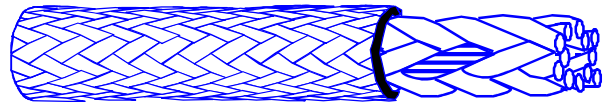


Ultraline HMPE USD12



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.

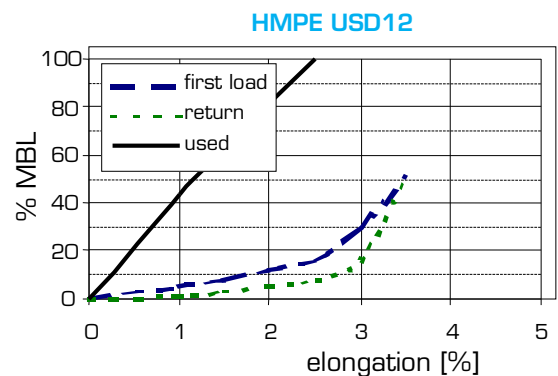
Material Properties

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 | Circ. | 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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