

APLIWELD® Secure+

The exothermic welding in tablets

Saves costs
Simplifies work
Prevents labor risks

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The revolution in tablet format

✓ Labor risks prevention

- Remote control ignition unit **Apliweld®-E** makes the process definitely safer compared to traditional ignition applying a spark to the starting powder.
- **Apliweld®-E** electronic starter provides a fast and safe reaction, improving also transport and storage conditions. Forget spark lighters and flammable material.

Apliweld®Secure+ is no more a traditional welding powder neither requires manual spark ignition. **New welding compound format in tablets and remote control ignition through an electronic starter** replace the old system.



✓ Cost saving

- **Apliweld®-T** tablets are supplied in only two formats for any connection thus avoiding the several welding material package sizes commonly used in exothermic reactions.
- Simplifies transport and storage conditions. Tablets do not degrade throughout time under standard storage conditions.
- Easy to use, reduces cost savings in labor and training.

✓ Simplifies work

- Compact & easy to use product streamlines field work.
- Allows working with wind or humidity.
- Minimizes waste material easing clean-up.
- **Apliweld®-T** tablets also ignite using traditional starting powder.

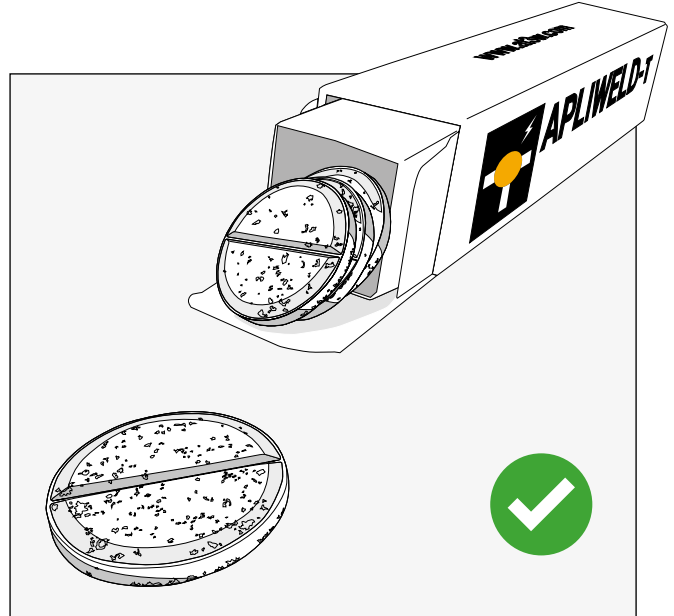
Keep all the benefits of traditional exothermic welding

- Connection has equal or higher electrical conductivity than the conductors themselves.
- Higher mechanical and squeezing resistance than the conductors themselves.
- Welding does not degrade throughout time and resist the galvanic coupling.
- **In summary, Apliweld® Secure+ offers a permanent welding and a low-resistance connection essential to reach the most reliable and longwearing result in earthings.**
- Withstands repeated current impulses.
- Its resistance never increases.

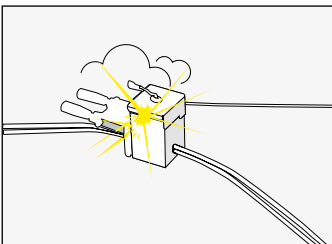
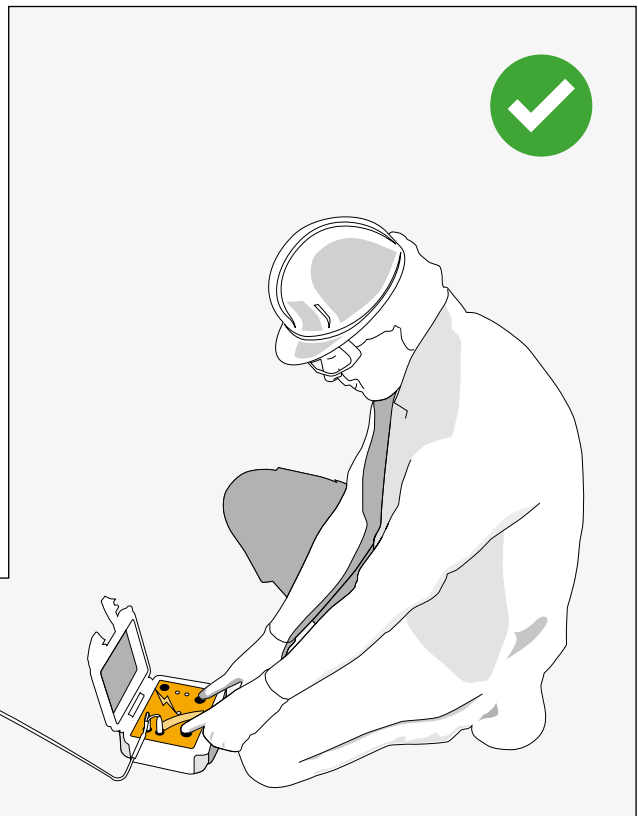
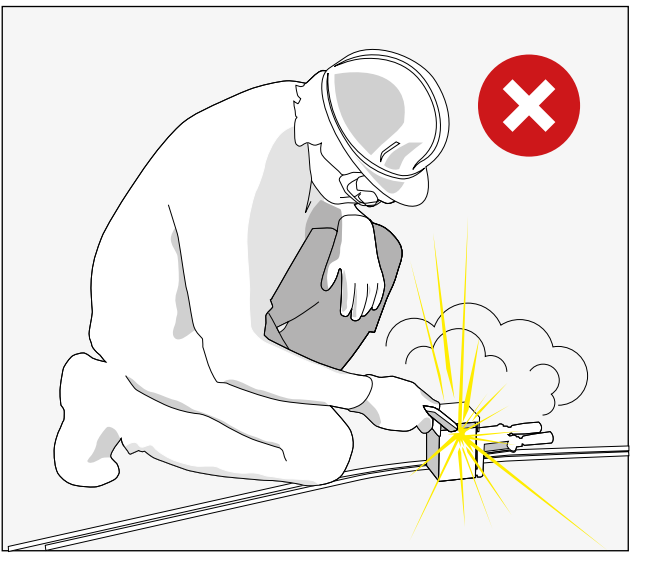
Innovation, less stock costs and more safety

Traditionally, exothermic welding required the user to be provided with multiple packages with different powder weights for making the different connections. Once the conductors were inserted in the graphite mould, the welding compound and the reactive powder, usually

a flammable compound, were poured in the crucible. Then a flint gun, applied manually to the starting powder at a short distance, produced a spark triggering the exothermic reaction.

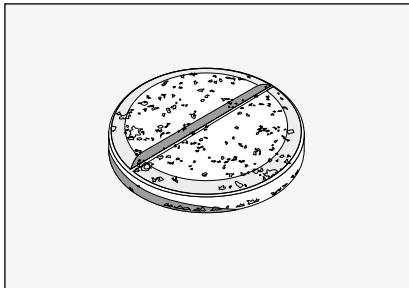


With **Apliweld® Secure +**, the required number of tablets are placed inside the graphite mould. The electronic starter is inserted on top and will be activated at a distance. Hence there is no need of multiple packages and it is safer for the operator.



How to use new components

 **APLIWELD®-T**
Welding compound in tablets.

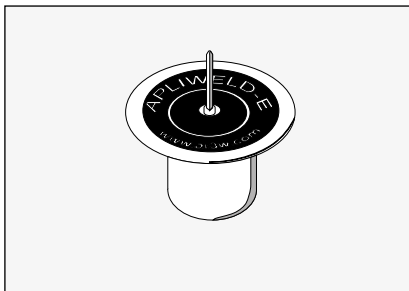


1

Insert the tablets
APLIWELD®-T



 **APLIWELD®-E**
Electronic starter.

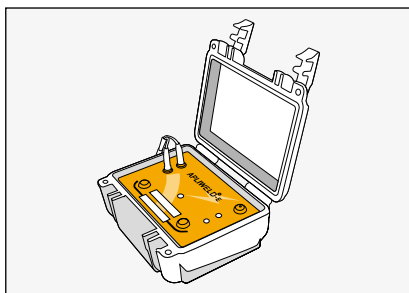


2

Place and connect
the electronic starter
APLIWELD®-E




 **Kit APLIWELD®-E**
Electronic starting device.

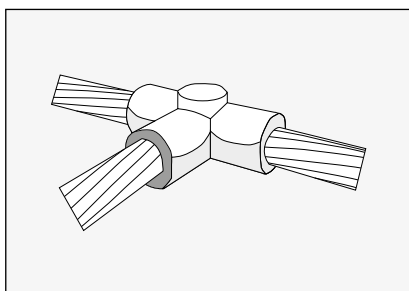


3

Press both push-
buttons at the same
time. **APLIWELD®-E**



 **Results**
Final welding



4

Take the welding
out of the **graphite**
mould



APLIWELD® Secure (+) Comprises the following components:

APLIWELD®-T EXOTHERMIC WELDING TABLETS

Description

Innovating tablet format for welding compound allows any union type using one or more tablets on each connection.

Two references **AT-020N**, the most common one (valid for the 90% of connections) and **AT021N** long size tablets, easy to handle in case of bigger conductors.

Technical characteristics

- Reference: **AT-020N**
- Tablet dimensions: ø 43 mm.
- Units per pack: 20 tablets
- Packaging dim.: 52x52x220 mm.
- Total weight: 900 gr.
- Reference: **AT-021N**
- Tablet dimensions: ø 55 mm.
- Units per pack: 20 tablets
- Packaging dim.: 66x66x200 mm.
- Total weight: 2.000 grs

(+) Benefits:

- **Compact and easy to use**
- **Reduces stock costs**
- **Improves welding process times**
- **Increases equipment life-time**
- **Both electronic and powder starters can be employed**



APLIWELD®-E EXOTHERMIC WELDING ELECTRONIC STARTER

Description

No flammable cases. Electronic starters only ignite through the power supplied by the ignition device.

Technical characteristics

- Reference: **AT-010N**
- Dimensions: 26 mm. ø24 mm.
- Units per pack: 10
- Packaging dimen.: 125x105x40 mm.
- Total weight: 87 gr.
- Time of reaction: < 10 sec.
- Material: not flammable

(+) Benefits:

- **Its safety handle and storage features reduces labor risks**
- **Easy & safety set up**



Kit APLIWELD®-E ELECTRONIC IGNITION DEVICE

Description

Kit that enables controlled and remote power intake activating the electronic starters in a quick and safety way. Includes: ignition unit (**AT-096N**), cable (**AT-098N**), 5 crocodile clips (**AT-099N**), battery charger and bag carrier.

Technical characteristics

- Reference: **AT-100N**
- Power supply:
Lead acid battery 6V 7Ah
- DC Voltage: 6V DC
- Battery charge: 12-36V DC 500 mA
- Battery life: more than 100 weldings
- Battery charging time: 10 hours
- Dimensions: 216x180x102 mm
- Weight: 2300 gr.

(+) Benefits:

- **Remote control ignition reduces labor risks.**





GRAPHITE MOULDS Two graphite mould systems for exothermic welding:

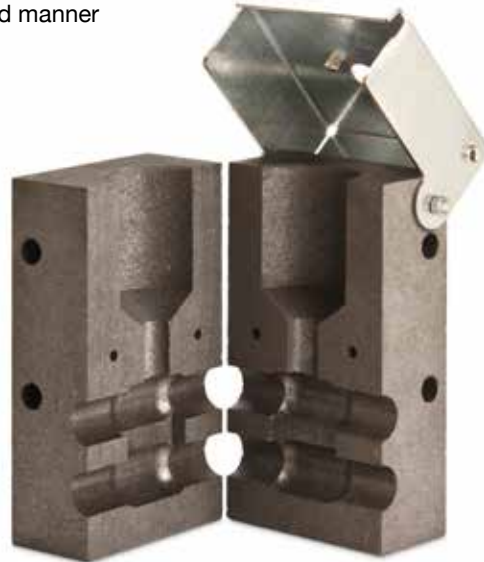
SPECIFIC MOULDS ONE MOULD FOR ONE CONNECTION

Description

Each mould makes a particular connection: one mould welds two defined conductors (cable to cable, cable to tape, tape to earth rod...), of a well-determined dimensions (50mm², 70mm², etc) and joined in a selected manner (straight, in cross or T shape...)

Features

- Each mould withstands an average of 80 welding.
- Consult references, accessories and required tablets in this guide (reference selection on pages 10-22) or use “specific mould selection” in our website.
- **Apliweld®** welding manual explains the correct procedures using specific moulds (download it in www.at3w.com).



SPECIFIC MOULDS

MULTIPLE MOULD ONE MOULD FOR SEVERAL CONNECTIONS

Description

System developed to make different connections using the same graphite mould (see multiple mould selection guide on page 21). The system allows either electronic (**Apliweld-E®**) or traditional (**AT-012N**) ignition.

Features

- Multiple mould is focused on horizontal T, cross and to earth rod weldings but in some cases also can make straight and parallel unions. It covers cables up to 95mm², up to 30mm width tapes and from 12 to 19mm diameter earth rods.
- The product is supplied in a suitcase that includes all the needed materials to carry out the welding except for the consumables (see page 21).
- Cavity sealers (**MM-CS**) are, together with tablets, these consumables. MM-CS is supplied in a 60 units bag. They form the hollow space for welding when placed according to the connection table (see page 21).
- Graphite pieces withstand at least 80 weldings.
- Multiple mould is the best solution if only a few common welding types are required, when the working features cannot be predicted, when conductor sizes are variable or in case of any unexpected connection during the installation.
- Consult the instructions sheet in all multiple mould references or download the **Apliweld®** manual in www.at3w.com



MULTIPLE MOULD

ACCESSORIES Clamps, cleaning tools, conductor fittings and others



AT-068N y AT-069N BASIC TOOL SETS

Description

Cleaning tool sets for conductors and moulds. Include safety gloves and sealing paste.

AT-069N Technical features and composition

- **AT-061N** Conductors cleaning brush.
- **AT-062N** Crucible and electronic starter cavity cleaning brush.
- **AT-063N** Slag spade.
- **AT-064N** Welding cavity cleaning brush.
- **AT-065N** Sealing paste (0.45 kg).
- **AT-073N** Safety gloves.
- Dimensions: 250x125x140mm.
- Weight: 1.000 grams.
- It is convenient to have a new set every 250 weldings

AT-068N



AT-068N includes the same references than described but also **AT-060N** Spark lighter, necessary in traditional starting powder ignition.



AT-049N HANDLE CLAMP S SIZE

Description

Accessory to lock mould halves together allowing mould safety handling when required. This is the most widely used clamp, suitable nearly in 80% of the connections.

Technical features

- Dimensions: 65x65x250 mm.
- Weight: 1.250 grams.
- Service life: Around 250 weldings

In connections to metallic surface (HT/HP type), the tool **AT-058N** should be used together with the clamp **AT-049N** for avoiding leakages.

AT-049N



AT-050N HANDLE CLAMP G SIZE

Description

Accessory similar to **AT-049N** but bigger in size handle clamp, valid for large conductors and some particular moulds like LO, XO, TO... types.

Technical features

- Dimensions: 80x80x275 mm.
- Weight: 1.470 grams.
- Service life: Around 250 weldings

In connections to metallic surface (HT/HP type), the tool **AT-058N** should be used together with the clamp **AT-050N** for avoiding leakages.

AT-050N





Miscellanea. Other clamps & tools

Description

Besides the referred references, there are many other accessories required for a determinate connection or just advisable to assure a good welding in some particular work conditions. Find all the references on page 22. The most regularly used accessories are described in this page:

AT-077N



AT-077N: Safety glasses. Recommendable in all works.

AT-065N



AT-065N: Sealing paste (0,45 kg). **AT-066N** (0,9 kg) and **AT-071N** (2,25 kg) are also available.

AT-051N



AT-051N: Clamp either for vertical metallic surface splices or along vertical rebar or earth rods.

MM-053N



MM-053N: Multiple mould clamp.

AT-054N



AT-054N: Head or web rail connection clamp.

AT-052N: Foot rail connection clamp is also available.

AT-059N



AT-059N: Holding cable clamp. This clamp should be used for cables under tension, keeping the conductors from springing the mold open or being pulled out during welding reaction.

Reference selection guide:

The following diagram describes how to achieve the correct references for the **Apliweld®** welding using the reference selection tables (pages 12 -20).


1

a Set the required connections and conductor types and sizes

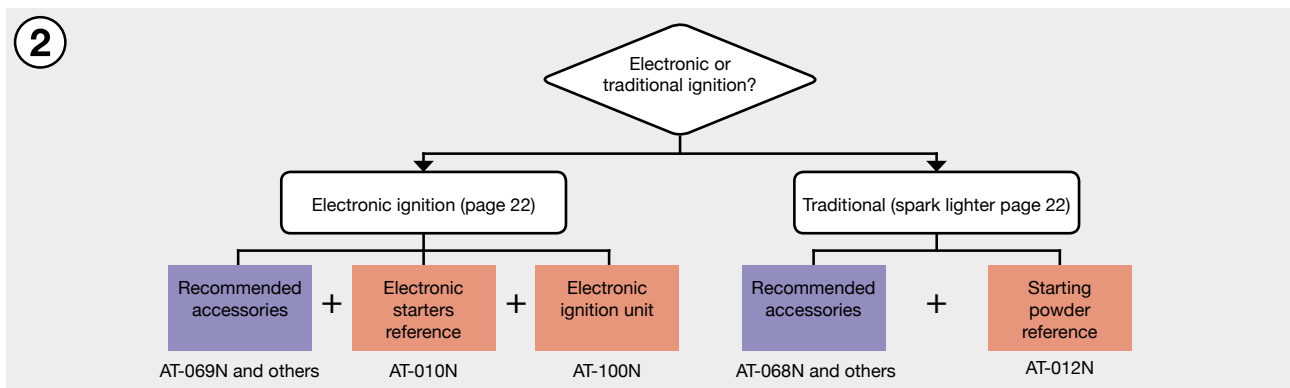
b Mould reference

c Tablet reference – Tablets per connection

d Correspondent handle clamp reference

1	Connection	Reference	Conductor 1	Conductor 2	Tab. ref.	Tab. / con.	Clamp
	LV	C35/C35/LV	Cable 35mm ²	Cable 35mm ²	AT-020N	1	AT-049N
		C50/C50/LV	Cable 50mm ²	Cable 50mm ²	AT-020N	1	AT-049N
		C70/C70/LV	Cable 70mm ²	Cable 70mm ²	AT-020N	1,5	AT-049N
		C95/C95/LV	Cable 95mm ²	Cable 95mm ²	AT-020N	2	AT-049N
		C120/C120/LV	Cable 120mm ²	Cable 120mm ²	AT-020N	2	AT-049N
		C150/C150/LV	Cable 150mm ²	Cable 150mm ²	AT-020N	2,5	AT-049N

*From Table 1 (page 12)



3 Set the correspondent quantities of each reference under the following criteria:

Reference	description	Usability
Graphite moulds	Specifics or multiple	80 weldings on average
AT-020N	Exothermic welding tablets	20 tablets per box
AT-021N	Exothermic welding tablets	20 tablets per box
AT-010N	Exothermic welding electronic starters	10 starters per box
AT-012N	Exothermic welding starting powder	10 starters per box
AT-049N	Handle clamp S size	250 weldings per clamp
AT-050N	Handle clamp G size	250 weldings per clamp
AT-068N	Basic tool kit	250 weldings per kit
AT-100N	Electronic ignition unit	10 years life span

- In order to get other accessories quantities please consult our technical department.
- Notice that in all references these quantities may change depending on the working conditions (if there is more than one installer team, more than one working places or any particular hard working area)
- Download in www.at3w the **Apliweld®** welding manual to increase and broaden information about products and how to use them.

• **Please contact us for any question.**



Selection example 1:

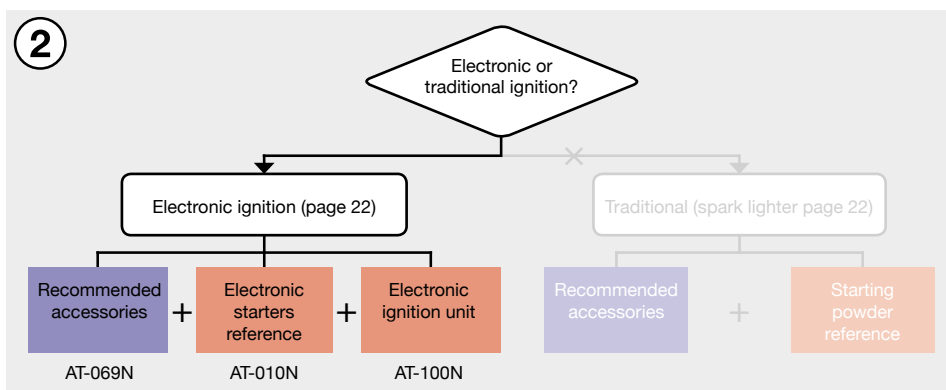
An installation requires 300 horizontal T shape weldings, between two 50mm² cables using the electronic ignition system.

Following the schema above:

1 **a** Set the required connections and conductor types and sizes **b** Mould reference **c** Tablet reference – Tablets per connection **d** Correspondent handle clamp reference

2	Connection	Reference	Conductor 1	Conductor 2	Tabls. ref.	Tabls/con.	Clamp
	TH	C35/C35/TH	Cable 35mm ²	Cable 35mm ²	AT-020N	1,5	AT-049N
		C50/C50/TH	Cable 50mm ²	Cable 50mm ²	AT-020N	2	AT-049N
		C70/C70/TH	Cable 70mm ²	Cable 70mm ²	AT-020N	2	AT-049N
		C95/C95/TH	Cable 95mm ²	Cable 95mm ²	AT-020N	2,5	AT-049N
		C120/C120/TH	Cable 120mm ²	Cable 120mm ²	AT-020N	3	AT-049N

*From table 2 (page 12)



3

With the data and the obtained references, the order should be as follows:

Reference	Units
C50/C50/TH	4
AT-020N	30
AT-010N	30
AT-049N	2
AT-069N	2
AT-100N	1

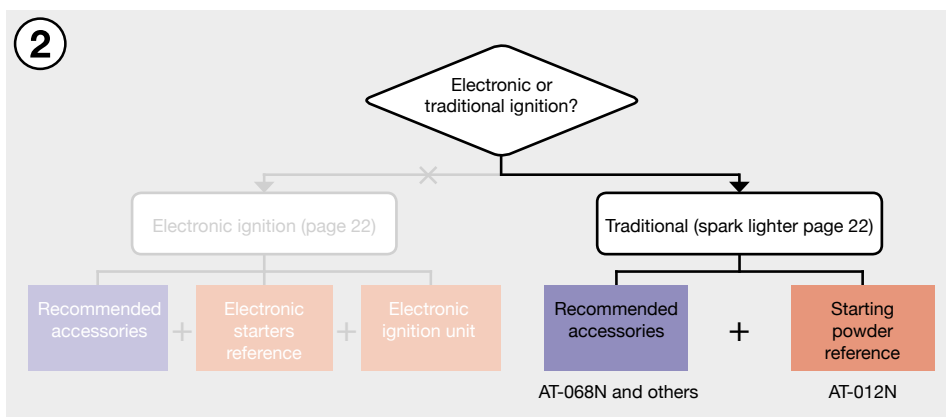
Selection example 2:

Two working groups have to make 450 weldings between 120mm² cables in cross shape using spark lighter ignition.

1 **a** Set the required connections and conductor types and sizes **b** Mould reference **c** Tablet reference – Tablets per connection **d** Correspondent handle clamp reference

3	Connection	Reference	Conductor 1	Conductor 2	Tabls. ref.	Tabls/con.	Clamp
	XH	C35/C35/XH	Cable 35mm ²	Cable 35mm ²	AT-020N	2	AT-049N
		C50/C50/XH	Cable 50mm ²	Cable 50mm ²	AT-020N	2	AT-049N
		C70/C70/XH	Cable 70mm ²	Cable 70mm ²	AT-020N	2,5	AT-049N
		C95/C95/XH	Cable 95mm ²	Cable 95mm ²	AT-020N	3	AT-049N
		C120/C120/XH	Cable 120mm ²	Cable 120mm ²	AT-020N	3,5	AT-049N

*From table 3 (page 13)



3

With the data and the obtained references, the order should be as follows:

Reference	Units
C120/C120/XS	6
AT-020N	113
AT-012N	45
AT-049N	2
AT-068N	3
AT-100N	2

Reference selection table: Suitable moulds, tablets and Clamps



Connection:
Drawing and union type code.
In tables where more than one connection appears, the correct mould reference is obtained changing the letters of the union type by the ones of the required connection.

Reference: Conductor 1 / Conductor 2 / Union type
Conductor 1: Conductor code
In case the conductors have different sections, then Conductor 1 will be the passing conductor.
Conductor 2: Conductor code
In case the conductors have different sections, then Conductor 1 will be the terminal conductor.

Tabs. ref: Tablet size reference
Tabs/con.: Tablets required per connection.

Clamp: Clamp reference for the mould either to lock it tightly and safety handling.
Remarks: Warnings and recommended accessories.


I.e.: If a T vertical mould for 240mm² cables is required, just turn C240/C240/TH to C240/C240/TV. Then tablets and accessories keep the same.



2	Connection	Reference	Conductor 1	Conductor 2	Tabs. ref	Tabs/con.	Clamp	Notes
TH		C35/C35/TH	Cable 35mm ²	Cable 35mm ²	AT-020N	1,5	AT-049N	
		C50/C50/TH	Cable 50mm ²	Cable 50mm ²	AT-020N	2	AT-049N	
		C70/C70/TH	Cable 70mm ²	Cable 70mm ²	AT-020N	2	AT-049N	
		C95/C95/TH	Cable 95mm ²	Cable 95mm ²	AT-020N	2,5	AT-049N	
		C120/C120/TH	Cable 120mm ²	Cable 120mm ²	AT-020N	3	AT-049N	
		C150/C150/TH	Cable 150mm ²	Cable 150mm ²	AT-020N	4	AT-049N	
		C185/C185/TH	Cable 185mm ²	Cable 185mm ²	AT-021N	2	AT-050N	
		C240/C240/TH	Cable 240mm ²	Cable 240mm ²	AT-021N	3	AT-050N	
		C50/C35/TH	Cable 50mm ²	Cable 35mm ²	AT-020N	1,5	AT-049N	
		C70/C35/TH	Cable 70mm ²	Cable 35mm ²	AT-020N	1,5	AT-049N	
TV		C240/C240/TV	Cable 240mm ²	Cable 240mm ²	AT-021N	2	AT-050N	

Most common connections:



Cable/Cable:	Tables 1-5	Cable/Metal surface:	Tables 12-13	Tape/Earth rod:	Table 19
Cable/Earth rod:	Tables 6-8	Tape/Tape:	Tables 14-16	Others:	Table 20
Cable/Rebar:	Tables 9-11	Cable/Tape:	Tables 17-18	Multiple mould:	Tables 21-23


CABLE/CABLE


1	Connection	Reference	Conductor 1	Conductor 2	Tabs. ref	Tabs/con.	Clamp	Notes
LV		C35/C35/LV	Cable 35mm ²	Cable 35mm ²	AT-020N	1	AT-049N	
		C50/C50/LV	Cable 50mm ²	Cable 50mm ²	AT-020N	1	AT-049N	
		C70/C70/LV	Cable 70mm ²	Cable 70mm ²	AT-020N	1,5	AT-049N	
		C95/C95/LV	Cable 95mm ²	Cable 95mm ²	AT-020N	2	AT-049N	
		C120/C120/LV	Cable 120mm ²	Cable 120mm ²	AT-020N	2	AT-049N	
		C150/C150/LV	Cable 150mm ²	Cable 150mm ²	AT-020N	2,5	AT-049N	
		C185/C185/LV	Cable 185mm ²	Cable 185mm ²	AT-021N	2	AT-050N	
		C240/C240/LV	Cable 240mm ²	Cable 240mm ²	AT-021N	2	AT-050N	

2	Connection	Reference	Conductor 1	Conductor 2	Tabs. ref	Tabs/con.	Clamp	Notes
TH		C35/C35/TH	Cable 35mm ²	Cable 35mm ²	AT-020N	1,5	AT-049N	
		C50/C50/TH	Cable 50mm ²	Cable 50mm ²	AT-020N	2	AT-049N	
		C70/C70/TH	Cable 70mm ²	Cable 70mm ²	AT-020N	2	AT-049N	
		C95/C95/TH	Cable 95mm ²	Cable 95mm ²	AT-020N	2,5	AT-049N	
		C120/C120/TH	Cable 120mm ²	Cable 120mm ²	AT-020N	3	AT-049N	
		C150/C150/TH	Cable 150mm ²	Cable 150mm ²	AT-020N	4	AT-049N	
		C185/C185/TH	Cable 185mm ²	Cable 185mm ²	AT-021N	2	AT-050N	
		C240/C240/TH	Cable 240mm ²	Cable 240mm ²	AT-021N	3	AT-050N	
		C50/C35/TH	Cable 50mm ²	Cable 35mm ²	AT-020N	1,5	AT-049N	
		C70/C35/TH	Cable 70mm ²	Cable 35mm ²	AT-020N	1,5	AT-049N	
TV		C70/C50/TH	Cable 70mm ²	Cable 50mm ²	AT-020N	2	AT-049N	
		C95/C35/TH	Cable 95mm ²	Cable 35mm ²	AT-020N	2	AT-049N	
		C95/C50/TH	Cable 95mm ²	Cable 50mm ²	AT-020N	2	AT-049N	
		C95/C70/TH	Cable 95mm ²	Cable 70mm ²	AT-020N	2,5	AT-049N	
		C120/C35/TH	Cable 120mm ²	Cable 35mm ²	AT-020N	2	AT-049N	
		C120/C50/TH	Cable 120mm ²	Cable 50mm ²	AT-020N	2,5	AT-049N	
		C120/C70/TH	Cable 120mm ²	Cable 70mm ²	AT-020N	3	AT-049N	
		C120/C95/TH	Cable 120mm ²	Cable 95mm ²	AT-020N	3	AT-049N	
		C150/C35/TH	Cable 150mm ²	Cable 35mm ²	AT-020N	2,5	AT-049N	
		C150/C50/TH	Cable 150mm ²	Cable 50mm ²	AT-020N	2,5	AT-049N	
		C150/C70/TH	Cable 150mm ²	Cable 70mm ²	AT-020N	3	AT-049N	
		C150/C95/TH	Cable 150mm ²	Cable 95mm ²	AT-020N	3,5	AT-049N	
		C150/C120/TH	Cable 150mm ²	Cable 120mm ²	AT-020N	3,5	AT-049N	



3 Connection	Reference	Conductor 1	Conductor 2	Tabs. ref	Tabs/con.	Clamp	Notes
	C35/C35/XH	Cable 35mm ²	Cable 35mm ²	AT-020N	2	AT-049N	
	C50/C50/XH	Cable 50mm ²	Cable 50mm ²	AT-020N	2	AT-049N	
	C70/C70/XH	Cable 70mm ²	Cable 70mm ²	AT-020N	2,5	AT-049N	
	C95/C95/XH	Cable 95mm ²	Cable 95mm ²	AT-020N	3	AT-049N	
	C120/C120/XH	Cable 120mm ²	Cable 120mm ²	AT-020N	3,5	AT-049N	
	C150/C150/XH	Cable 150mm ²	Cable 150mm ²	AT-020N	4,5	AT-049N	
	C185/C185/XH	Cable 185mm ²	Cable 185mm ²	AT-021N	3	AT-050N	
	C240/C240/XH	Cable 240mm ²	Cable 240mm ²	AT-021N	4	AT-050N	
	C50/C35/XH	Cable 50mm ²	Cable 35mm ²	AT-020N	2	AT-049N	
	C70/C35/XH	Cable 70mm ²	Cable 50mm ²	AT-020N	2,5	AT-049N	
	C70/C50/XH	Cable 70mm ²	Cable 50mm ²	AT-020N	2,5	AT-049N	
	C95/C35/XH	Cable 95mm ²	Cable 35mm ²	AT-020N	2,5	AT-049N	
	C95/C50/XH	Cable 95mm ²	Cable 50mm ²	AT-020N	2,5	AT-049N	
	C95/C70/XH	Cable 95mm ²	Cable 70mm ²	AT-020N	3	AT-049N	
	C120/C35/XH	Cable 120mm ²	Cable 35mm ²	AT-020N	2,5	AT-049N	
	C120/C50/XH	Cable 120mm ²	Cable 50mm ²	AT-020N	3	AT-049N	
	C120/C70/XH	Cable 120mm ²	Cable 70mm ²	AT-020N	3	AT-049N	
	C120/C95/XH	Cable 120mm ²	Cable 95mm ²	AT-020N	3,5	AT-049N	
	C150/C35/XH	Cable 150mm ²	Cable 35mm ²	AT-020N	3	AT-049N	
	C150/C50/XH	Cable 150mm ²	Cable 50mm ²	AT-020N	3,5	AT-049N	
	C150/C70/XH	Cable 150mm ²	Cable 70mm ²	AT-020N	3,5	AT-049N	
	C150/C95/XH	Cable 150mm ²	Cable 95mm ²	AT-020N	3,5	AT-049N	
C150/C120/XH	Cable 150mm ²	Cable 120mm ²	AT-020N	4,5	AT-049N		



4 Connection	Reference	Conductor 1	Conductor 2	Tabs. ref	Tabs/con.	Clamp	Notes
	C35/C35/PV	Cable 35mm ²	Cable 35mm ²	AT-020N	2	AT-049N	
	C50/C50/PV	Cable 50mm ²	Cable 50mm ²	AT-020N	2	AT-049N	
	C70/C70/PV	Cable 70mm ²	Cable 70mm ²	AT-020N	2,5	AT-049N	
	C95/C95/PV	Cable 95mm ²	Cable 95mm ²	AT-020N	3,5	AT-049N	
	C120/C120/PV	Cable 120mm ²	Cable 120mm ²	AT-020N	4	AT-049N	
	C150/C150/PV	Cable 150mm ²	Cable 150mm ²	AT-020N	5	AT-049N	
	C185/C185/PV	Cable 185mm ²	Cable 185mm ²	AT-021N	3	AT-050N	
	C240/C240/PV	Cable 240mm ²	Cable 240mm ²	AT-021N	4	AT-050N	

5 Connection	Reference	Conductor 1	Conductor 2	Tabs. ref	Tabs/con.	Clamp	Notes
	C35/C35/XS	Cable 35mm ²	Cable 35mm ²	AT-020N	2,5	AT-049N	
	C50/C50/XS	Cable 50mm ²	Cable 50mm ²	AT-020N	3	AT-049N	
	C70/C70/XS	Cable 70mm ²	Cable 70mm ²	AT-020N	4	AT-049N	
	C95/C95/XS	Cable 95mm ²	Cable 95mm ²	AT-020N	4	AT-049N	
	C120/C120/XS	Cable 120mm ²	Cable 120mm ²	AT-020N	5	AT-049N	
	C150/C150/XS	Cable 150mm ²	Cable 150mm ²	AT-020N	5	AT-049N	
	C185/C185/XS	Cable 185mm ²	Cable 185mm ²	AT-021N	4	AT-050N	
	C240/C240/XS	Cable 240mm ²	Cable 240mm ²	AT-021N	5	AT-050N	
	C50/C35/XS	Cable 50mm ²	Cable 35mm ²	AT-020N	3	AT-049N	
	C70/C35/XS	Cable 70mm ²	Cable 50mm ²	AT-020N	3	AT-049N	
	C70/C50/XS	Cable 70mm ²	Cable 50mm ²	AT-020N	3,5	AT-049N	
	C95/C35/XS	Cable 95mm ²	Cable 35mm ²	AT-020N	3	AT-049N	
	C95/C50/XS	Cable 95mm ²	Cable 50mm ²	AT-020N	3,5	AT-049N	
	C95/C70/XS	Cable 95mm ²	Cable 70mm ²	AT-020N	4	AT-049N	
	C120/C35/XS	Cable 120mm ²	Cable 35mm ²	AT-020N	4	AT-049N	
	C120/C50/XS	Cable 120mm ²	Cable 50mm ²	AT-020N	4,5	AT-049N	
	C120/C70/XS	Cable 120mm ²	Cable 70mm ²	AT-020N	5	AT-049N	
	C120/C95/XS	Cable 120mm ²	Cable 95mm ²	AT-020N	5	AT-049N	
	C150/C35/XS	Cable 150mm ²	Cable 35mm ²	AT-020N	4	AT-049N	
	C150/C50/XS	Cable 150mm ²	Cable 50mm ²	AT-020N	4,5	AT-049N	
C150/C70/XS	Cable 150mm ²	Cable 70mm ²	AT-020N	5	AT-049N		
C150/C95/XS	Cable 150mm ²	Cable 95mm ²	AT-020N	5	AT-049N		
C150/C120/XS	Cable 150mm ²	Cable 120mm ²	AT-020N	5	AT-049N		

CABLE/ROD

If more than one connection appears in a table, change (if necessary) the union type code into the required one to get the right reference.



Example: If a TT vertical mould is needed for 50mm² cable to Ø 14,3 mm rod, then the reference will be C50/T14/TT (instead of C50/T14/TV). The number of tablets and other accessories will be the same.


6	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. / con.	Clamp	Notes
TV		C35/T14/TV	Cable 35mm ²	Rod Ø 14.3mm	AT-020N	2	AT-049N	
		C35/T16/TV	Cable 35mm ²	Rod Ø 15.9mm	AT-020N	2	AT-049N	
		C50/T14/TV	Cable 50mm ²	Rod Ø 14.3mm	AT-020N	2	AT-049N	
		C50/T16/TV	Cable 50mm ²	Rod Ø 15.9mm	AT-020N	2	AT-049N	
		C50/T17/TV	Cable 50mm ²	Rod Ø 17.2mm	AT-020N	2,5	AT-049N	
TT		C50/T18/TV	Cable 50mm ²	Rod Ø 18.3mm	AT-020N	2,5	AT-049N	
		C50/T19/TV	Cable 50mm ²	Rod Ø 19mm	AT-020N	2,5	AT-049N	
		C70/T14/TV	Cable 70mm ²	Rod Ø 14.3mm	AT-020N	2,5	AT-049N	
		C70/T16/TV	Cable 70mm ²	Rod Ø 15.9mm	AT-020N	2,5	AT-049N	
		C70/T17/TV	Cable 70mm ²	Rod Ø 17.2mm	AT-020N	2,5	AT-049N	
		C70/T18/TV	Cable 70mm ²	Rod Ø 18.3mm	AT-020N	2,5	AT-049N	
		C70/T19/TV	Cable 70mm ²	Rod Ø 19mm	AT-020N	3	AT-049N	
		C95/T14/TV	Cable 95mm ²	Rod Ø 14.3mm	AT-020N	2,5	AT-049N	
		C95/T16/TV	Cable 95mm ²	Rod Ø 15.9mm	AT-020N	2,5	AT-049N	
		C95/T17/TV	Cable 95mm ²	Rod Ø 17.2mm	AT-020N	2,5	AT-049N	
		C95/T18/TV	Cable 95mm ²	Rod Ø 18.3mm	AT-020N	3	AT-049N	
		C95/T19/TV	Cable 95mm ²	Rod Ø 19mm	AT-020N	3	AT-049N	
		C120/T17/TV	Cable 120mm ²	Rod Ø 17.2mm	AT-020N	3	AT-049N	
		C120/T18/TV	Cable 120mm ²	Rod Ø 18.3mm	AT-020N	3	AT-049N	
		C120/T19/TV	Cable 120mm ²	Rod Ø 19mm	AT-020N	3,5	AT-049N	
		C120/T20/TV	Cable 120mm ²	Rod Ø 20mm	AT-020N	3,5	AT-049N	
		C120/T22/TV	Cable 120mm ²	Rod Ø 22mm	AT-020N	4	AT-049N	
		C120/T25/TV	Cable 120mm ²	Rod Ø 25mm	AT-020N	4,5	AT-049N	
		C150/T17/TV	Cable 150mm ²	Rod Ø 17.2mm	AT-020N	4	AT-049N	
		C150/T18/TV	Cable 150mm ²	Rod Ø 18.3mm	AT-020N	4	AT-049N	
		C150/T19/TV	Cable 150mm ²	Rod Ø 19mm	AT-020N	4,5	AT-049N	
		C150/T20/TV	Cable 150mm ²	Rod Ø 20mm	AT-020N	4,5	AT-049N	
		C150/T22/TV	Cable 150mm ²	Rod Ø 22mm	AT-020N	4,5	AT-049N	
		C150/T25/TV	Cable 150mm ²	Rod Ø 25mm	AT-020N	5	AT-049N	
		C185/T19/TV	Cable 185mm ²	Rod Ø 19mm	AT-021N	2	AT-050N	
C185/T20/TV	Cable 185mm ²	Rod Ø 20mm	AT-021N	2	AT-050N			
C185/T22/TV	Cable 185mm ²	Rod Ø 22mm	AT-021N	3	AT-050N			
C185/T25/TV	Cable 185mm ²	Rod Ø 25mm	AT-021N	3	AT-050N			
C240/T19/TV	Cable 240mm ²	Rod Ø 19mm	AT-021N	3	AT-050N			
C240/T20/TV	Cable 240mm ²	Rod Ø 20mm	AT-021N	3	AT-050N			
C240/T22/TV	Cable 240mm ²	Rod Ø 22mm	AT-021N	3	AT-050N			
C240/T25/TV	Cable 240mm ²	Rod Ø 25mm	AT-021N	3	AT-050N			

CABLE/RE-BAR


If more than one connection appears in a table, change (if necessary) the union type code into the required one to get the right reference.

I.e.: If a PT mould for 35mm² tap cable to Ø 10mm run rebar is required, just turn C35/V10/PV to C35/V10/PT. Then tablets and accessories keep the same.

9	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. con.	Clamp	Notes
		C35/V10/PV	Cable 35mm ²	Re-bar Ø 10mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C35/V12/PV	Cable 35mm ²	Re-bar Ø 12mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C35/V16/PV	Cable 35mm ²	Re-bar Ø 16mm	AT-020N	1,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C35/V20/PV	Cable 35mm ²	Re-bar Ø 20mm	AT-020N	1,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C35/V25/PV	Cable 35mm ²	Re-bar Ø 25mm	AT-020N	1,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V10/PV	Cable 50mm ²	Re-bar Ø 10mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V12/PV	Cable 50mm ²	Re-bar Ø 12mm	AT-020N	2,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V16/PV	Cable 50mm ²	Re-bar Ø 16mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V20/PV	Cable 50mm ²	Re-bar Ø 20mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V25/PV	Cable 50mm ²	Re-bar Ø 25mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V10/PV	Cable 70mm ²	Re-bar Ø 10mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V12/PV	Cable 70mm ²	Re-bar Ø 12mm	AT-020N	2,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V16/PV	Cable 70mm ²	Re-bar Ø 16mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V20/PV	Cable 70mm ²	Re-bar Ø 20mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V25/PV	Cable 70mm ²	Re-bar Ø 25mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V10/PV	Cable 95mm ²	Re-bar Ø 10mm	AT-020N	2,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V12/PV	Cable 95mm ²	Re-bar Ø 12mm	AT-020N	3	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V16/PV	Cable 95mm ²	Re-bar Ø 16mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V20/PV	Cable 95mm ²	Re-bar Ø 20mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V25/PV	Cable 95mm ²	Re-bar Ø 25mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N

10	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. con.	Clamp	Notes
		C35/V10/XS	Cable 35mm ²	Re-bar Ø 10mm	AT-020N	3	AT-049N	Requires sealing paste AT-065N or AT-066N
		C35/V12/XS	Cable 35mm ²	Re-bar Ø 12mm	AT-020N	3,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C35/V16/XS	Cable 35mm ²	Re-bar Ø 16mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C35/V20/XS	Cable 35mm ²	Re-bar Ø 20mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C35/V25/XS	Cable 35mm ²	Re-bar Ø 25mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V10/XS	Cable 50mm ²	Re-bar Ø 10mm	AT-020N	3	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V12/XS	Cable 50mm ²	Re-bar Ø 12mm	AT-020N	3,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V16/XS	Cable 50mm ²	Re-bar Ø 16mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V20/XS	Cable 50mm ²	Re-bar Ø 20mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C50/V25/XS	Cable 50mm ²	Re-bar Ø 25mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V10/XS	Cable 70mm ²	Re-bar Ø 10mm	AT-020N	3,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V12/XS	Cable 70mm ²	Re-bar Ø 12mm	AT-020N	4	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V16/XS	Cable 70mm ²	Re-bar Ø 16mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V20/XS	Cable 70mm ²	Re-bar Ø 20mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C70/V25/XS	Cable 70mm ²	Re-bar Ø 25mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V10/XS	Cable 95mm ²	Re-bar Ø 10mm	AT-020N	3,5	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V12/XS	Cable 95mm ²	Re-bar Ø 12mm	AT-020N	4	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V16/XS	Cable 95mm ²	Re-bar Ø 16mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V20/XS	Cable 95mm ²	Re-bar Ø 20mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
		C95/V25/XS	Cable 95mm ²	Re-bar Ø 25mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N









11	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. / con.	Clamp	Notes
	TH	C35/V10/TH	Cable 35mm ²	Re-bar Ø 10mm	AT-020N	2	AT-049N	Requires sealing paste AT-065N or AT-066N
	C35/V12/TH	Cable 35mm ²	Re-bar Ø 12mm	AT-020N	2,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C35/V16/TH	Cable 35mm ²	Re-bar Ø 16mm	AT-020N	3	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C35/V20/TH	Cable 35mm ²	Re-bar Ø 20mm	AT-020N	3,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C35/V25/TH	Cable 35mm ²	Re-bar Ø 25mm	AT-020N	4	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C50/V10/TH	Cable 50mm ²	Re-bar Ø 10mm	AT-020N	2,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C50/V12/TH	Cable 50mm ²	Re-bar Ø 12mm	AT-020N	2,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C50/V16/TH	Cable 50mm ²	Re-bar Ø 16mm	AT-020N	3	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C50/V20/TH	Cable 50mm ²	Re-bar Ø 20mm	AT-020N	3,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C50/V25/TH	Cable 50mm ²	Re-bar Ø 25mm	AT-020N	4,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C70/V10/TH	Cable 70mm ²	Re-bar Ø 10mm	AT-020N	2,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C70/V12/TH	Cable 70mm ²	Re-bar Ø 12mm	AT-020N	2,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C70/V16/TH	Cable 70mm ²	Re-bar Ø 16mm	AT-020N	4	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C70/V20/TH	Cable 70mm ²	Re-bar Ø 20mm	AT-020N	4,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C70/V25/TH	Cable 70mm ²	Re-bar Ø 25mm	AT-020N	5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C95/V10/TH	Cable 95mm ²	Re-bar Ø 10mm	AT-020N	3	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C95/V12/TH	Cable 95mm ²	Re-bar Ø 12mm	AT-020N	3,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C95/V16/TH	Cable 95mm ²	Re-bar Ø 16mm	AT-020N	4	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C95/V20/TH	Cable 95mm ²	Re-bar Ø 20mm	AT-020N	4,5	AT-049N	Requires sealing paste AT-065N or AT-066N	
	C95/V25/TH	Cable 95mm ²	Re-bar Ø 25mm	AT-020N	5	AT-049N	Requires sealing paste AT-065N or AT-066N	

CABLE/METAL SURFACE

If more than one connection appears in a table, change (if necessary) the union type code into the required one to get the right reference.

I.e.: If a HP mould for run 35mm² cable over horizontal metal surface is required, just turn C35/M/HT to C35/M/HP. Then tablets and accessories keep the same.

12	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. con.	Clamp	Notes
 HT		C35/M/HT	Cable 35mm ²	Metal surface	AT-020N	1,5	AT-049N	Advisable AT-058N clamp for assuring connection
		C50/M/HT	Cable 50mm ²	Metal surface	AT-020N	2	AT-049N	Advisable AT-058N clamp for assuring connection
		C70/M/HT	Cable 70mm ²	Metal surface	AT-020N	2	AT-049N	Advisable AT-058N clamp for assuring connection
		C95/M/HT	Cable 95mm ²	Metal surface	AT-020N	2	AT-049N	Advisable AT-058N clamp for assuring connection
 HP		C120/M/HT	Cable 120mm ²	Metal surface	AT-020N	2,5	AT-049N	Advisable AT-058N clamp for assuring connection
		C150/M/HT	Cable 150mm ²	Metal surface	AT-020N	2,5	AT-049N	Advisable AT-058N clamp for assuring connection
		C185/M/HT	Cable 185mm ²	Metal surface	AT-021N	2	AT-050N	Advisable AT-058N clamp for assuring connection
		C240/M/HT	Cable 240mm ²	Metal surface	AT-021N	2	AT-050N	Advisable AT-058N clamp for assuring connection


13	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. con.	Clamp	Notes
 VTB		C35/M/VTB	Cable 35mm ²	Metal surface	AT-020N	2	AT-051N	Requires sealing paste AT-065N or AT-066N
		C50/M/VTB	Cable 50mm ²	Metal surface	AT-020N	2	AT-051N	Requires sealing paste AT-065N or AT-066N
		C70/M/VTB	Cable 70mm ²	Metal surface	AT-020N	2	AT-051N	Requires sealing paste AT-065N or AT-066N
		C95/M/VTB	Cable 95mm ²	Metal surface	AT-020N	2,5	AT-051N	Requires sealing paste AT-065N or AT-066N
		C120/M/VTB	Cable 120mm ²	Metal surface	AT-020N	2,5	AT-051N	Requires sealing paste AT-065N or AT-066N
 VPV		C150/M/VTB	Cable 150mm ²	Metal surface	AT-020N	2,5	AT-051N	Requires sealing paste AT-065N or AT-066N
		C185/M/VTB	Cable 185mm ²	Metal surface	AT-021N	2	AT-050N	Requires sealing paste AT-065N or AT-066N
 VTH		C240/M/VTB	Cable 240mm ²	Metal surface	AT-021N	2	AT-050N	Requires sealing paste AT-065N or AT-066N
 VPH								

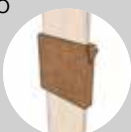


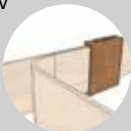
TAPE/TAPE

If more than one connection appears in a table, change (if necessary) the union type code into the required one to get the right reference.

I.e.: If a LH mould for horizontal 30x2mm tape to tape is required, just turn P302/P302/LV to P302/P302/LH. Then tablets and accessories keep the same.

14	Connection	Reference	Conductor 1	Conductor 2	Tabs. ref	Tabs/con.	Clamp	Notes
LV 		P302/P302/LV	Tape 30x2mm	Tape 30x2mm	AT-020N	2	AT-049N	
		P253/P253/LV	Tape 25x3mm	Tape 25x3mm	AT-020N	1,5	AT-049N	
		P305/P305/LV	Tape 30x5mm	Tape 30x5mm	AT-020N	2,5	AT-049N	
		P405/P405/LV	Tape 40x5mm	Tape 40x5mm	AT-020N	3,5	AT-049N	
		P605/P605/LV	Tape 60x5mm	Tape 60x5mm	AT-021N	3	AT-050N	
LH								


15	Connection	Reference	Conductor 1	Conductor 2	Tabs. ref	Tabs/con.	Clamp	Notes
LO 		P302/P302/LO	Tape 30x2mm	Tape 30x2mm	AT-020N	3	AT-050N	
		P253/P253/LO	Tape 25x3mm	Tape 25x3mm	AT-020N	3	AT-050N	
		P305/P305/LO	Tape 30x5mm	Tape 30x5mm	AT-020N	4,5	AT-050N	
		P405/P405/LO	Tape 40x5mm	Tape 40x5mm	AT-020N	4,5	AT-050N	
		P605/P605/LO	Tape 60x5mm	Tape 60x5mm	AT-020N	5	AT-050N	
TO								



16	Connection	Reference	Conductor 1	Conductor 2	Tabs. ref	Tabs/con.	Clamp	Notes
PV 		P302/P302/PV	Tape 30x2mm	Tape 30x2mm	AT-020N	2,5	AT-049N	
		P253/P253/PV	Tape 25x3mm	Tape 25x3mm	AT-020N	2	AT-049N	
		P305/P305/PV	Tape 30x5mm	Tape 30x5mm	AT-020N	3	AT-049N	
		P405/P405/PV	Tape 40x5mm	Tape 40x5mm	AT-020N	5	AT-049N	
		P605/P605/PV	Tape 60x5mm	Tape 60x5mm	AT-021N	4	AT-050N	

CABLE/TAPE


If more than one connection appears in a table, change (if necessary) the union type code into the required one to get the right reference.

I.e.: If a TH mould for run 30x2mm² tape to tap 50mm² cable is required, just turn C50/P302/LH to C50/P302/TH. Then tablets and accessories keep the same.



17	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. con.	Clamp	Notes
	TH	C35/P302/TH	Cable 35mm ²	Tape 30x2mm	AT-020N	1,5	AT-049N	
		C50/P302/TH	Cable 50mm ²	Tape 30x2mm	AT-020N	2,5	AT-049N	
		C70/P302/TH	Cable 70mm ²	Tape 30x2mm	AT-020N	2,5	AT-049N	
		C35/P253/TH	Cable 35mm ²	Tape 25x3mm	AT-020N	1,5	AT-049N	
		C50/P253/TH	Cable 50mm ²	Tape 25x3mm	AT-020N	2,5	AT-049N	
		C70/P253/TH	Cable 70mm ²	Tape 25x3mm	AT-020N	2,5	AT-049N	
		C70/P305/TH	Cable 70mm ²	Tape 30x5mm	AT-020N	2,5	AT-049N	
		C95/P305/TH	Cable 70mm ²	Tape 30x5mm	AT-020N	2,5	AT-049N	
		C120/P305/TH	Cable 120mm ²	Tape 30x5mm	AT-020N	2,5	AT-049N	
		C150/P305/TH	Cable 150mm ²	Tape 30x5mm	AT-020N	2,5	AT-049N	
		C150/P605/TH	Cable 150mm ²	Tape 30x5mm	AT-020N	5	AT-049N	
		C185/P605/TH	Cable 150mm ²	Tape 30x5mm	AT-021N	2	AT-050N	
		C240/P605/TH	Cable 150mm ²	Tape 30x5mm	AT-021N	3	AT-050N	

18	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. con.	Clamp	Notes
 	LH	P302/C35/LH	Cable 35mm ²	Tape 30x2mm	AT-020N	1	AT-049N	
		P302/C50/LH	Cable 50mm ²	Tape 30x2mm	AT-020N	2	AT-049N	
		P302/C70/LH	Cable 70mm ²	Tape 30x2mm	AT-020N	2	AT-049N	
		P253/C35/LH	Cable 35mm ²	Tape 25x3mm	AT-020N	1,5	AT-049N	
		P302/C35/LH	Cable 35mm ²	Tape 30x2mm	AT-020N	1	AT-049N	
	TH	P302/C50/LH	Cable 50mm ²	Tape 30x2mm	AT-020N	2	AT-049N	
		P302/C70/LH	Cable 70mm ²	Tape 30x2mm	AT-020N	2	AT-049N	
		P253/C35/LH	Cable 35mm ²	Tape 25x3mm	AT-020N	1,5	AT-049N	
		P253/C50/LH	Cable 50mm ²	Tape 25x3mm	AT-020N	2	AT-049N	
		P253/C70/LH	Cable 70mm ²	Tape 25x3mm	AT-020N	2	AT-049N	
		P305/C70/LH	Cable 70mm ²	Tape 30x5mm	AT-020N	2	AT-049N	
		P305/C95/LH	Cable 70mm ²	Tape 30x5mm	AT-020N	2,5	AT-049N	
		P305/C120/LH	Cable 120mm ²	Tape 30x5mm	AT-020N	2,5	AT-049N	
		P305/C150/LH	Cable 150mm ²	Tape 30x5mm	AT-020N	2,5	AT-049N	
		P605/C150/LH	Cable 150mm ²	Tape 30x5mm	AT-020N	5	AT-049N	
		P605/C185/LH	Cable 150mm ²	Tape 30x5mm	AT-021N	2	AT-050N	
		P605/C240/LH	Cable 150mm ²	Tape 30x5mm	AT-021N	3	AT-050N	

TAPE/ROD

19	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. con.	Clamp	Notes
	TV	P302/T14/TV	Tape 30x2mm	Rod Ø 14.3mm	AT-020N	3	AT-049N	
		P302/T16/TV	Tape 30x2mm	Rod Ø 15.9mm	AT-020N	3	AT-049N	
		P302/T18/TV	Tape 30x2mm	Rod Ø 18.3mm	AT-020N	3,5	AT-049N	
		P253/T14/TV	Tape 25x3mm	Rod Ø 14.3mm	AT-020N	2,5	AT-049N	
		P253/T16/TV	Tape 25x3mm	Rod Ø 15.9mm	AT-020N	3	AT-049N	
		P253/T18/TV	Tape 25x3mm	Rod Ø 18.3mm	AT-020N	3	AT-049N	

OTHER

20	Connection	Reference	Conductor 1	Conductor 2	Tab. ref	Tab. con.	Clamp	Notes
	HT	C35/B/HT	Cable 35mm ²	Metal surface	AT-020N	1,5	AT-049N	Consult before any order
		C50/B/HT	Cable 50mm ²	Metal surface	AT-020N	2	AT-049N	Consult before any order
		C70/B/HT	Cable 70mm ²	Metal surface	AT-020N	2	AT-049N	Consult before any order
		C95/B/HT	Cable 95mm ²	Metal surface	AT-020N	2,5	AT-049N	Consult before any order
		C120/B/HT	Cable 120mm ²	Metal surface	AT-020N	2,5	AT-049N	Consult before any order
	HP	C150/B/HT	Cable 150mm ²	Metal surface	AT-020N	3	AT-049N	Consult before any order
		C185/B/HT	Cable 185mm ²	Metal surface	AT-021N	NA	AT-050N	Consult before any order
		C240/B/HT	Cable 240mm ²	Metal surface	AT-021N	NA	AT-050N	Consult before any order



Multiple mould selection guide:

Multiple mould is normally supplied in a case under the general reference **MM-CTX** where “X” corresponds to the required earth rod diameter. Find also listed all other references related to the multiple mould, which are the case elements separately and the basic multiple mould kits.

21	Reference	Description	Notes
	MM-CT14	Multiple mould case for Ø 14,3mm earth rod	See description on table 22
	MM-CT16	Multiple mould case for Ø 16 mm earth rod	See description on table 22
	MM-CT17	Multiple mould case for Ø 17,2 mm earth rod	See description on table 22
	MM-CT18	Multiple mould case for Ø 18,3 mm earth rod	See description on table 22
	MM-CT19	Multiple mould case for Ø 19 mm earth rod	See description on table 22
	MM-BT14	Basic multiple mould kit for Ø 14,3 earth rod	Includes crucible, clamp and lower pieces
	MM-BT16	Basic multiple mould kit for Ø 16 earth rod	Includes crucible, clamp and lower pieces
	MM-BT17	Basic multiple mould kit for Ø 17,2 earth rod	Includes crucible, clamp and lower pieces
	MM-BT18	Basic multiple mould kit for Ø 18,3 earth rod	Includes crucible, clamp and lower pieces
	MM-BT19	Basic multiple mould kit for Ø 19 earth rod	Includes crucible, clamp and lower pieces
	MM-053N	Multiple mould clamp	Included in all MM-CTX and MM-BTX kits (*)
	MM-CS	Cavity sealers (60 units)	2 included in all MM-CTX
	MM-PH	Lower piece for cables and tapes welding	Included in all MM-CTX and MM-BTX kits
	MM-PT14	Lower piece for Ø 14.3 mm earth rod	Included in MM-CT14 and MM-BT14
	MM-PT16	Lower piece for Ø 16 mm earth rod	Included in MM-CT16 and MM-BT16
	MM-PT17	Lower piece for Ø 17,2 mm earth rod	Included in MM-CT17 and MM-BT17
	MM-PT18	Lower piece for Ø 18,3 mm earth rod	Included in MM-CT18 and MM-BT18
	MM-PT19	Lower piece for Ø 19 mm earth rod	Included in MM-CT19 and MM-BT19
	MM-T	Multiple mould crucible	Included in all MM-CTX y MM-BTX
	AT-082N	Vertical stand pliers	Included in all MM-CTX

(*) X = 14, 16, 17, 18 y 19

References included in every MM-CTX case

22	Code	Description	Units
	MM-PTX	Lower piece for earth rod with diameter “X”*	1
	MM-053N	Multiple mould clamp	1
	MM-T	Multiple mould crucible	1
	MM-PH	Lower piece for cables and tapes welding	1
	MM-CS	Cavity sealers (60 units)	2
	AT-080N	Multiple mould case	1
	AT-060N	Flint igniter (for powder starter)	1
	AT-061N	Conductors cleaning brush	1
	AT-062N	Crucible and electronic starter cavity cleaning brush	1
	AT-063N	Slag spade	1
	AT-064N	Welding cavity cleaning brush	1
	AT-065N	Sealing paste (0.45 kg)	1
	AT-073N	Safety gloves	1
	AT-082N	Vertical stand pliers for rod welding	1

(*) X = 14, 16, 17, 18 y 19

All pieces may be supplied separately or as spare parts.

The following table describes the appropriate number of tablets and cavity sealers for any connection and how to place them:

23	Conductor 1		Conductor 2		Union	Tablets	CS	CS/Layers
Cable	Up to 70mm ²	Cable	Up to 70mm ²	T horizontal	2	2	1+1	
Cable	Up to 95mm ²	Cable	Up to 95mm ²	T horizontal	2,5	4	2+2	
Cable	Up to 50mm ²	Cable	Up to 50mm ²	Cross	2	3	1+1+1	
Cable	70mm ²	Cable	70mm ²	Cross	2,5	4	1+2+1	
Cable	95mm ²	Cable	Up to 50mm ²	Cross	2,5	6	2+2+2	
Cable	Up to 70mm ²	Rod Ø	Any	T vertical	2	2	1+1	
Cable	95mm ²	Rod Ø	Any	T vertical	2,5	4	2+2	
Tape	Any	Tape	Any	T/cross	2	3	1+1+1	
Tape	Any	Rod Ø	Any	T	2	2	1+1	

- CS = Cavity Sealers.
- CS/layer: Number of sealers between layers of conductors. Ex.:1+1 means placing first one CS, then the conductors to be welded and on them the other CS
- Besides the described ones, straight weldings are possible for all combinations. They require 2 tablets except for 95mm² cable which requires 2,5 tablets.

- For re-bar connections use the following equivalence: C70 = V10, C95=V12
- For cable to tape joints, tape is equivalent to cable up to 50mm²
- Parallel connections are possible for cables up to 50mm². They all require 2,5 tablets with 1+2+2 CS
- For any other required but not described connection please consult us.

Apliweld® Secure + reference list

Apliweld®-T tablet references

24	Reference	Description	Notes
	AT-020N	20 standard Apliweld® tablets	
	AT-021N	20 large format Apliweld® tablets	

References for the use of electronic ignition **Apliweld®-E**

25	Reference	Description	Notes
	AT-100N	Electronic ignition kit	
	AT-010N	10 electronic starter	
	AT-069N	Basic tool set Apliweld®-E	
	AT-096N	Electronic ignition device (without accessories)	Included in AT-100N
	AT-098N	Standard cable for the ignition device (2m)	Included in AT-100N
	AT-099N	5 spare clamps (for AT098N standard cable end)	Included in AT-100N
	AT-101N	Battery charger for the electronic ignition device	Included in AT-100N

References for traditional ignition

26	Reference	Description	Notes
	AT-012N	10 units starting powder	
	AT-068N	Basic tool set Apliweld® with flint igniter	

References of clamps and clamps accessories

27	Reference	Description	Notes
	AT-049N	Type S handle clamp	
	AT-050N	Type G handle clamp	
	AT-051N	Vertical surface or rebar moulds clamp	
	AT-052N	Clamp Rail foot moulds clamp	
	AT-054N	Clamp for weldings rail head or rail web moulds clamp	
	AT-058N	Horizontal surface moulds handle clamp attachment	
	AT-059N	Holding cable clamp	

Other accessories and tools

28	Reference	Description	Notes
	AT-060N	Flint igniter (for powder starter)	Included in AT-068N
	AT-061N	Conductors cleaning brush	Included in AT-069N and AT-068N
	AT-062N	Crucible and electronic starter cavity cleaning brush	Included in AT-069N and AT-068N
	AT-063N	Slag spade	Included in AT-069N and AT-068N
	AT-064N	Welding cavity cleaning brush	Included in AT-069N and AT-068N
	AT-065N	Sealing paste (0.45 Kg)	Included in AT-069N and AT-068N
	AT-066N	Sealing paste (0.9 Kg)	
	AT-070N	10 Flint gun renewal	
	AT-071N	Sealing paste (2.25 Kg)	
	AT-072N	25 Cable Adapter sleeves (0.3mm)	
	AT-073N	Safety gloves	Included in AT-069N and AT-068N
	AT-074N	Flint igniter extension	
	AT-075N	Blow torch for moulds pre-heating	
	AT-076N	Spare multigas cartridge for the blow torch	
	AT-077N	Safety glasses	
	AT-080N	Tool box	Included in MM-CTX multiple moulds
	AT-081N	Case for tool transport Tool box	
	AT-083N	Ceramic tray	
	AT-092N	Double brush for conductors cleaning	
	AT-093N	Double brush replacements	
	AT-094N	Rasp for surface + replacement	

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