

PRODUCT DATA SHEET

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HOPEX™

Ultra High Molecular Weight Polyethylene

Structure: 12-strand

Made of Ultra High Molecular Weight Polyethylene (UHMWPE) fiber, through special treatment process, very strong but very light, an ideal synthetic rope for the heavy shipping industry. The strength is higher than the steel wire rope of the same size but the weight is only about 1/7 of the steel wire rope. Unique coating treatment and special heat treatment provide excellent wear resistance.

Features

Specific Gravity: 0.97
 Melting Point: 145
 Breaking Elongation: < 4%
 Abrasion Resistance: Very Good
 Chemical Resistance: Very Good
 UV Resistance: Very Good
 Water Absorption: 0%
 Wet-dry Strength Ratio: 100%

Applications

Mooring Lines
 Towing Lines
 Lifting Slings
 Anchor Lines
 Offshore lines
 Pick Up Lines /Messenger Lines
 Oceanographic Cables
 Fishing Farming
 Wind Farm Lines



Code	Dia		Circ. inch	Weight		Unspliced MBL		LDBF, Spliced MBL	
	mm	inch		kg/100m	lbs/100ft	ton	kN	ton	kN
6101604	6	1/4	3/4	2.3	1.5	4.1	40	3.7	36
6101605	8	5/16	15/16	4.0	2.7	7.0	69	6.3	62
6101607	10	3/8	1-1/8	6.1	4.1	10.7	105	9.7	95
6101608	12	1/2	1-1/2	8.7	5.8	15.3	150	13.8	135
6101609	14	9/16	1-3/4	11.7	7.9	20.4	200	18.4	180
6101610	16	5/8	2	15.2	10.2	26.0	255	23.5	230
6101611	18	3/4	2-1/4	19.0	12.8	32.1	315	29.1	285
6101612	20	13/16	2-1/2	23.3	15.6	38.8	380	34.7	340
6101613	22	7/8	2-3/4	28.0	18.8	45.9	450	41.3	405
6101614	24	1	3	33.1	22.2	53.1	520	48.0	470
6101615	26	1-1/16	3-1/4	38.6	25.9	61.2	600	55.1	540
6101616	28	1-1/8	3-1/2	44.5	29.9	69.9	685	62.8	615
6101617	30	1-1/4	3-3/4	50.8	34.1	79.1	775	71.4	700
6101618	32	1-5/16	4	57.5	38.6	88.3	865	79.6	780
6101619	34	1-11/32	4-1/4	64.6	43.4	98.5	965	88.8	870
6101620	36	1-7/16	4-1/2	72.2	48.5	109.2	1070	98.5	965
6101621	38	1-1/2	4-3/4	80.1	53.8	119.9	1175	108.2	1060
6101622	40	1-5/8	5	88.4	59.3	131.1	1285	117.9	1155
6101623	44	1-3/4	5-1/2	106.2	71.3	155.6	1525	140.3	1375
6101625	48	2	6	125.5	84.3	181.1	1775	163.3	1600
6101626	52	2-1/8	6-1/2	146.4	98.3	208.7	2045	187.8	1840
6101627	56	2-1/4	7	168.8	113.3	237.8	2330	213.8	2095
6101628	60	2-1/2	7-1/2	192.8	129.4	268.9	2635	241.8	2370
6101630	64	2-5/8	8	218.3	146.6	301.0	2950	270.9	2655
6101631	68	2-3/4	8-1/2	245.3	164.7	335.2	3285	301.5	2955
6101633	72	3	9	273.8	183.8	370.9	3635	333.7	3270
6101634	76	3-1/8	9-1/2	303.8	204.0	408.2	4000	367.3	3600
6101636	80	3-1/4	10	335.3	225.1	446.4	4375	402.0	3940
6101638	88	3-5/8	11	402.8	270.4	528.6	5180	475.5	4660
6101640	96	4	12	476.2	319.7	616.3	6040	554.6	5435
6101641	100	4-1/8	12-1/2	515.1	345.8	662.8	6495	596.4	5845
6101642	104	4-1/4	13	555.5	372.9	710.2	6960	639.3	6265
6101644	108	4-1/2	13-1/2	597.3	401.0	759.2	7440	683.2	6695
6101645	112	4-5/8	14	640.6	430.1	809.7	7935	728.6	7140
6101646	116	4-3/4	14-1/2	685.4	460.2	861.2	8440	775.0	7595
6101648	120	5	15	731.6	491.2	914.3	8960	823.0	8065

- a. Bespoke diameter and length is available.
- b. ±5% tolerance according to ISO 2307:2010.
- c. LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4(MEG4)

