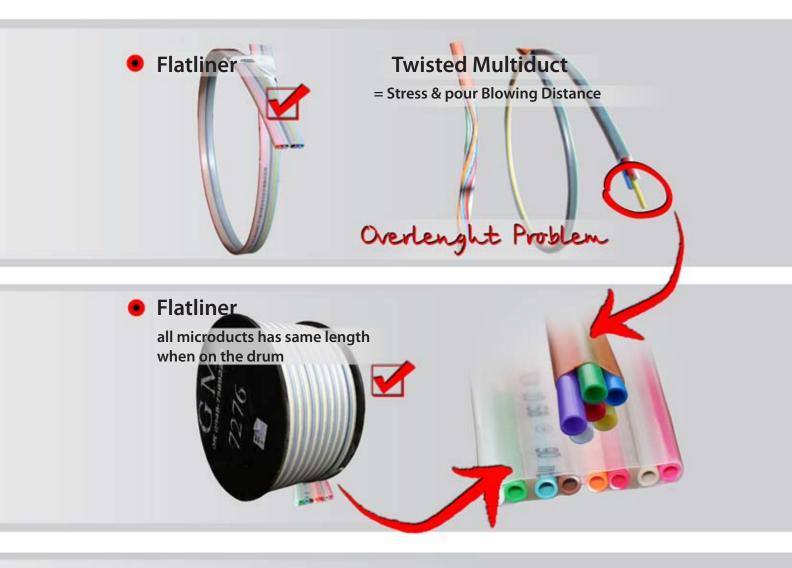


# Facts about the Flatliner

- No overlength
- Fast and easy branch-off
- Easy handling & fast roll out
- No gas seals
- Colourcodesystem
- Easy cornering
- Stabilization sticks
- Easy backfilling
- Microtrenching optimized

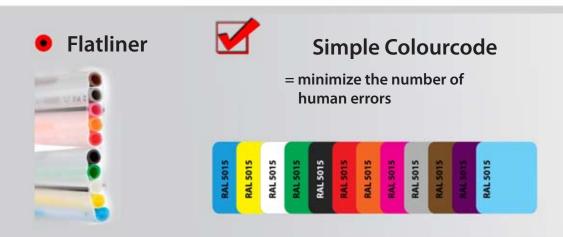






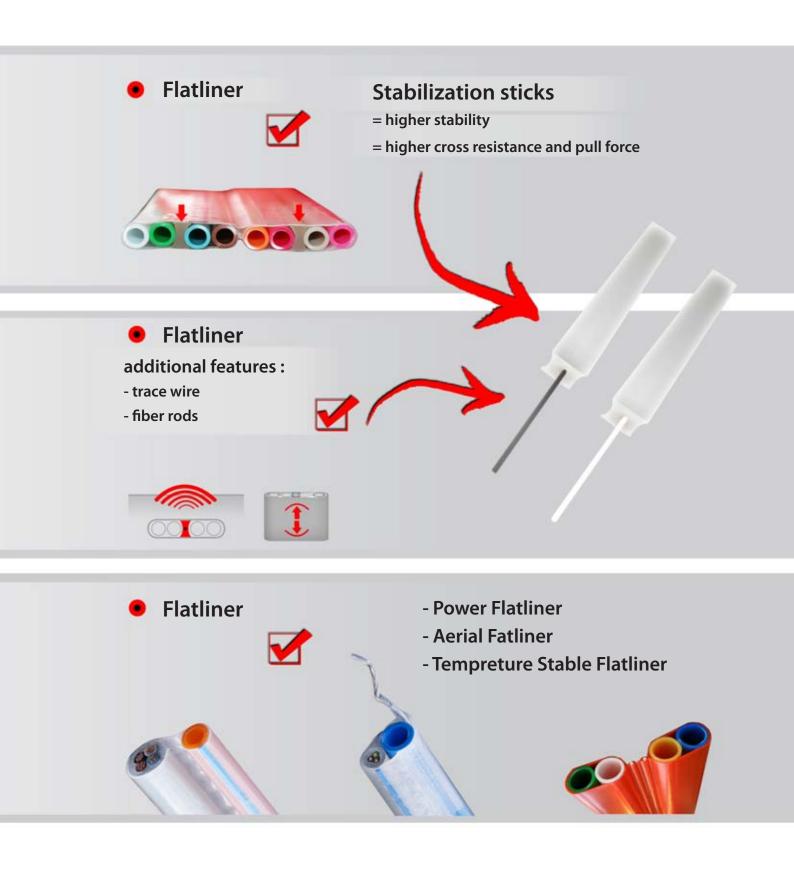




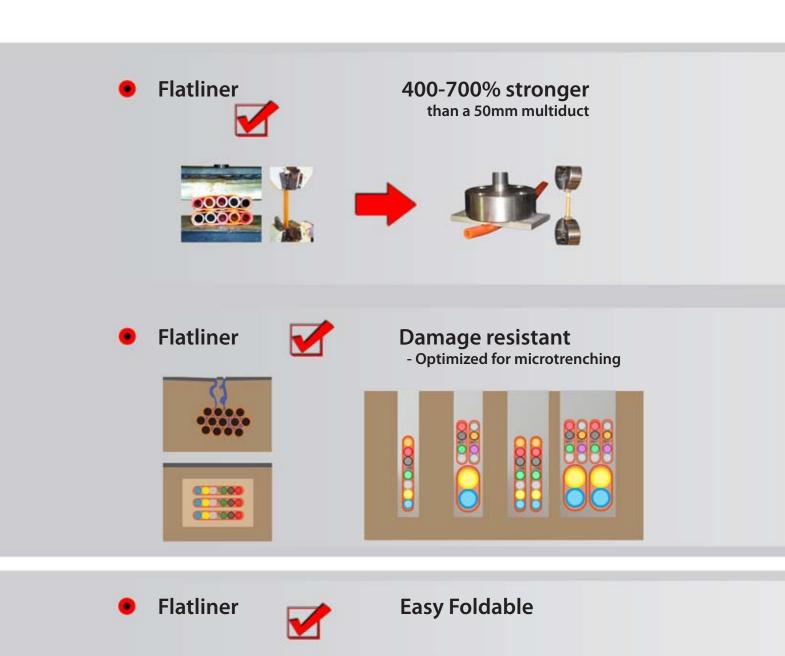












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# New and improved Flatliner

- -Higher pull force
- -Higher cross resistance
- -Better blowing performance
- -Better for micro trenching
- -Real easy to fold
- +2 New additional features



# GM

### 37 years of innovation and knowledge

**GM Plast** never stops looking for perfection, never stops developing better products that can save time and costs in your network.

With the latest design **GM Plast** has build in a small profile as a "**spacer**" between the micro ducts, this gives the product a higher stability and therefore also better blowing performance.



The new **spacer** supports also the micro ducts in the case of cross or tensile that can appear when installers are building millions of meters of new trenches.

We have analyzed hundreds of thousands of meters of pipes in the ground and carefully reviewed the installation techniques, our conclusion has been that many of the product on the market are too fragile when it comes to "real rollout".

Most products pass the desk trail and the small scale test, but when you have to build 10.000 houses every year, we have to make the products **easy to handle**, **easy to understand**, **easy to repair** and **strong enough** that normal civil workers can use it.

The change does not look like much, and it does not change much in the way it is handled, but we can recognize a big difference in the quality of the installed network. Best proven by the blowing teams that install the cables.



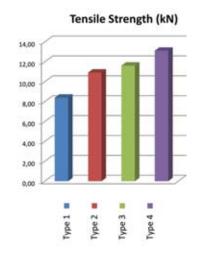


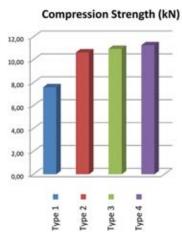


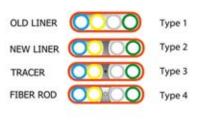




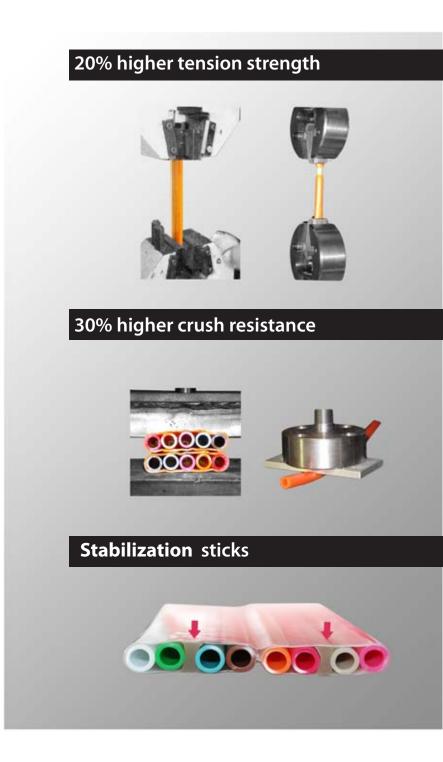
### "Higher pull force, Higher crush resistance"







**Flatliner evolution** 





### **NEW ADDITIONAL FEATURES**

-TRACE WIRE
-FIBER RODS

TRACE WIRE



**EASY TO LOCATE** 



FIBER ROD



HIGH PULL STRENGTH



The new spacer can be produced with a trace wire or a fiber rod inside.

The trace wire will be then well protected and can actually be used in future when needed.

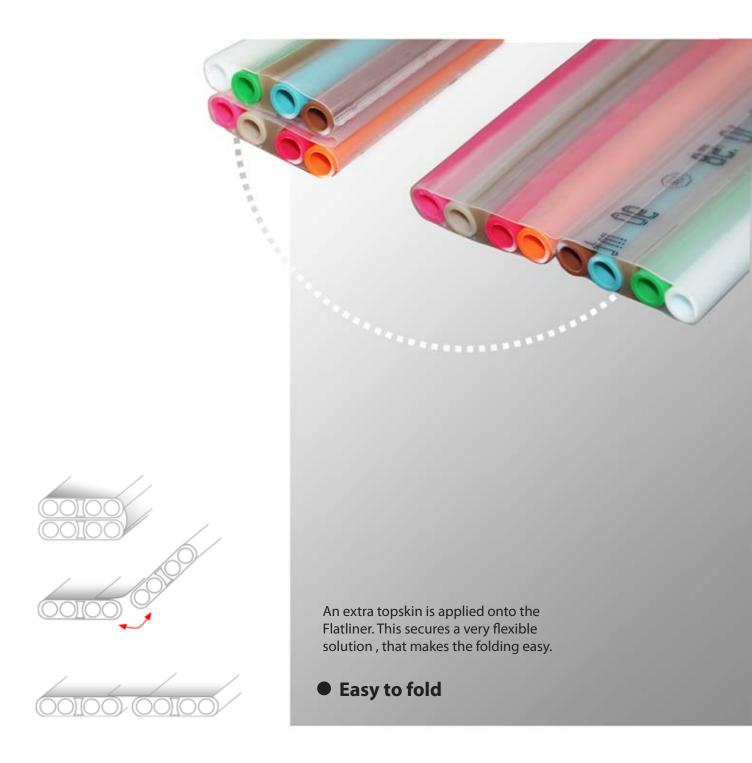
### Easy to trace

The fiber rod is for extra tensile strength, developed for directional drilling, plowing or long sub duct installations.

Overall strength improvement



# "REALLY EASY TO FOLD" -EXTRA TOPSKIN





## AVAILABLE FLATLINERS

### PIPE DIAMETERS OD/ID IN MM

1	O DIRECT	6/3,5 7/4 8/4,5 10/6 12/8 14/10 16/12 20/16
1	SUB	5/3,5 7/5,5 10/8 12/10 14/11,5
2		6 7 8 10 12 14 16 20
3		6 7 8 10 12 14 16 20
4		6 7 8 10
4	OOIOO	12 14 16 20
5	OOIOO	6 7 8 10 12 14 16 20
6		6 7 8 10 12 14 16 20
6	0000	6 7 8 10 12 14 16 20
7	000000	6 7 8 10
7		12 14 16 20
8	0000	6 7 8 10
8	00100 00100	12 14 16 20
10	001000 001000	6 7 8 10 12 14 16 20
12	000000000000000000000000000000000000000	6 7 8 10
12	000000000000000000000000000000000000000	6 7 8 10
12	000000000000000000000000000000000000000	12 14 16
12	000000000000000000000000000000000000000	12 14 16



## COMBINATION EXAMPLES

	1 + 2
	1 + 3
0000	1 + 4
0000	1 + 4
0001000	1 + 5
00000	1+3+3
00000	1 + 6
00000000	2 + 7
00000000	2+4+3
000000000000000000000000000000000000000	2+5+5



## CABLE IN PIPE

GM FLATLINER AND DL PIPE	Pipe OD/ID	Cable size (mm)	Number of fibres
	6/3,5	1,1 - 1,6	2 - 12
	7/4	1,1 - 2,2	2-12
	8/4,5	1,1 - 2,5	2-1
	10/6	1,8 - 4	2 - 24
	12/8	3-5	2 - 48
	14/10	4-6	72
	16/12	6-8	96
	18/14	6 - 10	144
	20/16	6 - 12	192 - 288



### AVAILABLE DRUMS

#### 1-WAY DRUMS



#### (Returnable) 2-WAY DRUMS







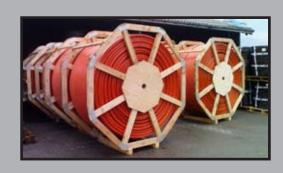
### **LOADING TRUCKS**















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