95-70	20	12.5	11	106.5	..MJ1E	1E	E173
95	95	7582321	RJ1AU95-95	20	12.5	13	106.5	..MJ1E	1E	E173
95	120	7582331	RJ1AU95-120	20	12.5	14.2	106.5	..MJ1E	1E	E173
120	50	7582341	RJ2AU120-50	25	13.7	9.2	133	..MJ2E	2E	E215
120	70	7582351	RJ2AU120-70	25	13.7	11	133	..MJ2E	2E	E215
120	95	7582361	RJ2AU120-95	25	13.7	13	133	..MJ2E	2E	E215
120	120	7582371	RJ2AU120-120	25	13.7	14.2	133	..MJ2E	2E	E215
120	185	7582391	RJ2AU120-185	25	13.7	18	133	..MJ2E	2E	E215
150	50	7582401	RJ2AU150-50	25	15.5	9.2	133	..MJ2E	2E	E215
150	70	7582411	RJ2AU150-70	25	15.5	11	133	..MJ2E	2E	E215
150	95	7582421	RJ2AU150-95	25	15.5	13	133	..MJ2E	2E	E215
150	120	7582431	RJ2AU150-120	25	15.5	14.2	133	..MJ2E	2E	E215
150	150	7582441	RJ2AU150-150	25	15.5	16	133	..MJ2E	2E	E215
150	185	7582451	RJ2AU150-185	25	15.5	18	133	..MJ2E	2E	E215
185	70	7582461	RJ4AU185-70	32	17	11	143.5	..MJ4E	4E	E280
185	120	7582481	RJ4AU185-120	32	17	14.2	143.5	..MJ4E	4E	E280
185	185	7582501	RJ4AU185-185	32	17	18	143.5	..MJ4E	4E	E280
185	240	7582511	RJ4AU185-240	32	17	20	143.5	..MJ4E	4E	E280
240	70	7582531	RJ4AU240-70	32	19.5	11	143.5	..MJ4E	4E	E280
240	95	7582541	RJ4AU240-95	32	19.5	13	143.5	..MJ4E	4E	E280
240	120	7582551	RJ4AU240-120	32	19.5	14.2	143.5	..MJ4E	4E	E280
240	150	7582561	RJ4AU240-150	32	19.5	16	143.5	..MJ4E	4E	E280
240	185	7582571	RJ4AU240-185	32	19.5	18	143.5	..MJ4E	4E	E280
240	240	7582581	RJ4AU240-240	32	19.5	20	143.5	..MJ4E	4E	E280
240	300	7582591	RJ4AU240-300	32	19.5	23.3	143.5	..MJ4E	4E	E280



Cable section (mm<sup>2</sup>)



Packing



Type of dies

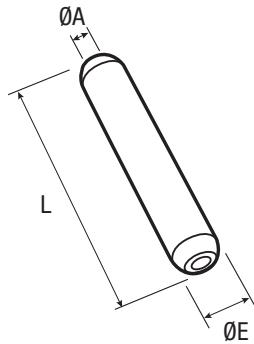
Unless indicated otherwise,  
all dimensions are in millimeters

# Aluminium Junction Butt Connectors



## General features

- ✓ Equal sections.
- ✓ Aluminium junction butt connectors, covered inside with neutral grease, the ends closed by a protection cap.
- ✓ These junction butt connectors are packaged in a plastic bag of 3 pieces with the compound necessary for the filling up of the punching cells.
- ✓ Crimping by deep indent.



mm <sup>2</sup>	Item code	x3	Part no.	Ø A	Ø E	L	Dies	Stamp
16	7581801	RJ0A16	5.5	16	91	..MJ0E	0E	
25	7581811	RJ0A25	6.5	16	91	..MJ0E	0E	
35	7581821	RJ0A35	8	16	91	..MJ0E	0E	
50	7581831	RJ1A50	9	20	107	..MJ1E	1E	
70	7581841	RJ1A70	11	20	107	..MJ1E	1E	
95	7581851	RJ1A95	12.5	20	107	..MJ1E	1E	
120	7581861	RJ2A120	13.7	25	133.5	..MJ2E	2E	
150	7581871	RJ2A150	15.5	25	133.5	..MJ2E	2E	
185	7581881	RJ4A185	17	32	144	..MJ4E	4E	
240	7581891	RJ4A240	19.5	32	144	..MJ4E	4E	
300	7581901	RJ5A300	23.3	40	218.5	..MJ5E	5E	
400	7581911	RJ5A400	26	40	218.5	..MJ5E	5E	
500	7581921	RJ6A500	29.1	47	219	..MJ6E	6E	
630	7581931	RJ6A630	32.5	47	219	..MJ6E	6E	



Cable section (mm<sup>2</sup>)



Packing



Type of dies

Unless indicated otherwise,  
all dimensions are in millimeters



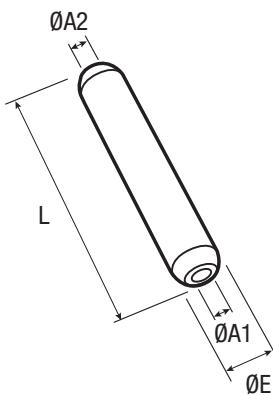
# Aluminium Reduction Butt Connectors

## General features

- ✓ Unequal sections.
- ✓ Aluminium reduction butt connectors, covered inside with neutral grease, the ends closed by a protection cap.
- ✓ These reduction butt connectors are packaged in a plastic bag of 3 pieces with the compound necessary for the filling up of the punching cells.
- ✓ Crimping by deep indent.

**Series  
RJ-A**

Compliant to  
**NF C**  
33-090-1



mm <sup>2</sup>		Item code	x3	Part no.	Ø A1	Ø A2	Ø E	L	Dies	Stamp
35	25	7582001		RJ0A35-25	8	6.5	16	90	..MJ0E	0E
50	25	7582011		RJ1A50-25	9	6.5	20	107	..MJ1E	1E
50	35	7582021		RJ1A50-35	9	8	20	107	..MJ1E	1E
70	35	7582031		RJ1A70-35	11	8	20	107	..MJ1E	1E
70	50	7582041		RJ1A70-50	11	9	20	107	..MJ1E	1E
95	25	7582051		RJ1A95-25	12.5	6.5	20	107	..MJ1E	1E
95	35	7582061		RJ1A95-35	12.5	8	20	107	..MJ1E	1E
95	50	7582071		RJ1A95-50	12.5	9	20	107	..MJ1E	1E
95	70	7582081		RJ1A95-70	12.5	11	20	107	..MJ1E	1E
150	35	7582091		RJ2A150-35	15.5	8	25	133.5	..MJ2E	2E
150	50	7582101		RJ2A150-50	15.5	9	25	133.5	..MJ2E	2E
150	70	7582111		RJ2A150-70	15.5	11	25	133.5	..MJ2E	2E
150	95	7582121		RJ2A150-95	15.5	12.5	25	133.5	..MJ2E	2E
150	120	7582131		RJ2A150-120	15.5	13.7	25	133.5	..MJ2E	2E
240	70	7582151		RJ4A240-70	19.5	11	32	144	..MJ4E	4E
240	95	7582161		RJ4A240-95	19.5	12.5	32	144	..MJ4E	4E
240	120	7582171		RJ4A240-120	19.5	13.7	32	144	..MJ4E	4E
240	150	7582181		RJ4A240-150	19.5	15.5	32	144	..MJ4E	4E
240	185	7582191		RJ4A240-185	19.5	17	32	144	..MJ4E	4E



Cable section (mm<sup>2</sup>)



Packing



Type of dies

Unless indicated otherwise,  
all dimensions are in millimeters

# Tin-plated forged tubular lugs



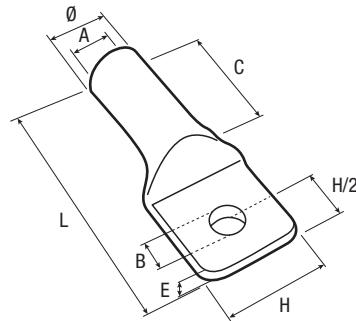
## General features

### Series HU:

- ✓ Tin-plated forged tubular lugs, sealed, hexagonal crimping, for various applications.
- ✓ Manufacture:
  - From 16 to 150 mm<sup>2</sup>: cold extrusion of the barrel followed by cold impact forging of the palm.
  - 185 mm<sup>2</sup> and above: friction welding of a cold extruded barrel and a hot stamped palm.

**Series  
HU**

Compliant  
to  
NFC  
63061  
Class A



mm <sup>2</sup>	Item code	Part no.		A	B	Ø	C	E	H	L	130 kN	200 kN	550 kN
16	7402520	16HU12	**	5.6	12.8	22	40	7	40	90	U13E180(10)		
25	7402521	25HU12	**	6.5	12.8	22	40	7	40	90	U13E180(10)		
35	7402531	35HU12	**	7.5	12.8	22	40	7	40	90	U13E180(10)		
50	7402541	50HU12	**	9.1	12.8	22	40	7	40	90	U13E180(10)		
70	7402551	70HU12	**	1.4	12.8	22	40	7	40	90	U13E180(10)		
95	7402561	95HU12	**	12.8	12.8	22	40	7	40	90	U13E180(10)		
120	7402571	120HU12	**	14.5	12.8	22	40	7	40	90	U13E180(10)		
150	7402581	150HU12	**	15.5	12.8	22	40	7	40	90	U13E180(10)		
185	7402591	185HU12	**	18	12.8	33	40	8	42	106		U21E270(10)	
240	7402601	240HU12	**	21	12.8	33	40	8	42	106		U21E270(10)	
300	7402611	300HU12	**	23	12.8	33	40	8	42	106		U21E270(10)	
400	7402622	400HU*		26	*	33	45	9.5	60	143		U21E270(10)	
500	-	500HU*		30	*	40	60	9.5	60	166		U21E330(10)	B55E330(10)
630	7402643	630HU16		33	*	53	80	10	80	205			B55E440(15)
800	-	800HU*		37	*	53	80	10	80	205			B55E440(15)
1 000	-	1000HU *		43	*	63	80	10	80	240			B55E520(15)
1 300	-	1300HU *		47	*	63	80	10	80	240			B55E520(15)

\* We manufacture the terminals on request. \*\* Contact us.



Cable section (mm<sup>2</sup>)



Packing



Tools

Unless indicated otherwise,  
all dimensions are in millimeters



# Pre-insulated Double Crimp Ring Terminals

## General features

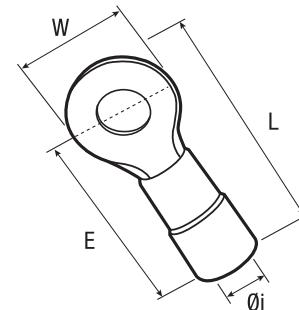
- ✓ Tin-plated copper.
- ✓ Barrel with funnel entry.
- ✓ Grooves in the barrel for a better electrical contact and a better tensile strength.
- ✓ 0 Halogen.

## "S" double crimp series:

- ✓ Copper sleeve for crimping insulation giving better resistance to vibration.
- ✓ PPSU insulation sleeve.
- ✓ Max. operating temperature: 125°C.



No. 3.2-3.4.01  
ECEMA040711



	mm <sup>2</sup>	x100 / Box		Bulk Packing		W	Ø i	E	L	Crimping pliers
		Item code	Part no.	Item code	Part no.					
● 0.34 - 1.5	7220317	C100SA3	7220320	SA3	3.6	3	5.6	1.7	14.5	17.3
	7220326	C100SA3.5	7220325	SA3.5	3.6	3.5	5.6	1.7	14.5	17.3
	7220319	C100SA0-3	7220318	SA0-3	3.6	3	7	1.7	17	20.5
	7220329	C100SA0-4	7220330	SA0-4	3.6	4	7	1.7	17	20.5
	7220343	C100SA0-5	7220340	SA0-5	3.6	5	7	1.7	17	20.5
	7220327	C100SA1-3	7220321	SA1-3	3.6	3	8	1.7	17	21
	7220322	C100SA1-3.5	7220324	SA1-3.5	3.6	3.5	8	1.7	17	21
	7220332	C100SA1-4	7220331	SA1-4	3.6	4	8	1.7	17	21
	7220342	C100SA1-5	7220341	SA1-5	3.6	5	8	1.7	17	21
	7220352	C100SA2-5	7220351	SA2-5	3.6	5	12.5	1.7	20.7	27
● 1 - 2.5	7220362	C100SA2-6	7220361	SA2-6	3.6	6	12.5	1.7	20.7	27
	7220372	C100SA2-8	7220371	SA2-8	3.6	8	12.5	1.7	20.7	27
	7220075	C100SA2-10*	7220073	SA2-10*	4	10	13.6	1.7	23.5	30.3
	7220379	C100SB3	7220380	SB3	4.3	3	5.6	2.4	14.2	17
	7220385	C100SB3.5	7220384	SB3.5	4.3	3.5	5.6	2.4	14.2	17
	7220396	C100SB0-4	7220394	SB0-4	4.3	4	8	2.4	17	21
	7220404	C100SB0-5	7220400	SB0-5	4.3	5	8	2.4	17	21
	7220382	C100SB1-3	7220381	SB1-3	4.3	3	8.6	2.4	16.7	21
	7220392	C100SB1-4	7220391	SB1-4	4.3	4	8.6	2.4	16.7	21
	7220402	C100SB1-5	7220401	SB1-5	4.3	5	8.6	2.4	16.7	21
● 4 - 6	7220412	C100SB1-6	7220411	SB1-6	4.3	6	8.6	2.4	16.7	21.3
	7220422	C100SB2-5	7220421	SB2-5	4.3	5	12.5	2.4	20.7	27
	7220432	C100SB2-6	7220431	SB2-6	4.3	6	12.5	2.4	20.7	27
	7220442	C100SB2-8	7220441	SB2-8	4.3	8	12.5	2.4	20.7	27
	7220146	C100SB2-10*	722143	SB2-10*	4.8	10	13.6	2.4	20.7	30.3
	7220453	C100SC1-3	7220451	SC1-3	6.4	3	9.6	3.3	22.2	27
	7220460	C100SC1-4	7220461	SC1-4	6.4	4	9.6	3.3	22.2	27
	7220470	C100SC1-5	7220471	SC1-5	6.4	5	9.6	3.3	22.2	27
	7220483	C100SC1-6	7220481	SC1-6	6.4	6	9.6	3.3	22.2	27
	7220488	C100SC2-5	7220490	SC2-5	6.4	5	13.8	3.3	25.1	32
TH1	7220493	C100SC2-6	7220491	SC2-6	6.4	6	13.8	3.3	25.1	32
	7220503	C100SC2-8	7220501	SC2-8	6.4	8	13.8	3.3	25.1	32
	7220513	C100SC2-10	7220511	SC2-10	6.4	10	13.8	3.3	25.1	32
	7220516	C100SC2-12	7220514	SC2-12	6.4	12	19.5	3.3	30	40
	7220516	C100SC2-12	7220514	SC2-12	6.4	12	19.5	3.3	30	40
TH2										
TH3										



Cable section (mm<sup>2</sup>)



Packing



Max. Ø cable insulator



Stud site

\* Sleeve UL94V2

Unless indicated otherwise,  
all dimensions are in millimeters.

# Pre-insulated Double Crimp Fork Terminals



## General features

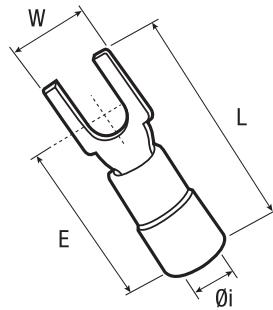
- ✓ Tin-plated copper.
- ✓ Barrel with funnel entry.
- ✓ Grooves in the barrel for a better electrical contact and a better tensile strength.
- ✓ 0 Halogen.

### "S" double crimp series:

- ✓ Copper sleeves for crimping insulation giving better resistance to vibration.
- ✓ PPSU insulation sleeve.
- ✓ Max. operating temperature: 125°C.



No. 3.2-3.4.01  
ECEMA040711



	mm <sup>2</sup>	x100 / Box		Bulk Packing		W	Ø i	E	L	Crimping pliers
		Item code	Part no.	Item code	Part no.					
● 0.34 - 1.5	7222212	C100SRGFA1-3	7222211	SRGFA1-3	3.6	3	5.5	1.7	16.3	20
	7222222	C100SRGFA1-3.5	7222221	SRGFA1-3.5	3.6	3.5	5.5	1.7	16.3	20
	7222232	C100SRGFA1-4	7222231	SRGFA1-4	3.6	4	6.5	1.7	16.3	20
	7222242	C100SRGFA2-4	7222241	SRGFA2-4	3.6	4	8	1.7	16.4	20
	7222252	C100SRGFA2-5	7222251	SRGFA2-5	3.6	5	8	1.7	16.4	20
	7222262	C100SRGFA2-6	7222261	SRGFA2-6	3.6	6	8	1.7	16.4	20
● 1 - 2.5	7222272	C100SRGFB0-3	7222271	SRGFB0-3	4.3	3	6.4	2.4	16.5	20.5
	7222282	C100SRGFB0-4	7222281	SRGFB0-4	4.3	4	6.4	2.4	16.5	20.5
	7222292	C100SRGFB1-3	7222291	SRGFB1-3	4.3	3	7.9	2.4	16.5	20.5
	7222302	C100SRGFB1-4	7222301	SRGFB1-4	4.3	4	7.9	2.4	16.5	20.5
	7222312	C100SRGFB1-5	7222311	SRGFB1-5	4.3	5	7.9	2.4	16.5	20.5
	7222322	C100SRGFB2-4	7222321	SRGFB2-4	4.3	4	9.5	2.4	18.8	23
● 4 - 6	7222332	C100SRGFB2-5	7222331	SRGFB2-5	4.3	5	9.5	2.4	18.8	23
	7222342	C100SRGFB2-6	7222341	SRGFB2-6	4.3	6	9.5	2.4	19	23
	7222353	C100SRGFC0-3	7222351	SRGFC0-3	6.4	3	6.7	3.3	24	26.4
	7222363	C100SRGFC0-4	7222361	SRGFC0-4	6.4	4	6.7	3.3	24	26.4
	7222373	C100SRGFC1-4	7222371	SRGFC1-4	6.4	4	9.5	3.3	21.9	26.1
	7222383	C100SRGFC1-5	7222381	SRGFC1-5	6.4	5	9.5	3.3	22	26.1
	7222393	C100SRGFC1-6	7222391	SRGFC1-6	6.4	6	9.5	3.3	22	26



Cable section (mm<sup>2</sup>)



Packing



Max. Ø cable insulator



Stud site

Unless indicated otherwise,  
all dimensions are in millimeters.



# Pre-insulated reinforced lugs with Rectangular terminals

## General features

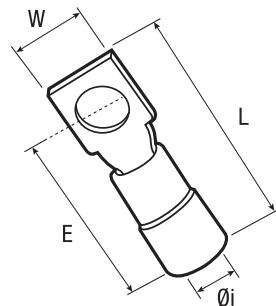
- ✓ Tin-plated copper.
- ✓ Barrel with funnel entry.
- ✓ Grooves in the barrel for a better electrical contact and a better tensile strength.
- ✓ 0 Halogen.

## "S" double crimp series:

- ✓ Copper sleeve for crimping insulation giving better resistance to vibration.
- ✓ PPSU insulation sleeve.
- ✓ Max. operating temperature: 125°C.



No. 3.2-3.4.01  
ECEMA040711



	mm <sup>2</sup>	x100 / Box		Bulk Packing		Ø mm	Ø mm	W	Ø i	E	L	Crimping pliers
		Item code	Part no.	Item code	Part no.							
● 0.34 - 1.5	7221212	C100SRGA1-3	7221211	SRGA1-3	3.6	3	5.5	1.7	16.5	20.5		TH1
	7221222	C100SRGA1-3.5	7221221	SRGA1-3.5	3.6	3.5	5.5	1.7	16.5	20.5		
	7221232	C100SRGA1-4	7221231	SRGA1-4	3.6	4	6.5	1.7	16.5	20.5		
	7221242	C100SRGA2-4	7221241	SRGA2-4	3.6	4	8	1.7	16.5	20.5		
	7221252	C100SRGA2-5	7221251	SRGA2-5	3.6	5	8	1.7	16.5	20.5		
	7221262	C100SRGA2-6	7221261	SRGA2-6	3.6	6	8	1.7	16.5	20.5		
● 1 - 2.5	7221272	C100SRGB0-3	7221271	SRGB0-3	4.3	3	6.4	2.4	16.5	20.5		TH2
	7221282	C100SRGB0-4	7221281	SRGB0-4	4.3	4	6.4	2.4	16.5	20.5		
	7221292	C100SRGB1-3	7221291	SRGB1-3	4.3	3	7.9	2.4	16.5	20.5		
	7221302	C100SRGB1-4	7221301	SRGB1-4	4.3	4	7.9	2.4	16.5	20.5		
	7221312	C100SRGB1-5	7221311	SRGB1-5	4.3	5	7.9	2.4	16.5	20.5		
	7221322	C100SRGB2-4	7221321	SRGB2-4	4.3	4	9.5	2.4	19.1	23.5		
● 4 - 6	7221332	C100SRGB2-5	7221331	SRGB2-5	4.3	5	9.5	2.4	19.1	23.5		TH3
	7221342	C100SRGB2-6	7221341	SRGB2-6	4.3	6	9.5	2.4	19.1	23.5		
	7221353	C100SRGC0-3	7221351	SRGC0-3	6.4	3	6.7	3.3	24	26.5		
	7221363	C100SRGC0-4	7221361	SRGC0-4	6.4	4	6.7	3.3	24	26.5		
	7221373	C100SRGC1-4	7221371	SRGC1-4	6.4	4	9.5	3.3	22	26.3		
	7221383	C100SRGC1-5	7221381	SRGC1-5	6.4	5	9.5	3.3	22	26.3		
	7221393	C100SRGC1-6	7221391	SRGC1-6	6.4	6	9.5	3.3	22	26.3		



Cable section (mm<sup>2</sup>)



Packing



Max. Ø cable insulator



Stud site

Unless indicated otherwise.  
all dimensions are in millimeters.

# Locking Pre-insulated Terminals



## General features

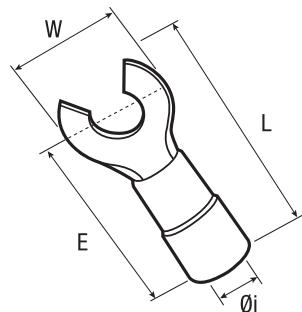
- ✓ Tin-plated copper.
- ✓ Barrel with funnel entry.
- ✓ Grooves in the barrel for a better electrical contact and a better tensile strength.
- ✓ 0 Halogen.

### "S" double crimp series:

- ✓ Copper sleeve for crimping insulation giving better resistance to vibration.
- ✓ PPSU insulation sleeve.
- ✓ Max. operating temperature: 125°C.



No. 3.2-3.4.01  
ECEMA040711



mm <sup>2</sup>	x100 / Box			Bulk Packing			Ø mm	Ø mm	W	Ø i	E	L	Crim- ping pliers
	New	Item code	Part no.	New	Item code	Part no.							
● 0.34 - 1.5	7220328	C100SAE3	7220023	SAE3	3.6	3	5.6	1.7	14.5	16.5			TH1
	7220335	C100SAE1-4	7220034	SAE1-4	3.6	4	8	1.7	17	20			
● 1 - 2.5	7220386	C100SBE3	7220083	SBE3	4.3	3	5.6	2.4	14.5	16.8			TH2
	7220398	C100SBE0-4	7220093	SBE0-4	4.3	4	8	2.4	17	20			
● 4 - 6	7220466	C100SCE1-4	7220163	SCE1-4	6.4	4	9.3	3.3	23	27			TH3
	7220475	C100SCE1-5	7220173	SCE1-5	6.4	5	9.3	3.3	23	26.7			



Cable section (mm<sup>2</sup>)



Packing



Max. Ø cable insulator



Stud site

Unless indicated otherwise.  
all dimensions are in millimeters.



# Pre-insulated Pin and Blade terminals

## General features

- ✓ Tin-plated copper.
- ✓ Barrel with funnel entry.
- ✓ Grooves in the barrel for a better electrical contact and better tensile strength.
- ✓ 0 Halogen.

### "S" double crimp series:

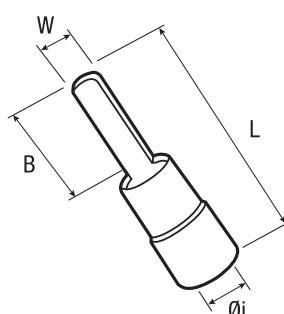
- ✓ Copper sleeve for crimping insulation giving better resistance to vibration.
- ✓ PPSU insulation sleeve.
- ✓ Max. operating temperature: 125°C.  
(105°C for terminal end of type PR)



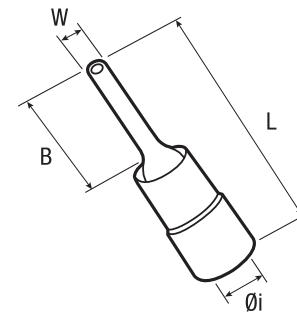
No. 3.2-3.4.01  
ECEMA040711



Refer to  
page 57



Type PF



Type PR

	mm <sup>2</sup>	Bulk Packing		x100 / Box		Ø mm	W	Ø i	E	L	Crimping pliers
		Item code	Part no.	Item code	Part no.						
● 0.34 - 1.5	7273122	C100SPFA3	7273121	SPFA3	3.6	2.9	1.7	7.5	17.5		TH1
	7273112	C100SPFA3R**	7273111	SPFA3 R**	3.6	2.9	1.7	11.3	21		
	7271013	C100SPRA1.6*	7271011	SPRA1.6*	3.6	1.9	1.7	12	22.5		
	7271016	C100SPRA1.6C*	7271014	SPRA1.6 C*	3.6	1.9	1.7	9	19.7		
● 1 - 2.5	7273150	C100SPFB3	7273149	SPFB3	4.3	2.9	2.4	8	18		TH2
	7273155	C100SPFB3R**	7273153	SPFB3 R**	4.3	2.9	2.4	12	21.8		
	7273142	C100SPFB4R**	7273141	SPFB4 R**	4.3	3.9	2.4	12	21.8		
	7271023	C100SPRB2.3*	7271021	SPRB2.3*	4.3	1.9	2.4	12	22		
● 4 - 6	7271026	C100SPRB2.3C*	7271024	SPRB2.3 C*	4.3	1.9	2.4	9	18.8		TH3
	7273163	C100SPFC3.9R**	7273161	SPFC3.9 R**	6.4	3.9	3.3	12.7	26		
	7271034	C100SPRC3.5*	7271031	SPRC3.5*	6.4	2.5	3.3	14	28		



Cable section (mm<sup>2</sup>)



Packing



Max. Ø cable insulator



Stud site

\* = Polyamide insulator  
\*\* = Notched

Unless indicated otherwise,  
all dimensions are in millimeters.

# Pre-insulated Female, Male and Piggyback Disconnects



## General features

- ✓ Tin-plated brass double crimp "S" version.
- ✓ Tin-plated bronze double crimp "51000" version.
- ✓ 0 Halogen.

### "S" double crimp series:

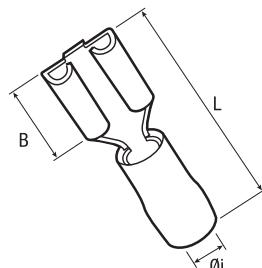
- ✓ Copper sleeve for crimping insulation giving better resistance to vibration.
- ✓ PA insulation sleeve for versions\*. PC for versions SQM =. PPSU for other versions.
- ✓ Max. operating temperature: 125°C.



No. 3.2-3.4.02  
ECEMA040711

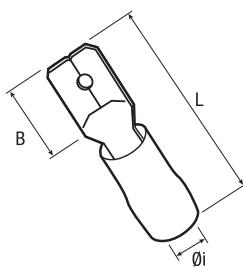


No. 3.2-3.4.02  
ECEMA040711



## Pre-insulated female disconnects

	Laiton				Brass				Male disconnect	Ø i	B	L	Crim- ping pliers		
	mm <sup>2</sup>	x100 / Box	Item code	Part no.	mm <sup>2</sup>	Bulk Packing	Item code	Part no.						mm <sup>2</sup>	x100 / Box
● 0.34 - 1.5	7251016	C100SQA2.8-3	7250500	SQA2.8-3*	7261027	C100-51301-3	7260505	51031-3*	3.6	2.8	0.3	1.7	6.5	19.5	TH1
	7251015	C100SQA2.8-5	7250501	SQA2.8-5*	7261018	C100-51031-2	7260506	51031-2*	3.6	2.8	0.5	1.7	6.5	19.5	
	7251094	C100SQA2.8-8	7250502	SQA2.8-8*	7261030	C100-51031-8	7260508	51031-8*	3.6	2.8	0.8	1.7	6.5	19.5	
	-	-	7251084	SQA4.7-5	-	-	-	-	3.6	4.8	0.5	1.7	6	18.7	
	7251096	C100SQA4.7-8	7251065	SQA4.7-8	-	-	-	-	3.6	4.8	0.8	1.7	6	18.7	
	7251337	C100SQAN	7251324	SOA-5N	7261447	C100-51081-2	7261442	51081-2	3.6	5	0.8	1.7	7.7	21	
	7251333	C100SQA6.35	7251332	SOA-6.35	7261471	C100-51181-2	7261472	51181-2	3.6	6.3	0.8	1.7	7.7	21	
● 1 - 2.5	7251097	C100SQB4.7-5	7251085	SQB4.7-5	-	-	-	-	4.3	4.8	0.5	2.4	6	18.7	TH2
	7251098	C100SQB4.7-8	7251067	SQB4.7-8	-	-	-	-	4.3	4.8	0.8	2.4	6	18.7	
	7251338	C100SQBN	7251344	SQB5N	7261453	C100-51131-2	7261452	51131-2	4.8	5	0.8	2.4	7.7	21	
	7251353	C100SQB6.35	7251352	SQB6.35	7261481	C100-51231-2	7261482	51231-2	4.8	6.3	0.8	2.4	7.7	21	
● 4 - 6	7251382	C100SQC6.35	7251372	SQC6.35	7261512	C100-51661-4J	7261509	51661-4J	6.8	6.3	0.8	3.4	7.7	25	TH3



## Pre-insulated male and piggyback disconnects

SQM...

	x100 / Box				Male disconnect	Ø i	B	L	Crim- ping pliers		
	mm <sup>2</sup>	Item code	Part no.	Bulk Packing							
● 0.34 - 1.5	7250013	C100SQMA6.35	7250011	SQMA-6.35	3.5	6.3	0.8	1.7	8	20.5	TH1
● 1 - 2.5	7250023	C100SQMB6.35	7250021	SQMB-6.35	4	6.3	0.8	2.4	8	20.5	TH2
● 4 - 6	7250034	C100SQMC6.35	7250031	SQMC-6.35	5.5	6.3	0.8	3.4	8	24.5	TH3



Cable section (mm<sup>2</sup>)



Packing



Max. Ø cable insulator

\* = Polyamide insulator

Unless indicated otherwise.  
all dimensions are in millimeters.



# Pre-insulated Butt Splices with control window

## General features

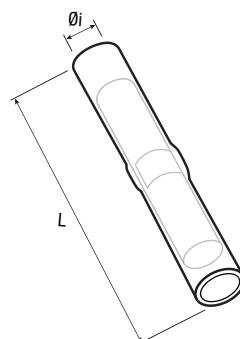
- ✓ Tin-plated copper.
- ✓ Barrel with funnel entry.
- ✓ 0 Halogen.
- ✓ Copper sleeve for crimping insulation giving better resistance to vibration.
- ✓ Polycarbonate insulation sleeve for the red and blue versions. Polyamide for the yellow version.
- ✓ Max. operating temperature: 125°C.



No. 3.2-3.4.02  
ECEMA040711



Refer to page 57



mm <sup>2</sup>	x100 / Box	Bulk Packing	Ø mm	Ø i	L	Crimping pliers
Item code	Part no.	Item code	Part no.			
● 0.34 - 1.5	7282203	C100-51391	7282201	51391	3.6	TH1 + Stop HF21
● 1 - 2.5	7282214	C100-51402	7282215	51402	4	TH2 + Stop HF21
● 4 - 6	7282225	C100-51413	7282221	51413	5.5	TH3



Cable section (mm<sup>2</sup>)



Packing



Max. Ø cable insulator

Unless indicated otherwise,  
all dimensions are in millimeters.



## General features

### Grommets:

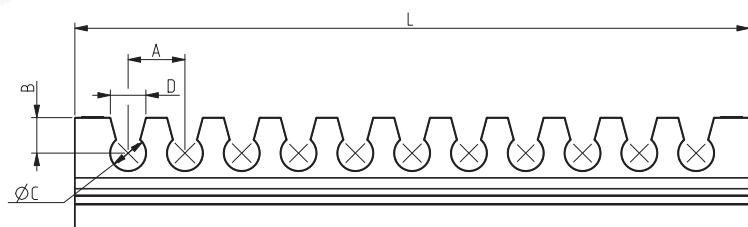
- ✓ Material: neoprene.

### Cable chute:

- ✓ Material: steel coated with black paint.

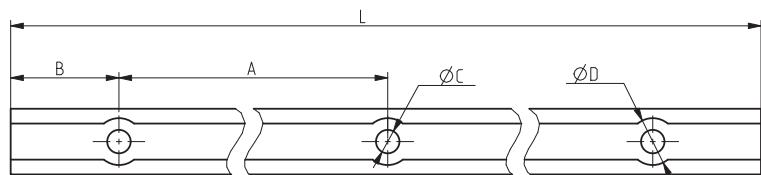


No. 3.2-3.4.11



## Grommet 11 slots

Item code	Part no.	A	B	ØC	D	L
7904002	SF1184	8	5	5	5	95



## Cable slide for grommet

Item code	Part no.	A	B	ØC	D	L
7904004	GLI76	350	30	6.5	13	760
7904001	GLI80		Not pierced			800

Note: other lengths and piercing on request.

Unless indicated otherwise,  
all dimensions are in millimeters.



# Pre-insulated end sleeves

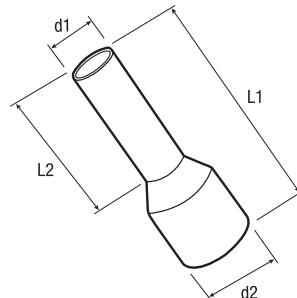
## General features

- ✓ Material: tin-plated copper.
- ✓ Polypropylene insulating sleeve.
- ✓ Max. operating temperature: 105°C.

Series  
CE/CA

Compliant  
to  
DIN  
46228/4

Compliant  
to  
NFC  
63023



mm <sup>2</sup>	NFC 63023			DIN 46228/4			DIN 46228/4 Except colours			d1	d2	L1	L2
	Item code	Part no.	Colour	Item code	Part no.	Colour	Item code	Part no.	Colour				
0.25				7170031	CE002D	■				1 000	0.75	1.8	10
0.34	7170041	CE003	●	7170042	CE003D	■	7170043	CE003W	■	1 000	0.8	2	12
0.5	7170051	CE005	○	7170051	CE005	○	7170052	CE005W	●	1 000	1	2.6	14
0.75	7170071	CE007	●	7170072	CE007D	●	7170073	CE007W	○	1 000	1.2	2.8	14
	7170081	CE0072	●	7170082	CE0072D	●	7170083	CE0072W	○	1 000	1.2	2.8	18
1	7170101	CE010	●	7170101	CE010	●	7170102	CE010W	●	1 000	1.4	3	14
	7170261	CE0103	●	7170261	CE0103	●	7170103	CE0103W	●	1 000	1.4	3	18
	7170151	CE015	●	7170151	CE015	●	7170154	CE015W	●	1 000	1.7	3.5	14
1.5	7170152	CE0152	●	7170152	CE0152	●	7170155	CE0152W	●	1 000	1.7	3.5	18
	7170153	CE0153	●	7170153	CE0153	●	7170156	CE0153W	●	1 000	1.7	3.5	24
	7170251	CE025	●	7170256	CE025D	●	7170256	CE025D	●	1 000	2.2	4.2	14
2.5	7170252	CE0252	●	7170271	CE0252D	●	7170271	CE0252D	●	1 000	2.2	4.2	18
	7170253	CE0253	●	7170272	CE0253D	●	7170272	CE0253D	●	1 000	2.2	4.2	24
	7170421	CA042	●	7170422	CA042D	●	7170422	CA042D	●	1 000	2.8	4.8	17
4	7170401	CA040	●	7170423	CA040D	●	7170423	CA040D	●	1 000	2.8	4.8	20
	7170431	CA043	●	7170424	CA043D	●	7170424	CA043D	●	1 000	2.8	4.8	26
	7170621	CA062	●	7170622	CA062D	●	7170623	CA062W	●	100	3.5	6.3	20
6	7170631	CA063	●	7170632	CA063D	●	7170633	CA063W	●	100	3.5	6.3	18
	7171021	CA102	●	7171022	CA102D	●	7171620	CA102W	●	100	4.5	7.6	22
10	7171031	CA103	●	7171032	CA103D	●	7171033	CA103W	●	100	4.5	7.6	28
	7171621	CA162	●	7171622	CA162D	●	7171630	CA162W	●	100	5.8	8.8	24
16	7171631	CA163	●	7171632	CA163D	●	7171633	CA163W	●	100	5.8	8.8	28
	7172531	CA253	●	7172533	CA253D	●	7172532	CA253W	●	50	7.3	11.2	30
25	7172501	CA252	●	7172502	CA252D	●	7172503	CA252W	●	50	7.3	11.2	36
	7172541	CA352	●	7172541	CA352	●	7172542	CA352W	●	50	8.3	12.7	30
35	7172551	CA350	●	7172551	CA350	●	7172552	CA350W	●	50	8.3	12.7	30
	7172561	CA502	●	7172561	CA502	●	7172562	CA502W	●	50	10.3	15	36
50	7172581	CA70	●							25	13.5	16	37
70	7172585	CA95	●							25	14.7	18	25



Cable section (mm<sup>2</sup>)



Packing

Unless indicated otherwise,  
all dimensions are in millimeters.

# “Twin” Pre-insulated End Sleeves

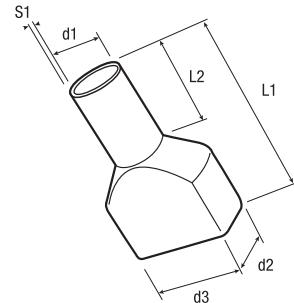


## General features

- ✓ Two conductors with equal section in a same end sleeve.
- ✓ Material: tin-plated copper and insulating collar.
- ✓ Polypropylene insulating sleeve.
- ✓ Max. operating temperature: 105°C.



**Series  
TE**



mm <sup>2</sup>	NFC 63023			DIN 46228/4			Corrugate to use	
	Item code	Part no.	Colour	Item code	Part no.	Colour		
<b>2 x 0.5</b>	7173491	TE0508	○	7173491	TE0508	○	1 000	15 8 1.4 0.15 2.5 4.7 0.50-0.75
<b>2 x 0.75</b>	7173501	TE7508	●	7173621	TE7508D	●	1 000	15 8 1.7 0.15 2.8 5 1-1.5
	7173511	TE7510	●	7173631	TE7510D	●	1 000	17 10 1.7 0.15 2.8 5 1-1.5
<b>2 x 1</b>	7173521	TE1008	●	7173521	TE1008	●	1 000	15 8 2 0.15 3.4 5.4 1-1.5
	7173531	TE1010	●	7173531	TE1010	●	1 000	17 10 2 0.15 3.4 5.4 1-1.5
<b>2 x 1.5</b>	7173541	TE1508	●	7173541	TE1508	●	1 000	16 8 2.2 0.15 3.6 6.6 2.5
	7173551	TE1512	●	7173551	TE1512	●	1 000	20 12 2.2 0.15 3.6 6.6 2.5
<b>2 x 2.5</b>	7173561	TE2510	●	7173562	TE2510D	●	1 000	18.5 10 2.8 0.2 4.2 7.8 6
	7173571	TE2513	●	7173651	TE2513D	●	1 000	21.5 13 2.8 0.2 4.2 7.8 6
<b>2 x 4</b>	7173581	TE4012	●	7173661	TE4012D	●	100	23 12 3.7 0.2 4.9 8.8 6
<b>2 x 6</b>	7173591	TE6014	●	7173592	TE6014D	●	100	26 14 4.8 0.2 6.9 10 10
<b>2 x 10</b>	7173601	TE10014	●	7173681	TE10014D	●	100	26 14 6.4 0.2 7.2 13 25
<b>2 x 16</b>	7173611	TE16014	●	7173691	TE16014D	●	50	30 14 8.2 0.2 9.6 18.4 35



Cable section (mm<sup>2</sup>)



Packing

Unless indicated otherwise,  
all dimensions are in millimeters.

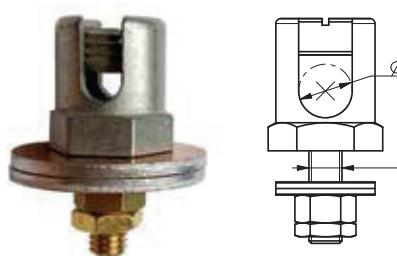


# Tin-plated brass earthing line supports

## General features

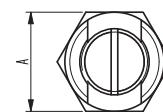
### SF CNM Series (Seaside):

- ✓ Tin-plated brass earthing line supports.
- ✓ One brass stud + one brass nut + one locknut.
- ✓ 2 Alu-Cu washers.



**EDF  
SEPTEN**

No. 3.2-3.4.08  
ECEMA040711



**Series  
SF CNM**

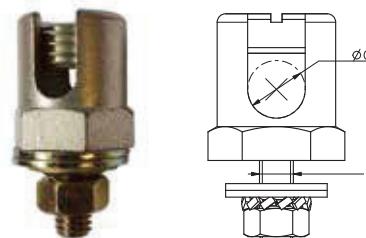
		Item code	Part no.		A	B	C			Item code	Part no.		A	B	C
16 to 25	7341004	SF66CNM	25	17	M 6	6		50 to 120	7341154	SF146CNM	10	26	M 6	14	
16 to 25	7341014	SF67CNM	25	17	7 x 150	6		50 to 120	7341163	SF147CNM	10	26	7 x 150	14	
16 to 25	7341024	SF68CNM	25	17	M 8	6		50 to 120	7341174	SF148CNM	10	26	M 8	14	
16 to 50	7341034	SF86CNM	25	19	M 6	8		50 to 120	7341184	SF1410CNM	10	26	M 10	14	
16 to 50	7341044	SF87CNM	25	19	7 x 150	8		95 to 150	7341194	SF166CNM	10	30	M 6	16	
16 to 50	7341054	SF88CNM	25	19	M 8	8		95 to 150	7341207	SF167CNM	10	30	7 x 150	16	
16 to 50	7341064	SF810CNM	25	19	M 10	8		95 to 150	7341214	SF168CNM	10	30	M 8	16	
25 to 75	7341074	SF106CNM	25	21	M 6	10		95 to 150	7341224	SF1610CNM	10	30	M 10	16	
25 to 75	7341084	SF107CNM	25	21	7 x 150	10		185	7341233	SF186CNM	10	32	M 6	18	
25 to 75	7341094	SF108CNM	25	21	M 8	10		185	7341244	SF188CNM	10	32	M 8	18	
25 to 75	7341104	SF1010CNM	25	21	M 10	10		185	7341255	SF1810CNM	10	32	M 10	18	
25 to 95	7341114	SF126CNM	25	24	M 6	12		240	7341273	SF206CNM	5	36	M 6	20	
25 to 95	7341126	SF127CNM	25	24	7 x 150	12		240	7341305	SF2010CNM	5	36	M 10	20	
25 to 95	7341134	SF128CNM	25	24	M 8	12									
25 to 95	7341144	SF1210CNM	25	24	M 10	12									

Note: The max. sections are provided for information purposes only, always check the core diameter of the cable used.

## General features

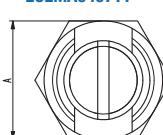
### SF CNM series (Standard):

- ✓ Tin-plated brass earthing line supports.
- ✓ One brass stud + One zinc-plated nut.
- ✓ 2 flat washers + 1 zinc-plated JZC washer in steel.



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No. 3.2-3.4.08  
ECEMA040711



**Series  
SF CN**

		Item code	Part no.		A	B	C			Item code	Part no.		A	B	C
16 to 25	7341003	SF66CN	x	17	M 6	6		50 to 120	7341153	SF146CN	25	26	M 6	14	
16 to 25	7341023	SF68CN	x	17	M 8	6		50 to 120	7341166	SF147CN	25	26	7 x 150	14	
16 to 50	7341033	SF86CN	x	19	M 6	8		50 to 120	7341173	SF148CN	25	26	M 8	14	
16 to 50	7341043	SF87CN	x	19	7 x 150	8		95 to 150	7341193	SF166CN	10	30	M 6	16	
16 to 50	7341053	SF88CN	x	19	M 8	8		95 to 150	7341206	SF167CN	10	30	7 x 150	16	
25 to 75	7341073	SF106CN	x	21	M 6	10		95 to 150	7341213	SF168CN	10	30	M 8	116	
25 to 75	7341083	SF107CN	x	21	7 x 150	10		95 to 150	7341223	SF1610CN	10	30	M 10	16	
25 to 75	7341093	SF108CN	x	21	M 6	10		185	7341254	SF1810CN	10	32	M 10	18	
25 to 95	7341113	SF126CN	x	24	M 8	12		240	7341304	SF2010CN	5	36	M 10	18	
25 to 95	7341133	SF128CN	x	24	M 6	12									

Note: The max. sections are provided for information purposes only, always check the core diameter of the cable used.



Cable section (mm<sup>2</sup>)

Unless indicated otherwise,  
all dimensions are in millimeters.

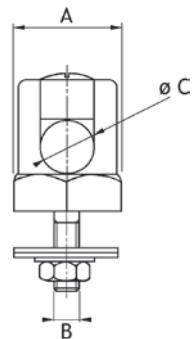
# Brass earthing line supports Tin-plated pipe-wrench



## Brass earthing line supports General features

### SF + BM series:

- ✓ Brass earthing line supports with brass, stud and nut and 2 Al-Cu washers.
- ✓ Available tin-plated and/or without screws, on request.



Series  
SF+BM

		Item code		Part no.	A	B	C			Item code		Part no.	A	B	C	
16 to 25	7341008	SF66+BM		25	17	M 6	4 to 6		50 to 120	7341162		SF147+BM	10	26	7 x 150	8 to 14
16 to 50	7341038	SF86+BM		25	17	M 6	4 to 8		95 to 150	7341198		SF166+BM	10	30	M 6	10 to 16
25 to 75	7341078	SF106+BM		25	21	M 6	6 to 10		95 to 150	7341203		SF167+BM	10	30	7 x 150	10 to 16
25 to 95	7341118	SF126+BM		25	24	M 6	6 to 12		185	7341234		SF186+BM	10	32	M 6	18
25 to 95	7341122	SF127+BM		25	24	7 x 150	6 to 12		240	7341278		SF206+BM	5	36	M 6	20
50 to 120	7341158	SF146+BM		10	26	M 6	8 to 14		240	7341282		SF207+BM	5	36	7 x 150	20

Note: The max. sections are provided for information purposes only, always check the core diameter of the cable used.

## Tin-plated brass pipe wrench

### General features

#### SF CNM series:

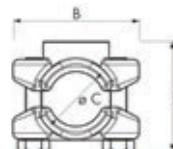
- ✓ Tin-plated brass pipe wrench.
- ✓ Fitting screws depending on the version: refer to the composition.

EDF  
SEPTEN

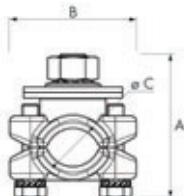
No. 3.2-3.4.08  
ECEMA040711



ST CN



ST CNM



Composition

Item code	Part no.	Type	A	B	C		
7341403	ST20-10CN	10	CN	54	46	20	Stud bolt + nut + JZC washer + 2 zinc coated steel flat washers
7341404	ST20-10CNM	10	CNM	66	46	20	Stud bolt + nut + brass locknut + 2 Aluminium-Copper washers



Packing

Unless indicated otherwise,  
all dimensions are in millimeters.



# Washers and plates

## Bimetal (Aluminium-Copper)

### General features

**BI Series:**

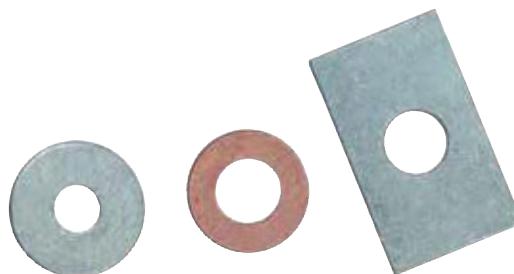
- ✓ Washers for earthing line supports.

**PBST 2 Series:**

- ✓ Washers for earthing contact shoe.

**Cable chute:**

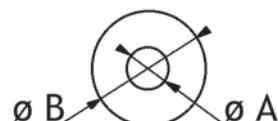
- ✓ Plates for earthing contact shoe.
- ✓ Bimetal material: Aluminium-Copper.



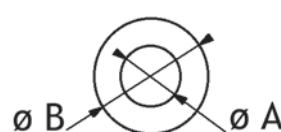
**EDF  
SEPTEN**

No. 3.2-3.4.08  
ECEMA040711

**Series  
BI**

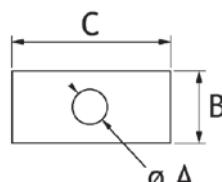
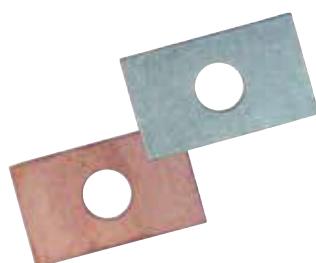


Item code	x100 / Box	Part no.	ØA	ØB	Thickness
7341500		BI12-5	5.3	12	2
7341499		BI12-6	6.5	12	2
7341521		BI24-14	14.4	24	2
7341511		BI24-6	6.5	24	2
7341525		BI25-8	8.5	25	2
7341557		BI30-16	16.5	30	2
7341531		BI30-6	6.5	30	2
7341541		BI30-8	8.5	30	2
7341551		BI30-10	10.5	30	2
7341555		BI30-13	13	30	2
7341556		BI30-14	14.6	30	2



**Series  
PBST 2**

Item code	x100 / Box	Part no.	ØA	ØB	Thickness
7341561		PBST2-14	14.5	27	1
7341571		PBST2-16	16.5	30	1



**Series  
PBST 1**

Item code	x100 / Box	Part no.	ØA	ØB	C	Thickness
7341581		PBST1-14	14.5	31	51	1
7341591		PBST1-16	16.5	36	55	1



Packing

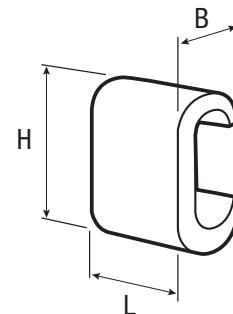
Unless indicated otherwise,  
all dimensions are in millimeters.

# Compression Tap-off Copper Connectors Type "C"



## General features

- ✓ Crimping tap made of pure electrolytic copper with a "C" shape enabling joints and taps of Cu-Cu for overhead and grounding connections without cutting the main cable.



**EDF  
SEPTEN**

No. 3.2-3.4.02  
ECEMA040711

Copper				Tin-plated copper				Capacities											
Item code	Part no.		Code eRDF	Item code	Part no.		L	H	B	Total		Min.		Max.		Assembly			
										Min.	Max.	1	2	1	2				
7340103	C6	100	7340104	C6E			100	9	10	6.4	3	12	1.5	1.5	6	6	A	..HCU16	
7340132	C10	100	7340131	C10E	6708710		100	12	12.5	8.5	13	20	10	2x1.5	10	10	A	..HCU25	
7340152	C16	100	7340151	C16E			100	17	19	11.5	19		10	9	16			..HCU70	
													32	16	2x1.5	16	A+B		
7340185	C25-10	100	7340184	C25-10E			100	17	19.8	13	17	35	16	1.5	25	10	A	..HCU95	
7340180	C25PM	50	7340181	C25PME			50	19	21	11.9	35	41	25	10	25	16	A+B	..HCU95	
													25	10	29.3	29.3	A		
7340172	C25	50	7340171	C25E	6708725		50	20	24.3	15	33	56	27	6	35	16	A+B	..HCU150	
													30	2x1.5	30	16	A+B		
7340212	C35	50	7340211	C35E	6708728/ 724		50	20	26.5	15	53	70	30	25	35	35	A+B	..HCU150	
													50	2x1.5	50	16	A+B		
7340232	C50	50	7340231	C50E	6708746		50	20	26.5	17.2	66	100	63	2x1.5	50	50	A	..HCU150	
													75	16	70	30	A		
7340245	C70-35	25	7340244	C70-35E			25	28	33	21	54	110	50	4	70	40	A	..HCU240	
7340255	C70	25	7340254	C70E			25	28	34	21	85	140	50	35	70	70	A	..HCU240	
													75	30	95	75	A+B		
7340262	C75	25	7340261	C75E	6708776		25	30	41	26	105	170	70	35	95	70	A+B	..CC95	
													90	16					
7340285	C95-35	25	7340284	C95-35E			25	30	41	26	99	140	95	4	100	40	A	..CC95	
7340282	C95	25	7340281	C95E	RDCT75/RCC75		25	30	41	26	150	190	75	75	95	95	A	..CC95	
7340332	C120	10	7340331	C120E	RDCT116/RCC116		10	30	45	28	156	240	120	35	120	120	A	..CC150	
													150	6	150	50	A		
7340352	C150	10	7340351	C150E	RDCT147/RCC147		10	30	45	28	225	300	150	75	150	150	A+B	..CC150	
7340374	C185-95	10	7340372	C185-95E	RDCT18/75		10	30	45	28	260	300	185	75			A+B	..CC150	
7340370	C185	10	7340371	C185E	RDCT181/RCC181		10	35	54	33	210	370	115	95	185	185	A+B	..CC185	
													150	60	185	150	A+B		
7340376	C240	10	7340375	C240E			10	40	54	33.5	387	480	240	147	240	240	A	..CC185	

Fig. A

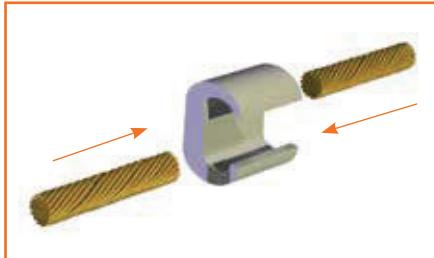


Fig. A

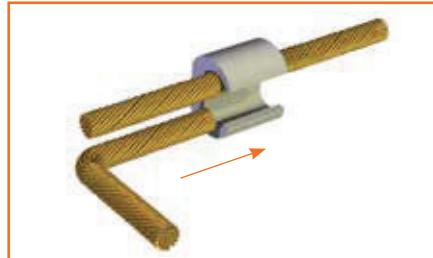
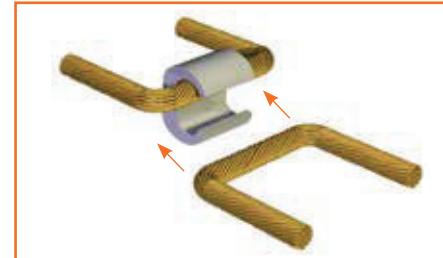


Fig. B



Packing



Type of dies

Unless indicated otherwise,  
all dimensions are in millimeters.



# Earthing Copper Tubular Lugs

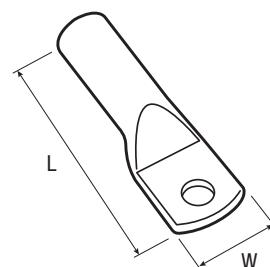
## General features

### CDCT Series:

- ✓ Copper tubular lugs for ground cables.
- ✓ Electrolytic tin-plating process.



No. 3.2-3.4.08  
ECEMA040711



	mm <sup>2</sup>	Item code	x50 / Box	Part no.	Ø mm	W	L	Hole size
75	75	7341601	x50	CDCT70-8.5	8	23.5	75	..HCT 75
	75	7341611		CDCT70-10.5	10	23.5	75	
	75	7341621		CDCT70-12.5	12	23.5	81.4	
95	95	7341629		CDCT95-10	10	25	86	..HCT 95
	95	7341628		CDCT95-12	12	25	86	
116	116	7341631		CDCT116-10.5	10	28.5	85	..HCT 116
	116	7341641		CDCT116-12.5	12	28.5	91	
	116	7341651		CDCT116-14.5	14	28.5	93	
	116	7341661		CDCT116-16.5	16	28.5	95	
147	147	7341671		CDCT147-10.5	10	31.2	98	..HCT 147
	147	7341681		CDCT147-12.5	12	31.2	98	
	147	7341691		CDCT147-14.5	14	31.2	102	
181	181	7341701		CDCT147-16.5	16	31.2	104	..HCT 181
	181	7341712		CDCT181-10.5 P27	10	35.2	101	
	181	7341714		CDCT181-12.5	12	35.2	111	
	181	7341721		CDCT181-14.5	14	35.2	111	
	181	7341735		CDCT181-16.5	16	35.2	111	



Cable section (mm<sup>2</sup>)



Packing



Stud site



Type of dies

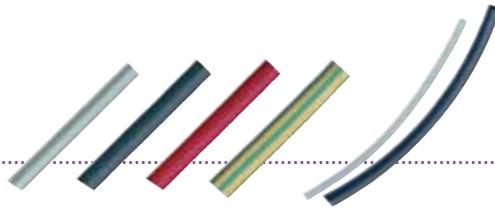
Unless indicated otherwise,  
all dimensions are in millimeters.



# Insulation products

42

Heat-shrink tubing



47

Hot air gun





# Selection Guide

## Heat-shrink tubing

### Range

Ranges	Shrinking ratio	Type of wall
GT100	2/1	Thin
GT300	3/1	Thin
GTM*	3/1	Medium with adhesive
GTE*	3/1	Thick with adhesive

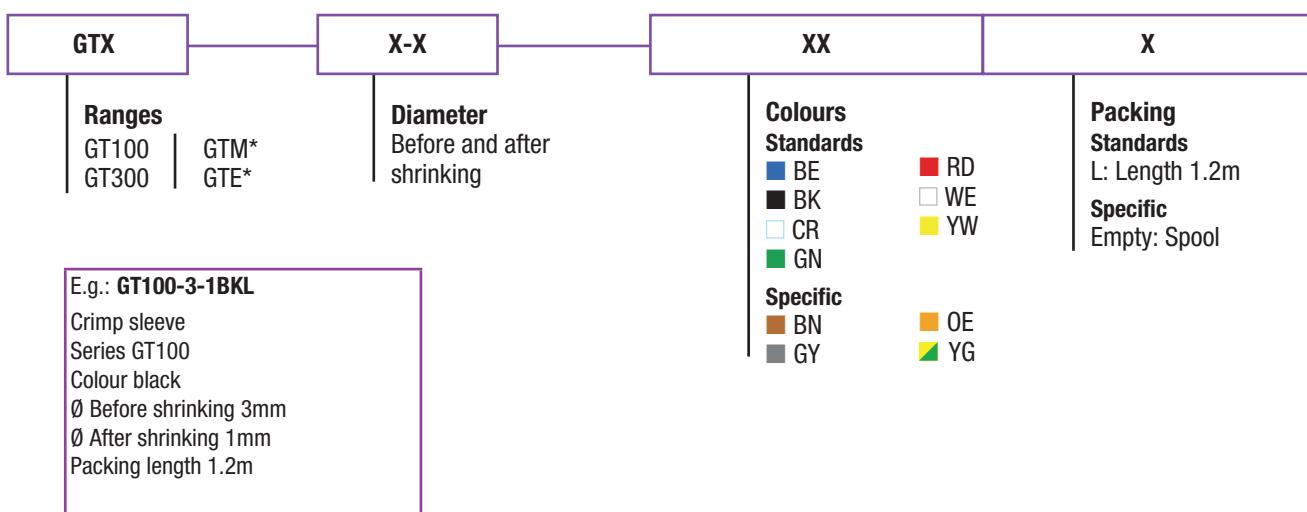
### Characteristics

Description	Operating temperature °C	Shrinking ratio	Shrinking temperature °C	Wall with adhesive	Application
GT100	-55°C / +135°C	2/1	+100°C		General usage, identification of ground connections
GT300	-55°C / +135°C	3/1	+100°C		General usage, identification of ground connections
GTM*	-45°C / +110°C	3/1	+125°C	X	Protection of splices and ends of LV cables
GTE*	-45°C / +110°C	3/1	+125°C	X	Protection of splices and ends of LV cables with better insulation and mechanical resistance

### Colours

■ BE: Blue	■ BN: Brown	■ GN: Green	■ OE: Orange	□ WE: White	■ YW: Yellow
■ BK: Black	■ CR: Transparent	■ GY: Grey	■ RD: Red	■ YG: Yellow green	

### Part number build



\*The GTE and GTM are only available in black.

# Heat-shrink Polyolefin Tubing



## General features

### Description:

Polyolefin tubing with thin flame retardant wall, the GT100 series can be used in multiple applications (protection, identification and insulation).

Available in Reel on demand for a usage adapted to your needs.

- ✓ Shrink ratio: 2/1.
- ✓ Shrink temperature: 100°C.
- ✓ Continuous operating temperature: -55°C / +135°C.
- ✓ Standards: UL 224 125°C 600V VW1, RoHS.
- ✓ Tensile strength: 14 MPa.
- ✓ Elongation: 400%.
- ✓ Longitudinal shrinking: ± 5%.
- ✓ Dielectric strength: 20 kV/mm.
- ✓ Elongation after ageing test: 350%.
- ✓ Resistance after heat shock: 13 MPa.

**Series  
GT100**

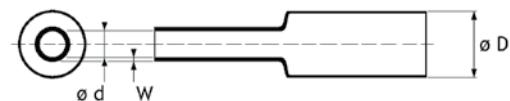
Compliant  
with  
**UL-CSA**

Compliant  
with  
**MIL**

Compliant  
with  
**VG**

Compliant  
with  
**DEF. STAN.  
59/57**

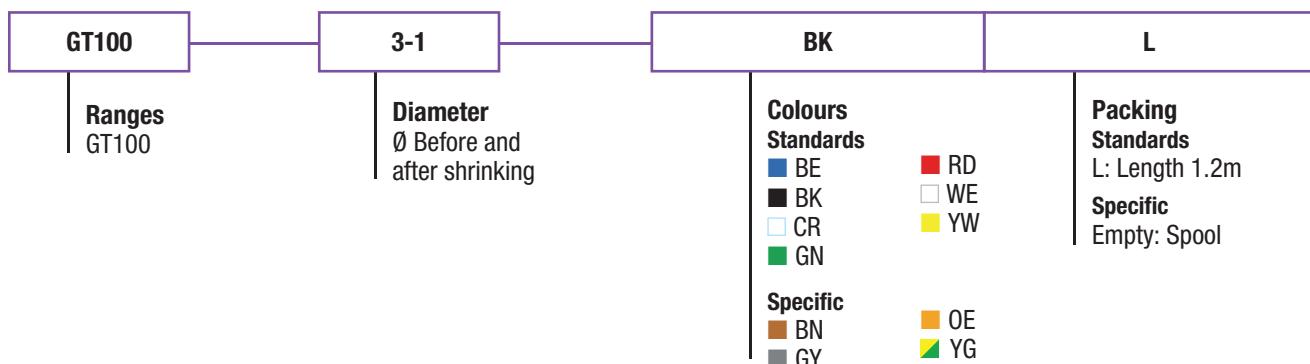
Approval  
**VDE**



Item code	Diameter before shrinking (D)		Diameter after shrinking (d)		Wall thickness (W)	Packing	
	(mm)	(inch)	(mm)	(inch)		Length 1.2m	Reel m
GT100-1.2-0.6XX	1.2	3/64"	0.6	1/32"	0.40	10 pcs	200 m
GT100-1.6-0.8XX	1.6	1/16"	0.8	1/32"	0.43	10 pcs	200 m
GT100-2-1XX	2.4	3/32"	1.2	3/64"	0.51	10 pcs	200 m
GT100-3-1XX	3.2	1/8"	1.6	1/16"	0.51	10 pcs	200 m
GT100-4-2XX	4.8	3/16"	2.4	3/32"	0.51	10 pcs	100 m
GT100-6-3XX	6.4	1/4"	3.2	1/8"	0.64	10 pcs	100 m
GT100-9-4XX	9.5	3/8"	4.8	3/16"	0.64	10 pcs	100 m
GT100-12-6XX	12.7	1/2"	6.4	1/4"	0.64	10 pcs	100 m
GT100-16-8XX	15.9	6 17/64"	8.0	5/16"	0.67	10 pcs	100 m
GT100-19-9XX	19.0	3/4"	9.5	3/8"	0.76	10 pcs	100 m
GT100-25-12XX	25.4	1"	12.7	1/2"	0.89	10 pcs	50 m
GT100-32-16XX	32.0	1 17/64"	16.0	5/8"	1.02	10 pcs	50 m
GT100-38-19XX	38.0	1 1/2"	19.0	3/4"	1.02	10 pcs	50 m
GT100-50-25XX	50.8	2"	25.4	1"	1.14	5 pcs	25 m
GT100-76-38XX	76.20	3"	38.1	1 1/2"	1.27	5 pcs	25 m
GT100-101-50XX	101.6	4"	50.8	2"	1.40	5 pcs	25 m

Replace "XX" with the colour code and the package

## Part number build



Unless indicated otherwise,  
all dimensions are in millimeters.



# Polyolefin heat-shrink tubing

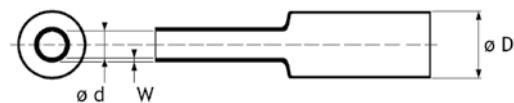
## General features

### Description:

Polyolefin heat-shrink tubing with thin flame retardant wall, the series GT300 can be used in multiple general applications (profile coating, irregular components, identification and insulation of cables and wires). Spool packing available on request for a usage adapted to your needs.

- ✓ Shrinking ratio: 3/1.
- ✓ Shrinking temperature: 100°C.
- ✓ Operating temperature: -55°C / +135°C.
- ✓ Norms: UL 224 125°C 600V VW1, RoHS.
- ✓ Tensile strength: 14 MPa.
- ✓ Elongation: 800%.
- ✓ Longitudinal shrinking: ± 5%.
- ✓ Dielectric strength: 20 kV/mm.
- ✓ Elongation after ageing test: 350%.
- ✓ Resistance after heat shock: 14 MPa.

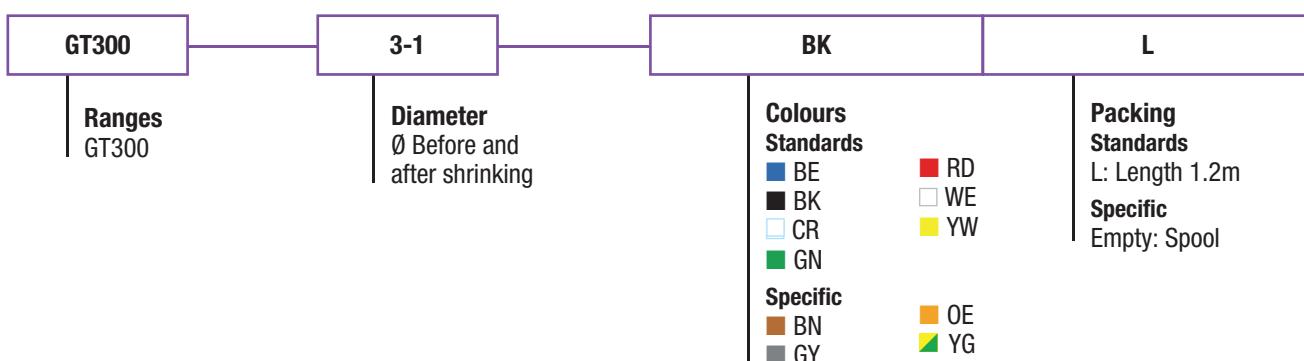
Series  
GT300



Item code	Diameter before shrinking (D)		Diameter after shrinking (d)		Wall thickness (W)	Packing	
	(mm)	(inch)	(mm)	(inch)		Length 1.2m	Reel m
GT300-1.5-0.5XX	1.5	1/16"	0.5	1/64"	0.45	10 pcs	200 m
GT300-3-1XX	3.0	1/8"	1.0	3/64"	0.55	10 pcs	200 m
GT300-4-1XX	4.8	1 57/64"	1.6	5/8"	0.60	10 pcs	200 m
GT300-6-2XX	6.0	15/64"	2.0	5/64"	0.6	10 pcs	100 m
GT300-9-3XX	9.0	23/64"	3.0	1/8"	0.75	10 pcs	100 m
GT300-12-4XX	12.0	15/32"	4.0	5/32"	0.8	10 pcs	100 m
GT300-18-6XX	18.0	45/64"	6.0	15/64"	0.9	10 pcs	100 m
GT300-24-8XX	24.0	15/16"	8.0	5/16"	1.2	10 pcs	50 m
GT300-39-13XX	39.0	1 17/32"	13.0	33/64"	1.25	10 pcs	50 m

Replace "XX" with the colour code and the package

## Part number build



Unless indicated otherwise,  
all dimensions are in millimeters.



# Polyolefin heat-shrink tubing with adhesive with medium wall,

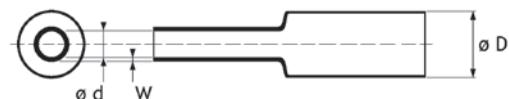
for protection of splices and LV cable endings and Telecom applications

## General features

**Description:** Polyolefin reticulated heat-shrink tubing with medium wall and adhesive, the series GTM can be used in LV applications (protection of splices, cable endings). Available only in packing length 1.2m.

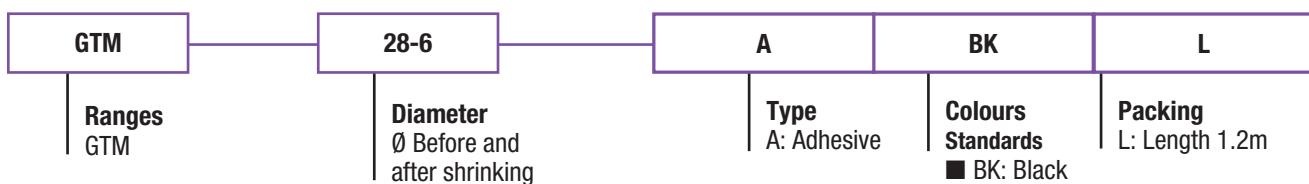
- ✓ Shrinking ratio: 3/1.
- ✓ Shrinking temperature: 125°C.
- ✓ Operating temperature: -45°C / +110°C.
- ✓ Norms: UL 224 125°C 600V VW1, RoHS.
- ✓ Tensile strength: ≥ 12 MPa.
- ✓ Elongation: ≥ 300%.
- ✓ Longitudinal shrinking: ± 10%.
- ✓ Dielectric strength: ≥ 20 kV/mm.
- ✓ Elongation after ageing test: ≥ 200%.
- ✓ Resistance after heat shock: ≥ 8.4 MPa.

Series  
**GTM**



Item code	Diameter before shrinking (D)		Diameter after shrinking (d)		Wall thickness (W)	Packing
	(mm)	(inch)	(mm)	(inch)		
GTM-10-3ABKL	10.2	13/32"	3.0	1/8"	0.50	Length of spool 1.2m
GTM-19-5ABKL	19.1	3/4"	5.6	7/32"	0.60	5 pcs
GTM-28-6ABKL	28.0	1 7/64"	6.0	15/64"	0.95	5 pcs
GTM-33-8ABKL	33.0	1 19/64"	8.0	5/16"	0.80	5 pcs
GTM-38-12ABKL	38.1	1 1/2"	12.0	15/32"	0.80	5 pcs
GTM-43-12ABKL	43.2	1 45/64"	12.7	1/2"	0.80	5 pcs
GTM-56-16ABKL	56.0	2 13/64"	16.0	5/8"	0.80	5 pcs
GTM-75-22ABKL	75.0	2 61/64"	22.0	55/64"	0.80	5 pcs

## Part number build



Unless indicated otherwise,  
all dimensions are in millimeters.



# Polyolefin heat-shrink tubing with adhesive with thick wall, for protection of splices and LV cable endings and Telecom applications

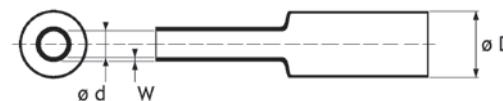
Series  
GTE

## General features

### Description:

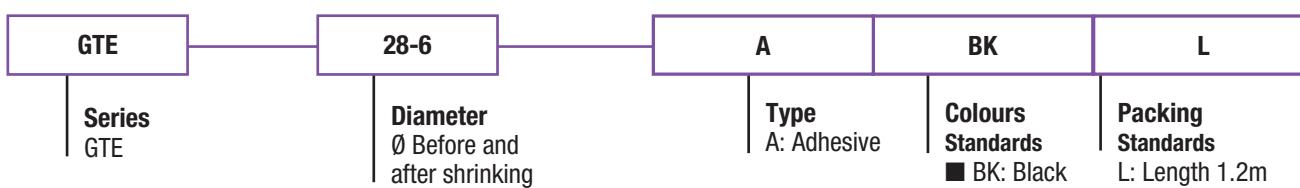
Polyolefin reticulated heat-shrink tubing with medium wall and adhesive, the series GTE can be used in LV applications (protection of splices, cable endings). Available only in packing length 1.2m.

- ✓ Shrinking ratio: 3/1.
- ✓ Shrinking temperature: 125°C.
- ✓ Operating temperature: -45°C / +110°C.
- ✓ Norms: UL 224 125°C 600V VW1, RoHS.
- ✓ Tensile strength: 15 MPa.
- ✓ Elongation: 450%.
- ✓ Longitudinal shrinking: ± 10%.
- ✓ Dielectric strength: 20 kV/mm.
- ✓ Elongation after ageing test: 350%.
- ✓ Resistance after heat shock: 12.5 MPa.



Item code	Diameter before shrinking (D)		Diameter after shrinking (d)		Wall thickness (W)	Packing
	(mm)	(inch)	(mm)	(inch)		
GTE-9-3ABKL	9.0	23/64"	3.0	1/8"	0.55	5 pcs
GTE-13-4ABKL	13.0	33/64"	4.0	5/32"	0.55	5 pcs
GTE-22-6ABKL	22.0	55/64"	6.0	15/64"	0.60	5 pcs
GTE-28-6ABKL	28.0	1 7/64"	6.0	15/64"	0.70	5 pcs
GTE-38-12ABKL	38.1	1 1/2"	12.0	15/32"	0.80	5 pcs
GTE-55-16ABKL	55.0	2 11/64"	16.0	5/8"	0.80	5 pcs
GTE-75-22ABKL	75.0	2 61/64"	22.0	55/64"	0.80	5 pcs
GTE-95-30ABKL	95.0	3 47/64"	30.0	1 3/16"	0.80	5 pcs
GTE-120-40ABKL	120.0	4 23/32"	40.0	1 37/64"	0.80	5 pcs

## Part number build



Unless indicated otherwise,  
all dimensions are in millimeters.



## General features

- ✓ Dimensions (L x P x H): 253 x 86.5 x 200 mm.
- ✓ Power supply: 220-230 V, 50/60 Hz.
- ✓ Power: 2000 W.
- ✓ Temperature: 80 – 600 °C, variable.
- ✓ Airflow: 150 / 150-300 / 300-500 l/min.
- ✓ Level: 3 airflow levels.
- ✓ Advantages: Fitting, optimised gravity centre, hand operated.
- ✓ New accessories: HL Scan and particle filter.
- ✓ Length of the chord: 2.20m.
- ✓ Motor: Brushed motor.
- ✓ Life cycle of the motor: 600 h.
- ✓ Heating element: Ceramic.

**HL1920E**



**Item code** 7469913

**Part no.**

**HL1920E**

## Accessories

- ✓ Surface nozzle (50mm)

**Item code** 7469902

**Part no.**

**BS701**



*BS 701*

- ✓ Surface nozzle (75mm)

**Item code** 7469903

**Part no.**

**BS702**



- ✓ Reflector nozzle (30mm)

**Item code** 7469904

**Part no.**

**BR705**



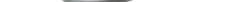
*BR 705*

- ✓ Large Reflector nozzle (75mm)

**Item code** 7469905

**Part no.**

**BR730**

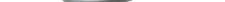


- ✓ Reduction nozzle (Ø 14mm)

**Item code** 7469907

**Part no.**

**BR14**



*BR 14*

Unless indicated otherwise,  
all dimensions are in millimeters.

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MANUFACTURED IN FRANCE



## INDUSTRIAL CONNECTIONS



## GROUNDING AND MECHANICAL CLAMPING



## TOOLS



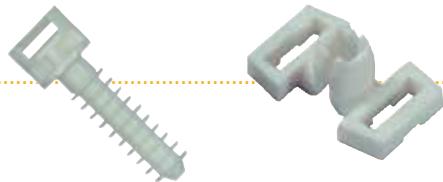
**MTR**  
MECATRACTION  
SICAME GROUP

# Cable ties and accessories

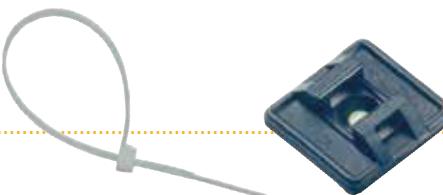
50 Removable notched cable ties .....



51 Fixing accessories .....



52 Cable ties and cabling accessories .....



54 Stainless steel cable ties .....



55 Installation tools .....





# Removable Notched Cable Ties

## General features

### CCD9-A series

- ✓ Material: white polyamide (internal usage).
- ✓ Halogen free.
- ✓ Melting temperature: 250°C.
- ✓ Flammability rating: **UL 94 VO**.
- ✓ Limit oxygen index (LOI): 31%.
- ✓ Temperature:
  - operating: -40°C to +110°C.
  - assembling: -10°C to +50°C.



No. 3.2-3.4.10  
Small material list  
ECEMA040711



Item code	100 / Box	Part no.	Max. bundle Ø (mm)	Length (mm)	Width (mm)
7110121		CCD9-42A	10 - 42	187	9
7110131		CCD9-62A	20 - 62	251	9
7110141		CCD9-92A	20 - 92	344	9

## General features

### CCD9 series

- ✓ Material: black polyamide 6/12.
- ✓ Halogen free.
- ✓ Melting temperature: 180°C.
- ✓ Flammability rating: UL 94 HB.
- ✓ Limit oxygen index (LOI): 22.5%.
- ✓ Temperature:
  - operating: -45°C to +80°C.
  - assembling: -30°C to +60°C.
- ✓ Regain of humidity: ~1%.
- ✓ Resistance to ultraviolet and ozone.
- ✓ Non resistant to chlorinated solvents.



No. 3.2-3.4.10  
Small material list  
ECEMA040711



Item code	100 / Box	Part no.	Max. bundle Ø (mm)	Length (mm)	Width (mm)
7100031		CCD9-42	10 - 42	187	9
7100041		CCD9-62	20 - 62	251	9
7100051		CCD9-92	20 - 92	344	9



Packing

Unless indicated otherwise,  
all dimensions are in millimetres.

# Fixing Accessories for Installation Cable Ties



## General features

### Material:

- ✓ Black Polyamide 6/12.
- ✓ White Polyamide (internal use).
- ✓ EM7P: polyamide 6.



No. 3.2-3.4.10  
Small material list  
ECEMA040711

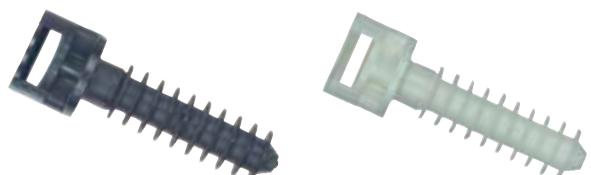
## Screw-fitted supports on 7 x 150 threading for 9mm width cable ties

Item code	Part no.		Item code	Part no.	
Black			White		
7100101	EM7	100	7110231	EM7A	100
7100102	EM7P	100			



## Cable ties supports Ø 8 mm with spacing to wall 12 mm

Item code	Part no.		Item code	Part no.	
Black			White		
7100111	CHEM8	100	7110221	CHEM8A	100



## Cable ties supports Ø 8 mm with spacing to wall 6 mm (polyamide 6)

Item code	Part no.	
Black		
7100113	CH8P	100



## Housings for 9mm width cable ties

Item code	Part no.		Item code	Part no.	
Black			White		
7100141	P9	100	7110262	P9A	100



## Sheet type fixing's for 5/10 to 10/10 sheet with 7mm Ø hole

Item code	Part no.		Item code	Part no.	
Black			White		
7100131	VT7	100	7110251	VT7A	100



## Bolts for EDF cable ways with cross perforation (10mm width)

Item code	Part no.		Item code	Part no.	
Black			White		
710021	VERROUEDF	100	7110241	VERROUEDFA	100



Packing

Unless indicated otherwise,  
all dimensions are in millimetres.

# Cable Ties

## (CCE type CCB old series)

### General features

- ✓ Material: polyamide 6.6.
- ✓ Halogen free.
- ✓ Melting temperature: 255°C.
- ✓ Flammability rating: UL 94 V2.
- ✓ Limit oxygen limit (LOI): 27%.
- ✓ Temperature:
  - operating: -40°C to +80°C.
  - assembling: -10°C to +60°C.
- ✓ Regain of humidity (24 hours): 1.3%.
- ✓ Limited resistance to acids.
- ✓ Non resistant to phenols.



White for internal use



Black

**EDF  
SEPTEN**

No. 3.2-3.4.10  
Small material list  
ECEMA040711

**Series  
CCE...A**

**Series  
CCE...**

Compliant  
to  
**MIL-S-  
23190E**



Black		White		100 / Packet	Length (mm)	Width (mm)	Max. bundle Ø (mm)	Tensile strength (daN)
Item code	Part no.	Item code	Part no.					
7133000	CCE80-2.5	7133030	CCE80-2.5A		80	2.5	14	8.1
7133001	CCE100-2.5	7133031	CCE100-2.5A		100	2.5	20	8.1
7133002	CCE160-2.5	7133032	CCE160-2.5A		160	2.5	36	8.1
7133005	CCE200-2.5	7133035	CCE200-2.5A		200	2.5	50	8.1
7133003	CCE140-3.6	7133033	CCE140-3.6A		140	3.6	30	18.2
7133007	CCE200-3.6	7133037	CCE200-3.6A		200	3.6	50	18.2
7133010	CCE295-3.6	7133040	CCE295-3.6A		295	3.6	75	18.2
7133004	CCE200-4.8	7133034	CCE200-4.8A		200	4.8	50	22.2
7133009	CCE295-4.8	7133039	CCE295-4.8A		295	4.8	75	22.2
7133011	CCE370-4.8	7133041	CCE370-4.8A		370	4.8	100	22.2
7133013	CCE430-4.8	7133043	CCE430-4.8A		430	4.8	115	22.2
7133006	CCE200-7.6	7133036	CCE200-7.6A		200	7.6	50	54.5
7133008	CCE290-7.6	7133038	CCE290-7.6A		290	7.6	80	54.5
7133012	CCE370-7.6	7133042	CCE370-7.6A		370	7.6	105	54.5
7133015	CCE550-9	7133045	CCE550-9A		550	9	140	79.4
7133016	CCE762-9	7133046	CCE762-9A		762	9	190	79.4
7133014	CCE550-12.7	7133044	CCE550-12.7A		550	12.7	140	113.5
7133017	CCE762-12.7	7133047	CCE762-12.7A		762	12.7	190	113.5



Packing

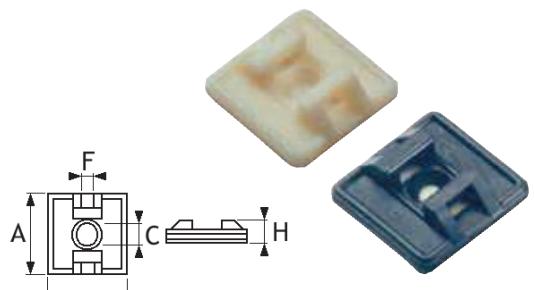
Unless indicated otherwise,  
all dimensions are in millimetres.

## General features

- ✓ Cable tie bases (CCE type), self-adhesive or screw, white or black polyamide 6.6.

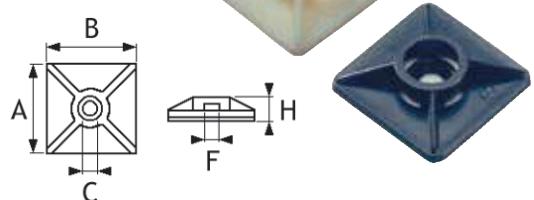
## Single way self-adhesive supports

100 /Box		100/Packet		Width of cable ties	A	B	C	F	H
Item code	Part no.	Item code	Part no.						
White		Black							
7132261	EAU36A	7132281	EAU36	3.6	19	19	4.6	3.8	5
7132301	EAU48A	7132321	EAU48	4.8	25	25	4.6	5.8	7



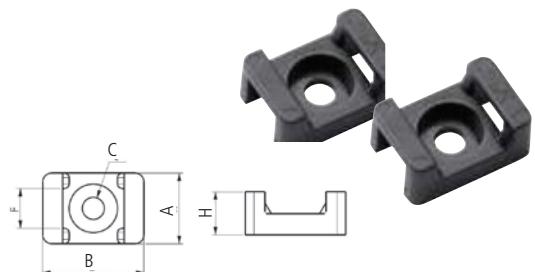
## Two way self-adhesive supports

100 /Box		100/Packet		Width of cable ties	A	B	C	F	H
Item code	Part no.	Item code	Part no.						
White		Black							
7132421	EAB36A	7132441	EAB36	3.6	19	19	4.6	3.8	6
7132461	EAB48A	7132481	EAB48	4.8	25	25	4.6	5.8	7



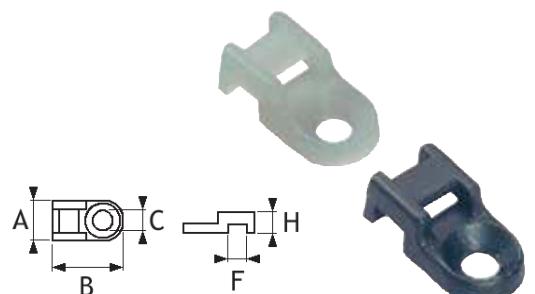
## Cradles

100 /Box		100/Packet		Width of cable ties	A	B	C	F	H
Item code	Part no.	Item code	Part no.						
White		Black							
7132581	EF9A	7132601	EF9	9	15	23	5	9	9



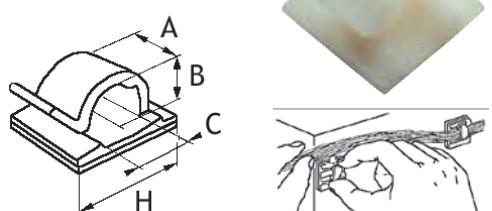
## Eyelets

100 /Box		100/Packet		Width of cable ties	A	B	C	F	H
Item code	Part no.	Item code	Part no.						
White		Black							
7132661	EFD4A	7132681	EFD4	4.8	9.5	19.1	4.3	5	5



## Self-adhesive with cable mounts

100/Packet		A	B	C	H
Item code	Part no.				
7132701	FC4	11	4.5	5	16
7132721	FC11	12.5	7.5	11	25
7132741	FC18	14	14.5	18	28



Packing

Unless indicated otherwise,  
all dimensions are in millimetres.



# Stainless Steel Cable Ties

## General features

- ✓ Material: stainless steel 316.
- ✓ High resistance to corrosion.
- ✓ Inside or outside use in marine atmospheres and environments. Resists the effects of chemical products.
- ✓ High resistance to temperature: 80°C to + 538°C.
- ✓ Ball mechanism allows:
  - self-locking.
  - light insertion effort.
  - high resistance to snatching.
  - simple and quick assembly.

## Applications

- ✓ Nuclear.
- ✓ Ship building.
- ✓ Aeronautics.
- ✓ Petrochemistry.
- ✓ Offshore.
- ✓ Telecommunications.
- ✓ Food industry.



Item code	Part no.		Length (mm)	Width (mm)	Max. bundle Ø (mm)	Min. tensile strength (daN)
7135000	STB152S	100	152	4.5	25	45.3
7135001	STB200S		200		50	
7135002	STB360S		360		102	
7135003	STB520S		520		152	
7135004	STB680S		680		203	
7135005	STB840S		840		254	
7135006	STB1050S		1 050		318	
7135007	STB152M	50	152	8	25	113.3
7135008	STB200M		200		50	
7135009	STB360M		360		102	
7135010	STB520M		520		152	
7135011	STB680M		680		203	
7135012	STB840M		840		254	
7135013	STB1050M		1 050		318	



Packing

Unless indicated otherwise,  
all dimensions are in millimetres.

## Hand tool for cable ties

- ✓ Bundle capacity:
  - for cable ties from 2.2 to 4.8mm of width.
- ✓ For cable ties from 2.2 to 2.5 mm width: position 1.
- ✓ For cable ties 3.6 mm width: position 2.
- ✓ For cable ties 4.8 mm width: position 3.
- ✓ Fixing and automatic cutting of cable ties.
- ✓ Metal body and handle.
- ✓ Weight: 350 gr.



Item code

7500301

Part no.

5401

## Hand tool for installation cable ties

- ✓ Bundle capacity:
  - for plastic cable ties from 6 to 9 mm of width.
- ✓ Pressed steel body.
- ✓ Weight: 370 gr.



Item code

7500311

Part no.

SERCOL

## Hand tool for stainless steel cable ties

- ✓ Allows fixing and cutting of stainless steel cable ties from 4.5 to 12 mm width.



Item code

7500312

Part no.

STG200



Packing

Unless indicated otherwise,  
all dimensions are in millimetres.



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# Tools

## Crimping, Punching, Miscellaneous

- 58 Tools for pre-insulated terminals .....
- 
- 60 Tooling for end sleeves .....
- 
- 62 Tooling for copper or aluminium tubular lugs, butt connectors and pins .....
- 
- 90 Cable cutters, stripping tools, punches .....
- 



# Hand Crimping Tools

for preinsulated terminals

## Hand crimping tool for preinsulated disconnects

- ✓ Crimping of yellow preinsulated disconnects from 0.1 to 0.4 mm<sup>2</sup>.
- ✓ Max. insulating diameter: 2.1 mm.
- ✓ Length: 290 mm.
- ✓ Weight: 0.490 kg.

*Delivered in individual box with control and instruction leaflet.*

### Complementary accessory:

- ✓ Go no go gauge.
- Item code: 7500802 / Reference: PG11**



0.1 to 0.4 mm<sup>2</sup>



Adjustable crimping of cable insulation by eccentric



0.34 to 1.5 mm<sup>2</sup>

## Hand crimping tool for preinsulated products

- ✓ Crimping of red preinsulated products from 0.34 to 1.5 mm<sup>2</sup>.
- ✓ Length: 290 mm.
- ✓ Weight: 0.500 kg.

*Delivered in individual box with control and instruction leaflet.*

### Additional equipment:

- ✓ Stop for 2.8mm disconnects.  
**Item code: 7502073 / Reference: HD28**
- ✓ Stop for sleeves with inspection hole.  
**Item code: 7502084 / Reference: HF21**
- ✓ Go-no go gauge.  
**Item code: 7500801 / Reference: PG1**

Item code

7500501

Part no.

TH1



Adjustable crimping of cable insulation by eccentric

## Hand crimping tool for preinsulated products



1 to 2.5 mm<sup>2</sup>

- ✓ Crimping of blue preinsulated products from 1 to 2.5 mm<sup>2</sup>.
- ✓ Length: 290 mm.
- ✓ Weight: 0.500 kg.

*Delivered in individual box with control and instruction leaflet.*

### Additional equipment:

- ✓ Stop for sleeves with inspection hole.  
**Item code: 7502084 / Reference: HF21**
- ✓ Go-no go gauge.  
**Item code: 7500831 / Reference: PG2**

Item code

7500502

Part no.

TH2



Adjustable crimping of cable insulation by eccentric

# Hand Crimping Tools

## for preinsulated terminals



### Hand crimping tool for preinsulated products



2.6 to 6 mm<sup>2</sup>

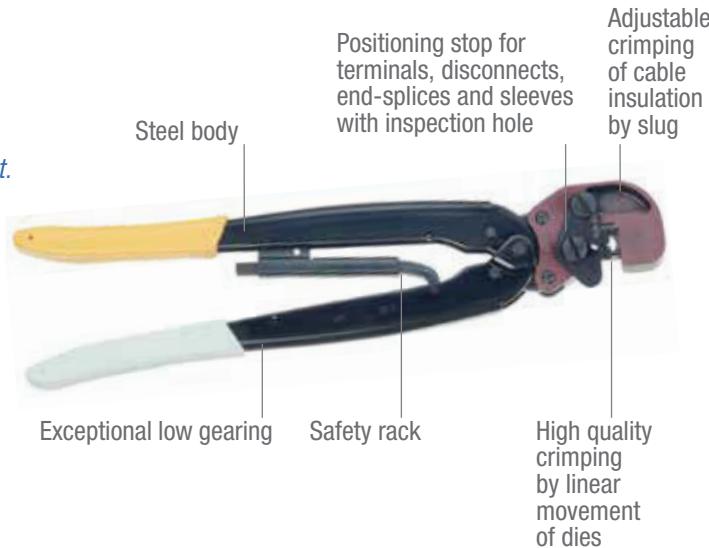
- ✓ Crimping of yellow preinsulated products from 2.6 to 6 mm<sup>2</sup>.
- ✓ Max. insulating diameter: 6.8 mm.
- ✓ Length: 330 mm.
- ✓ Weight: 0.900 kg.
- ✓ Colour of the handles: 1 yellow and 1 white.

*Delivered in individual box with control and instruction leaflet.*

#### Complementary accessory:

- ✓ Go-no go gauge.

*Item code: 7500862 / Reference: PGH3*



Item  
code

7500507

Part  
no.

TH3



# Hand Crimping Tools

for End Sleeves

## Hand crimping tool for end sleeves

- ✓ Crimping of end sleeves from 0.5 to 6 mm<sup>2</sup>.
- ✓ High quality tool enabling a crimping in compliance with the requirements of NF C 63-023 and DIN 46228 standards.
- ✓ Length: 200 mm.
- ✓ Weight: 0.350 kg.

Item code

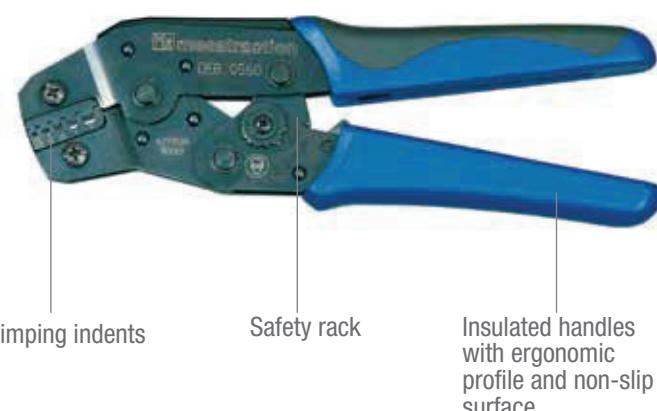
7500075

Part no.

DEB0560



0.5 to 6 mm<sup>2</sup>



## Hand crimping tool for end sleeves

- ✓ Crimping of end sleeves from 10, 16 and 25 mm<sup>2</sup>.
- ✓ High quality tool enabling a crimping in compliance with the requirements of NF C 63-023 and DIN 46228 standards.
- ✓ Length: 230 mm.
- ✓ Weight: 0.540 kg.

Item code

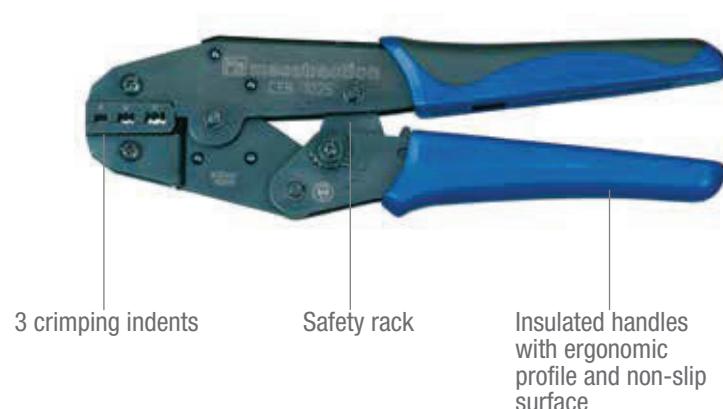
7500078

Part no.

CEB1025



10, 16 and 25 mm<sup>2</sup>



## Hand crimping tool for end sleeves

- ✓ Crimping of end sleeves from 35 and 50 mm<sup>2</sup>.
- ✓ High quality tool enabling a crimping in compliance with the requirements of NF C 63-023 and DIN 46228 standards.
- ✓ Length: 230 mm.
- ✓ Weight: 0.540 kg.

Item code

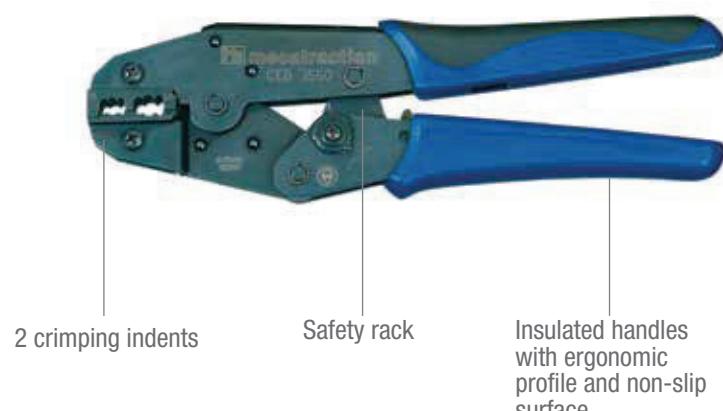
7500079

Part no.

CEB3550



35 and 50 mm<sup>2</sup>



# Hand Crimping Tools for End Sleeves



## Hand crimping tool for end sleeves



0.08 to 16 mm<sup>2</sup>

- ✓ Crimping of end sleeves from 0.08 to 16 mm<sup>2</sup>.
- ✓ Length: 180 mm.
- ✓ Weight: 0.380 kg.

Item code

7507115

Part no.

KEB16L



Square crimping



Side crimping

## Hand crimping tool for end sleeves



0.08 to 16 mm<sup>2</sup>

- ✓ Crimping of end sleeves from 0.08 to 16 mm<sup>2</sup>.
- ✓ Length: 190 mm.
- ✓ Weight: 0.475 kg.

Item code

7507114

Part no.

KEB16B



Square crimping



Front crimping



Side crimping



# Mechanical hand compression tool – 50 kN

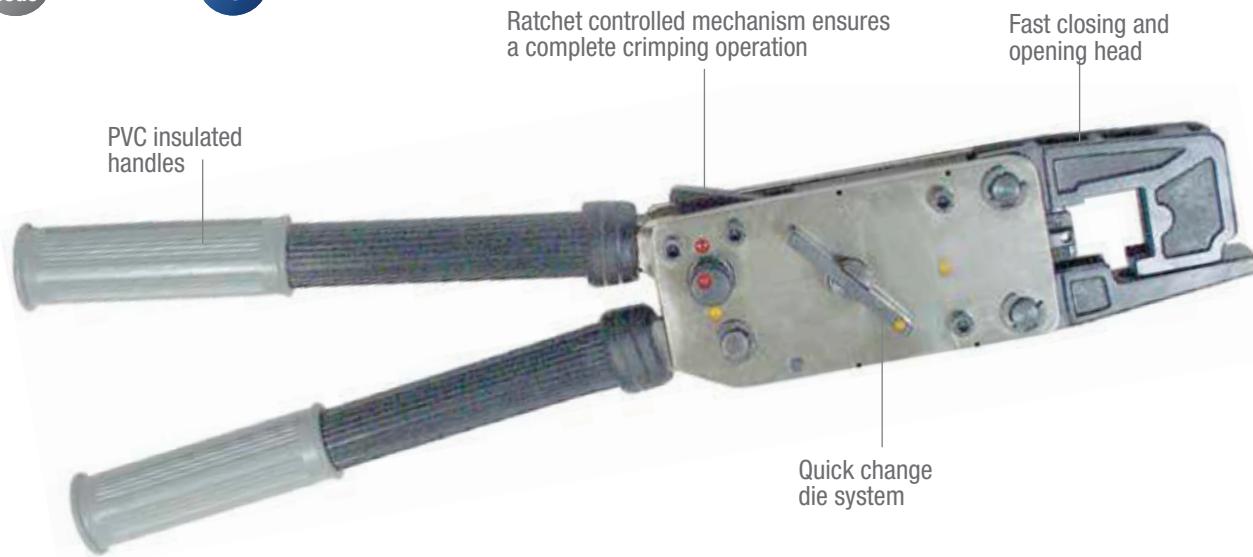
for Tubular Lugs, Connectors and Butt Connectors

## Mechanical hand compression tool MRD50

FORCE 50 kN

- ✓ Mechanical hand compression tool for a crimping with interchangeable single sided or reversible dies.
- ✓ Length: 420 mm.
- ✓ Weight: 2 kg.

Item code 7504001 Part no. MRD50



### Additional equipment:

- ✓ Gauge.
- ✓ Box.

Item code 7504003 Part no. PGM1

Item code 7504002 Part no. CMMRD50

### Dies and crimping capacity:

Part no. D5HCU... D5MR	Copper tubular lugs and sleeves Section mm <sup>2</sup> 4 to 120	"C" type connectors Section mm <sup>2</sup> C6 to C35	Aluminium/copper Cable rounding Section mm <sup>2</sup> - 25 to 150
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# Hydraulic Hand Compression Tool – 50 kN

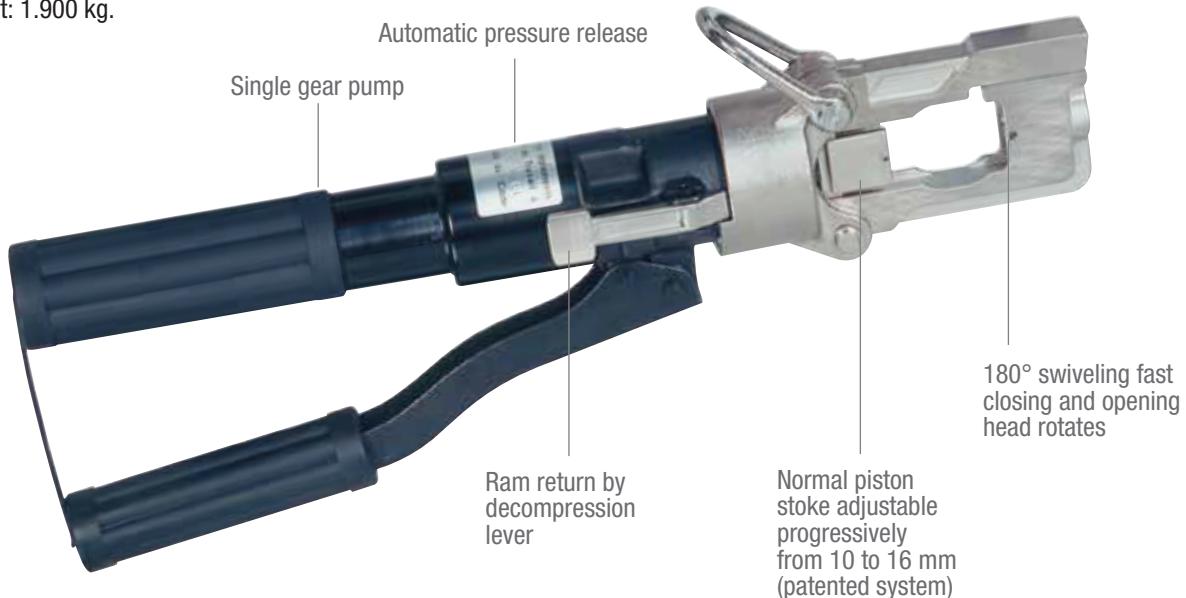
for Tubular Lugs, Splices and Connectors type C



## Hydraulic hand compression tool HVD51

FORCE 50 kN

- ✓ Mechanical hand compression tool for a crimping with interchangeable single sided or reversible dies.
- ✓ Length: 370 mm.
- ✓ Weight: 1.900 kg.



**Item code** 7512805

**Part no.**

HVD51

### Additional equipment:

- ✓ Inspection dynamometer.
- ✓ Box.

**Item code** 7512089

**Part no.**

DY50-65CM

**Item code** 7512806

**Part no.**

CPHVD51

### Dies and crimping capacity:

<b>Part no.</b>	Non-insulated tubular lugs and bolt connectors	“C” type connectors	Aluminium/copper cable rounding
Section mm <sup>2</sup>	4 to 150	Section mm <sup>2</sup>	Section mm <sup>2</sup>
D5HCU... D5MR	-	C6 to C35	- 25 to 150





# Cordless Electro-hydraulic Compression Tool – 50 kN

For Tubular Lugs, Butt Connectors and Connectors type C

## Electro-hydraulic compression tool EID51KCM

FORCE 50 kN

- ✓ "Stick" electro-hydraulic compression tool for an optimal ergonomics.
- ✓ Battery tool for a greater efficiency and in complete safety.
- ✓ Automatic piston return and engine stop when the crimping has been completed.
- ✓ Hand ram return in approach phase.
- ✓ Dimensions 400 x 125 x 82 mm.
- ✓ Weight with battery: 2.380 kg.

## BLUE EXPERT



Easy head opening



Nickel plated head rotates through 360°



Ergonomic handling thanks to the STICK shape and the bi-material cushion handle



Service indicator lights informing about the battery charge level and service control if necessary



Lithium-Ion 18 V – 1.5 Ah battery with built-in charge indicator light

Without memory effect, this battery is 30% lighter than more commonly used batteries.



Integrated electronics enabling to control the operating parameters with warning lights and USB interface



- ✓ Interchangeable simple or reversible compression dies
- ✓ Die ball locking system

# Cordless Electro-hydraulic Compression Tool – 50 kN

## For Tubular Lugs, Butt Connectors and Connectors type C



### EID50KCM electro-hydraulic compression tool kit

A USB interface allows a computer to trace the tool usage history (number of compressions, warranty date, curve of each compression ...) using dedicated software delivered with the tool. This technology is extremely useful for service and control purposes. Tool memory capacity 1Gb.

Item code

7512176

Part no.

EID51KCM

#### Kit composition:

- ✓ 1 EID 50 electro-hydraulic compression tool.
  - ✓ 1 Li-Ion battery 18 V 1.5 Ah.
  - ✓ 1 battery charger.
  - ✓ 1 metallic carry case with soft foam protective liner.
  - ✓ 1 CD-ROM software and USB cable connection.
  - ✓ User manual.
- ✓ Dimensions: 485 x 415 x 110 mm.  
✓ Weight: 7.750 kg.

### Additional equipment:

#### Li-Ion Batteries

- ✓ Lithium-Ion.
- ✓ 18 V – 1.5 Ah.
- ✓ Battery weight: 0.415 kg.

Item code

7512154

Part no.

BL1815I



#### Fast charger

- ✓ Charging time: 30 minutes.
- ✓ Charging current: 3 A.
- ✓ Mains voltage: 220/240 V (50-60 Hz).

Item code

7512153

Part no.

CH1830HC



#### Crimping capacities:

Part no.	Copper tubular lugs and sleeves	“C” type connectors	Aluminium/copper cable rounding
	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>
D5HCU...	4 to 150	C6 to C35	-
D5MR	-	-	25 to 150



# Cordless Electro-hydraulic Compression Tool – 50 kN

for Tubular Lugs, Splices and Connectors type C

## Electro-hydraulic compression tool ESD50

FORCE 50 kN

- ✓ Output force: 50 kN.
- ✓ Stroke: 13 mm.
- ✓ Autonomy: 200 to 500 crimping operations with battery 4.0 Ah.
- ✓ Cycle time: 2 to 4 depending on the section.
- ✓ Dimensions: 350 x 310 x 72 mm.
- ✓ Weight: 4.0 kg (including the battery).

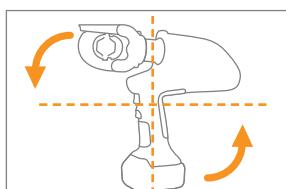
### New features:

- ✓ Electronic control of the cycle.
- ✓ Return programming according to the user, either automatic or manual.
- ✓ Manageable or manual return stroke.
- ✓ Automatic stop at the end of the cycle.
- ✓ 2- stage hydraulic pump with pilot-operated valve which increases efficiency between 20 and 40%.
- ✓ Return sound signal.
- ✓ New PC software for diagnosis and analysis of data.



BLUE EXPERT 2

## POWER TOOL 2



Optimum ergonomics thanks to the balance of the tool. Can be used by right or left-handed people.



Comfortable and accurate handling thanks to the shape and all materials used in the handle.



Electronic controlled function parameters, warning lights and USB interface.



Service indicator lights informing about the battery charge level and service control if necessary.



180° swiveling nickel-plated head.



Easy head opening.



With this software, it is possible to configure the tool, record the crimping data and analyse the cycles already done.



Lithium-Ion 18V battery with increased life expectancy and without any memory effect.



# Cordless Electro -hydraulic Compression Tool – 50 kN

## for Tubular Lugs, Splices and Connectors type C

### ESD50 electro-hydraulic compression tool kit

#### Kit composition

- ✓ Crimping tool.
  - ✓ 2 batteries 18 V / 4 Ah.
  - ✓ Charger 220 V.
  - ✓ Metallic carry case
  - (Space for 12 sets D5 + 7 sets D5MR).
- PN : ESD50  
PN : BL1840B  
PN : CLM1890HC  
PN : CMESD50

Item code

7519425

Part no.

ESD50K1BLCM

### Dies



### Additional equipment for ESD50:

#### Fast charger

Charger with display which identifies the state of the battery and the conditions of load.

- ✓ Charging time: 36 min.
- ✓ Weight: 0.85 kg.
- ✓ Voltage: 220 V CA.
- ✓ Plug: Standard EU (others on request).



Item code

7519430

Part no.

CLM1890HC

#### Metallic carry case

- ✓ Ideal for transport and storage.
- ✓ Adapted to each model.

Item code

7519431

Part no.

CMESD50



#### Battery

Li-Ion technology without memory effect.

- ✓ Voltage: 18 V.
- ✓ Capacity: 4.0 Ah.
- ✓ Weight: 0.64 kg.



Item code

7519576

Part no.

BL1840B

#### Dies and crimping capacity

Part no.	Copper tubular lugs and sleeves	“C” type connectors	Aluminium/copper cable rounding
	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>
D5HCU...	4 to 150	C6 to C35	-
D5MR	-	-	25 to 150



# Crimping Dies

## for Compression Tools MRD50 – HVD51 – ESD50 – EID51

### Dies for tubular lugs and copper butt connectors

Dies	Series CT		
	mm <sup>2</sup>	Item code	Part no.
	4	7504132	D5HCU4-120
	6	7504111	D5HCU6-35
	10	7504121	D5HCU10-50
	16	7504101	D5HCU16-70
	25	7504131	D5HCU25-95
	35	7504111	D5HCU6-35
	50	7504121	D5HCU10-50
	70	7504101	D5HCU16-70
	95	7504131	D5HCU25-95
	120	7504132	D5HCU4-120
	150	7504133	D5HCU150*

### Dies for "C" tap-off connectors

Dies	Fittings	Series	
		Item code	Part no.
		C 6	7504101
		C 10	7504131
		C 16	7504101
		C 25-10	7504131
		C 25 PM	7504131
		C 25	7507250
		C 35	7507250

### Dies for Aluminium/Copper cable rounding

Dies	Series		
	mm <sup>2</sup>	Item code	Part no.
	25	7507698	D5MR25
	35	7507699	D5MR35
	50	7507700	D5MR50
	70	7507710	D5MR70
	95	7507720	D5MR95
	120	7507730	D5MR120
	150	7507740	D5MR150*

Note:

The values in yellow: side of the die to be used.

\*: cannot be used on the MRD50.



# Hand Mechanical and Hydraulic Tool – 100 kN

for Tubular lugs, Splices, aluminium and aluminium-copper lugs to punch and Connectors type C

## Mechanical hand tool MRD100

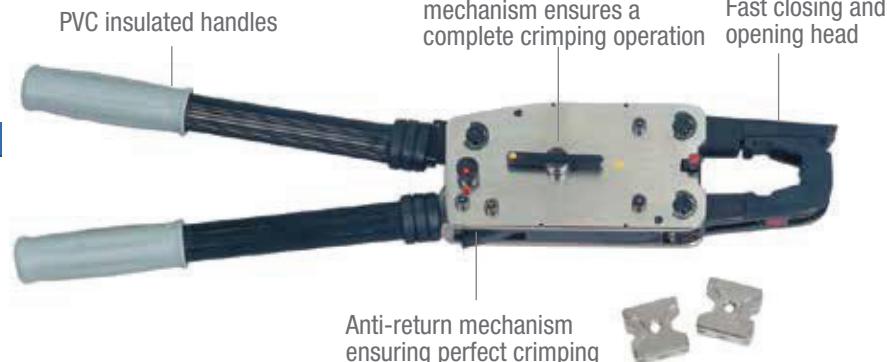
- ✓ Interchangeable simple or reversible compression dies.
- ✓ Length: 540 mm.
- ✓ Weight: 4.200 kg.

Item code

7504031

Part no.

MRD100



### Additional equipment:

- ✓ Box.

Item code

7504032

Part no.

CMMRD100



### Dies for copper tubular lugs and butt connectors

Dies		mm <sup>2</sup>	Item code	Part no.
	<b>6</b>	7504539	D10HCU6-10	
	<b>10</b>	7504539	D10HCU6-10	
	<b>16</b>	7504540	D10HCU16-25	
	<b>25</b>	7504540	D10HCU16-25	
	<b>35</b>	7504541	D10HCU35-95	
	<b>50</b>	7504581	D10HCU50-150	
	<b>70</b>	7504551	D10HCU70-120	
	<b>95</b>	7504541	D10HCU35-95	
	<b>120</b>	7504551	D10HCU70-120	
	<b>150</b>	7504581	D10HCU50-150	
	<b>185</b>	7507220	D10HCU185	
	<b>240</b>	7507230	D10HCU240	
	<b>300</b>	7507240	D10HCU300	

### Dies for "C" type connectors

Dies		mm <sup>2</sup>	Item code	Part no.
	<b>C 16</b>	7504551	D10HCU70-120	
	<b>C 25-10</b>	7504541	D10HCU35-95	
	<b>C 25 PM</b>	7504541	D10HCU35-95	
	<b>C 25</b>	7504581	D10HCU50-150	
	<b>C 35</b>	7504581	D10HCU50-150	
	<b>C 50</b>	7504581	D10HCU50-150	

### Dies and punches for aluminium and aluminium-copper connections in compliance with standard NFC33-090-1

Dies for terminals, end sleeves and "C" connectors			Dies for Aluminium butt connectors			Punches		
	mm <sup>2</sup>	Item code		Item code	Part no.		Item code	Part no.
	<b>16</b>	7504703	MC0EM3	7504704	MJ0EM3		7504801	0EM3
	<b>25</b>	7504703	MC0EM3	7504704	MJ0EM3		7504801	0EM3
	<b>35</b>	7504703	MC0EM3	7504704	MJ0EM3		7504801	0EM3
	<b>50</b>	7504723	MC1EM3	7504724	MJ1EM3		7504821	1EM3
	<b>70</b>	7504723	MC1EM3	7504724	MJ1EM3		7504821	1EM3
	<b>95</b>	7504723	MC1EM3	7504724	MJ1EM3		7504821	1EM3
	<b>120</b>	7504733	MC2EM3	7504734	MJ2EM3		7507870	2EM3
	<b>150</b>	7504733	MC2EM3	7504734	MJ2EM3		7507870	2EM3



# Hydraulic Hand Compression Tool – 120 kN

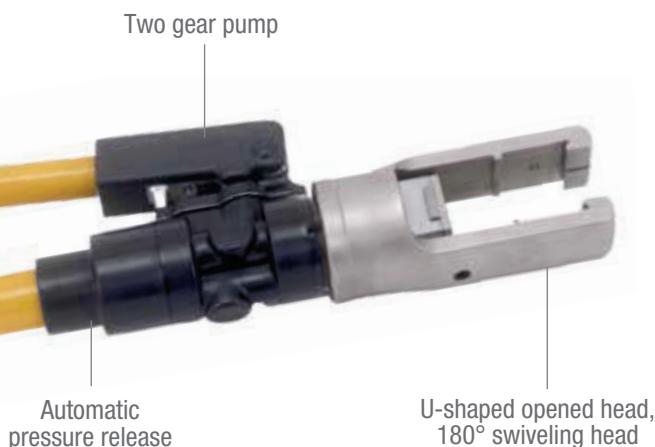
for Tubular Lugs, Aluminium-Copper Lugs, Splices and Connectors type C

## Hydraulic and compression tool HU137

**FORCE 120 kN**

- ✓ Hydraulic hand compression tool to crimp with dies type C12... or U13.
- ✓ Length: 690 mm.
- ✓ Weight: 6 kg.

Item code 7512006 Part no. HU137



### Additional equipment:

- ✓ Adapter for ½ shells dies type C12...:

Item code 7511998 Part no. U137C12

- ✓ Box on request.



Item code 7512005 Part no. CPHU135-137

## Crimping dies and capacity

Part no.	Copper tubular lugs and sleeves	“C” type connectors	Connectors for Al/Cu networks to be indented	Aluminium/copper cable rounding
	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>
C12HCU...	6 to 400	C6 to C70	-	-
C12CC...	-	C75 to C185-95	-	-
U13MC...	-	-	16 to 240	-
U13MJ...	-	-	16 to 240	-
C12MR...	-	-	-	50 to 240

# Connectable Hydraulic Hand Compression Tools – 120 kN

for Tubular Lugs and Connectors type C



## Hydraulic hand compression tool HC120

**FORCE 120 kN**

- ✓ Length: 690 mm.
- ✓ Weight: 6 kg.

Item code

7512010

Part no.

HC120



## Connectable hydraulic compression head SC120CM

**FORCE 120 kN**

Hydraulic compression head which can be connected to hydraulic pumps 700 bars: refer to pages 84 to 86.

- ✓ Length: 185 mm.
- ✓ Weight: 3.800 kg.

*Delivered in metal box.*

Item code

7510111

Part no.

SC120KCM

Item code

7510112

Part no.

SC120ECM

Item code

7510113

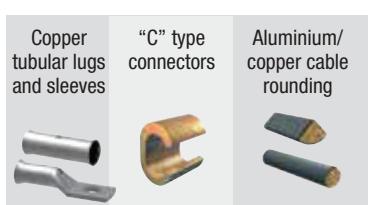
Part no.

SC120XCM



*Type of coupler: refer to page 88.*

## Crimping dies and capacity of hydraulic compression tools HC 120 and SC 120 CM



Part no.

HCU...	6 to 400	-	-
C12HCU...	-	C6 to C70	-
C12CC...	-	C75 to C185-95	-
C12MR	-	-	50 to 240

### Additional equipment:

- ✓ Box for hydraulic compression tool HC120 on request.

Item code

7512011

Part no.

CPHC120





# Cordless Electro-hydraulic Compression Tool – 120 kN

for Tubular Lugs and Connectors type C

## Electro-hydraulic compression tool ESC125

FORCE 120 kN

- ✓ Output force: 120 kN.
- ✓ Stroke: 25 mm.
- ✓ Autonomy: 110 to 220 crimping operations with battery 4.0 Ah.
- ✓ Cycle time: 5 to 8s depending on the section.
- ✓ Dimensions: 385 x 315 x 72 mm.
- ✓ Weight: 6.8 kg (including the battery).

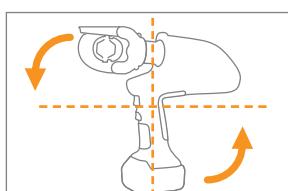
### New features:

- ✓ Electronic control of the cycle.
- ✓ Return programming according to the user, either automatic or manual.
- ✓ Automatic or manual return stroke.
- ✓ Automatic stop at the end of the cycle.
- ✓ 2-stage hydraulic pump with pilot-operated valve which increases efficiency between 20 and 40%.
- ✓ Return sound signal.
- ✓ New PC software for diagnosis and analysis of data.



BLUE EXPERT 2

## POWER TOOL 2



Optimum ergonomics thanks to the balance of the tool. Can be used by right and left-handed people.



Comfortable and accurate handling thanks to the shape and the materials used in the handle.



Electronic controlled function parameters, warning lights and USB interface.



Service indicator lights informing about the battery charge level and service control if necessary.



180° swiveling nickel-plated head.



With this software, it is possible to configure the tool, record the crimping data and analyse the cycles already done.



Lithium-Ion 18V battery with increased life expectancy and without any memory effect.

# Cordless Electro-hydraulic Compression Tool – 120 kN

## for Tubular Lugs and Connectors type C



### ESC125 Electro-hydraulic compression tool kit

#### Kit composition

- ✓ Crimping tool.
- ✓ 2 batteries 18 V / 4 Ah.
- ✓ Charger 220 V.
- ✓ Metallic carry case (Space 22 sets C12).

PN : ESC125  
PN : BL1840B  
PN : CLM1890HC  
PN : CM12TES

Item code

7519460

Part no.

ESC125K1BLCM

Dies



#### Additional equipment for ESC125:

#### Fast charger

Charger with display which identifies the state of the battery and the conditions of load.



Item code

7519430

Part no.

CLM1890HC

#### Metallic carry case

- ✓ Ideal for transport and storage.
- ✓ Adapted to each model.

Item code

7519432

Part no.

CMESC120

#### Battery

Li-Ion technology without memory effect.



- ✓ Voltage: 18 V.
- ✓ Capacity: 4.0 Ah.
- ✓ Weight: 0.64 kg.

Item code

7519576

Part no.

BL1840B

#### Dies and crimping capacity

Part no.	Copper tubular lugs and sleeves	"C" type connectors	Aluminium/copper cable rounding
	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>
C12HCU...	6 to 400	C6 to C70	-
C12MR	-	-	50 to 240
C12CC...	-	C75 to C185-95	-



# Cordless Electro-hydraulic Compression Tool – 120 kN

for Tubular Lugs, Aluminium-Copper Lugs, Splices and Connectors type C

## Electro-hydraulic compression tool ESU137

FORCE 120 kN

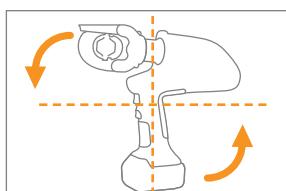
- ✓ Output force: 120 kN.
- ✓ Stroke: 27 mm.
- ✓ Autonomy: - 50 to 100 indent crimping operations with battery 4.0 Ah.
  - 100 to 220 crimping operations with battery 5.0 Ah.
- ✓ Cycle time during indent crimping operations: 7 to 12 depending on the section.
- ✓ Cycle time during crimping operations: 5 to 8 depending on the section.
- ✓ Dimensions: 400 x 310 x 72 mm.
- ✓ Weight: 5.9 kg (including the battery).

### New features:

- ✓ Electronic control of the cycle.
- ✓ Return programming according to the user, either automatic or manual.
- ✓ Automatic or manual return stroke.
- ✓ Automatic stop at the end of the cycle.
- ✓ 2-stage hydraulic pump with pilot-operated valve which increases efficiency between 20 and 40%.
- ✓ Return sound signal.
- ✓ New PC software for diagnosis and analysis of data.



## POWER TOOL 2



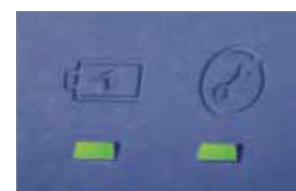
Optimum ergonomics thanks to the balance of the tool. Can be used by right and left-handed people.



Comfortable and accurate handling thanks to the shape and the materials used in the handle.



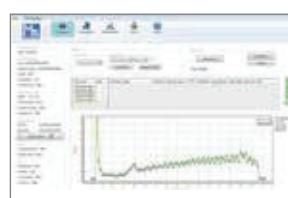
Electronic controlled function parameters, warning lights and USB interface.



Service indicator lights informing about the battery charge level and service control if necessary.



180° swiveling nickel-plated head.



With this software, it is possible to configure the tool, record the crimping data and analyse the cycles already done.



Lithium-Ion 18V battery with increased life expectancy and without any memory effect.

# Cordless Electro-hydraulic Compression Tool – 120 kN for Tubular Lugs, Aluminium-Copper Lugs, splices and Connectors type C



## ESU137 Electro-hydraulic compression tool kit

### Kit composition

- ✓ Crimping tool.
- PN : ESU137
- ✓ 2 batteries 18 V / 4 Ah.
- PN : BL1840B
- ✓ Charger 220 V.
- PN : CLM1890HC
- ✓ Metallic carry case
- PN : CM12TES
- (Space 18 sets C12 + 4 punching sets).

*Refer to the accessories for the necessary adapters based on the dies used.*

Item code 7519428

Part no. ESU137K1BLCM

### Dies



### Adapters

For dies type C12:



For punches 0E, 1E, 2E, 4E:



Part no. U137C12

Part no. C12PP

### Additional equipment for ESU137:

#### Fast charger

Charger with display which identifies the state of the battery and the conditions of load.

- ✓ Charging time: 36 min.
- ✓ Weight: 0.85 kg.
- ✓ Voltage: 220 V CA.
- ✓ Plug: Standard EU (others on request).



Item code 7519430

Part no. CLM1890HC

#### Battery

Li-Ion technology without any memory effect.

- ✓ Voltage: 18 V.
- ✓ Capacity: 5.0 Ah.
- ✓ Weight: 0.64 kg.



Item code 7519576

Part no. BL1840B

#### Metallic carry case

- ✓ Ideal for transport and storage.
- ✓ Adapted to each model.

Item code 7519432

Part no. CMESU137



#### Dies and crimping capacity

	Copper tubular lugs and sleeves	“C” type connectors	Connectors for Al/Cu networks to be indented	“C” shaped cable rounding
Part no.				
	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>

C12HCU...	6 to 400	C6 to C70	-	-
C12E...	-	-	-	-
C12CC...	-	C75 to C185-95	-	-
U13MC...	-	-	16 to 240	-
U13MJ...	-	-	16 to 240	-
C12MR...	-	-	-	50 to 240



# Crimping dies for Compression Tools

## HC120, SC120CM, HU137\*, ESC125 and ESU137\*, SU137C12

\*For compression tools HU 137 and ESU137, it is necessary to order the adapter U137C12

### Dies for "C" type connectors

Dies	mm <sup>2</sup>	Item code	Part no.
	<b>C 6</b>	7517056	C12HCU16
	<b>C 10</b>	7517057	C12HCU25
	<b>C 16</b>	7517070	C12HCU70
	<b>C 25-10</b>	7517080	C12HCU95
	<b>C 25 PM</b>	7517080	C12HCU95
	<b>C 25</b>	7517085	C12HCU150
	<b>C 35</b>	7517085	C12HCU150
	<b>C 50</b>	7517085	C12HCU150
	<b>C 70-35</b>	7517087	C12HCU240
	<b>C 70</b>	7517087	C12HCU240
	<b>C 75</b>	7516600	C12CC95
	<b>C 95-35</b>	7516600	C12CC95
	<b>C 95</b>	7516600	C12CC95
	<b>C 120</b>	7516610	C12CC150
	<b>C 150</b>	7516610	C12CC150
	<b>C 185-95</b>	7516610	C12CC150

### Dies for "C" type connectors

Dies	mm <sup>2</sup>	Item code	Part no.
	<b>C 6</b>	7517056	C12HCU16
	<b>C 10</b>	7517057	C12HCU25
	<b>C 16</b>	7517070	C12HCU70
	<b>C 25-10</b>	7517080	C12HCU95
	<b>C 25 PM</b>	7517080	C12HCU95
	<b>C 25</b>	7517085	C12HCU150
	<b>C 35</b>	7517085	C12HCU150
	<b>C 50</b>	7517085	C12HCU150
	<b>C 70-35</b>	7517087	C12HCU240
	<b>C 70</b>	7517087	C12HCU240
	<b>C 75</b>	7516600	C12CC95
	<b>C 95-35</b>	7516600	C12CC95
	<b>C 95</b>	7516600	C12CC95
	<b>C 120</b>	7516610	C12CC150
	<b>C 150</b>	7516610	C12CC150
	<b>C 185-95</b>	7516610	C12CC150

### Dies and punches with in-built back plates for lugs and aluminium/copper ends

Dies + adapter	For HU137, ESU137 and SU130			
	Dies		Punches	
mm <sup>2</sup>	Item code	Part no.	Item code	Part no.
	<b>16</b>	7504702	U13MC0E	7518830
	<b>25</b>	7504702	U13MC0E	7518830
	<b>35</b>	7504702	U13MC0E	7518830
	<b>50</b>	7504722	U13MC1E	7518840
	<b>70</b>	7504722	U13MC1E	7518840
	<b>95</b>	7504722	U13MC1E	7518840
	<b>120</b>	7517521	U13MC2E	7518850
	<b>150</b>	7517521	U13MC2E	7518850
	<b>185</b>	7517531	U13MC4E	7518860
	<b>240</b>	7517531	U13MC4E	7518860

### Dies for aluminium / copper cable rounding

Dies	mm <sup>2</sup>	Item code	Part no.
	<b>50</b>	7519064	C12MR50
	<b>70</b>	7519065	C12MR70
	<b>95</b>	7519066	C12MR95
	<b>120</b>	7519067	C12MR120
	<b>150</b>	7519068	C12MR150
	<b>185</b>	7519069	C12MR185
	<b>240</b>	7519071	C12MR240

Dies and punches for aluminium or aluminium-copper terminals and butt connectors of 16 to 240 mm<sup>2</sup>, see part numbers on page 81.

# Connectable Hydraulic Compression Tool 120 kN

for Tubular lugs, Splices and Connectors type C



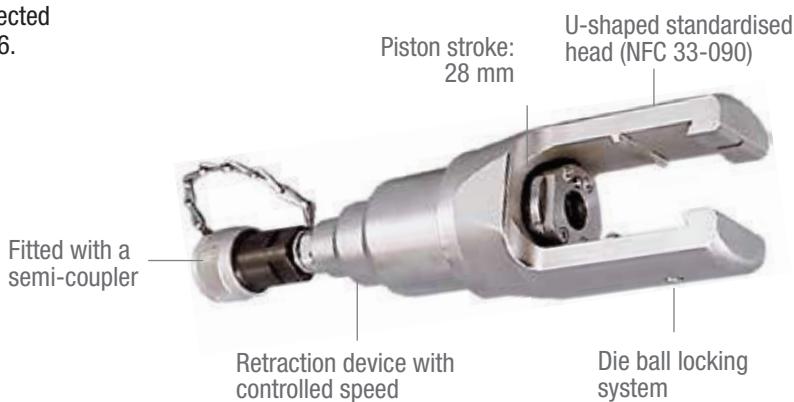
## Connectable hydraulic compression head SU 130

**FORCE 120 kN**

- ✓ Hydraulic compression head which can be connected to hydraulic pumps 700 bars: see pages 84 to 86.
- ✓ Length: 210 mm.
- ✓ Weight: 3.200 kg.

<b>Item code</b>	7510116	<b>Part no.</b>	SU130K
<b>Item code</b>	7510117	<b>Part no.</b>	SU130E
<b>Item code</b>	7510118	<b>Part no.</b>	SU130X

Type of coupler: refer to page 88.



## Connectable hydraulic compression head SU137C12

**FORCE 120 kN**

- ✓ Hydraulic compression head which can be connected to hydraulic pumps 700 bars: see to pages 84 to 86.
- ✓ Supplied with U137C12 adapter.
- ✓ Length: 330 mm.
- ✓ Weight: 3.800 kg.

<b>Item code</b>	7513185	<b>Part no.</b>	SU137C12K
<b>Item code</b>	7513186	<b>Part no.</b>	SU137C12X
<b>Item code</b>	7513184	<b>Part no.</b>	SU137C12E

Type of coupler: refer to page 88.



<b>Part no.</b>	CDCT Hearing copper terminals	Copper tubular lugs and sleeves	"C" type connectors	Connectors for Al, Al/Cu networks to be indented	Aluminium/copper cable rounding
	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>

### SU130 Crimping dies and capacity

U13HCU...	-	25 to 300	C16 to C70	-	-
U13CC95	-	-	C75 to C95	-	-
U13HCT...	75-147	-	-	-	-
U13MC...	-	-	-	16 to 240	-
U13MJ...	-	-	-	16 to 240	-
U13MR...	-	-	-	-	50 to 240

### SU137C12 Crimping dies and capacity

C12HCU...		6 to 400	C6 to C70	-	-
C12MR...		-	-	-	50 to 540
C12CC...		-	C75 to C185-95	-	-

### SU137C12 Crimping dies and capacity – Adapter:

U13HCU...	-	25 to 300	C16 to C70	-	-
U13CC95	-	-	C75 to C95	-	-
U13HCT...	75-147	-	-	-	-
U13MC...	-	-	-	16 to 240	-
U13MJ...	-	-	-	16 to 240	-
U13MR...	-	-	-	-	50 to 240

Item code 7511993 Part no. C12PP



# Connectable Hydraulic Compression Heads 200 kN

for Tubular Lugs, Splices and Connectors type C

## Connectable hydraulic compression heads SU210 and SRU210

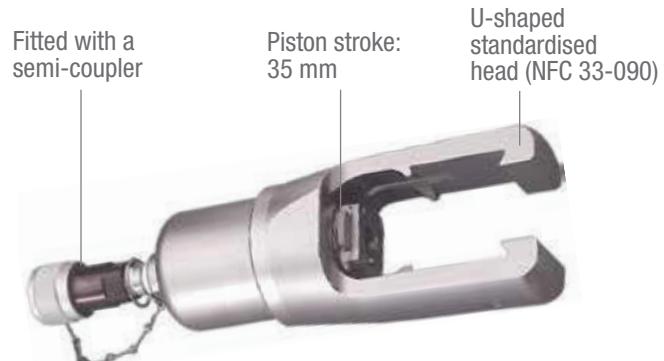
**FORCE 200 kN**

- ✓ Hydraulic compression heads which can be connected to hydraulic pumps 700 bars: see pages 84 to 86.

### Compression head SU210

- ✓ Length: 260 mm.
- ✓ Weight: 5.800 kg.

Item code	7510141	Part no.	SU210K
Item code	7510142	Part no.	SU210E
Item code	7510143	Part no.	SU210X



### Compression head SRU210

- ✓ Length: 275 mm.
- ✓ Weight: 6.180 kg.
- ✓ The system is identical to SU 210 but the shape is lengthened for the aluminium, aluminium-copper crimping up to 630 mm<sup>2</sup>.

Item code	7510161	Part no.	SRU210K
Item code	7510162	Part no.	SRU210E
Item code	7510163	Part no.	SRU210X



Type of coupler: see page 88.

## Crimping dies and capacity

Part no.		Tubular lugs CDCT	Copper tubular lugs and sleeves	"C" type connectors	Connectors for Al, Al/Cu networks to be indented	Aluminium/copper cable rounding
		Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>	Section mm <sup>2</sup>
U13HCU...	U21HCU	-	25 to 630	C16 to C70	-	-
U13CC...	U21CC...	-	-	C75 to C240	-	-
U13HCT...	U21HCT...	75 to 181	-	-	-	-
U13MC...	U21MC...	-	-	-	16 to 630*	-
U13MJ...	U21MJ...	-	-	-	16 to 630*	-
-	U21MR	-	-	-	-	50 to 400

\*500 and 630 only for SRU210.



# Crimping dies for Compression Tools

## HU137, ESU137\*, SU130, SU210 and SRU210

\*For compression tool ESU137, it is necessary to order the adapter C12PP

### Dies for copper tubular lugs and butt connectors

For HU137, ESU137 and SU130: CT Series					For SU210 and SRU210: CT Series				
Dies	mm <sup>2</sup>	Item code	Part no.		Dies	mm <sup>2</sup>	Item code	Part no.	
	25	7516899	U13HCU25			25	7516899 + 7517051	U13HCU25 + U21U13	
	35	7516900	U13HCU35			35	7516900 + 7517051	U13HCU35 + U21U13	
	50	7516910	U13HCU50			50	7516910 + 7517051	U13HCU50 + U21U13	
	70	7516930	U13HCU70			70	7516930 + 7517051	U13HCU70 + U21U13	
	95	7516940	U13HCU95			95	7516940 + 7517051	U13HCU95 + U21U13	
	120	7516950	U13HCU120			120	7516950 + 7517051	U13HCU120 + U21U13	
	150	7516960	U13HCU150			150	7516960 + 7517051	U13HCU150 + U21U13	
	185	7516970	U13HCU185			185	7516970 + 7517051	U13HCU185 + U21U13	
	240	7516980	U13HCU240			240	7516980 + 7517051	U13HCU240 + U21U13	
	300	7516985	U13HCU300			300	7516990	U21HCU300 (direct)	
						400	7517000	U21HCU400 (direct)	
						500	7517005	U21HCU500 (direct)	
						630	7517010	U21HCU630 (direct)	

### Dies and copper punches for copper tubular lugs and butt connectors

Dies for "C" type connectors					For HU137, EU1370 and SU130					For SU210 and SRU210						
Dies + adapter	mm <sup>2</sup>	Item code	Part no.		Dies + adapter	mm <sup>2</sup>	Item code	Part no.		Dies + adapter	mm <sup>2</sup>	Item code	Part no.			
	C 16	7516930	U13HCU70			7516930 + 7517051	U13HCU70 + U21U13				C 25-10	7516940	U13HCU95	7516940 + 7517051	U13HCU95 + U21U13	
	C 25 PM	7516940	U13HCU95			7516940 + 7517051	U13HCU95 + U21U13				C 25	7516960	U13HCU150	7516960 + 7517051	U13HCU150 + U21U13	
	C 35	7516960	U13HCU150			7516960 + 7517051	U13HCU150 + U21U13				C 50	7516960	U13HCU150	7516960 + 7517051	U13HCU150 + U21U13	
	C 70-35	7516980	U13HCU240			7516980 + 7517051	U13HCU240 + U21U13				C 70	7516980	U13HCU240	7516980 + 7517051	U13HCU240 + U21U13	
	C 75	7517090	U13CC95			7517100	U21CC95 (direct)				C 95-35	7517090	U13CC95	7517100	U21CC95 (direct)	
	C 95	7517090	U13CC95			7517100	U21CC95 (direct)				C 120	-	-	7517120	U21CC150 (direct)	
	C 150	-	-			7517120	U21CC150 (direct)				C 185-95	-	-	7517120	U21CC150 (direct)	
	C 185	-	-			7517130	U21CC185 (direct)				C 240	-	-	7517130	U21CC185 (direct)	

Dies for earthing tubular lugs (CDCT)					For HU137, EU1370 and SU130					For SU210 and SRU210						
Dies	mm <sup>2</sup>	Item code	Part no.		Dies	mm <sup>2</sup>	Item code	Part no.		Dies	mm <sup>2</sup>	Item code	Part no.			
	75	7516301	U13HCT75			7517140	U21HCT75				95	-	U13HCT95	7517142	U21HCT95	
	116	7516987	-			7517150	U21HCT116				147	-	U13HCT147	7517160	U21HCT147	
	181	-	-			7517170	U21HCT181									



# Crimping dies for Compression Tools

## HU137, ESU137\*, SU130, SU210 and SRU210

\*For compression tool ESU137, it is necessary to order the adapter C12PP

### Dies for Aluminium / Copper cable rounding

Dies + adapter	 mm²	For HU137, ESU137 and SU130		For SU210 and SRU210	
		Item code	Part no.	Item code	Part no.
	50	7519160	U13MR50	7519160 + 7517051	U13MR50 + U21U13
	70	7519170	U13MR70	7519170 + 7517051	U13MR70 + U21U13
	95	7519180	U13MR95	7519180 + 7517051	U13MR95 + U21U13
	120	7519185	U13MR120	7519185 + 7517051	U13MR120 + U21U13
	150	7519200	U13MR150	7519200 + 7517051	U13MR150 + U21U13
	185	7519210	U13MR185	7519210 + 7517051	U13MR185 + U21U13
	240	7519220	U13MR240	7519220 + 7517051	U13MR240 + U21U13
	300	-	-	7519225	U21MR300 (direct)
	400	-	-	7519230	U21MR400 (direct)
	500	-	-	-	U21MR500 (direct)
	630	-	-	-	U21MR630 (direct)

### Dies and punches with die stoppers for aluminium / copper terminals and end sleeves

Dies + adapter	 mm²	For HU137, ESU137 and SU130		Punches	
		Item code	Part no.	Item code	Part no.
	16	7504702	U13MC0E	7518830	0E
	25	7504702	U13MC0E	7518830	0E
	35	7504702	U13MC0E	7518830	0E
	50	7504722	U13MC1E	7518840	1E
	70	7504722	U13MC1E	7518840	1E
	95	7504722	U13MC1E	7518840	1E
	120	7517521	U13MC2E	7518850	2E
	150	7517521	U13MC2E	7518850	2E
	185	7517531	U13MC4E	7518860	4E
	240	7517531	U13MC4E	7518860	4E

Dies + adapter	 mm²	For SU 210 and SRU 210		Adapter	
		Item code	Part no.	Item code	Part no.
	16	7504702	U13MC0E	7518830	0E
	25	7504702	U13MC0E	7518830	0E
	35	7504702	U13MC0E	7518830	0E
	50	7504722	U13MC1E	7518840	1E
	70	7504722	U13MC1E	7518840	1E
	95	7504722	U13MC1E	7518840	1E
	120	7517521	U13MC2E	7518850	2E
	150	7517521	U13MC2E	7518850	2E
	185	7517531	U13MC4E	7518860	4E
	240	7517531	U13MC4E	7518860	4E
	300	7517541	U21MC5E	7518870	5E
	400	7517541	U21MC5E	7518870	5E
	500	7517551	RU21MC6E*	7518900	6E
	630	7517551	RU21MC6E*	7518900	6E

\*Only with Compression Head SRU 210.



# Crimping dies for Compression Tools

## HU137, ESU137\*, SU130, SU210 and SRU210

\*For compression tool ESU137, it is necessary to order the adapter C12PP

### Dies and Punches with die stoppers for aluminium and aluminium-copper butt connectors

To select a Copper die, please see page 22.

Dies + adapter	 mm²	Dies		Punches		Part no.
		Item code	Part no.	Item code	Part no.	
	<b>16</b>	7518711	U13MJ0E	7518830	OE	
	<b>25</b>	7518711	U13MJ0E	7518830	OE	
	<b>35</b>	7518711	U13MJ0E	7518830	OE	
	<b>50</b>	7518721	U13MJ1E	7518840	1E	
	<b>70</b>	7518721	U13MJ1E	7518840	1E	
	<b>95</b>	7518721	U13MJ1E	7518840	1E	
	<b>120</b>	7518731	U13MJ2E	7518850	2E	
	<b>150</b>	7518731	U13MJ2E	7518850	2E	
	<b>185</b>	7518741	U13MJ4E	7518860	4E	
	<b>240</b>	7518741	U13MJ4E	7518860	4E	

Dies + adapter	 mm²	Dies		Punches		Adapter	
		Item code	Part no.	Item code	Part no.	Item code	Part no.
	<b>16</b>	7518711	U13MJ0E	7518830	OE	7517051	U21U13
	<b>25</b>	7518711	U13MJ0E	7518830	OE	7517051	U21U13
	<b>35</b>	7518711	U13MJ0E	7518830	OE	7517051	U21U13
	<b>50</b>	7518721	U13MJ1E	7518840	1E	7517051	U21U13
	<b>70</b>	7518721	U13MJ1E	7518840	1E	7517051	U21U13
	<b>95</b>	7518721	U13MJ1E	7518840	1E	7517051	U21U13
	<b>120</b>	7518731	U13MJ2E	7518850	2E	7517051	U21U13
	<b>150</b>	7518731	U13MJ2E	7518850	2E	7517051	U21U13
	<b>185</b>	7518741	U13MJ4E	7518860	4E	7517051	U21U13
	<b>240</b>	7518741	U13MJ4E	7518860	4E	7517051	U21U13
	<b>300</b>	7518805	U21MJ5E	7518870	5E	-	direct
	<b>400</b>	7518805	U21MJ5E	7518870	5E	-	direct
	<b>500</b>	7518806	RU21MJ6E*	7518900	6E	-	-
	<b>630</b>	7518806	RU21MJ6E*	7518900	6E	-	-

\*Only with Compression Head SRU 210.

### Boxes for dies

- ✓ Empty box, deep punching + rounding with space for the following dies:

U13MC0E - MC1E - MC2E - MC4E  
U13MJ0E - MJ1E - MJ2E - MJ4E  
OE - 1E - 2E - 4E  
U13MR50 - U13MR70 - U13MR95 - U13MR120  
U13MR150 - U13MR185 - U13MR240

Item code	7516881	Part no.	CPU13M
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- ✓ Empty box, copper crimping with space for the following dies:

U13HCU35 - U13HCU50 - U13HCU70 - U13HCU95 -  
U13HCU120 - U13HCU150 - U13HCU185  
U13HCU240 - U13HCU300  
U13CC95  
U21HCU400  
U21U13

Item code	7516880	Part no.	CPU13H
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Unless indicated otherwise,  
all dimensions are in millimetres.



# **400 kN Connectable Hydraulic Compression Tool to Crimp**

## Connectable hydraulic compression tool SAU 400 Q

## FORCE 400 kN

- ✓ Hydraulic compression head which can be connected to a single-action pump 700 bars: see pages 84 to 86.
  - ✓ Length: 470 mm.
  - ✓ Weight: 18 kg.

*Type of coupler: see page 88.*

**Item code** 7510183    **Part no.** SAU400QK

**Item code** 7510184      **Part no.** SAU400QE

Item code 7510185 Part no. SAU400QX



#### - Opening head

- Anticorrosion protection: chemical nickel-plating

- Revolving articulated hydraulic coupler enabling a better use whatever the working position



- ✓ Articulated handles for easy use

- ✓ Locking of handles by rotation of the clasp with indexation in locked position

- ✓ Positive locking system of hexagonal crimping die
  - ✓ Deep indent crimping dies securely held in ram

- ✓ Spring loaded location balls avoid die damage when positioned wrongly

### **Crimping capacities:**

- ✓ Hexagonal crimping for copper tubular lugs NFC20  
130: 400 to 1000 mm<sup>2</sup>.
  - ✓ Aluminium deep indent crimping: 800 to 1600 mm<sup>2</sup>
  - ✓ Hexagonal crimping for forged lugs HU series:  
500 to 1300 mm<sup>2</sup>.

**Dies on request**

#### **Additional equipment:**

- ✓ Wooden carrying case.

Item code 7510186 Part no. CBSAU400Q



# 550 and 1000 kN Connectable Hydraulic Compression Heads for Tubular lugs, Splices and Connectors type C



## Connectable hydraulic compression head SB 550

FORCE 550 kN

- ✓ Hydraulic compression head to be connected to a single-action pump: see pages 84 to 86.
- ✓ Length: 450 mm.
- ✓ Weight: 22 kg.

Type of coupler: see page 88.

Delivered in metal box.

For crimping dies, please send us an inquiry.

### Crimping capacity:

- ✓ 660 mm<sup>2</sup> Aluminium.
- ✓ 600 mm<sup>2</sup> Copper.
- ✓ 450 mm<sup>2</sup> Aluminium-Steel, Almelec-Steel and homogenous Almelec.

Item code	7510301	Part no.	SB550KCM
Item code	7510300	Part no.	SB550ECM
Item code	7510590	Part no.	SB550XCM



## Connectable hydraulic compression head DB1001

FORCE 1000 kN

- ✓ Hydraulic compression head to be connected to a double-action pump: see page 86.
- ✓ Length: 350 mm.
- ✓ Weight: 32 kg.

Type of coupler: see page 88.

Delivered in wooden box.

For crimping dies, please send us an inquiry.

### Crimping capacity:

- ✓ 1000 mm<sup>2</sup> Aluminium.
- ✓ 750 mm<sup>2</sup> homogeneous Almelec.
- ✓ 612 mm<sup>2</sup> Almelec-Steel.

Item code	Consult us	Part no.	DB1001KCB
Item code	Consult us	Part no.	DB1001ECB
Item code	Consult us	Part no.	DB1001XCB





# Hydraulic pumps 700 bars

## Hydraulic pump P39

- ✓ Crimping and rounding with 60 to 200 kN compression heads.
- ✓ Length: 400mm.
- ✓ Weight: 4.900 kg.
- ✓ Fitted with a 1.8m hydraulic hose.

Type of coupler: see page 88.

Item code	7510051	Part no.	P39K
Item code	7510052	Part no.	P39E
Item code	7510053	Part no.	P39X
Item code	7516020	Part no.	VAL29

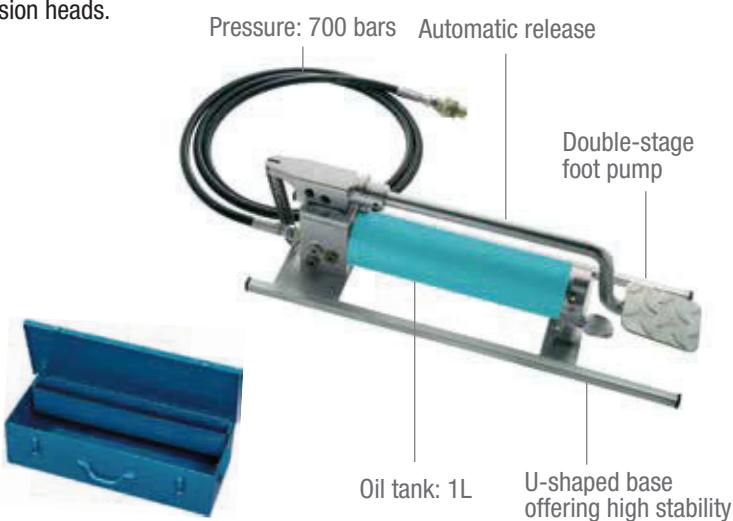


## Hydraulic pump SPM4095

- ✓ Crimping and rounding with 60 to 400 kN compression heads.
- ✓ Length: 700mm.
- ✓ Weight: 12.900 kg.
- ✓ Equipped with a 3m hydraulic hose.

Type of coupler: see page 88.

Item code	7510075	Part no.	SPM4095K
Item code	7510076	Part no.	SPM4095E
Item code	7510077	Part no.	SPM4095X
Item code	7516040	Part no.	VAL22CR



# Electro-hydraulic Pumps 700 bars



## Compact and portable electro-hydraulic set SPT21-585

- ✓ Crimping and rounding with 60 to 400 kN compression heads.
- ✓ Dimensions: 186 x 160 x 350 mm.
- ✓ Weight: 15.500 kg.
- ✓ Flow: 0-20 bars: 2.60 l/min.  
20-700 bars: 0.32 l/min.

*Hydraulic hose to be ordered, see page 88.*

*Coupler type: see page 88.*

*Delivered in metal box.*

<b>Item code</b>	7510216	<b>Part no.</b>	SPT21-585KCM
<b>Item code</b>	7510218	<b>Part no.</b>	SPT21-585ECM
<b>Item code</b>	7510217	<b>Part no.</b>	SPT21-585XCM



## Cordless electro-hydraulic set SEPT13

- ✓ Hydraulic pump 700 bars.
- ✓ Low pressure flow rate: 1.3 l/min.
- ✓ High pressure flow rate: 0.2 l/min.
- ✓ Dimensions: 385 x 245 x 210 mm.
- ✓ Weight: 9.400 kg (2 batteries included).

*Batteries, chargers and boxes on separate order  
Type of coupler: see page 88.*

<b>Item code</b>	7515091	<b>Part no.</b>	SEPT13K
<b>Item code</b>	7515093	<b>Part no.</b>	SEPT13E
<b>Item code</b>	7515092	<b>Part no.</b>	SEPT13X



### Additional equipment:

- ✓ Wooden box.

<b>Item code</b>	7515095	<b>Part no.</b>	CBSEPT13
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- ✓ Fast charger.

<b>Item code</b>	7512183	<b>Part no.</b>	CL1430-HC
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- ✓ Battery Li-ion.

<b>Item code</b>	7512182	<b>Part no.</b>	BC1430X
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# Hydraulic pumps 700 bars

## Electro-hydraulic set SPT36-220

- ✓ Crimping with 200 to 550 kN compression heads.
- ✓ Dimensions: 470 x 330 x 443 mm.
- ✓ Weight: 37 kg.
- ✓ Flow: 0 – 20 bars: 2.60 l/min.  
20 – 700 bars: 0.50 l/min.

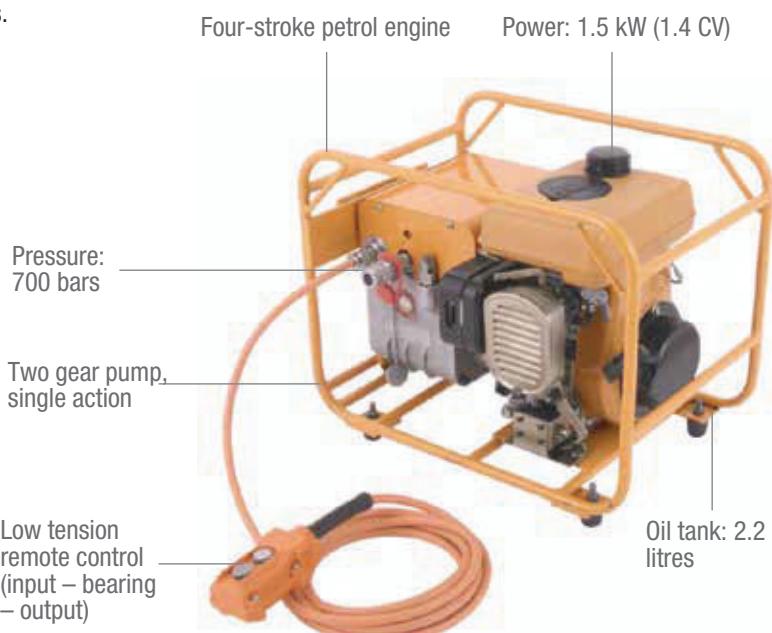
Type of coupler: see page 88.

Delivered in a wooden box.

**Part no.** SPT36-220KCB

**Part no.** SPT36-220ECB

**Part no.** SPT36-220XCB



## Hydraulic pumps DPM51-201 and DPT51-220

- ✓ Crimping with double action 1000 kN compression heads.

### Pump DPM 50-201

- ✓ Dimensions: 650 x 370 x 450 mm.
- ✓ Weight: 51 kg.
- ✓ Flow: 0 – 20 bars: 7.50 l/min.  
20 – 700 bars: 1.20 l/min.

### Pump DPT 51-220

The same as DPM 50-201 except that there is a remote control (input – bearing – output, + switch for automatic cycle).

- ✓ Dimensions: 665 x 405 x 440 mm.
- ✓ Weight: 58 kg.

Type of coupler: see page 88.

Delivered in a wooden box.

**Part no.** DPM51-201KCB

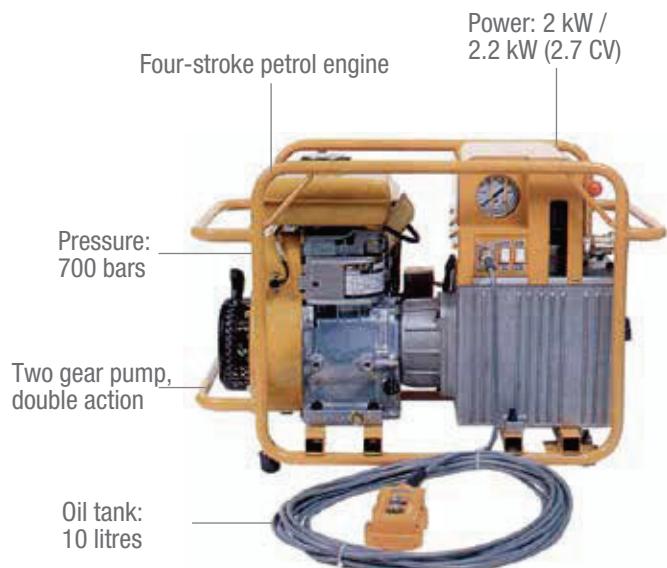
**Part no.** DPM51-201ECB

**Part no.** DPM51-201XCB

**Part no.** DPT51-220KCB

**Part no.** DPT51-220ECB

**Part no.** DPT51-220XCB



\* **DPT:** Remote control (input – bearing – output, + switch for automatic cycle)

\* **DPM:** Hand control on the pump (input – bearing – output)



### Cycle counter KCHTA10

- ✓ Dimensions without couplings: H = 53 x I = 50 x L = 80 mm  
(L box alone = 50 mm).
- ✓ Weight without coupling: 620 g.
- ✓ Communicating tool: Three-colour indicator/warning LED.
- ✓ Micro-USB connection for computer monitoring.
- ✓ Lifetime: 50000 cycles.
- ✓ Battery life: 5 years.

Micro-USB connection for access via **CT Diag** software to the following information:

- ✓ Tool type.
- ✓ Serial number.
- ✓ Commissioning date.
- ✓ Number of cycles.
- ✓ Remaining number of cycles.
- ✓ 10 last service interventions.

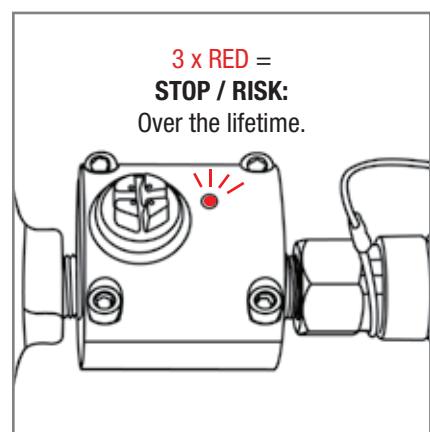
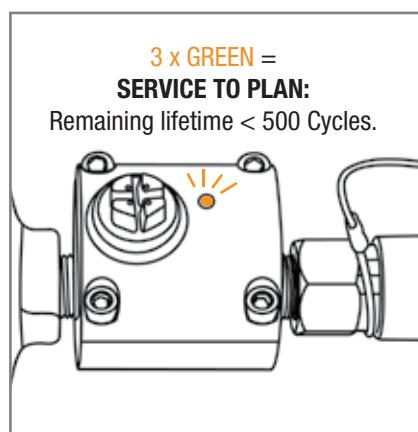
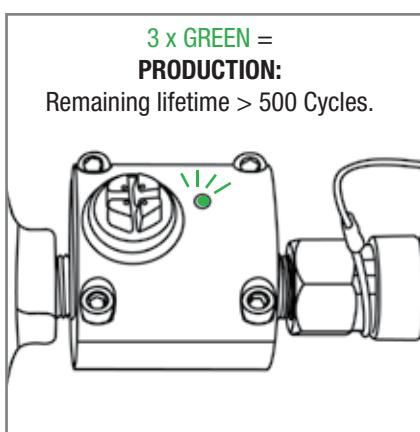


Item code	Part no.	Connection
7510029	KCHTA10M38NPT	2x3/8 NPT males
7510028	KCHTA10F14BSP	3/8NPT males + 1/4BSP female



**3 colour LED indicator gives information about the hydraulic tool condition** (flashes 3 times after each crimping operation).

- ✓ Enables monitoring and preventive maintenance during the whole lifetime of the tool.





# Accessories for Hydraulic Tooling

## Hydraulic couplers

✓ Standard equipment of our tools.



### Type of coupler when ordering

Type	Item code	Part no.	Dimensions (Threading in ")	Description
 <b>K</b> <b>PIONNER-3/8</b>	7510001 7510002	RMK - F38NPT RFK - M38NPT	3/8 - 18 NPT 3/8 - 18 NPT	✓ Male coupler assembly through 3/8 NPT threaded hole ✓ Female coupling assembly through 3/8 NPT threaded male socket
 <b>E</b> <b>EDF-3/8</b>	7510003 7510004	RME - F38NPT RFE - F38NPT	3/8 - 18 NPT 3/8 - 18 NPT	✓ Male coupler assembly through 3/8 NPT threaded hole ✓ Female coupling assembly through 3/8 NPT threaded hole
 <b>X</b> <b>CEJN -3/8 117 Series</b>	7510005 7510006	RMX - F38NPT RFX - F38NPT	3/8 - 18 NPT 3/8 - 18 NPT	✓ Male coupler assembly through 3/8 NPT threaded hole ✓ Female coupling assembly through 3/8 NPT threaded hole

## Hydraulic hoses with couplers type K, E or X



Type K		Type E		Type X		Dimensions
Item code	Part no.	Item code	Part no.	Item code	Part no.	
7510021	F4622K	7510022	F4622E	7510023	F4622X	1,80 m
7510031	F4623K	7510032	F4623E	7510033	F4623X	3,00 m
7510041	F4626K	7510042	F4626E	7510043	F4626X	6,00 m

## Hydraulic oils



Item code	Part no.	Applications	Capacity
7516220	HF95X	PA133 and P39	1 L
7516230	B2XV32	Other tools	2 L



## Hand cable-cutters CC20

- ✓ For copper or aluminium conductors up to Ø 25 mm.
- ✓ Exceptional new shape and quality of the blade.
- ✓ Preliminary and definitive cutting (1<sup>st</sup> and 2<sup>nd</sup> blade).

**Does not cut steel**

- ✓ Length: 200 mm.
- ✓ Weight: 0.300 kg.



Item code

7507110

Part no.

CC20

## Hand cable-cutter MK30

- ✓ For copper or aluminium conductors up to Ø 30 mm.
- ✓ For copper or aluminium cables 240 mm<sup>2</sup>.

**Does not cut steel**

- ✓ Length: 600 mm.
- ✓ Weight: 1.540 kg.



Item code

7507106

Part no.

MK30

## Wire cutter HS6000

The wire cutter HS6000 was designed to make it easy to cut with maximum precision thanks to its micro toothed blades and its robustness.

**Does not cut steel**

- ✓ Length: 150 mm.
- ✓ Weight: 0.090 kg.



Item code

7500201

Part no.

HS6000



# Hand cable-cutters

## Hand ratchet cable-cutter MRK34

- ✓ Cutting capacity for conductors up to Ø 34 mm:
  - Aluminium: 240 mm<sup>2</sup>.
  - Copper: 185 mm<sup>2</sup>.

**Does not cut steel**

- ✓ Length: 210 mm.
- ✓ Weight: 0.750 kg.



Item code 7519562

Part no.

MRK34

## Hand ratchet cable-cutter MRK52E

- ✓ Cutting capacity for conductors up to Ø 52 mm:
  - Aluminium: 400 mm<sup>2</sup>.
  - Copper: 400 mm<sup>2</sup>.
  - Telephone cables: Ø 52 mm (ext.).

**Does not cut steel**

- ✓ Length: 280 mm.
- ✓ Weight: 1.040 kg.



Item code 7519563

Part no.

MRK52E

## Hand mechanical cable-cutter MRK62PRO

- ✓ Double bearing mechanical system to reduce force and enhance longevity.
- ✓ Cutting capacity for conductors up to Ø 62 mm:
  - Aluminium/Copper multi-strand wire: 750 mm<sup>2</sup>.
  - Sectoral Aluminium/Copper multi-strand wire: 750 mm<sup>2</sup>.
  - Flexible Aluminium/Copper multi-strand wire: 750 mm<sup>2</sup>.
  - Telephone cables: Ø 62 mm (ext.).

**Does not cut steel**

- ✓ Length: 410 mm.
- ✓ Weight: 2 kg.



Item code 7519561

Part no.

MRK62PRO

# Cordless Electro-mechanical Cable-cutter



## Integrated electric motor cable-cutter EK50P

- ✓ New powerful motor with high torque offers superior performances.
- ✓ New ergonomics for ease of operation during cable cutting. The new handle orientation gives a better arm position.
- ✓ New circuit board which shuts down for overloading protection.
- ✓ Cutting capacity up to: 50 mm.
  - Cutting capacity Copper: 500 mm<sup>2</sup>.
  - Cutting capacity Aluminium: 800 mm<sup>2</sup>.
  - Cutting capacity Cu hard, AAC: 150 mm<sup>2</sup>.
- ✓ Cycle time: 3 to 6 seconds depending on the cable.
- ✓ Autonomy: 60 to 75 cuts with 3.0 Ah.

**Note:** Never use to cut cables with protective steel strip or cables with steel core.

- ✓ Dimensions (battery included): 400 x 150 x 110 mm.
- ✓ Weight (battery included): 2.950 kg.



Item code

7512184

Part no.

EK50PK1CM

This kit consists of:

- ✓ 1 electro-mechanical cable-cutter.
- ✓ 2 Batteries Li-ion 14.4 V 3.0 Ah.
- ✓ 1 battery charger.
- ✓ 1 metal carrying case.





# Cordless Electro-mechanical Cable-cutter

## Integrated electric motor cable-cutter EK55P

- ✓ New powerful motor with high torque offers superior performances.
- ✓ New ergonomics for ease of operation during cable cutting. The new handle orientation gives a better arm position.
- ✓ New circuit board which shuts down for overloading protection.
- ✓ Cutting capacity up to: 54 mm max.
  - Copper cables up to: 500 mm<sup>2</sup>.
  - Aluminium cables up to: 800 mm<sup>2</sup>.
  - Hard copper cables, AAC up to: 150 mm<sup>2</sup>.
- ✓ Cycle time: 3 to 6 seconds depending on cable.
- ✓ Autonomy: 60 to 75 cuts with 3.0 Ah.

**Note: Never use to cut cables with protective steel strip or cables with steel core.**

- ✓ Dimensions (battery included): 420 x 180 x 110 mm.
- ✓ Weight (battery included): 3.340 kg.

Item code 7512185      Part no. EK55PK1CM

This complete kit consists of:

- ✓ 1 electro-mechanical cable-cutter.
- ✓ 2 Batteries Li-ion 14.4 V 3.0 Ah.
- ✓ 1 battery charger.
- ✓ 1 metal carrying case.



# Cordless Electro-mechanical Cable-cutter



## Electro-hydraulic cable-cutter EK30-63 and EK3363

**FORCE 65 kN**

- ✓ The EK33-63 cable-cutter is dedicated to exclusively cutting flexible copper cable.
- ✓ Activation release protection, for better safety.
- ✓ Cutting diameter capacity up to: 30 mm.
- ✓ Output force: 60 kN.

### EK30-63:

- ✓ Copper cutting capacity up to: 30 mm.
- ✓ Aluminium cutting capacity up to: 30 mm.

### EK33-63:

- ✓ Copper cutting capacity up to: 30 mm (including flexible cables).

Item code	7519648	Part no.	ESK30-60
Item code	7519647	Part no.	ESK33-60



**Note:** Never use to cut cables with protective steel strip or cables with steel core.

- ✓ Dimensions (battery included): 390 x 330 x 75 mm.
- ✓ Weight (battery included): 5.300 kg.

### Additional equipment:

- ✓ Carrying case can be filled with the cable-cutter, 1 charger and 2 batteries.



*Additional equipment:  
see page 95.*

Item code	7519623	Part no.	CPEK30-63
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- ✓ Carrying strap.

Item code	7512088	Part no.	CDC2
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# Cordless Electro-hydraulic Cable-cutter

## Electro-hydraulic cable-cutter EMK95-120

FORCE 124 kN

- ✓ Cutting capacity up to: 95mm.
  - Copper cutting capacity up to: 95mm.
  - Aluminium cutting capacity up to: 70mm.
  - Telecom cable cutting capacity up to: 95mm.
- ✓ Cycle time: 15 seconds depending on the cable.
- ✓ Lighting with 2 LED.

Item  
code

7519654

Part  
no.

EMK95-120



**Note:** Never use to cut cables with protective steel strip or cables with steel core.

- ✓ Dimensions (battery included): 765 x 120 x 250 mm.
- ✓ Weight (battery included): 9.400 kg.

### Additional equipment:

- ✓ Metal carrying case containing the cable-cutter,  
1 charger and 2 batteries.

*Additional equipment:  
see page 95.*

Item  
code

7519654

Part  
no.

CMEMK95-120

- ✓ Carrying strap.



Item  
code

7512088

Part  
no.

CDC2



# Batteries, Chargers and Accessories

for Cordless Electro-hydraulic Compression Tools EK50P,  
EK55P, EK30-63, EK33-63, EMK95-120

## Features

### Li-Ion battery for electro-hydraulic compression tools

- ✓ Li-Ion battery: 14.4 V – 3 Ah.
- ✓ Battery equipped with an integrated electronic circuit associated with 3 LED indicating power load.
- ✓ Li-Ion technology without memory effect.
- ✓ Weight: 0.570 kg.



Item code

7512182

Part no.

BC1430X

### Fast charger for Li-Ion batteries like BC1430X, but also compatible with Ni-Cd and Ni-MH batteries

- ✓ Charger tri-technologies: charges BA1420, BA1420X, BB1430 and BC1430X batteries.

#### Warning:

- ✓ We do not guarantee the operation with "adaptable" batteries.
- ✓ Without any information about the characteristics of "adaptable" batteries, their use may damage the charger; consequently it will cancel the warranty.
- ✓ Voltage: 14.4 V.
- ✓ Technology: NiCd – NiMH – Li-Ion.
- ✓ Charging current: 3.0 Ah.
- ✓ Charging time BA1420/BA1420X: 2.0 Ah – 40 min.
- ✓ Charging time BB1430/BC1430X: 3.0 Ah – 60 min.
- ✓ Weight: 0.670 kg.
- ✓ Voltage: 220 V AC.
- ✓ Main plug: EU – Other plugs: on request.



Item code

7512183

Part no.

CL1430HC

## Miscellaneous

- ✓ Carrying strap.

Item code

7512088

Part no.

CDC2

- ✓ Inspection dynamometer according to tooling.

*Please send us an inquiry.*



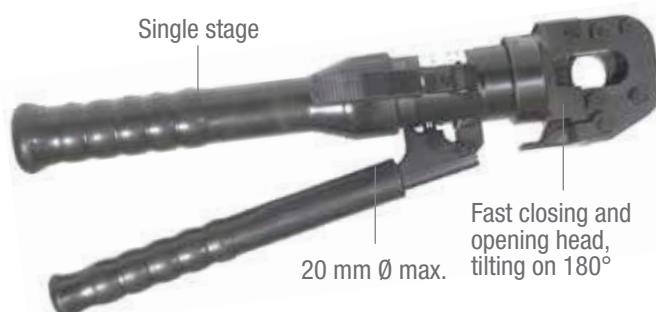
# Hydraulic Cable-cutters

## Hand hydraulic cable-cutters

- ✓ Cutting capacity for copper and aluminium conductors up to Ø 20 mm.
- ✓ Length: 400 mm.
- ✓ Weight: 2.800 kg.

**Does not cut steel**

*Delivered with a carrying bag.*



**Item code** 7519675

**Part no.**

HVA20-40S

## Connectable hydraulic cable-cutter

- ✓ Cutting capacity for copper or aluminium conductors up to Ø 30 mm.
- ✓ Length: 225 mm.
- ✓ Weight: 2.700 kg.
- ✓ Connectable on hydraulic pumps (see pages 84 to 86).

**Item code** 7510501

**Part no.**

SK30-70KCM

**Item code** 7510502

**Part no.**

SK30-70KSE

**Item code** 7510503

**Part no.**

SK30-70XCM



Fitted with  
a semi-coupler



30 mm Ø max.

*Type of coupler: see page 88.*

*Delivered in a metal box.*

## Connectable hydraulic cable-cutter

- ✓ Cutting capacity for copper or aluminium conductors up to Ø 40 mm.
- ✓ Length: 270 mm.
- ✓ Weight: 3.650 kg.
- ✓ Connectable on hydraulic pumps (see pages 84 to 86).

**Item code** 7510511

**Part no.**

SA40-60SK

**Item code** 7510512

**Part no.**

SA40-60SE

**Item code** 7510513

**Part no.**

SA40-60SX



Fitted with  
a semi-coupler



30 mm Ø max.

*Type of coupler: see page 88.*

*Delivered in a carrying case.*

## Connectable hydraulic cable-cutter

- ✓ Cutting capacity for copper or aluminium conductors up to Ø 95 mm.
- ✓ Length: 425 mm.
- ✓ Weight: 8.300 kg.
- ✓ Connectable on hydraulic pumps (see pages 84 to 86).

**Item code** 7510541

**Part no.**

TC096K

**Item code** 7510542

**Part no.**

TC096E

**Item code** 7510543

**Part no.**

TC096X



95 mm Ø max.



Fitted with  
a semi-coupler

*Type of coupler: see page 88.*

*Delivered in a metal box.*



## Stripping Tools

- ✓ Stripping capacity for flexible or rigid conductors from 0.5 to 6 mm<sup>2</sup>.

*Delivered with positioning stop.*

Item code 7500161

Part no.

STRIPOMATIC



## Stripping tool with interchangeable cassette

- ✓ To cut and strip wires from 0.02 to 10 mm<sup>2</sup>.
- ✓ Stripping length and pressure of the knives can be adjusted.

*Delivered with cassette CD00510.*

Item code 7507120

Part no.

D00510



### Additional equipment:

- ✓ Cassettes for stripping tools D00510.
  - To cut and strip wires from 0.02 to 10 mm<sup>2</sup>.

Item code 7507125

Part no.

CD00510

- To cut and strip wires from 4 to 16 mm<sup>2</sup>.

Item code 7507127

Part no.

CD416





# Electrical Stripping Tools

## Cable Stripper Knife

- ✓ Stripping of insulation layers from Ø 25 mm.

Item  
code

7507105

Part  
no.

DC25

Safe longitudinal  
and circular cuts



Cutting depth  
from 0 to 5 mm

Reversible  
cutting blade





## Hand hydraulic hollow punches

**FORCE 50 kN**

- ✓ Length: 220 mm.
- ✓ Weight: 2.270 kg.

**Delivered in a metal box with the following accessories:**

- ✓ 6 punches and dies with various Ø:  
15.2 – 18.6 – 20.4 – 22.5 – 28.3 – 30.5 mm.
- ✓ Pulling axle:  
**Item code: 7512481      Part number: AEP 95**
- ✓ Pulling socket:  
**Item code: 7512491      Part number: DEP 95**
- ✓ Cross bar:  
**Item code: 7512235      Part number: ET 22**

*Can also use all our punches and dies up to 100 mm Ø (pages 100 to 101).*



**Item code** 7512191

**Part no.**

LS6

## Hand hydraulic hollow punches

**FORCE 70 kN**

- ✓ Length: 220 mm.
- ✓ Weight: 3.200 kg.

*Delivered with a carrying bag.*

*Can also uses all our punches and dies up to 100 mm Ø (pages 100 to 101).*



**Item code** 7512204

**Part no.**

HVEP72

## Cordless electro-hydraulic hollow punches

**FORCE 70 kN**

- ✓ Weight (with battery): 4.54 kg.
- ✓ Automatic release with audible “click” when cutting is completed due to a calibrated valve when the power of 70 KN has been reached.
- ✓ Autonomy 150 to 220 cycles.

*Can also use all our punches and dies up to 100 mm Ø (pages 100 to 101).*



**Item code** 7519469

**Part no.**

ESEP70AK1BLCM

**The kit ESEP70AK1BLCM includes:**

- ✓ 1 tool.
- ✓ 2 batteries 18V – 4Ah BL1840B.
- ✓ 1 fast charger CLM1890HC.
- ✓ 1 metal box CM12TES.



# Round punches and dies

(stainless steel metal sheet) for hollow punches

Dimensions (mm)	Corresponding cable gland Ø	Punches		Dies		Rubber	
		Item code	Part no.	Item code	Part no.	Item code	Part no.
15.2	9	7512321	PEP15	7512381	MEP15	-	-
16	-	7512322	PEP16	7512382	MEP16	-	-
16.2	-	7512323	PEP162	7512383	MEP162	-	-
16.5	ISO 16	7512564	PEP165ISO	7512565	MEP165ISO	-	-
18.6	11	7512324	PEP186	7512384	MEP186	7512443	CEP186
19	-	7512325	PEP19	7512385	MEP19	7512444	CEP19
20	-	7512326	PEP20	7512386	MEP20	7512445	CEP20
20.4	13 et ISO 20	7512327	PEP204	7512387	MEP204	7512446	CEP204
20.5	ISO 20	7512567	PEP205ISO	7512568	MEP205ISO	7512569	CEP205ISO
22.5	16	7512328	PEP225	7512388	MEP225	7512447	CEP225
25.5	ISO 25	7512570	PEP255ISO	7512571	MEP255ISO	7512572	CEP255 ISO
28.3	21	7512329	PEP283	7512389	MEP283	7512448	CEP283
30.5	Voyant	7512330	PEP305	7512380	MEP305	7512449	CEP305
32	ISO 32	7512331	PEP32	7512391	MEP32	7512450	CEP32
32.5	ISO 32	7512579	PEP325ISO	7512580	MEP325ISO	7512581	CEP325ISO
33	-	7512332	PEP33	7512392	MEP33	7512451	CEP33

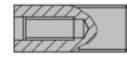
Pulling axle		Pulling socket		Cross bar	
Item code	Part no.	Item code	Part no.	Item code	Part no.
7512481	AEP95	7512491	DEP95	7512235	ET22

Dimensions (mm)	Corresponding cable gland Ø	Punches		Dies		Rubber	
		Item code	Part no.	Item code	Part no.	Item code	Part no.
35	-	7512333	PEP35	7512393	MEP35	7512452	CEP35
37	29	7512334	PEP37	7512394	MEP37	7512453	CEP37
40	ISO 40	7512335	PEP40	7512395	MEP40	7512454	CEP40
40.5	ISO 40	7512582	PEP405ISO	7512583	MEP405ISO	7512584	CEP405ISO
43.2	-	7512336	PEP432	7512396	MEP432	7512455	CEP432
44	-	7512337	PEP44	7512397	MEP44	7512456	CEP44
47	36	7512338	PEP47	7512398	MEP47	7512457	CEP47
48	-	7512339	PEP48	7512399	MEP48	7512458	CEP48
50	ISO 50	7512340	PEP50	7512400	MEP50	7512459	CEP50
50.5	ISO 50	7512576	PEP505ISO	7512577	MEP505ISO	7512578	CEP505ISO
54	42	7512341	PEP54	7512401	MEP54	7512460	CEP54
55	-	7512342	PEP55	7512402	MEP55	7512461	CEP55
59.3	48	7512343	PEP593	7512403	MEP593	7512462	CEP593
63.5	ISO 63	7512573	PEP635ISO	7512574	MEP635ISO	7512575	CEP635ISO
65	-	7512344	PEP65	7512404	MEP65	7512463	CEP65
66	-	7512345	PEP66	7512405	MEP66	7512464	CEP66
70	-	7512346	PEP70	7512406	MEP70	7512465	CEP70
75	-	7512347	PEP75	7512407	MEP75	7512466	CEP75
80	-	7512348	PEP80	7512408	MEP80	7512467	CEP80
82	-	7512349	PEP82	7512409	MEP82	7512468	CEP82
86	-	7512350	PEP86	7512410	MEP86	7512469	CEP86
90	-	7512351	PEP90	7512411	MEP90	7512470	CEP90
92	-	7512352	PEP92	7512412	MEP92	7512471	CEP92
100	-	7512353	PEP100	7512413	MEP100	7512472	CEP100

Pulling axle		Cross bar	
Item code	Part no.	Item code	Part no.
7512501	AEP190	7512235	ET22

# Stamps and round matrices (stainless steel sheet) for punch-holes



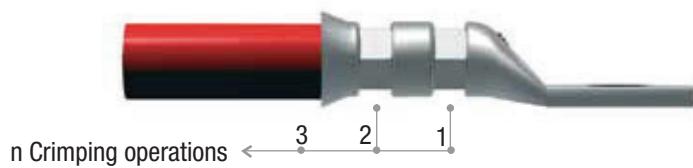
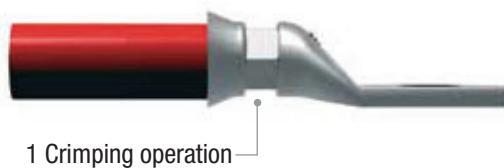
		Punches		Dies		Axis for punch		Socket		
Dimensions (mm)	Item code	Part no.	Item code	Part no.	Item code	Part no.	Item code	Part no.	Item code	Part no.
16.5 ISO 16	7512541	PEP165INOX	7512542	MEP165INOX	7512482	AEP95INOX	9.5	7512491	DEP95	
20.4 PG 13	7512437	PEP204INOX	7512437	MEP204INOX	7512492	AEP135INOX	13.5			
20.5 ISO 20	7512543	PEP205INOX	7512544	MEP205INOX	7512492	AEP135INOX	13.5			
22.5 PG 16	7512375	PEP225INOX	7512435	MEP225INOX	7512492	AEP135INOX	13.5			
25.5 ISO 25	7512545	PEP255INOX	7512546	MEP255INOX	7512492	AEP135INOX	13.5			
30.5 Visual indicator	7512376	PEP305INOX	7512379	MEP305INOX	7512492	AEP135INOX	13.5			
32.5 ISO 32	7512547	PEP325INOX	7512547	MEP325INOX	7512502	AEP190INOX	19			
40.5 ISO 40	7512549	PEP405INOX	7512550	MEP405INOX	7512502	AEP190INOX	19			
50.5 ISO 50	7512551	PEP505INOX	7512552	MEP505INOX	7512502	AEP190INOX	19			
63.5 ISO 63	7512553	PEP635INOX	7512554	MEP635INOX	7512502	AEP190INOX	19			

## Square and rectangular punches and dies (steel metal sheet) for hollow punches

		Punches		Dies		Axis for punch		Bolt for punch		
Dimensions (mm)	Item code	Part no.	Item code	Part no.	Item code	Part no.	Item code	Part no.	Item code	Part no.
17 x 17	7512354	PEPC17	7512414	MEPC17	7512517	AEP66	7512520	EEPC70		
26 x 26	7512355	PEPC26	7512415	MEPC26	7512518	AEP50	7512521	EEPC42		
46 x 46	7512356	PEPC46	7512416	MEPC46	7512513	AEP41	7512526	EEPC43		
51.5 x 51.5	7512357	PEPC51	7512417	MEPC51	7512513	AEP41	7512526	EEPC43		
68 x 68	7512358	PEPC68	7512418	MEPC68	7512513	AEP41	7512526	EEPC43		
72 x 72	7512359	PEPC72	7512419	MEPC72	7512513	AEP41	7512526	EEPC43		
92 x 92	7512432	PEPC92	7512372	MEPC92	7512513	AEP41	7512526	EEPC43		
21 x 27	7512361	PEPR2127	7512421	MEPR2127	7512511	AEPR40	7512521	EEPR42		
22 x 33	7512362	PEPR33	7512422	MEPR33	7512369	AEPR50	7512521	EEPR42		
22 x 42	7512367	PEPR42	7512427	MEPR42	7512369	AEPR50	7512521	EEPR42		
25 x 50	7512368	PEPR50	7512428	MEPR50	7512389	AEPR50	7512521	EEPR42		
26 x 27	7512366	PEPR27	7512426	MEPR27	7512511	AEPR40	7512521	EEPR42		
27 x 33	7512363	PEPR2733	7512423	MEPR2733	7512369	AEPR50	7512521	EEPR42		
30.5 x 50	7512364	PEPR30550	7512424	MEPR30550	7512369	AEPR50	7512521	EEPR42		
42 x 46	7512365	PEPR46	7512425	MEPR46	7512429	AEPR41	7512373	EEPR43		
44 x 92	7512360	PEPR92	7512420	MEPR92	7512429	AEPR41	7512373	EEPR43		



# Crimping instructions



## Hexagonal crimping of copper tubular lugs CT Series (NFC 20130)

Sections mm <sup>2</sup>	Type of hexagonal dies – CT Series										
	D5 HCU...	D10 HCU...	C12 HCU...	U13 HCU...	U21 HCU...	L.mm	Number	L.mm	Number	L.mm	Number
4	9	1	-	-	-	9	1	-	-	-	-
6	9	1	-	-	-	9	1	-	-	-	-
10	9	1	-	-	-	9	1	-	-	-	-
16	9	1	-	-	-	9	1	-	-	-	-
25	9	1	-	-	-	9	1	9	1	-	-
35	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
50	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
70	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
95	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
120	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
150	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
185	-	-	5	2	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
240	-	-	5	2	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
300	-	-	5	3	12 (2 x 5)	2	12 (2 x 5)	2	19 (3 x 5)	1	
400	-	-	-	-	6	3	-	-	19 (3 x 5)	1	
500	-	-	-	-	-	-	-	-	12 (2 x 5)	2	
630	-	-	-	-	-	-	-	-	12 (2 x 5)	2	

L.mm = Width of the die indent.

Nbr. = Number of crimping operations to be done

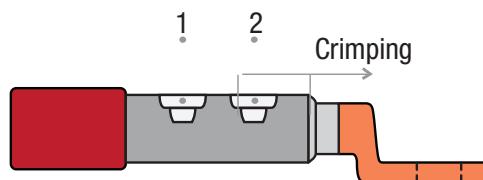


## Crimping of "C" type connectors

"C" type Connectors	Type of dies -C series										
	D5 HCU...	D10 HCU...	C12 HCU...	U13 HCU...	U21 HCU...	L.mm	Number	L.mm	Number	L.mm	Number
<b>C6</b>	9	1	-	-	-	9	1	-	-	-	-
<b>C10</b>	9	1	-	-	-	9	1	-	-	-	-
<b>C16</b>	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
<b>C25-10</b>	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
<b>C25 PM</b>	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
<b>C25</b>	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
<b>C35</b>	5	2	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
<b>C50</b>	-	-	12 (2 x 5)	1	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
<b>C70-35</b>	-	-	-	-	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
<b>C70</b>	-	-	-	-	12 (2 x 5)	1	12 (2 x 5)	1	-	-	-
<b>C75</b>	-	-	-	-	9	2	9	2	14 (2x4.5)	1	
<b>C95-35</b>	-	-	-	-	9	2	9	2	14 (2x4.5)	1	
<b>C95</b>	-	-	-	-	9	2	9	2	14 (2x4.5)	1	
<b>C120</b>	-	-	-	-	-	-	-	-	14 (2x4.5)	1	
<b>C150</b>	-	-	-	-	-	-	-	-	14 (2x4.5)	1	
<b>C185-95</b>	-	-	-	-	-	-	-	-	14 (2x4.5)	1	
<b>C185</b>	-	-	-	-	-	-	-	-	4	3	
<b>C240</b>	-	-	-	-	-	-	-	-	4	3	

## Crimping of aluminium and aluminium/copper terminals and butt connectors EDF series to be indented.

- 2 indentations for all the sections of terminals and butt connectors:



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51413	.32	25-12CT90E	14	6-6C90E	.14	C100SA0-4	.26	C100SRGB2-6	.28	C4A185	.21	CA352	.34	CE005	.34	CPHU15-137	.70
D5HCU	.62	25-6CT	12	6-8C	.12	C100SA0-5	.26	C100SRGC0-3	.28	C4A240	.21	CA352	.34	CE005W	.34	CPHV51	.63
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10-4CT90E	.14	300-10PE	.17	6E	.80/81	C100SA2-6	.26	C100SRGFA1-4	.27	C50E	.39	CBSAU400Q	.82	CE010	.34	D10HCU300	.69
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120-16CT	.13	35-6CT	.12	95-14CT90E	.15	C100SB2-8	.26	C100SRGFC1-5	.27	C70	.39	CCE200-2.5	.52	CE0253D	.34	D5MR120	.68
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150HU12	.25	400-16CT	.13	AEP/R40	.101	C100SC2-8	.26	C12HCU95	.76	C8AU1300	.18	CCE295-4.8A	.52	CEP283	.100	DPM51-201KCB	.86
16-10CT	.12	400-16CT90E	.15	AEP/R41	.101	C100SC1-4	.29	C12MR120	.76	C95	.39	CCE370-4.8	.52	CEP305	.100	DPM51-201XC8	.86
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16-6CT	.12	4E	.76/80/81	BI24-14	.38	C100SPFB4R	.30	C12MR95	.76	CA040D	.34	CCE550-12.7	.52	CEP40	.100	EOAU25	.20
16-6CT90E	.14	50-10CT	.12	BI24-6	.38	C100SPFC3,9R	.30	C12PP	.75	CA042	.34	CCE550-12,7A	.52	CEP405ISO	.100	EOAU35	.20
16-8CT	.12	50-10CT90E	.14	BI25-8	.38	C100SPRA1,6	.30	C150	.39	CA042D	.34	CCE550-9	.52	CEP422	.100	E1AU50	.20
16-8CT90E	.14	50-12CT	.12	BI30-10	.38	C100SPRA1,6C	.30	C150E	.39	CA042D	.34	CCE550-9A	.52	CEP44	.100	E1AU70	.20
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185-12CT	.13	50-6CT90E	.14	BI30-16	.38	C100SPRC3,5	.30	C185	.39	CA043D	.34	CCE762-9	.52	CEP50	.100	E2AU150	.20
185-12CT90E	.15	50-8CT	.12	BI30-6	.38	C100SQA2,8-3	.31	C185-95	.39	CA062	.34	CCE762-9A	.52	CEP505ISO	.100	E4AU185	.20
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185-14CT90E	.15	500-16CT	.13	BI1815I	.64	C100SQA2,8-8	.31	C185E	.39	CA062W	.34	CCE80-2,5A	.52	CEP55	.100	EAB36	.53
185-16CT	.13	500-16CT90E	.15	BL1840B	.65/73/77	C100SQA4,7-8	.31	C1A50	.21	CA063	.34	CD00510	.97	CEP593	.100	EAB36A	.53
185-16CT90E	.15	500-18CT	.13	BR14	.47	C100SQA5N	.31	C1A70	.21	CA063D	.34	CD416	.97	CEP635ISO	.100	EAB48	.53
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GTM-33-8ABKL	.45	MEPC72	.101	PEP19	.100	RJ1A70	.23	SA3	.26	SF167CN	.36	SRGB2-4	.28	TE6014	.35	U21MC5E	.80
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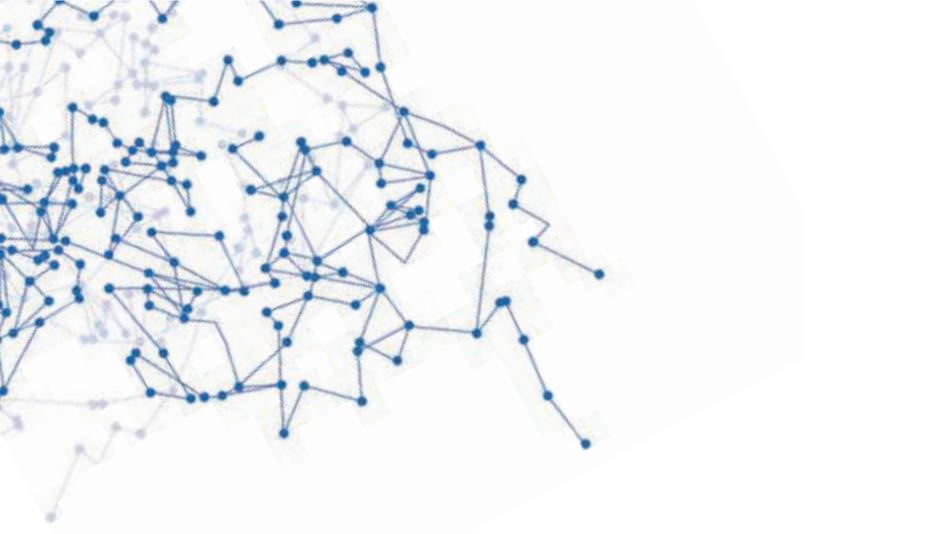
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## Notes



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# Connections for the Nuclear Industry

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