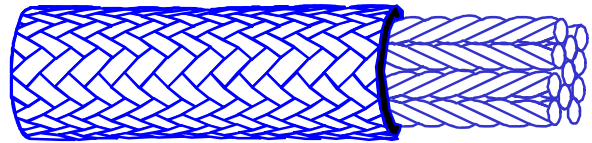


DEEPROPE® DYNEEMA



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.

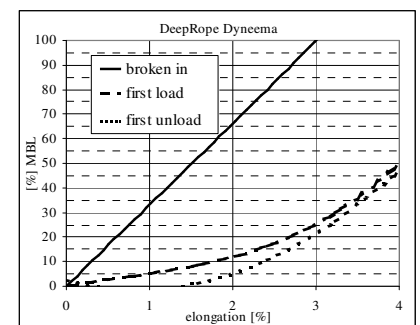
Features

➤	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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Product Code	Diam mm	MBL		Weight Kg/m	Stiffness	
		tf	kN		EA [tf]	EA[kN]
489.081.320	81	372	3649	3,30	2,07E+04	2,03E+05
489.087.320	87	447	4379	3,83	2,48E+04	2,43E+05
489.093.320	93	521	5108	4,34	2,89E+04	2,84E+05
489.098.320	98	596	5838	4,85	3,31E+04	3,24E+05
489.103.320	103	670	6568	5,35	3,72E+04	3,65E+05
489.108.320	108	745	7298	5,85	4,13E+04	4,05E+05
489.113.320	113	819	8027	6,34	4,55E+04	4,46E+05
489.117.320	117	894	8757	6,83	4,96E+04	4,87E+05
489.121.320	121	968	9487	7,32	5,37E+04	5,27E+05
489.125.320	125	1043	10217	7,80	5,79E+04	5,68E+05
489.129.320	129	1117	10946	8,28	6,20E+04	6,08E+05
489.133.320	133	1191	11676	8,76	6,61E+04	6,49E+05
489.137.320	137	1266	12406	9,24	7,03E+04	6,89E+05
489.140.320	140	1340	13136	9,72	7,44E+04	7,30E+05
489.144.320	144	1415	13865	10,2	7,85E+04	7,70E+05
489.147.320	147	1489	14595	10,7	8,27E+04	8,11E+05
489.150.320	150	1564	15325	11,1	8,68E+04	8,51E+05
489.154.320	154	1638	16055	11,6	9,09E+04	8,92E+05
489.157.320	157	1713	16784	12,1	9,51E+04	9,32E+05
489.160.320	160	1787	17514	12,5	9,92E+04	9,73E+05
489.163.320	163	1862	18244	13,0	1,03E+05	1,01E+06
489.166.320	166	1936	18974	13,5	1,07E+05	1,05E+06
489.169.320	169	2011	19703	13,9	1,12E+05	1,09E+06
489.171.320	171	2085	20433	14,4	1,16E+05	1,14E+06
489.174.320	174	2159	21163	14,9	1,20E+05	1,18E+06
489.177.320	177	2234	21893	15,3	1,24E+05	1,22E+06
489.180.320	180	2308	22622	15,8	1,28E+05	1,26E+06
489.182.320	182	2383	23352	16,3	1,32E+05	1,30E+06
489.185.320	185	2457	24082	16,7	1,36E+05	1,34E+06
489.187.320	187	2532	24812	17,2	1,41E+05	1,38E+06



All measurements conform ISO 2307

Other sizes available upon request