

## Polyester

General purpose sinking rope that remains flexible and easy to handle when wet.

Polyester has excellent UV and abrasion resistant properties and will not shrink or lose strength when wet.

### FEATURES:

- ISO 1141
- Strength not affected by water
- Does not shrink
- UV resistant
- Abrasion resistant
- Sinking rope

### APPLICATIONS:

- Anchor warps
- Mooring warps
- Lanyards
- Fender lines
- Towing lines
- Traditional halyards and ropes
- Net frame ropes
- General-purpose industrial ropes

### OPTIONS:

- Spliced eyes
- Other colours available on request

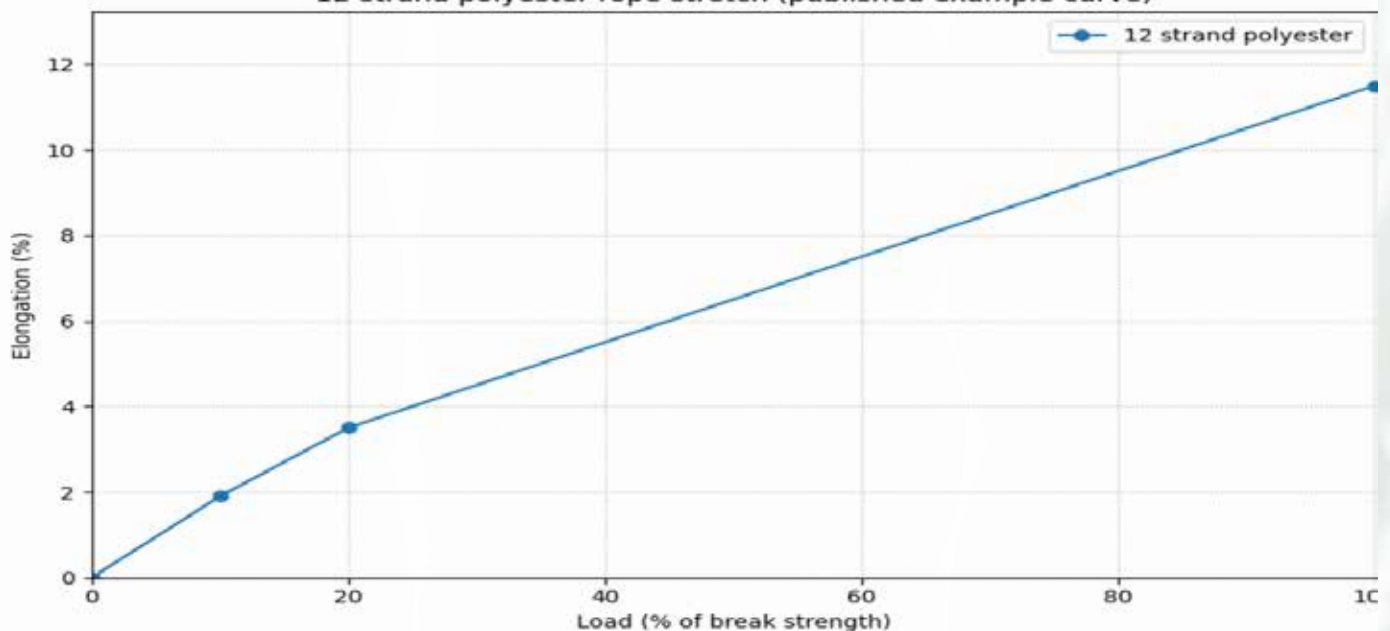
### TECHNICAL:

Material: HT Polyester  
Construction: 8 & 12-Strand Braid  
3-Strand Hawser Lay

### STANDARD RANGE:

Diameters: 6 - 100 mm  
Reel Length: 220 m  
Colour: White or Black

12 strand polyester rope stretch (published example curve)



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## 3-Strand



Diameter (mm)	Kg / Reel	Break Load (Kg)
6	6.5	850
8	11.6	1450
10	18.0	2290
12	26.0	3450
14	35.3	4400
16	46.0	6000
18	58.3	7000
20	72.0	8400
22	87.0	10800
24	104.0	12500
26	122.0	14250
28	141.0	16500
30	162.0	18700
32	184.0	20800
36	233.0	25700
38	260.0	28350
40	288.0	35000
42	317.0	38580
44	348.0	42340
46	380.0	46270

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## 8-Strand

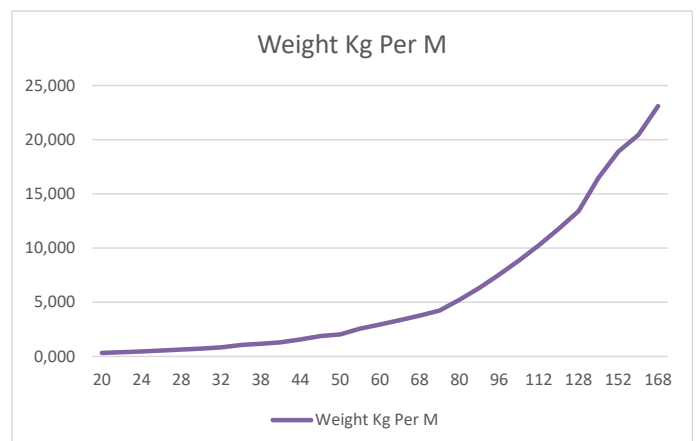
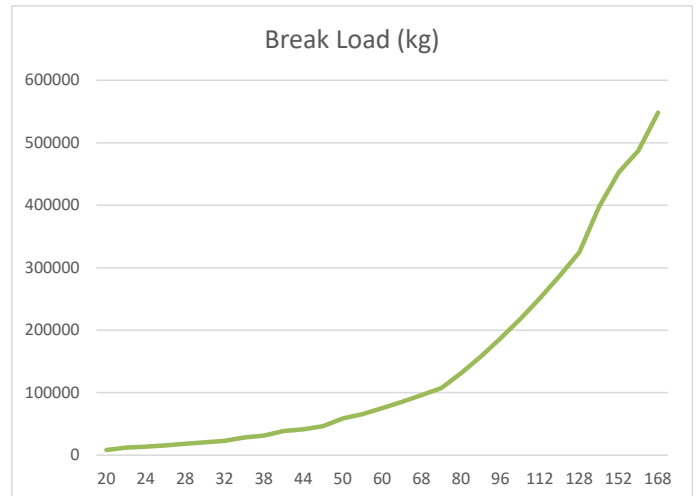


Diameter (mm)	Kg / Reel	Break Load (Kg)
32	184.0	20800
36	233.0	25700
38	260.0	28350
40	288.0	35000
44	348.5	37600
48	414.7	42100
50	450.0	53450
56	565.0	59800
60	648.0	68600
64	737.0	81000
68	832.0	89000
72	933.0	99000
76	1037.0	104000
80	1152.0	116000
82	1210.0	120000
84	1270.0	125000
88	1393.0	135000
92	1522.0	147550
96	1657.0	160600
100	1798.0	174300

# 12-Strand



Diameter (mm)	Kg / Reel	Break Load (Kg)
8	11.6	1595
10	18.0	2519
12	26.0	3795
14	35.3	4840
16	46.0	6600
18	58.3	7700
20	72.0	8140
22	87.0	11880
24	104.0	13750
26	122.0	15675
28	141.0	18150
30	162.0	20570
32	184.0	22880
36	233.0	28270
38	260.0	31185
40	288.0	38500
44	348.5	41360
48	414.7	46310
50	450.0	58795
56	565.0	65780
60	648.0	75460
64	737.0	85500
68	832.0	96000
72	933.0	107200
80	1152.0	131300
88	1394.0	157800
96	1659.0	186600
104	1947.0	217700
112	2258.0	251100
120	2592.0	286800
128	2949.0	324800
142	3630.0	396700
152	4159.0	452300
158	4494.0	487300
168	5080.0	548500



**All Specifications are subject to change without prior notice.**

## Polyester Technical Information

### Fibre Characteristics and Properties

Fibre Type	Nylon	Polyester	Polypropylene	HMPE
Elongation	15-28%	12-18%	18-22%	3.6%
Coefficient of Friction	0.12 - 0.15	0.12 - 0.15	0.15 - 0.22	0.05 - 0.07
Melting Decomposition Temperature	218 ° - 254 ° C	248 ° - 260 ° C	165 ° C	148 ° C
Critical Temperature	162 ° C	176 ° C	121 ° C	65 ° C
Specific Gravity	1.14	1.38	0.91	0.98
Cold-Flow (Creep)	Negligible	Negligible	Application Dependent	Application Dependent
Tenacity (g/den)	7.5 - 10.5	7 - 10	6.5	32 - 40

#### Tenacity

The measurement of the resistance of the fibre at break.

#### Elongation

Refers to the percentage elongation of fibre at break.

#### Elastic Elongation

The portion of stretch or rope extension that is immediately recoverable after the load on the rope is released. This recoverable tendency is a primary result of the fibre type as opposed to the specific rope construction. Each type of synthetic material displays inherent, unique degrees of elasticity. High performance fibres have a low elasticity when compared to nylon fibre.

#### Coefficient of Friction

Based on reluctance to slip or slide. Fibres with a higher coefficient of friction have a greater resistance to slip or slide.

#### Critical Temperature

Defined as the point at which degradation is caused by temperature alone.

#### Cold Flow (Creep)

Defined as a fibre's slow deformation due to molecular slippage under a constant static load over an extended

period. Creep is mostly nonreversible. Do not confuse permanent elongation with creep. Creep is only one of the many ways that results in permanent elongation.

#### Rope Construction

All sizes stated are nominal diameters and do not reflect exact dimensions.

Weights depicted are average net rope weights while relaxed.

Standard tolerances are +/-5% unless otherwise stated.

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