

COMPARATIVE ANALYSIS BETWEEN POLIFORT® AND WIRE

| POLIFORT® | Low tensile wire |
|--|---|
| It resists temperatures from -40°C to +70°C without deformation and does not conduct electricity. | With changes in temperature, it can loosen. It conducts electricity and can burn leaves in a storm. |
| It maintains a permanent tension, saves a lot on handling and there is no risk to the machinery. | During the winter it is placed on the ground. It can be damaged by agricultural machinery and requires a lot of handling. |
| It can be used with existing machinery and is easy to use as the polyester yarn is always tensioned. | A wire that is not properly tensioned can make mechanical harvesting difficult. |
| It can be repaired with a simple knot. Easier to handle. | High weight, difficult to repair in case of breakage. |
| Polyester yarn can never rust, so there is no corrosion. | Its rapid corrosion makes it necessary to handle the wire frequently. |
| There's no need to tighten it up again. Quick, easy, one-time installation. | Need to tighten every year. Difficult to install and handle due to its weight and rigidity. |
| Due to its low weight, installation is easier and faster. | Due to its high weight, it is difficult to use on rough terrain. |

POLIFORT® **monofilament** is produced in natural transparent or black colour, with anti-UV protection and in accordance with the following **specifications**:

1. Raw Material: High Tenacity Polyester
2. Specific gravity : 1.36 g/cm³
3. Intrinsic Viscosity : 0.96
4. Melting point: 250°
5. Elongation: <9%
6. Thermal Behavior: Neutral
- Optimal Tension: 1% (1m every 100m)

TYPES DEPENDING ON DIAMETER

| Code | Diameter (mm) | Breaking loads (kgf) | Reel Size |
|------|---------------|----------------------|------------------------|
| Nº 2 | 2,20 | 215 | 1.800 m./ aprox.10 Kg. |
| Nº 3 | 2,60 | 300 | 1.400 m./ aprox.10 Kg. |
| Nº 4 | 3,00 | 365 | 1.000 m./ aprox.10 Kg. |
| Nº 5 | 4,00 | 405 | 600 m./ aprox.10 Kg. |
| Nº 6 | 5,00 | 450 | 300 m./ aprox.10 Kg. |

POLIFORT®



New Zealand distributors of POLIFORT



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Contact our sales team sales@cosio.co.nz for pricing and details of stocked spool sizes.

COSIO INDUSTRIES LTD

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POLIFORT®



Polyester Monofilament for Agriculture and Horticulture



POLIFORT® It is a high-tenacity polyester monofilament specially designed to replace conventional metal wires used mainly in the agricultural sector, improving their performance and offering greater durability.

MAIN ADVANTAGES OF POLIFORT®

Among the main advantages of **POLIFORT®** are the following:

1. High tensile strength and controlled elasticity, allowing for quick installation.
2. Strong impact resistance, its elasticity allows it to resist impacts and return to its original position.
3. High retraction capacity, which guarantees permanent tension.
4. It requires no maintenance.
5. It does not rust and is resistant to phytosanitary products.
6. High resistance to UV rays, extreme temperatures and humidity, maintaining its mechanical and dimensional characteristics in the most adverse climatic conditions.
7. It has a high durability far superior to that of wire.
8. Reduced heat conductivity, so it does not transmit high temperatures to vegetation or the materials with which it comes into contact, acting as a thermal insulator.
9. It does not conduct electricity, reducing the risk of accidents from thunderstorms.
10. It is 5 times lighter than steel, which makes it easier to install, reduces transport costs and minimizes the risk of accidents during the assembly process.
11. Mechanical strength superior to that of wire.

APPLICATIONS OF POLIFORT®

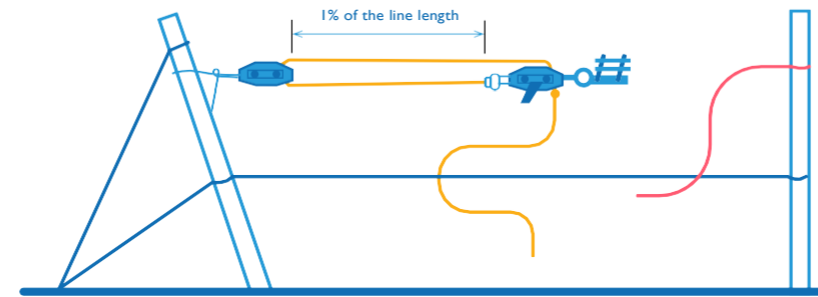
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|---------------------------------|-----------------------|---------------------------------|
| 1. Construction of greenhouses. | • Vineyards. | • Super-intensive olive groves. |
| 2. Windbreak. | • Support lines. | • Thermal screens. |
| 3. Protective meshes. | • Palm tree crops. | • Horticulture. |
| 4. Fruit-growing. | • Reservoir coverage. | • Marine farming. |
| 5. Fences and fences. | • Tobacco dryers. | • Other applications. |



INSTALLATION INSTRUCTIONS

1

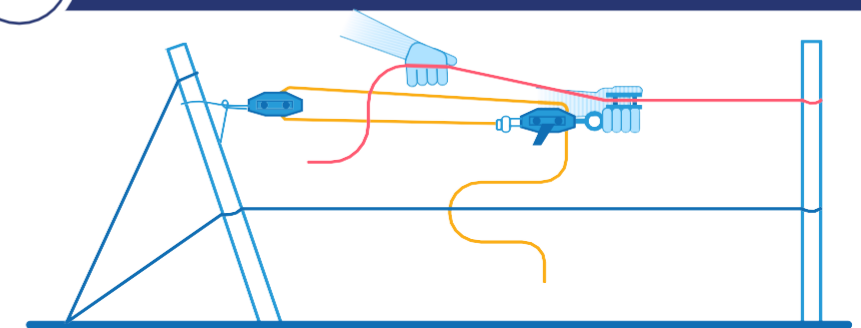
Tension with pulleys



Tighten 1% of the total length of the **POLIFORT®** thread.
Example: For a line of 150 meters, tighten 1.5 meters.

2

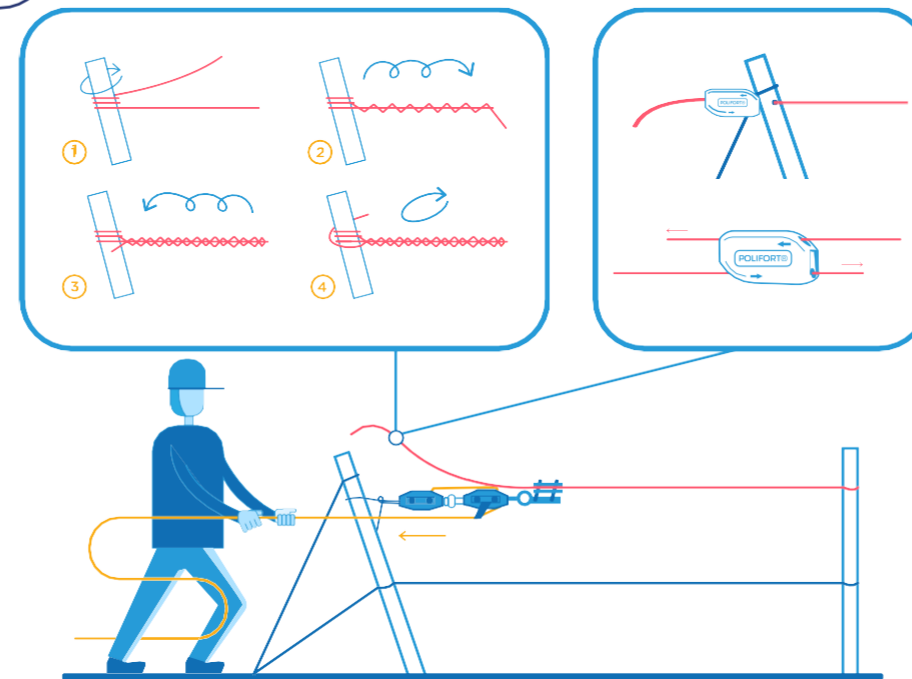
Tension with pulleys



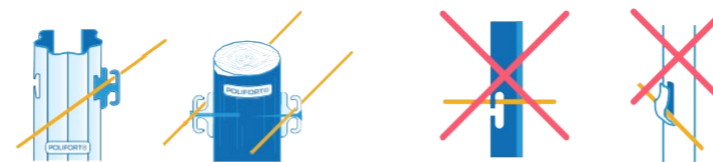
Open jaws with your left hand and place the **POLIFORT®** thread between the plates with your right hand, ensuring the grip of the thread.

3

Tension & Fixation



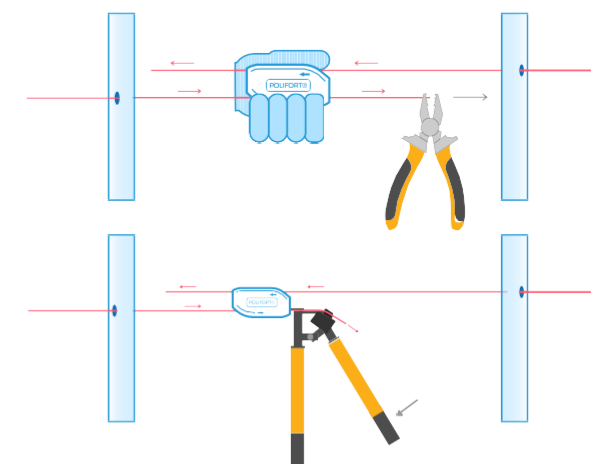
Tighten the rope, until both pulleys come into contact. Attach the excess **POLIFORT®** thread to the header post following the steps, or go through the header post through the die, placing a turnbuckle that acts as a stop on the other side of it to hold the thread and tighten it if necessary.



Use the support pieces to thread the thread through the posts. Do not pass the thread directly through the notches.

4

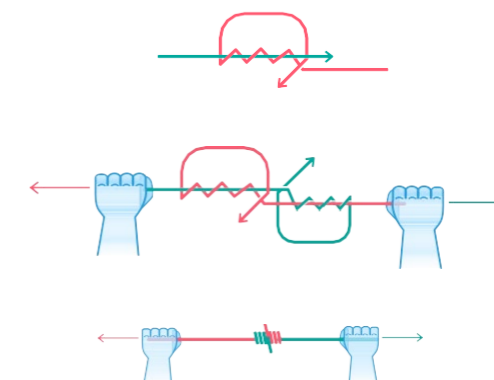
Joining with Gripper or Max Tensor



Insert the ends of the threads to be joined following the instructions of the tensioner. Apply the necessary tension using the tensioner pliers, or by holding the tensioner with one hand and pulling the end of the thread with pliers.

5

Knotted bonding



Place the ends of **POLIFORT®** yarn in parallel and follow the steps for the knot, finish by stretching to both sides to close the knot.