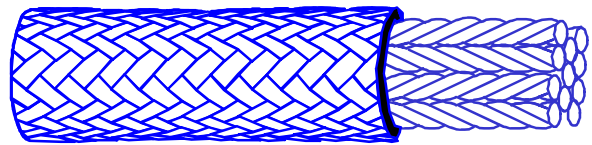


DEEPROPE® DYNEEMA



Construction

The DeepRope® line for mooring applications is a so-called parallel core construction. This construction consists of two parts, namely the core elements and the cover (see figure).

The core elements are three-strand ropes that are oriented parallel to the longitudinal axis of the rope. The cover is a Bexcoline Composite braid that provides dimensional stability to the rope structure and protects the cores from external damage. It is treated with a Marine Finish to further enhance the life of the cover under abrasion loads. The cover braid does not contribute to the strength of the rope. The three-strand core design is used because of the good stretch characteristics and excellent splice strength efficiency exhibited by this type of core design.

Because of its low weight and small diameter a DeepRope® Dyneema® can be transported without special measures. In most cases length is dictated by the use and not by shipping limitations.

Material Properties

Polyethylene is an amorphous plastic with relatively low tensile strength. Through gel spinning the crystals achieves a maximum orientation, this gives the material a high strength and stiffness. And it is commonly known as **H**igh **M**odulus **P**oly**E**thylene. It has an extremely low coefficient of friction and is extremely resistant to abrasion. The thermal properties of HMPE are comparable to ordinary Polyethylene. HMPE is also prone to cold flow and therefore has a high creep rate.

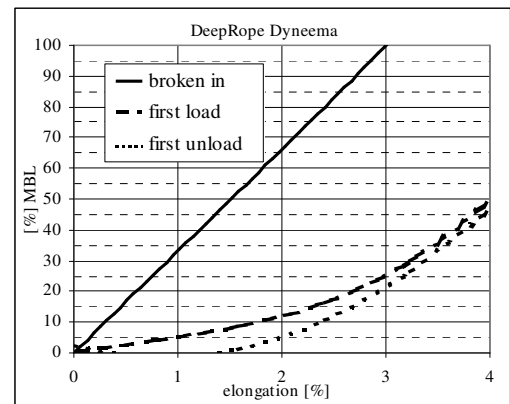
Features

➤	Materials	High Modulus Polyethylene
➤	Construction	load-bearing cores with a protective cover of composite yarn (other covers on request)
➤	Treatment	Marine finish
➤	Colour of Rope	White (Other colours on request)
➤	Approx. Spec. Density	0,975 floating
➤	Melting point	145°C
➤	Abrasion Resistance	Excellent
➤	U.V. resistance	Good
➤	Temperature resistance	70°C max continuous
➤	Chemical resistance	Excellent
➤	Dry & wet conditions	Wet strength equals dry strength
➤	Range of use	Offshore installation mooring

DeepRope® Dyneema® mooring line; Strength table

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Diam inch	MBL		Weight [lb/ft]	Stiffness	
	tf	kips		EA [tf]	EA [kips]
3,17	372	821	2,22	2,07E+04	4,56E+04
3,42	447	985	2,57	2,48E+04	5,47E+04
3,65	521	1149	2,92	2,89E+04	6,38E+04
3,86	596	1313	3,26	3,31E+04	7,29E+04
4,07	670	1477	3,59	3,72E+04	8,20E+04
4,26	745	1642	3,93	4,13E+04	9,11E+04
4,44	819	1806	4,26	4,55E+04	1,00E+05
4,61	894	1970	4,59	4,96E+04	1,09E+05
4,77	968	2134	4,92	5,37E+04	1,18E+05
4,93	1043	2298	5,24	5,79E+04	1,28E+05
5,09	1117	2462	5,56	6,20E+04	1,37E+05
5,24	1191	2627	5,89	6,61E+04	1,46E+05
5,38	1266	2791	6,21	7,03E+04	1,55E+05
5,52	1340	2955	6,53	7,44E+04	1,64E+05
5,66	1415	3119	6,85	7,85E+04	1,73E+05
5,79	1489	3283	7,16	8,27E+04	1,82E+05
5,92	1564	3447	7,48	8,68E+04	1,91E+05
6,05	1638	3612	7,80	9,09E+04	2,00E+05
6,17	1713	3776	8,11	9,51E+04	2,10E+05
6,29	1787	3940	8,43	9,92E+04	2,19E+05
6,41	1862	4104	8,74	1,03E+05	2,28E+05
6,52	1936	4268	9,05	1,07E+05	2,37E+05
6,64	2011	4432	9,37	1,12E+05	2,46E+05
6,75	2085	4597	9,68	1,16E+05	2,55E+05
6,86	2159	4761	9,99	1,20E+05	2,64E+05
6,97	2234	4925	10,3	1,24E+05	2,73E+05
7,07	2308	5089	10,6	1,28E+05	2,82E+05
7,18	2383	5253	10,9	1,32E+05	2,92E+05
7,28	2457	5417	11,2	1,36E+05	3,01E+05
7,38	2532	5582	11,5	1,41E+05	3,10E+05



All measurements conform ISO 2307

Other sizes available upon request