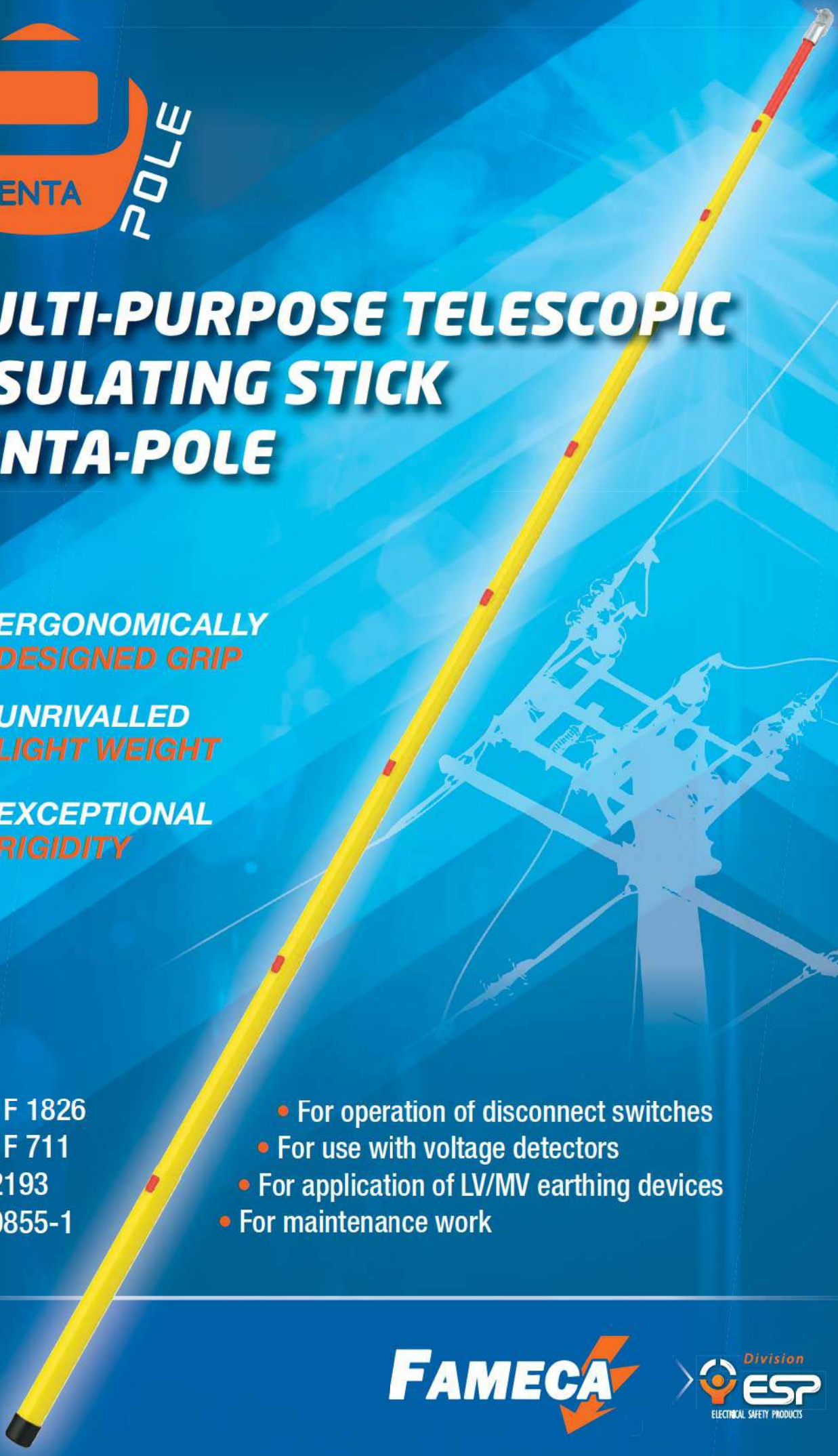
PENTA POLE

MULTI-PURPOSE TELESCOPIC INSULATING STICK PENTA-POLE



ERGONOMICALLY DESIGNED GRIP

UNRIVALLED LIGHT WEIGHT

EXCEPTIONAL RIGIDITY

- ASTM F 1826
- ASTM F 711
- IEC 62193
- IEC 60855-1

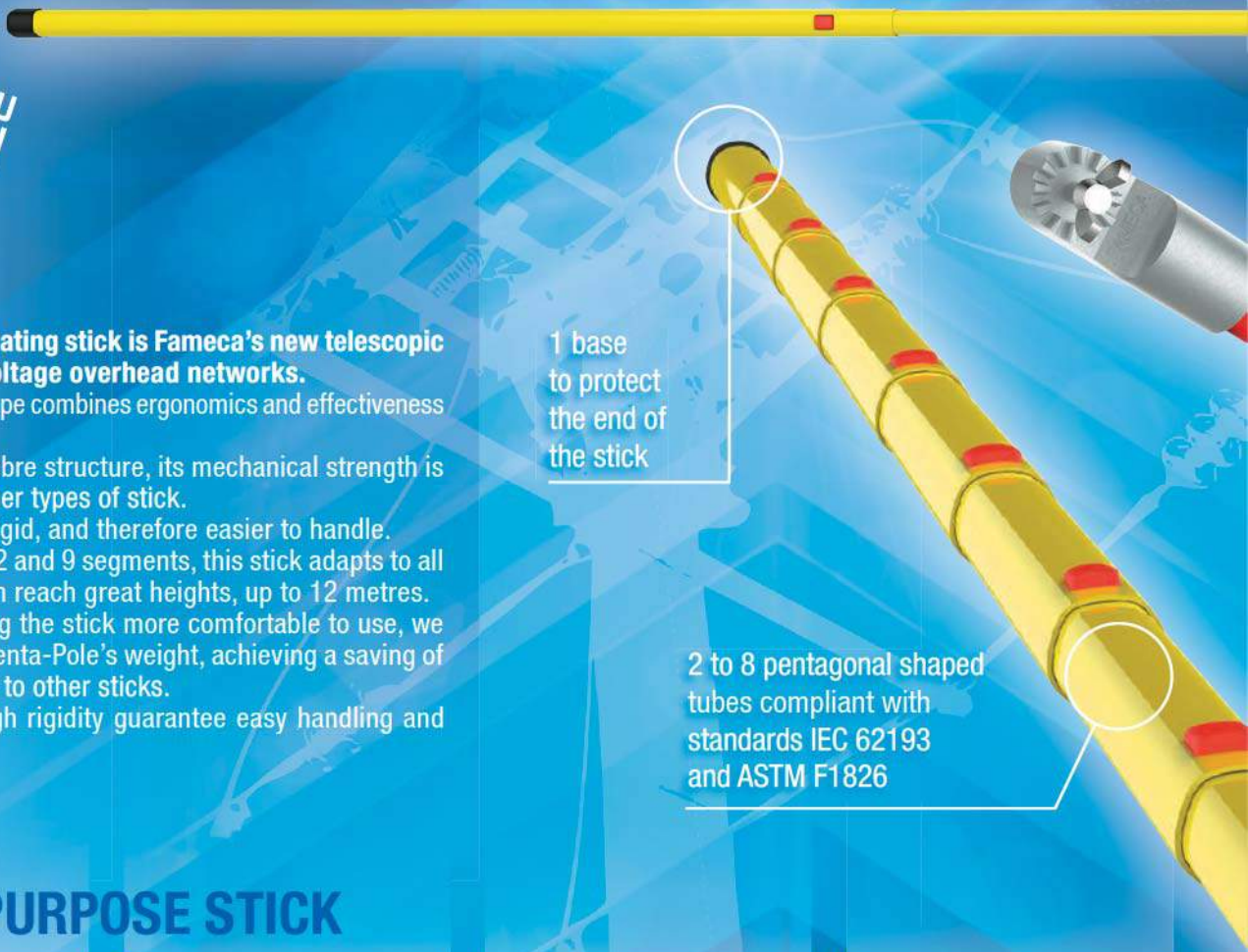
- For operation of disconnect switches
- For use with voltage detectors
- For application of LV/MV earthing devices
- For maintenance work

FAMECA

Division ESP
ELECTRICAL SAFETY PRODUCTS

PENTA POLE

The Penta-Pole insulating stick is Fameca's new telescopic stick for Medium Voltage overhead networks.
Its new pentagonal shape combines ergonomics and effectiveness in use.
In fact, with its new fibre structure, its mechanical strength is 15% greater than other types of stick.
This makes it more rigid, and therefore easier to handle.
Made up of between 2 and 9 segments, this stick adapts to all types of uses and can reach great heights, up to 12 metres.
With a view to making the stick more comfortable to use, we have optimised the Penta-Pole's weight, achieving a saving of up to 13% compared to other sticks.
Its low mass and high rigidity guarantee easy handling and accuracy.



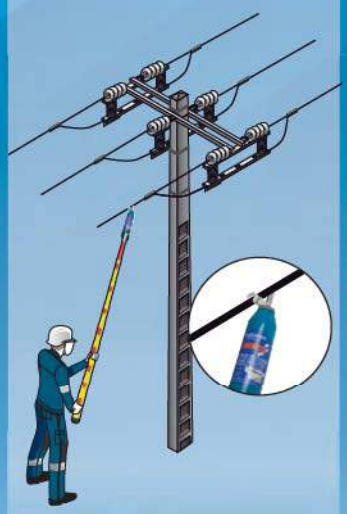
A MULTI-PURPOSE STICK

OPERATING DISCONNECT SWITCHES :

Used with an operating hook, the stick enables you to open and close disconnects with extreme simplicity.

NO-VOLTAGE TESTING :

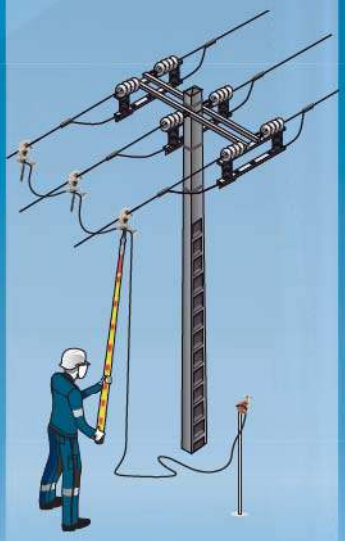
Used with voltage detectors to check that circuits are dead.



LIFTING EARTHING DEVICES :

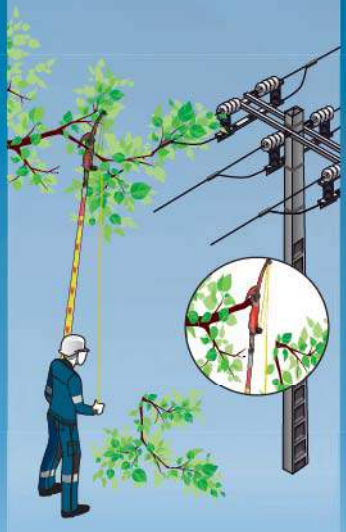
This stick enables you to vertically lift medium load earthing devices into place.

Its rigidity guarantees optimum control and easy placing of the grounding device.



HANDLING OPERATIONS :

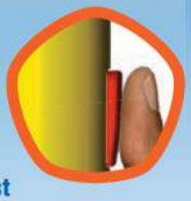
Used with the accessory of your choice, the stick enables you to clean conductors, prune trees, position fall arrest devices, change bulbs, etc.



PENTAGONAL SHAPE, ERGONOMIC DESIGN :

The curved pentagonal shape is unique and **provides a better grip** than other sticks on the market. It gives the users perfect dexterity and enables them to maintain **optimum control**. The stick's five sides fit perfectly in the palm of the hand in the working position.
Also, its special shape prevents the tubes rotating on each other, which considerably increases the effectiveness of the technician's work during different operations on overhead lines.
The pentagonal shape is the result of a great deal of research into the best way to combine ergonomics and mechanical strength.
This shape provides **a high rigidity** and the ability to transmit torsional efforts during tightening or loosening operations.

PUSHBUTTON : SIMPLE OPERATION



The sections are locked together automatically when the stick is extended by a **large and very robust red button.**
Unlocking to retract the stick simply involves pressing the button, **with no risk of trapping fingers or gloves in the mechanism.**

VERY GOOD RIGIDITY

Each of the tubes making up the stick has been calibrated and made using a technology that provides **the best level of rigidity on the market.**

A more rigid stick guarantees that the technician can work more precisely.

The combination of light weight and rigidity in this stick offers **unrivalled comfort, ease of use as well as saving time.**

EXTREMELY LIGHTWEIGHT TELESCOPIC STICK

Thanks to its specific design, this stick is on average **10% lighter** than competitors' sticks. It is therefore easier to handle and requires less effort during use, **thereby reducing the risk of back or arm strain** and optimising working time.

EASY MAINTENANCE

- You can **replace single sections of the stick** if they are damaged.
- Each stick **has a serial number** for full traceability.
- It is **recommended that sticks be regularly inspected** to achieve a longer service life.

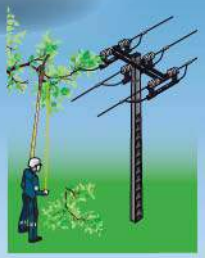
OUR STICK RANGE

Reference	Number of sections	Length when extended		Length when retracted		Average weight
PPOL3/035U	3	3,80 m	12' 5"	1,45 m	4' 9"	1,89 kg
PPOL4/050U	4	5,00 m	16' 4"	1,54 m	5' 0"	2,48 kg
PPOL5/060U	5	6,40 m	21' 0"	1,60 m	5' 2"	3,16 kg
PPOL6/075U	6	7,80 m	25' 7"	1,67 m	5' 5"	3,96 kg
PPOL7/090U	7	9,20 m	30' 2"	1,74 m	5' 8"	4,70 kg
PPOL8/105U	8	10,60 m	34' 9"	1,80 m	5' 10"	5,52 kg
PPOL9/120U	9	12,00 m	39' 4"	1,84 m	6' 0"	6,35 kg

Sticks come with a universal end fitting and an operating hook.
If you would like another type of end fitting, complete the reference with the code corresponding to the end fitting required (in this case, the stick comes without the operating hook).

APV : multi-purpose end fitting, 12 mm 6-sided with automatic locking
U : notched universal end fitting
B : bayonet end fitting
Other end fittings : on request, please enquire

OPERATIONS DONE FROM THE GROUND :
The telescopic stick enables you to carry out all your operations from the ground, **avoiding the need for the technician to climb poles**, which has several advantages:
- No risk of the technician falling.
- Less equipment required for your operations: no ladders, harnesses, ropes, climbing spikes, etc.
- Unlike pole climbing operations where two linesmen are needed, an operation carried out with a telescopic stick **can be done by just one man.**
- **Jobs take less time** than when done from up the pole.



OUR ACCESSORY RANGE

Fameca offers a complete range of accessories.
Do not hesitate to request a complete list.


Operating hooks

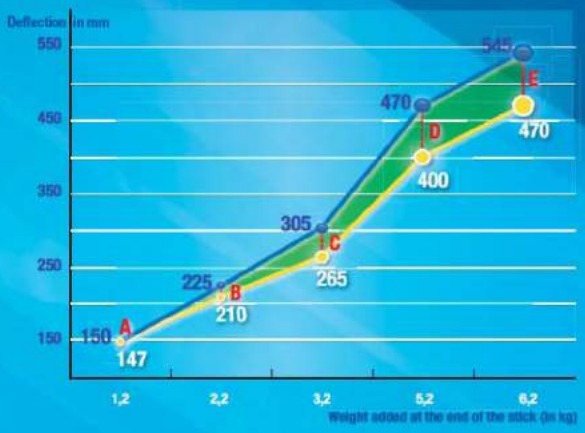

Voltage detectors


Tree trimmers

COMPARISONS BETWEEN PENTAGONAL AND TRADITIONAL STICK

WEIGHT ADVANTAGE OF THE FAMECA PENTAGONAL STICK COMPARED TO A TRADITIONAL STICK

IMPROVED RIGIDITY OF THE FAMECA STICK COMPARED TO A TRADITIONAL STICK, FOR A GIVEN LOAD



FAMECA pentagonal stick
Traditional stick

A : Fameca stick 2 % more rigid
B : Fameca stick 7 % more rigid
C : Fameca stick 13 % more rigid
D : Fameca stick 15 % more rigid
E : Fameca stick 14 % more rigid

THE FAMECA FOAM-CORED END TUBE

FAMECA's long experience in the field has led it to develop a foam-cored tube that meets the requirements of international standards CEI 60855-1 and ASTM F711. The top section of our Penta-Pole stick benefits from this technology.

This tube has two notable advantages :

- the foam acts as a barrier against humidity thereby guaranteeing perfect internal tightness,
- compliance with the IEC 60855-1 standard guarantees the maximum level of insulation.

FAMECA manufactures its foam-filled tubes differently to its competitors.
FAMECA manufactures its tube directly around a sealed, rigid core of polyurethane foam instead of filling their tube with foam after the tube has been made.

This process guarantees :

- perfect homogeneity of the foam inside the insulating tube,
- unfailing tightness thanks to a foam-resin-glass fibre interface which fills the open cells on the surface of the foam, maximising the level of insulation by preventing any humidity from penetrating at all.

EXPERIENCE AND EXPERTISE

Ever since the 1950s, FAMECA has been a pioneer in the production of composite tubes for electricians, and the quality of its products is universally recognised by customers.
These 60 years of experience have enabled FAMECA to build up a close rapport with electricians working in the field in order to offer them the products they need for their networks.
FAMECA is constantly looking for better solutions, carrying out Research and Development studies and constantly investing in its production facilities.
Through innovative and ever more efficient production processes, such as Statistical Process Control, FAMECA guarantees optimum quality for its products made in France.

Fameca now takes back your old sticks to reprocess them. For more information, please contact us.

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