

## Ultraline® Dyneema® 3 strand core

### 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.



Each of the cores consists of a three-strand rope that will be produced in both right-hand lay and left-hand lay. The sub-ropes will be laid parallel to each other. The lay-up of the sub-ropes is such that the finished rope will have a torque-balanced construction.

### 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 internal and external abrasion. The thermal properties of HMPE are comparable to ordinary Polyethylene. HPME is also prone to cold flow.

### FEATURES

- Material: HMPE (high modulus polyethylene)  
Dyneema® SK75
- Construction: load-bearing cores with a cover of 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, installation
- SK 78 on request Technical specifications identical to SK 75.  
Improved creep behaviour

Dia	Circ.	Min Break Load		Weight	
		mm	inch	tf	kN
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	108
32	4	75	737	58	128
36	4 1/2	98	957	73	160
40	5	112	1103	88	194
44	5 1/2	143	1398	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	277	2721	194	426
64	8	315	3087	225	495
68	8 1/2	360	3528	253	557
72	9	405	3969	281	619
76	9 1/2	427	4190	309	679
80	10	472	4631	337	742
88	11	584	5733	408	897
96	12	674	6615	486	1069
104	13	809	7938	571	1255
112	14	842	8264	653	1437
120	15	945	9273	726	1597
128	16	1089	10685	817	1797
136	17	1233	12096	914	2011

Coil length: 220m  
 Spliced strength: ± 10% lower  
 Weight and length tolerance: ± 5%  
 Diameter: ± 2%

MBL = Minimum Breaking Load conform ISO 2307  
 Other sizes available upon request

