



**JUDIN GROUP**  
MONOFILAMENT & NET



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**NINGBO JUDIN**  
**SPECIAL MONOFILAMENT CO.,LTD**



## AGRICULTURE LINE

The JUDIN monofilament wire is a proprietary blend of polyester resin for superior strength and performance.



We have a strong QC team following ISO9001: 2000 standards while implementing QC procedures throughout the production process.

The Judin polyester wire is durable and has a lifespan of at least 10 years.



## JUDIN GROUP

Created and manufactured by JUDIN WIRE(plasteel line) since 2000,JUDIN wire is now recognized as an advantageous solution for vineyards, fruit trellising systems and crop protection. Ningbo Judin production of Judin PET wire material selection curtain at the international leading.

Our products have advanced technology, high strength, antistatic, flame retardant, smooth surface, and resistant to acid, alkali, UV radiation, and harsh weather conditions. It conforms to European and North American standards, has a long service life, and has a beautiful appearance. Nowaday,we have 80% marketing share in Chinese market with zero defects,customers trust and prefer using our products.



# FIVE ADVANTAGES

Outdoor exposure to the sun and rain, no aging and rust for **10** years

## 1 ECONOMIC BENEFITS

Save 80% cost than steel and iron wire

## 2 WIDELY PRACTICAL

Colors and size can be customized

## 3 STABLE

Characteristics of acid and alkali resistance, UV resistance and no rust, can be used for a longer time



## 4 PHYSICS ADVANTAGE

High strength, low elongation, thermal stability, non conductivity

## 5 ENVIRONMENTAL PROTECTION

Non toxic, tasteless, corrosion-free, pollution-free and environmental protection

- Judin wire is lighter than steel cables, making handling much easier than steel cables, resulting in a much easier and faster installation than steel cables.
- Once Judin wire is properly tensioned it requires no maintenance and does not sag further because of the low stretch factor of PET.
- Judin wires are highly UV and weather stabilized. It does not degrade from exposure to sunlight and requires no maintenance in even extreme weather conditions.
- One of the many advantages of the line is its stability against extreme temperatures which prevents melting and damage to the plastic film covering used in greenhouses to prevent frost damage to plants.
- Judin wire does not rust and are non corrosive. The Judin wire exhibits good resistance to chemicals and fertilizers and hence lasts longer.
- Judin wire does not damage plants, animals or the environment.
- One of the other advantages of using this wire is that it does not conduct electricity or currents making it a safe alternative in case of lightning.
- PET Judin wire exhibits lower elongation and lower water, humidity or moisture absorption making it the preferred wire for many applications.

# SPECIFICATIONS

Diameter mm	Colour	Load Kgs	Elongation IN%	Metrage Mtrs/KG
1.80		140	10	285
2.00		175	10	230
2.20		210	10	190
2.50		275	10	145
3.00		390	10	100
3.50		490	10	75
4.00		640	10	55

\*Customized colors supported



Vineyard



Greenhouse



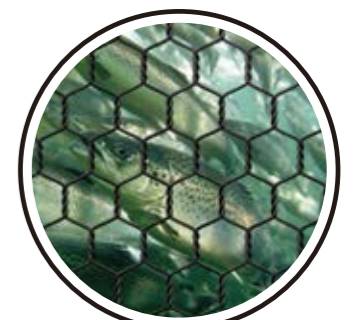
Herding



Packaging



Fencing



Deep sea aquaculture

# PERFORMANCE COMPARISON

STEEL WIRE		JUDIN WIRE		
Diameter mm	Weight/Roll Kgs	Length/Roll Mtrs	Weight/Robbin Kgs	Length/Robbin Mtrs
2.00	50	2310	10	2300
2.20	50	1900	10	1900
2.50	50	1470	10	1500
3.00	50	1020	10	1000
3.50	50	750	10	750
4.00	50	570	10	570



## Steel wire

Judin wire is motionless to changes in temperature ( -40°C to +70°C). It is not electricity conductor.

Steel wire stretches and shrinks when the temperature changes. It is electricity conductor and can burn plants during storms.

Due to the great elasticity, Judin wire doesn't need to be re-stretched and always grants the right tension, saving time and work. The permanent tension also offers a great support for the trees and needs lower quantity of staples.

Steel wire need to be re-stretched frequently, never offer the right tension, more staples are needed. In winter time it falls on the ground with risk to be picked up by the machinery.

The lift up operation is easier due to the permanent tension, and the texture of the wire doesn't permit to tendrills to attach.

Lift-up operation is long and difficult, due also to the attaching tendrills. Losing suppleness after the operation.

During the operation of automatic lift-up, pre-pruning and harvesting, Judin wires stays tight and facilitate the passage of machines.

Slack wires are a risk for agricultural machines and may be damaged.

Strong and weak acid resistant, as well as organic solvents proof ( except nitrobenzene, methacrylate and phenol), it also has a good resistance to weak alkali. Therefore it is insensitive to chemicals used for plants and soil treatments in agriculture. Ideal for use in coastal environments where steel wire rusts.

Tightening a galvanized wire create micro lesions and accelerates corrosion. Also the rust is a big problem for the lasting of the wire and for the plant safety.

Easy installation due to its light weight. No need re-tightening. It doesn't injure plants and if the wire is cut, it just fall down on the ground without causing injuries to workers.

Needs lot of work for installation due to the heavy weight. It must be tightened often. Galvanized and inox wire may cut leaves, fruits and trees and, If cut, it behaves as a lash with big risk for the workers.

It may be cut with pneumatic scissors, but reassembly is easy with a knot, or a metal sleeve.

It may be cut with pneumatic scissors, and it may damage scissors. The two ends run away and it takes time to recover and reconnect.



## JUDIN WIRE



is produced with Polyester and the advantages they offer are listed below. One would choose between the 2 based on the area of usage. Most of the advantages these lines offer over the conventional metal cables are the same with a few significant differences making them the preferred choices for certain applications.



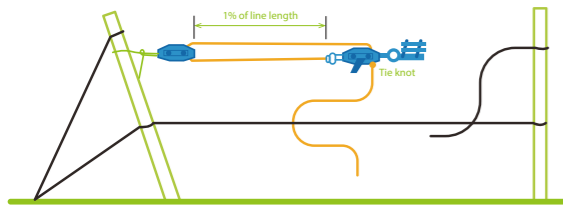
## JUDIN WIRE

is specially designed monofilaments to substitute the use of conventional steel cables and wire for farming, agriculture, vineyards, orchards, culture under cover, wind breakers, green houses ( shading and roofing), safe fences for animal husbandry, cover for dams and ponds, marine cultures and variety of other applications.



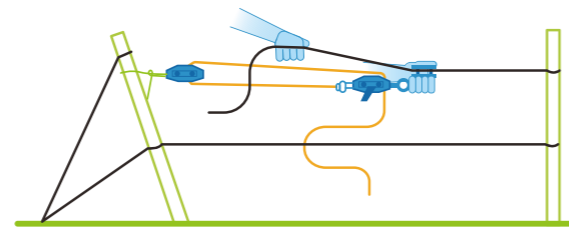
# Greenhouse Accessories

## 1 TENSION OF AGRICULTURAL LINE



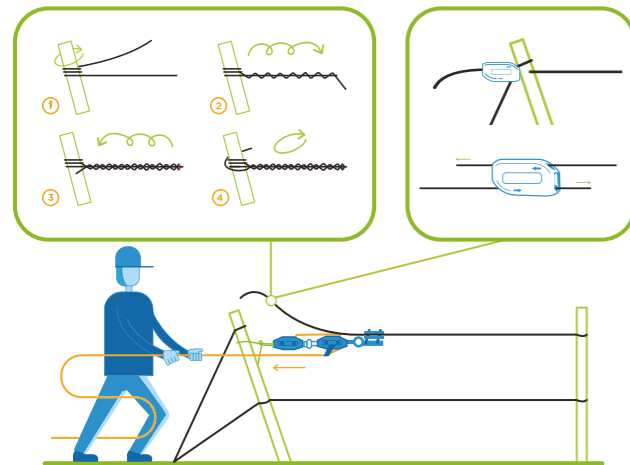
Tension 1% of the total length of line.  
Example: For a 150 meter line, tension 1.5 meters.

## 2 TENSION OF AGRICULTURAL LINE

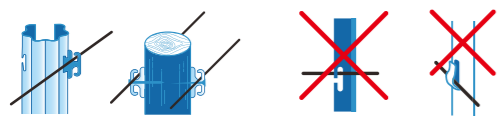


Open the clamp with the left hand and the wire between the plates with the right hand, ensuring a firm grip on the line.

## 3 TENSION AND FASTENING

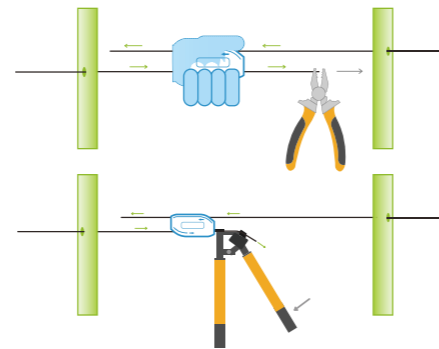


Tighten the tensioner rope until the two pulleys make contact. Attach the remaining wire to the main post following the steps, or cross the wire through the die, placing a tensioner that borders the other side to pull the wire taut and tighten it if necessary.



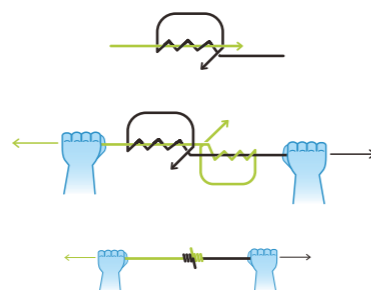
Utilize the support pieces to pass the thread through the posts. Do not pass the thread directly through the notches.

## 4 UNION WITH TURNBUCKLES



Insert the ends of the 4 wires following the indications of the tensioner.  
Apply the necessary tension by using the tensioning pliers, or by holding the tensioner, or by holding the tensioner with one hand and stretching the end of the wire with pliers.

## 5 KNOT CONNECTION



Place the thread ends in parallel and follow the steps for the realization of the knot, finishing by stretching towards both sides to close the knot.



Zig Zag Wire springs



metal positioning buckle



Curtain Rollup Unit



welded joint



U-shaped buckle



Rack and tooth seat



Double-layer butterfly gear



U-shaped base



Shaft support



Portal crane



top metal base



Anti-slip buckle



Solid rack link



curtain hook



curtain rod connector



Aluminum double wheel



positioning buckle



Push rod connector



Bearing base



curtain pendant



crawling accessories



Reel 8m



metal positioning buckle



reversing wheel



Drive buckle three-piece set