

HMPE Rope 12 Strands single braided

Diam. Ø	Mass	Min. breaking load UNSPLICED		Min. breaking load SPLICED	
		T	kN	T	kN
mm	kg/100m				
4	0,9	1,53	14	1,38	12,6
6	2,3	3,77	37	3,393	33,3
8	4	6,65	65	5,99	58,5
10	6,1	10,4	102	9,36	91,8
12	8,7	15	147	13,5	132,3
14	11,7	20,4	200	18,36	180
16	15,1	26,5	260	23,9	234
18	19	31,6	310	28,44	279
20	23	38,7	380	34,8	342
24	33	53	520	47,7	468
26	38	61,2	600	55,1	540
28	45	69,3	680	62,37	612
30	51	78,5	770	70,7	693
32	58	88,7	870	79,83	783
34	65	97	960	87,3	864
36	72	106	1040	95,4	936
38	80	118	1160	106,2	1044
40	89	128	1260	115,2	1134
42	98	136	1330	122,4	1197
44	107	149	1460	134,1	1314
46	116	163	1600	146,7	1440
48	126	173	1700	155,7	1530
50	137	186	1820	167,4	1638
52	148	201	1970	180,9	1773
56	171	230	2260	207,0	2034
60	195	258	2530	232,2	2277
64	221	290	2840	261,0	2556
68	248	323	3170	290,7	2853
72	278	359	3520	323,1	3168
76	309	397	3890	357,3	3501
80	343	438	4300	394,2	3870
82	362	463	4541	416,7	4086,9
88	417	530	5200	477,0	4680
96	496	630	6180	567	5562
104	586	723	7090	650,7	6381
112	679	831	8150	747,9	7335



High Modulus PolyEthylene rope is one of the strongest, most durable and innovative ropes on the market today. The rope is made from ultra-high molecular weight polyethylene.

The individual HMPE rope yarns are impregnated with a durable coating to reduce abrasion and extend the service life. The strength of HMPE rope is comparable diameter/diameter to steel wire rope. Available in two varieties: Single braided and cover braided rope

Properties

Relative density: Single braided: 0,97 (floats)

Cover braided will vary from 0,97 to 1,15 depending on cover type

Temperature resistance: Melting point 150°C

UV resistance: Excellent - fully stabilized

Extension: 4,5% at break (new rope), reduces to 2% (worked rope)

Flexibility: Light weight and exible for easy handling - good shape retention

Chemical resistance: HMPE excellent, Polyester limited to alkalis

Length measured under reference tension according to ISO 9554.

Minimum breaking load measured according to ISO 2307.

Spliced ropes will on average have 10% lower minimum breaking load. Figures and information are for guidance purpose only.

Typical applications

Winch lines - mooring lines - tow lines - tug assist lines - deep water lift lines - pipe pull lines - wire rope replacements - heavy duty slings - shing lines - oceanographic/ seismic cables - adjustable slings - Chinese fingers