

Guillotine notching plier for cutting the heating zone between the conductors of oblong self-regulating cables



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| Use | Notch width | Cables styles | | Type |
|---|-----------------------|---|----------|------|
| Workshop or field | 1.5mm 2mm 3.3mm | Oblongs, self-regulating | | |
| | | | 6YTTL05A | |
| | | | 6YTTL05B | |
| | | | 6YTTL05C | |
| | | | | |
| <p>Types of cuts that can be made</p> <ol style="list-style-type: none"> 1: Short section of the heating zone for use in conventional connection boxes. 2: Long section of the heating zone for connection for use in the tube mounting feet. 3: Short section of the heating zone for connection in boxes with insulation piercing system to respect the 5mm distance between bus wires 4: Half-width section of the heating zone for connection in boxes with insulation piercing system to respect the 5mm distance between bus wires. 5: Half-width section with insulation for termination on free end of the cable without silicone gel filling or without RTV filling. | | <p>Common composition of a self-regulating cable</p> <ol style="list-style-type: none"> 1: Metal conductors, from 1 to 2mm². 2: Conductors still covered with semiconductor compound (the one whose stripping is the most difficult). 3: Heating semiconductor area. 4: Electrical insulation jacket of the heating zone. 5: Metal braid or ribbon + earth conductor. 6: Outer protection jacket. | | |

Applications

We **specially developed this guillotine hand shear** to solve two specific problems with low and medium temperature self-regulating cables:

- The difficulty of cutting the carbon filled polyethylene heating zone between the 2 bus wires.
- The obligation to maintain a mandatory insulation distance between the bus wires of these heating cables when they are connected to a terminal block or to one cable end seal. This minimum insulation distance depends on the use of the cable: in an industrial environment in a **non-explosive atmosphere**, this distance can range from 2 to 3.6mm depending on the materials. In an industrial environment and **explosive atmosphere**, using a type EX "e" connection, this minimal distance is 5mm. (See standards EN60079-7 and EN60947).

This tool allows to **cut easily the polyethylene matrix** to respect these distances in all cases.

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Main features

According to the different models of the different manufacturers of self-regulating heating cables, the distance between the bus wires is highly variable, ranging from 1.5 to 4.2mm.

Jaws:

Notch length: 5mm for each manual cutting operation.

Notch width: They exist in three configurations, allowing to cover the different spacings between existing between bus wires.

- Cables with distance between bus wires from 1.5 to 2 mm.
- Cables with distance between bus wires from 2 to 3.3 mm.
- Cables with distance between bus wires from 3.3 to 4.2mm.

This last model also allows cutting cables and conductors according to type 4 and 5 cuts.

Production of special pliers: Possible on request, send us cable samples.

Each guillotine notching plier is delivered in a professional box with a set of cable dimension guides

Part numbers

| | |
|----------|--|
| 6YTTL05A | Guillotine notching plier for cables with distance between bus wires from 1.5 to 2 mm. |
| 6YTTL05B | Guillotine notching plier for cables with distance between bus wires from 2 to 3.3 mm. |
| 6YTTL05C | Guillotine notching plier for cables with distance between bus wires from 2 to 3.3 mm and types 4 and 5 cuts. |
| 6YTTL05D | Set of 3 guillotine notching pliers with the 3 sets of jaws. |



Tool case

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