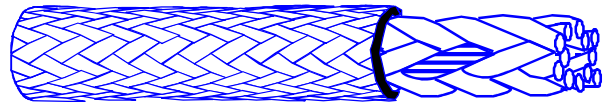


Ultraline HMPE USD12



Construction

Ropes of the ULTRALINE range are of a circular braid design and they have been developed to give a rope extra protection against wear and tear without significantly changing the primary characteristics. It is a logical development from the double-braid, where the outer braid both protects the inner braid and contributes to the strength. In the circular braid design this duality has been abandoned. The cover is optimised for wear and abrasion resistance and the core(s) are optimised for strength. This results in both a higher strength and a better design life.

In this design a braided core is used. It is recommended for applications where high tensile and bending forces are combined. The rope is perfectly round and torque balanced.

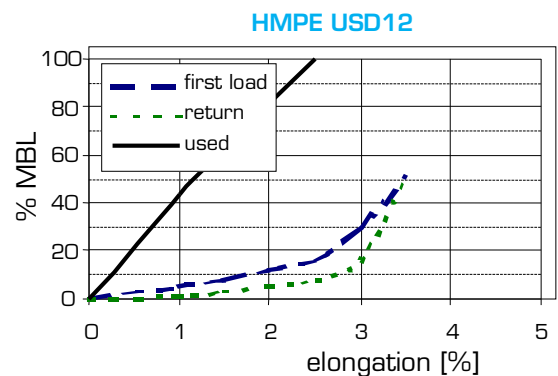
Material Properties

Polyethylene is an amorphous plastic with relatively low tensile strength. Through gel spinning the crystals achieves a maximum orientation, this give 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. HPME is also prone to cold flow and therefore has a high creep rate.

Features

➤ Materials	HMPE (high modulus Polyethylene) Dyneema SK75
➤ Construction	load-bearing cores with a cover of polyester composite yarn
➤ Treatment	On request
➤ Colour of Rope	White
➤ Approx. Spec. Density	0,975 floating
➤ Melting point	145°C
➤ Abrasion Resistance	Excellent
➤ U.V. resistance	Excellent, due to jacket
➤ Temperature resistance	70°C max continuous
➤ Chemical resistance	Excellent
➤ Dry & wet conditions	Wet strength equals dry strength
➤ Range of use	towing, salvage, mooring
➤ Coil length	220m
➤ Spliced strength	± 10% lower
➤ Weight and length tolerance	± 5%
➤ Diameter	± 2%

Dia mm	Circ. inch	Min Break Load		Weight	
		tf	kN	kg/100m	kg/coil
22	2 3/4	38,4	376	30,1	66
24	3	45,5	446	34,9	77
26	3 1/4	53,2	522	40,0	88
28	3 1/2	53,7	527	44,2	97
30	3 3/4	60,7	595	49,1	108
32	4	75,1	737	58,2	128
36	4 1/2	97,6	957	72,9	160
40	5	112	1103	88	194
44	5 1/2	143	1403	108	237
48	6	173	1692	127	280
52	6 1/2	202	1985	146	322
56	7	240	2354	170	374
60	7 1/2	274	2688	194	426
64	8	306	3002	225	495
68	8 1/2	345	3381	253	557
72	9	383	3753	281	619
76	9 1/2	399	3911	309	679
80	10	436	4272	337	742
88	11	528	5177	408	897
96	12	597	5861	486	1069
104	13	705	6913	571	1255



MBL = **M**inimum **B**reaking **L**oad conform ISO 2307

Other sizes available upon request

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