SELECTION GUIDEMATERIALS

Small Diameters Lengths: up to 30 m For pipes with a diameter up to Ø 50 mm OUR RANGE OF MATERIALS IS OUR GUARANTEE OF SATISFACTION.

WE HELP YOU TO CHOOSE. CHOOSE WELL.

Avorila

		FEATURES													
		GENERAL			PUSHING						PULLING		RECOMMENDATION		
		MATERIALS	MATERIAL DIAMETER Ø mm	COLOUR	AVERAGE DURABILITY	EASY INSERTION	DIAMETER OF TURN Ø cm	EASY TURN	FRICTION	TWISTING STRENGTH	PUSHING STRENGTH	TENSILE STRENGTH	BREAKING STRENGTH	IDEAL PIPE Ø mm	OPTIMA LENGTH
NATERIALS FOR OUSEHOLD INSTALL	LATIONS	•	\rightarrow	0	T	→ ••••••••••••••••••••••••••••••••••••			→ {\\\\\\\\\\\			← <u>~~</u> →	M		∠
IANDARD RANGE															
NYLON Solid Monofilame	ent		3 mm 4 mm	••	Long	***	2 cm 4 cm	High Normal	Normal	Normal	Normal	100 kg 120 kg	· ★★☆☆☆	16 - 20 mm 20 - 25 mm	10-15 10-15
BY-NYLON Solid Monofilame	ent		4 mm		Long	***	4 cm	High	Normal	Normal	Normal	120 kg	***	20 - 32 mm	10-20
FLAT BAND STEE			4 mm	•	Medium	****	8 cm	Very High	Low	Very High	High	130 kg	***	20 - 32 mm	10-20
ROUND STEEL CA			4 mm		Long	***	6 cm	Very High	Low	High	High	130 kg	****	20 - 32 mm	10 - 2
ROUND STEEL CA	ABLE		4 mm		Very Long	***	6 cm	Very High	Very Low	High	High	130 kg	****	20-32 mm	10-2
REMIUM RANGE															
FIBREGLASS RO			3 mm		Short	****	_ 6 cm	Very High	Scant	Very High	Very High	80 kg	****	16 - 50 mm	10-30
Polypropylene- C	oated		3.5 mm		311011	****	8 cm	Very High		very riigii					
FIBREGLASS RO	D		3 mm		Short	****	6 cm	Very High	Scant	Very High	Very High	80 kg	****	16-50 mm	10-3
POLYESTER		L	4 mm				3 cm				High			16-32 mm	
Triple Twisted			4.5 mm		 Very Long 	****	3 cm	Very High	Minimum	Very High	Very High	130 kg	★★★★ ☆	20 - 50 mm	10-30
POLYESTER Monofilament Tw	visted		3 mm		Maximum	****	2 cm	High	Very Low	Very High	High	80 kg	****	10-20 mm	6-18
POLYESTER Monofilament Tw	visted		4.5 mm		Maximum	****	4 cm	High	Minimum	Maximum	Maximum	140 kg	****	20-50 mm	10-3

MAIN FEATURES

FRICTION

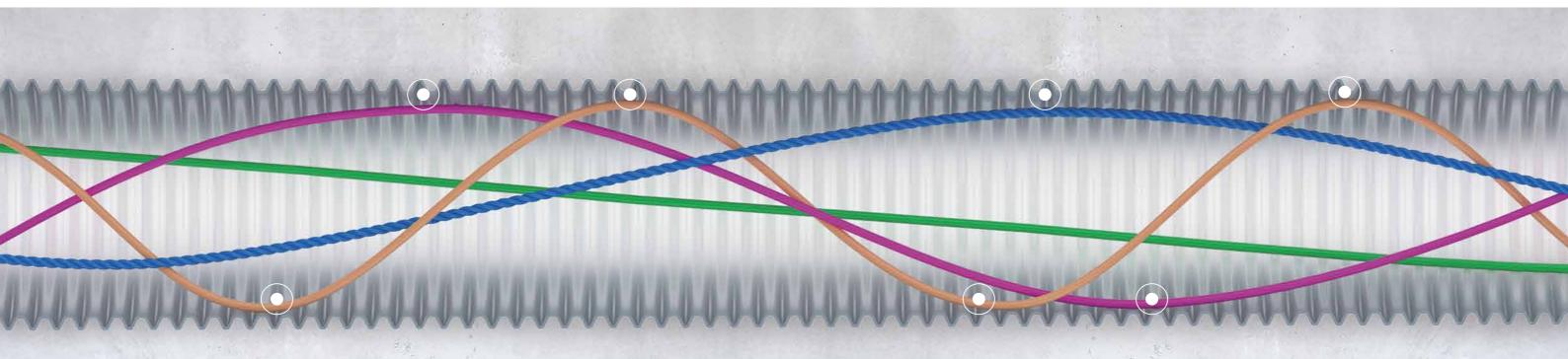
Friction inside the pipe is decisive in a fish tape's characteristics.

Each material combines memory effect, shape, flexibility and texture in a different way.

Straighter materials with no memory, such as fibreglass or twisted polyester, create less friction in straight sections, whereas nylon, which snakes more, will always create greater friction.

LESS CONTACT, **BETTER INSERTION**

FRICTION POINTS (depending on the material)



STANDARD RANGE

NYLON / BI-NYLON



It is the material with the greatest memory effect and therefore has more friction points. The new, reformulated bi-nylon is more flexible and has less friction.

COATED STEEL



Available with flat band steel and round steel cable. These materials have little memory effect and are very suitable for heavy duty work. Flat band steel, which weighs less, delivers better anti-friction behaviour.

PREMIUM RANGE

FIBREGLASS



These rods have great pushing strength, making them perfect against friction in straight sections. The 3 mm rod is more flexible and has less friction at bends. It is a fragile material with no memory effect.

TWISTED POLYESTER



Twisted material halves friction and has barely any memory effect. Triple twist (3 monofilaments) is more flexible and has less friction at bends. Monofilament twist is more rigid.

STANDARD RANGE

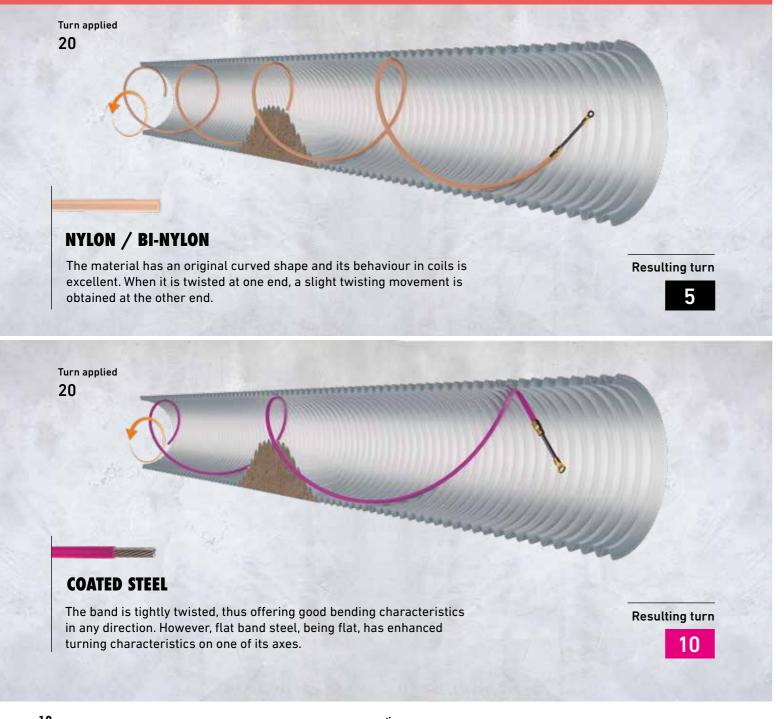
MAIN FEATURES

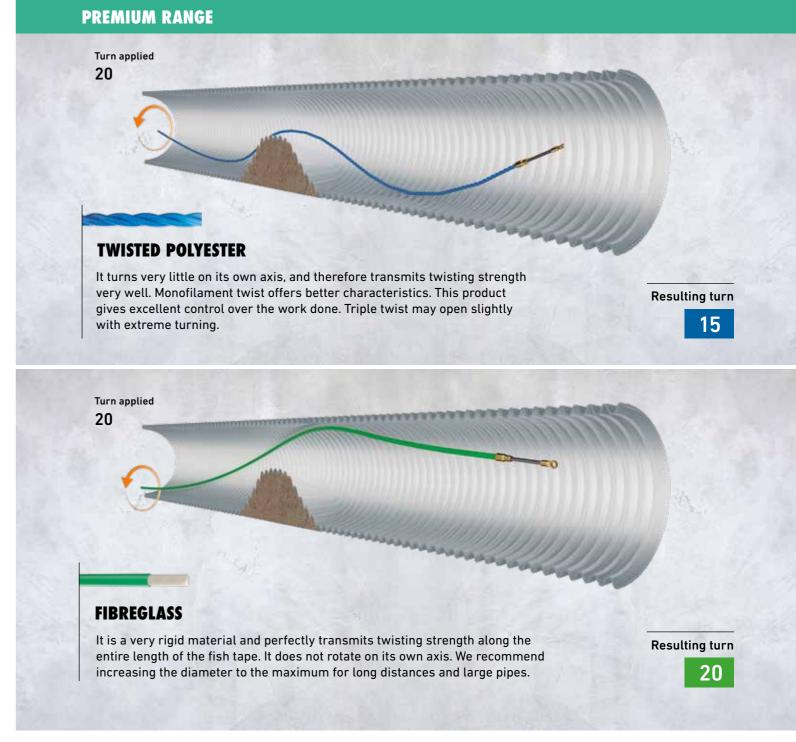
TWISTING STRENGTH

Turn control is indispensable for getting around possible obstacles, bends and other barriers the fish tape may encounter. It is a control characteristic.

When the fish tape is pushed and twisted at the same time, if the material remains firm it turns on its axis, and the movements made by the hands therefore reach the end, often finding the best route to push the cable through.

GREATER TWISTING STRENGTH, GREATER CONTROL OVER THE SITUACIÓN





MAIN FEATURES

PUSHING STRENGTH

It is important that all the pushing strength applied when a fish tape is inserted into a pipe be transmitted all along its entire length to the other end.

The most rigid materials and those with the largest diameter do not bend, meaning the pushing strength from one end is more easily transmitted to the fish tape head.

GREATER PUSHING STRENGTH, GREATER DISTANCE

NYLON / BI-NYLON These are monofilaments made with the material with the lowest pushing strength. In distances above 20 m their features are critical. When they encounter a major obstacle, they snake and occupy the entire pipe, mainly the 3 mm diameter ones, which are more flexible. **COATED STEEL** It has an excellent balance between flexibility and rigidity, giving it good features in terms of pushing strength. The round steel cable is heavier and can reach greater distances. TWISTED POLYESTER The monofilament twist is more rigid and permits greater pushing strength. It does not break when bent and easily regains its original shape without taking any damage. It can be used to reach longer distances. **FIBREGLASS** It is the material with the greatest pushing strength because the rods are made of flexible fibreglass. If the pipe is large, we recommend the use of a large-diameter rod in order to avoid

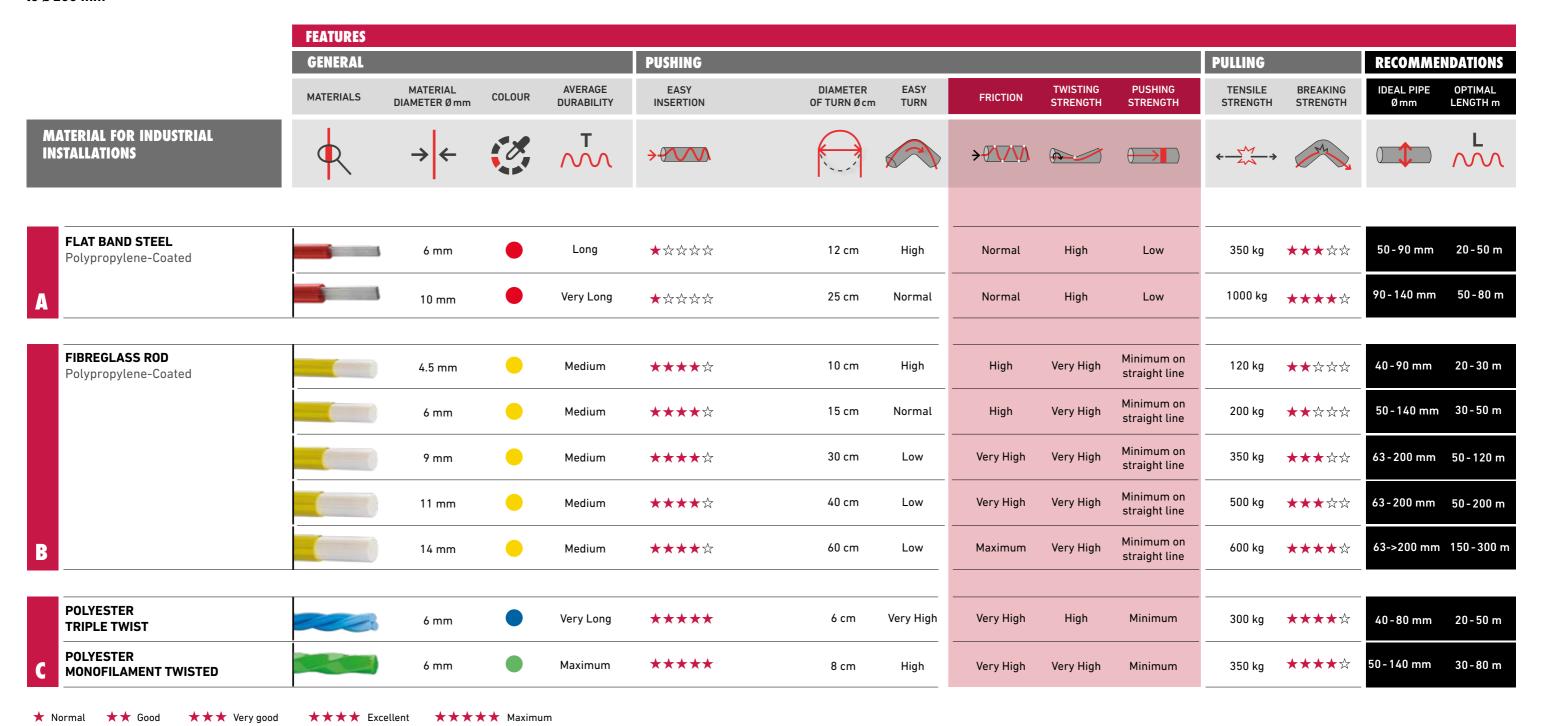
looping and kinking on the inside that could break the product.

SELECTION GUIDEMATERIALS

Diameters medium and large Lengths: up to 300 m For pipes with a diameter up to Ø 200 mm OUR RANGE OF MATERIALS IS OUR GUARANTEE OF SATISFACTION.

WE HELP YOU TO CHOOSE. CHOOSE WELL.





26 www.estiare.com 27