

SUNNY® Fiberglass pulling rods

Fiberglass pulling rods are the most efficient way to pull cables, or ropes, into underground conduit.



The fiberglass of our SUNNY® range is of high quality. Its high resistance to pushing and pulling allows it to slip into all ducts.

End caps firmly fixed to the fiberglass have a high resistance to tearing.

The front head has a double function:

- guide head, thanks to its ogive shape
- eyelet, for attaching the cables to be pulled.

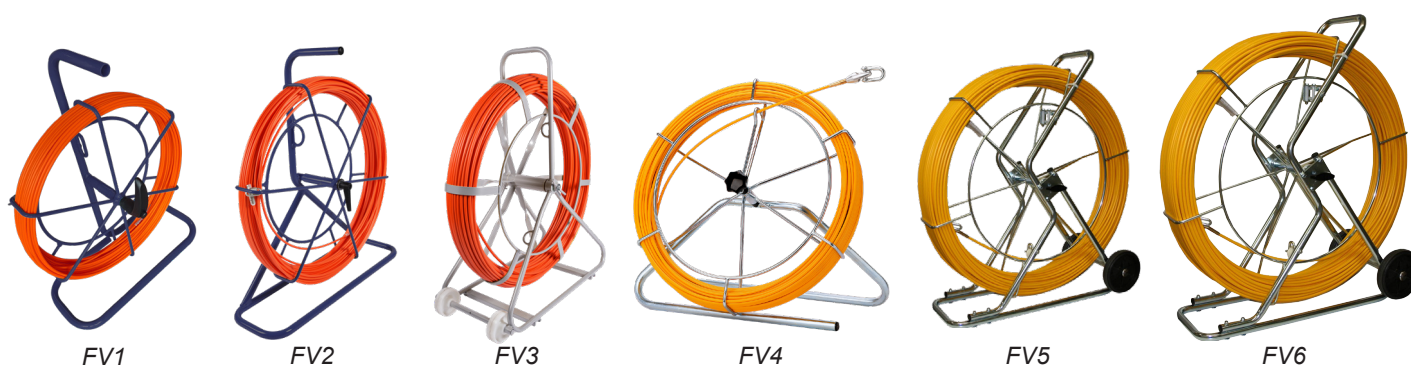
Time saving: no end cap to change.

The structure, designed to work on construction sites, have a tubular steel structure, robust and stable.

An integrated brake prevents the fiber from unwinding from the basket by its own tension.

Our very complete range offers all diameters and all lengths.

It consists of 6 models:



Range	Ø	Wheels	Finishing	Length															
				30 m	40 m	60 m	80 m	100 m	120 m	150 m	180 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m	
FV1	4,5 mm	No	Peinture epoxy	X		X													
FV2	6 mm					X	X	X											
FV3	9 mm	Yes						X		X		X		X					
	11 mm									X		X		X					
FV4	7,2 mm	No	Galva-nized		X	X	X	X	X										
FV5	9 mm	Yes			X	X	X	X	X	X									
FV6	11 mm									X	X	X	X	X	X	X	X	X	X

SUNNY® FV1 - Diameter 4,5 mm

2 lengths to choose from: 30 meters - 60 meters

High performance fiberglass diameter 4.5 mm, made in France.
Breaking force: 8.5 kN

Fixation of the ends by drilling and a pin.

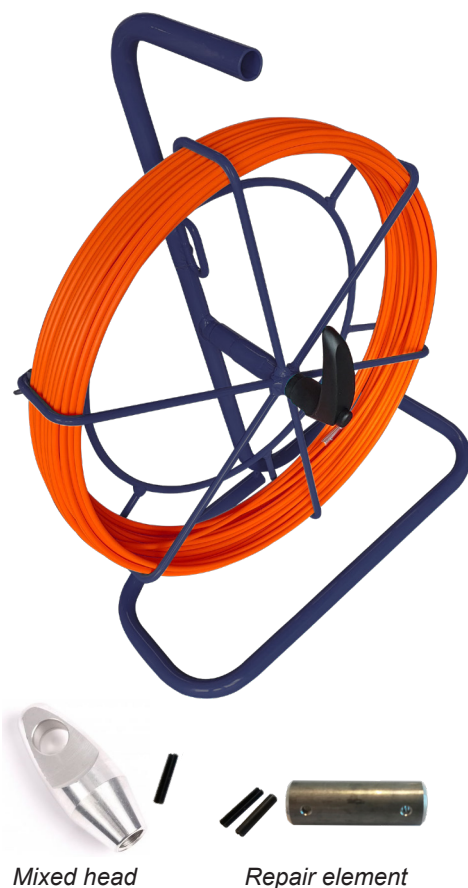
Front end: fixed head with dual function (guide head and pulling eye)
Rear end: fixed eyelet and threaded carabiner

Reel diameter 380 mm, in steel with epoxy powder coating, blue color
Brake by central ergonomic plastic handle.
Fiber guide system.

Length	Fiberglass Ø	Model	Code
30 meters	4,5 mm	FV1	FV1-04-030
60 meters			FV1-04-060

Spare and repair parts are also sold separately:

Option	Code
Rear end: mixed head (guide head and eyelet) with pin + threaded carabiner	FV1-04-AR
Repair element (with 2 pins)	FV1-04-REP
Front end: mixed head (guide head and eyelet) with pin	FV1-04-AV
Spare rod Ø 4.5 mm with front and back element - lenght 30 meters	FV1-04-AIG030
Spare rod Ø 4.5 mm with front and back element - lenght 60 meters	FV1-04-AIG060



Mixed head

Repair element

SUNNY® FV2 - Diameter 6 mm

3 lengths to choose from: 60 meters - 80 meters - 100 meters

High performance fiberglass diameter 6 mm, made in France.
Breaking force: 15,5 kN

Fixation of the ends by drilling and a pin.

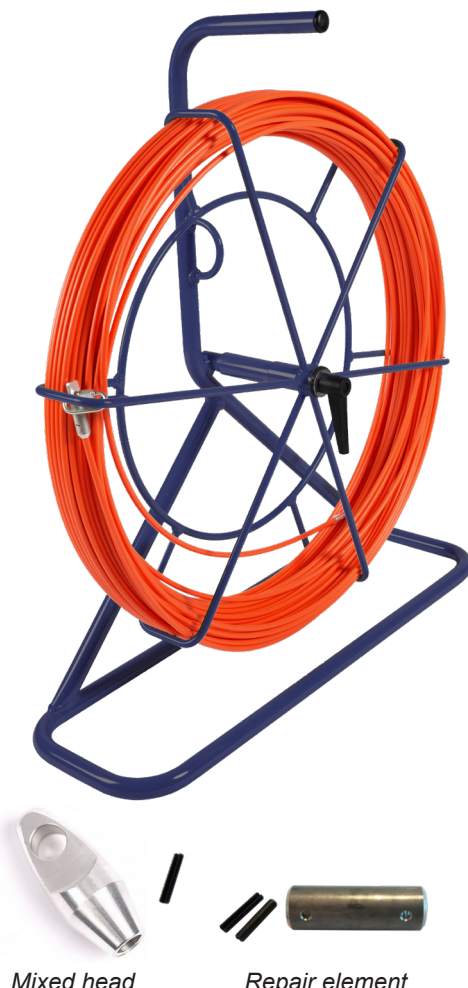
Front end: fixed head with dual function (guide head and pulling eye)
Rear end: fixed eyelet and threaded carabiner

Reel diameter 600 mm, in steel with epoxy powder coating, blue color
Brake by central ergonomic plastic handle.
Fiber guide system.

Length	Fiberglass Ø	Model	Code
60 meters	6 mm	FV2	FV2-06-060
80 meters			FV2-06-080
100 meters			FV2-06-100

Spare and repair parts are also sold separately:

Option	Code
Rear end: mixed head (guide head and eyelet) with pin + threaded carabiner	FV2-06-AR
Repair element (with 2 pins)	FV2-06-REP
Front end: mixed head (guide head and eyelet) with pin	FV2-06-AV
Spare rod Ø 6 mm with front and back element - lenght 60 meters	FV2-06-AIG060
Spare rod Ø 6 mm with front and back element - lenght 80 meters	FV2-06-AIG080
Spare rod Ø 6 mm with front and back element - lenght 100 meters	FV2-06-AIG100



Mixed head

Repair element

SUNNY® FV3 - Diameter 9 mm or 11 mm

4 lengths to choose from: 100 meters - 150 meters - 200 meters - 300 meters.

High performance fiberglass diameter 9 or 11 mm, made in France.
Breaking force: 36,3 kN (Ø 9mm) et 56,3 kN (Ø 11mm)

Front end: equipped with a dual-function mixed fixed head (guide head and pulling eyelet)

Rear end: equipped with a dual-function mixed fixed head (guide head and pulling eyelet + carabiner).

Structure diameter 1000 mm, in steel with epoxy powder coating, gray colour.
2 wheels diameter 100 mm.
Brake by central handle.
Fiber guide system.



Length	Fiberglass Ø	Model	Code
100 meters	9 mm	FV3	FV3-09-100
150 meters			11 mm
	9 mm		FV3-11-150
200 meters	11 mm		FV3-09-200
	9 mm		FV3-11-200
300 meters	11 mm		FV3-09-300
	9 mm	FV3-11-300	

Spare and repair parts are also sold separately :

Ø	Designation	Composition	Code
For Ø 9 mm	Rear end	Conical end cap with olive, eyelet and threaded carabiner	FV3-09-AV
	Repair element	2 conical ends caps with olive and 1 connector	FV3-09-REP
	Spare fiberglass rod 100 meters	With fixed mixed head at each end	FV3-09-AIG100
	Spare fiberglass rod 150 meters	With fixed mixed head at each end	FV3-09-AIG150
	Spare fiberglass rod 200 meters	With fixed mixed head at each end	FV3-09-AIG200
	Spare fiberglass rod 300 meters	With fixed mixed head at each end	FV3-09-AIG300
For Ø 11 mm	Front end	Dual function mixed fixed head	FV3-11-AV
	Repair element	2 conical end caps with olive and 1 connector	FV3-11-REP
	Spare fiberglass rod 150 meters	With fixed mixed head at each end	FV3-11-AIG150
	Spare fiberglass rod 200 meters	With fixed mixed head at each end	FV3-11-AIG200
	Spare fiberglass rod 300 meters	With fixed mixed head at each end	FV3-11-AIG300



Repair element



Mixed head



Spare fiberglass rod

SUNNY® FV4 - Diameter 7,2 mm

5 lengths to choose from: from 40 meters to 120 meters.

Its originality lies in its folding frame: it is much more compact than the other fiberglass rods and takes up much less space in the vehicle. Nevertheless very stable on the ground, it is ideal for work on site.

High performance fiberglass diameter 7,2 mm
Breaking force: 28 kN

High security fixation of the ends: drilling and pin + gluing.
Resistance of end pieces to tearing: 7.5 kN

Front end : M12 threaded end cap
+ Ø 25 mm aluminum head, dual function
(guide head and pulling eyelet)
+ shackle (bolt Ø 10 mm)

Rear end: M12 threaded end cap

High quality frame in galvanized steel, diameter 600 mm.
Brake by central button.
Fiber guide system.

For repairing, the fiberglass rod comes with:

- 1 connector
- 2 M12 threaded end caps
- 4 pins
- 1 tube of special glue 20g



Many accessories and options :

- cable pulling grips, shackles, other guiding heads
 - swivels, coupling unit
 - cleaning brushes - spare fiberglass rod, repair kits.
- See details below.



Length	Fiberglass Ø	Model	Code
40 meters	7,2 mm	FV4	FV4-07-040
60 meters			FV4-07-060
80 meters			FV4-07-080
100 meters			FV4-07-100
120 meters			FV4-07-120

SUNNY® FV5 - Diameter 9 mm

6 lengths to choose from: from 40 meters to 150 meters

High performance fiberglass diameter 9 mm
Breaking force: 40 kN

High security fixation of the ends: drilling and pin + gluing.
Resistance of end pieces to tearing: 10 kN

Front end : M12 threaded end cap
+ Ø 25 mm aluminum head, dual function
(guide head and pulling eyelet)
+ shackle (bolt Ø 10 mm)

Rear end: M12 threaded end cap

High quality frame in galvanized steel, diameter 750 mm.
Equipped with 2 wheels.
Brake by central ergonomic plastic handle.
Fiber guide system.

For repairing, the fiberglass rod comes with:

- 1 connector
- 2 M12 threaded end caps
- 4 pins
- 1 tube of special glue 20g



Many accessories and options:

- measuring device
 - cable pulling grips, shackles, other guiding heads
 - swivels, coupling unit
 - cleaning brushes
 - spare fiberglass rod, repair kits.
- See details below.



Length	Fiberglass Ø	Model	Code
40 meters	9 mm	FV5	FV5-09-040
60 meters			FV5-09-060
80 meters			FV5-09-080
100 meters			FV5-09-100
120 meters			FV5-09-120
150 meters			FV5-09-150

SUNNY® FV6 - Diameter 11 mm

10 lengths to choose from: from 120 meters to 500 meters

High performance fiberglass diameter 11 mm
Breaking force: 45 kN

High security fixation of the ends: drilling and pin + gluing.
Resistance of end pieces to tearing: 15 kN

Front end: M12 threaded end cap
+ Ø 25 mm aluminum head, dual function
(guide head and pulling eyelet)
+ shackle (bolt Ø 10 mm)

Rear end: M12 threaded end cap

High quality frame in galvanized steel, diameter 1000 mm.
Equipped with 2 wheels.

Brake by central ergonomic plastic handle.

Fiber guide system.

For repairing, the fiberglass rod comes with:

- 1 connector
- 2 M12 threaded end caps
- 4 pins
- 1 tube of special glue 20g



Many accessories and options:

- measuring device
- cable pulling grips, shackles, other guiding heads
- swivels, coupling unit
- cleaning brushes
- spare fiberglass rod, repair kits.

See details below.



Length	Fiberglass Ø	Model	Code
120 meters	11 mm	FV6	<i>FV6-11-120</i>
150 meters			<i>FV6-11-150</i>
180 meters			<i>FV6-11-180</i>
200 meters			<i>FV6-11-200</i>
250 meters			<i>FV6-11-250</i>
300 meters			<i>FV6-11-300</i>
350 meters			<i>FV6-11-350</i>
400 meters			<i>FV6-11-400</i>
450 meters			<i>FV6-11-450</i>
500 meters			<i>FV6-11-500</i>

Options for the models SUNNY® FV4 – FV5 - FV6

Measuring device

For quickly measuring the length of pipes.

Model	Code
FV4	<i>FV4-MET</i>
FV5 and FV6	<i>FV56-MET</i>



Guiding heads

In aluminium.

With M12 female thread.

Head Ø 40 mm: for pipes with a minimum diameter of 100 mm.

Diameter	Bore diameter	Length	Weight	Code
18 mm	11 mm	55 mm	20 g	<i>FV456-T18</i>
25 mm	13 mm	60 mm	40 g	<i>FV456-T25</i>
40 mm	-	80 mm	180 g	<i>FV456-T40</i>



Options for the models SUNNY® FV4 – FV5 - FV6

Repair accessories

Sold in complete kits
 - 2 end caps
 - 1 connector
 - 4 pins
 - 20g special glue
 - repair instructions
 or in spare parts.



Fiberglass Ø	Designation	Code
7,2 mm	Repair kit	FV4-KITREP
	Male M12 threaded brass end cap length 40mm	FV4-EMB
	Brass connector length 50mm	FV4-RACC
9 mm	Repair kit	FV5-KITREP
	Male M12 threaded brass end cap length 72mm	FV5-EMB
	Brass connector length 80mm	FV5-RACC
11 mm	Repair kit	FV6-KITREP
	Male M12 threaded brass end cap length 72mm	FV6-EMB
	Brass connector length 80mm	FV6-RACC
Tous diamètres	Glue for fiberglass Ø > 6mm (20g)	FV456-COLLE20
	Pins (bag of 10)	FV456-GOUP10



Spare fiberglass rods

Equipped with 2 threaded end caps, a Ø 25 mm aluminum guiding head, with dual function (guiding head and pulling eyelet) and a shackle.



Fiberglass Ø	Length	Weight	Code
7,2 mm	40 mm	3,4 kg	FV4-AIG040
	60 mm	4,7 kg	FV4-AIG060
	80 mm	6,0 kg	FV4-AIG080
	100 mm	7,1 kg	FV4-AIG100
	120 mm	10,4 kg	FV4-AIG120
9 mm	40 mm	3,6 kg	FV5-AIG040
	60 mm	5,7 kg	FV5-AIG060
	80 mm	7,0 kg	FV5-AIG080
	100 mm	9,6 kg	FV5-AIG100
	120 mm	11,0 kg	FV5-AIG120
11 mm	150 mm	14,3 kg	FV5-AIG150
	120 mm	17 kg	FV6-AIG120
	150 mm	20 kg	FV6-AIG150
	180 mm	24 kg	FV6-AIG180
	200 mm	28 kg	FV6-AIG200
	250 mm	36 kg	FV6-AIG250
	300 mm	41 kg	FV6-AIG300
	350 mm	43 kg	FV6-AIG350
400 mm	55 kg	FV6-AIG400	
450 mm	57 kg	FV6-AIG450	
500 mm	60 kg	FV6-AIG500	

Swivels

To avoid cable twisting.
 Stainless steel.
 With double axial bearing.



Ø (en mm)	Longueur (en mm)	Tension maxi (en kN)	Force de rupture (en kN)	Poids (en kg)	Code
16	65	3,3	10,0	0,06	FV-EMER16
20	78	5,0	15,0	0,12	FV-EMER20
22	86	10,0	30,0	0,15	FV-EMER22
25	98	15,6	47,0	0,23	FV-EMER25
32	121	22,2	67,0	0,45	FV-EMER32
35	130	31,1	93,0	0,63	FV-EMER35
38	143	40,0	120,0	0,77	FV-EMER38
41	152	44,5	133,0	0,95	FV-EMER41
51	178	66,7	200,0	1,70	FV-EMER51
60	262	110,0	330,0	3,50	FV-EMER60
76	349	222,0	667,0	7,70	FV-EMER76

Connector swivel

To connect 2 fiberglass rods.
 In galvanized steel.
 M12 thread.

Code **FV-EMERC**



Coupling unit

To couple 2 fiberglass rods each introduced at one end of the pipe.
 Robust aluminum construction.

Code **FV-UC**



Options for all the models SUNNY®

Pulling handle

It greatly increases the pulling force and prevents you from getting hurt.

Code **WGRIP**

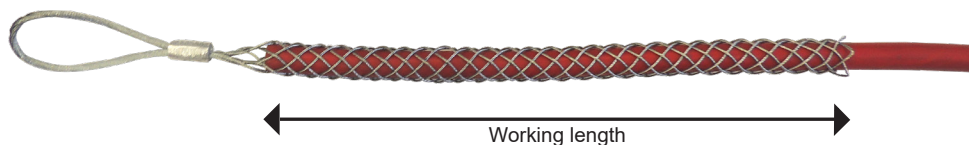


Cable pulling grips

In galvanized steel.
Handcrafted.

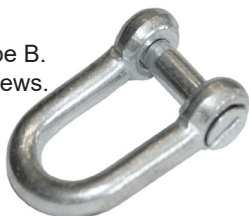
Cable Ø (mm)	Breaking force (kN)	Traction force (kN)	Working length	Weight (kg)	Code
10-20	18,8	9,4	900 mm	0,25	CH108000
20-30	22,6	11,3		0,35	CH108001
30-40	37,0	18,5		0,50	CH108002
40-50	55,0	27,5		0,80	CH108003
50-65	55,0	27,5		0,85	CH108004

Many other models of cable-pulling socks in our « Cable pulling grips » technical sheet



Shackles

Shackles with smooth bolt, type B.
Galvanized. With flat head screws.



Ø Axis	Max force	Body Ø	Interior width	Weight	Code
10 mm	4,0 kN	8 mm	14 mm	85 g	FV456-MAN10
12 mm	6,3 kN	10 mm	17 mm	195 g	FV456-MAN12
16 mm	10 kN	13 mm	21 mm	360 g	FV456-MAN16
20 mm	16 kN	17 mm	27 mm	750 g	FV456-MAN20
22 mm	20 kN	19 mm	30 mm	1000 g	FV456-MAN22
36 mm	50 kN	30 mm	47 mm	4000 g	FV456-MAN36

Pipe cleaning brushes

3 models :
- synthetic
- steel
- with flat and spiral steel brush bristles (right or left)



Pipe Ø	Designation	Weight (en kg)	Code
80 mm	Synthetic	0,6	FV-BRSY080
	Steel	0,5	FV-BRAC080
100 mm	Synthetic	1,2	FV-BRSY100
	Steel	1,1	FV-BRAC100
	Flat and left spiral steel bristles	1,3	FV-BRSPIG
	Flat and right spiral steel bristles	1,3	FV-BRSPID

Lubricant

High performance lubricant for underground cabling.
For pulling heavy cables over long distances,
friction is reduced by up to 50%.
Silicone-free, non-irritant, non-flammable.



Capacity	Weight	Code
10 liter can	10,4 kg	FV-LUB10
20 liters can	20,7 kg	FV-LUB20
30 liters can	31,3 kg	FV-LUB30

Increase your efficiency with our range of pulleys and rollers

