FIBER ROPES






QINGDAO VENIT IMPORT AND EXPORT CO., LTD
Tel: +86-532-80921252
Fax: +86-532-80921252
Wechat / WhatsApp: +86-18954297651
Sales Manger: Jason E-mail: sales@qdvenit.com
Address: 1002, UNIT 1, BUILDING 2, DALAO ROAD 1066, LICANG DISTRICT, QINGDAO, SHANDONG, CHINA
Website: WWW.QDVENIT.COM

VENIT

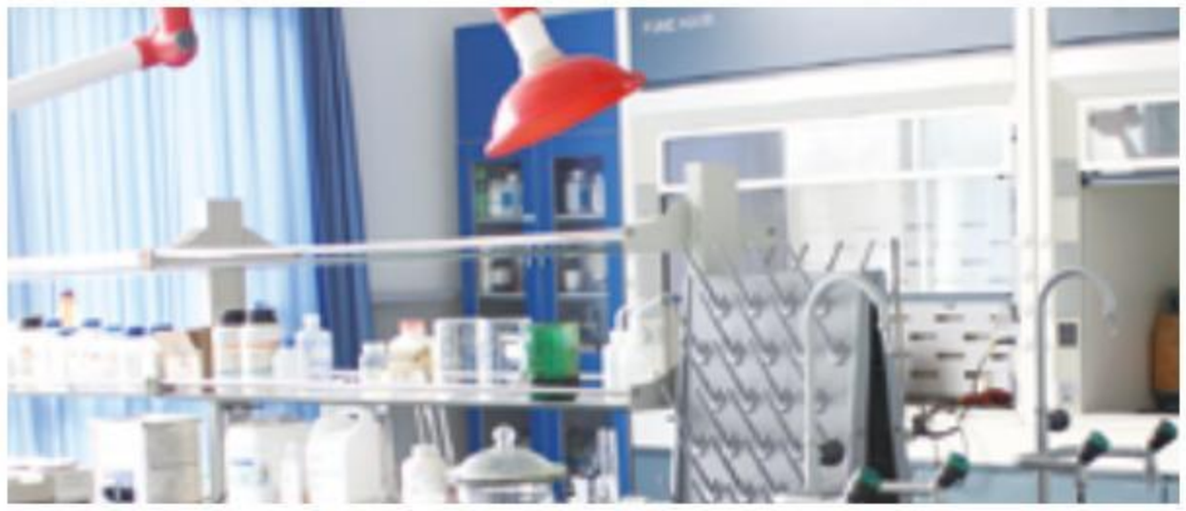
MARINE

FISHING

OFFSHORE

LIFTING

ELECTRICITY



QUALITY

VENIT implemented a quality management system according to the requirements of the ISO 9001:2015 standard in order to guarantee that the conception, development and production of products respected.

The production process is meticulously controlled and quality controls can be carried out during any phase, whether initial, intermediate or final. Aware of the importance of investigation and technological innovation applied to quality control, we have our own laboratories for measuring and testing in a scientific and reliable way. These laboratories are completely adequate for testing our range of products. In one of our labs, we test the physical property ; in the other one we conduct testing of chemical performance .We also have a test bench that is able to measure loads of up to 500 Tons.

MARINE

FASTVO

Ultra High Molecular Weight Polyethylene

Structure: 8/12-Strand

Made of Ultra High Molecular Weight Polyethylene(HMPE) fiber, through special treatment, very high break strength and light weight, break strength is 1.5 times higher than same size steel wire rope but weight is super light, around 1/8 of same size steel wire rope.

Features:
Specific Gravity: 0.97g/cm³
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:
Davit
Lifting Sling
Tugging Main Line
Fishing Line
Mooring Line
Offroad Winch Rope
General Working Line

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
6	1/4	3/4	2.3	1.5	4.1	40	3.7	36
8	5/16	15/16	4.0	2.7	7.0	69	6.3	62
10	3/8	1-1/8	6.1	4.1	10.7	105	9.7	95
12	1/2	1-1/2	8.7	5.8	15.3	150	13.8	135
14	9/16	1-3/4	11.7	7.8	20.4	200	18.4	180
16	5/8	2	15.1	10.1	26.0	255	23.5	230
18	3/4	2-1/4	19.0	12.7	32.1	315	29.1	285
20	13/16	2-1/2	23.2	15.6	38.8	380	34.7	340
22	7/8	2-3/4	28.1	18.8	45.9	450	41.3	405
24	1	3	33.1	22.2	53.1	520	48.0	470
26	1-1/16	3-1/4	38.4	25.8	61.2	600	55.1	540
28	1-1/8	3-1/2	44.5	29.8	69.9	685	62.8	615
30	1-1/4	3-3/4	50.6	33.9	79.1	775	71.4	700
32	1-5/16	4	57.5	38.6	88.3	865	79.6	780
36	1-1/2	4-1/2	72.0	48.3	109.2	1070	98.5	965
40	1-5/8	5	88.1	59.1	131.1	1285	117.9	1155
44	1-3/4	5-1/2	106.0	71.1	155.6	1525	140.3	1375
48	2	6	125.0	83.8	181.1	1775	163.3	1600
52	2-1/8	6-1/2	146.0	97.9	208.7	2045	187.8	1840
56	2-1/4	7	169.0	113.4	237.8	2330	213.8	2095
60	2-1/2	7-1/2	193.0	129.5	268.9	2635	241.8	2370
64	2-5/8	8	220.0	147.6	301.0	2950	270.9	2655
68	2-3/4	8-1/2	248.0	166.3	335.2	3285	301.5	2955
72	3	9	278.0	186.5	370.9	3635	333.7	3270
76	3-1/8	9-1/2	309.0	207.3	408.2	4000	367.3	3600
80	3-1/4	10	343.0	230.1	446.4	4375	402.0	3940
88	3-5/8	11	417.0	279.7	528.6	5180	475.5	4660
96	4	12	497.0	333.4	616.3	6040	554.6	5435
100	4-1/8	12-1/2	515.1	345.5	662.8	6495	596.4	5845
104	4-1/4	13	555.5	372.6	710.2	6960	639.3	6265
108	4-1/2	13-1/2	597.3	400.6	759.2	7440	683.2	6695
112	4-5/8	14	640.4	429.5	809.7	7935	728.6	7140
116	4-3/4	14-1/2	685.4	459.7	861.2	8440	775.0	7595
120	5	15	731.6	490.7	914.3	8960	823.0	8065

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

VENIT

FASTVO PLUS

UHMWPE & High Tenacity Polyester

Structure: Polyester Jacket Outside & 12-Strand HMPE Inside

This structure is non-rotative and torque free construction, the rope will not kink, round and firm structure makes rope grip well. Also braided jacket enhance rope with excellent wear resistance.

Features:
Specific Gravity: 0.97~1.09g/ cm^3
Melting Point: 260℃ /145℃
Breaking Elongation: 5%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Very Good
Water Absorption: 0%
Wet-dry Strength Ratio: Dry≈ Wet

Applications:
Davit
Lifting Sling
Tugging Main Line
Mooring Line
Winch Line
General Working Line

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
20	13/16	2-1/2	25.9	17.4	27.7	271	24.9	244
22	7/8	2-3/4	31.3	21.0	34.8	341	31.3	307
24	1	3	36.7	24.6	41.0	402	36.9	362
26	1-1/16	3-1/4	43.2	29.0	48.1	471	43.3	424
28	1-1/8	3-1/2	49.7	33.3	56.0	549	50.4	494
30	1-1/4	3-3/4	57.2	38.4	65.0	637	58.5	573
32	1-5/16	4	64.8	43.5	75.1	736	67.6	662
36	1-1/2	4-1/2	83.2	55.8	93.1	912	83.8	821
40	1-5/8	5	101.5	68.1	116.3	1140	105.1	1030
44	1-3/4	5-1/2	124.2	83.3	140.8	1380	126.5	1240
48	2	6	146.9	98.5	164.3	1610	148.0	1450
52	2-1/8	6-1/2	172.8	115.9	195.9	1920	176.5	1730
56	2-1/4	7	199.8	134.0	223.5	2190	201.0	1970
60	2-1/2	7-1/2	229.0	153.6	257.1	2520	231.6	2270
64	2-5/8	8	259.2	173.9	293.9	2880	264.3	2590
68	2-3/4	8-1/2	293.8	197.0	332.7	3260	299.0	2930
72	3	9	331.6	222.4	370.4	3630	333.7	3270
76	3-1/8	9-1/2	367.2	246.3	410.2	4020	369.4	3620
80	3-1/4	10	405.0	271.6	460.2	4510	414.3	4060
88	3-5/8	11	486.0	326.0	545.9	5350	491.8	4820
96	4	12	572.4	383.9	640.8	6280	576.5	5650

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

FASTVO PRO

Ultra High Molecular Weight Polyethylene

Structure: HMPE Jacket Outside & 12-Strand HMPE Inside

This combination makes the rope with extremely high strength & low stretch, and the braided jacket offers superior resistance to UV & chemicals, more wear resistance, excellent gripping properties and a torque-free construction.

Features:
Specific Gravity: 0.97g/cm³
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:
Davit
Lifting Sling
Tugging Main Line
Mooring Line
Winch Line
General Working Line

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
20	13/16	2-1/2	24.0	16.1	27.7	271	24.9	244
22	7/8	2-3/4	29.0	19.5	34.8	341	31.3	307
24	1	3	34.0	22.8	41.0	402	36.9	362
26	1-1/16	3-1/4	40.0	26.8	48.1	471	43.3	424
28	1-1/8	3-1/2	46.0	30.9	56.0	549	50.4	494
30	1-1/4	3-3/4	53.0	35.5	65.0	637	58.5	573
32	1-5/16	4	60.0	40.2	75.1	736	67.6	662
36	1-1/2	4-1/2	77.0	51.6	93.1	912	83.8	821
40	1-5/8	5	94.0	63.0	116.3	1140	105.1	1030
44	1-3/4	5-1/2	115.0	77.1	140.8	1380	126.5	1240
48	2	6	136.0	91.2	164.3	1610	148.0	1450
52	2-1/8	6-1/2	160.0	107.3	195.9	1920	176.5	1730
56	2-1/4	7	185.0	124.1	223.5	2190	201.0	1970
60	2-1/2	7-1/2	212.0	142.2	257.1	2520	231.6	2270
64	2-5/8	8	240.0	161.0	293.9	2880	264.3	2590
68	2-3/4	8-1/2	272.0	182.4	332.7	3260	299.0	2930
72	3	9	307.0	205.9	370.4	3630	333.7	3270
76	3-1/8	9-1/2	340.0	228.0	410.2	4020	369.4	3620
80	3-1/4	10	375.0	251.5	460.2	4510	414.3	4060
88	3-5/8	11	450.0	301.8	545.9	5350	491.8	4820
96	4	12	530.0	355.5	640.8	6280	576.5	5650

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

FASTVO MIX

UHMWPE & High Tenacity Polyester Mixed

Structure: 8/12-Strand

Made of UHMWPE & High Tenacity Polyester Mixed fiber, through special treatment, very high break strength and light weight, makes rope grip well and excellent abrasion resistance.

Features:
Specific Gravity: 1g/cm³
Melting Point: 145℃
Breaking Elongation: < 5%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Very Good
Water Absorption: 0%
Wet-dry Strength Ratio: Dry≈Wet

Applications:
Lifting Sling
Tugging Main Line
Fishing Line
Mooring Line
Winch Rope
General Working Line

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
16	5/8	2	11.3	7.6	13.5	133	12.3	121
18	3/4	2-1/4	18.7	12.5	21.8	213	19.8	194
22	7/8	2-3/4	25.0	16.8	29.0	285	26.4	259
24	1	3	32.1	21.5	38.0	372	34.5	338
28	1-1/8	3-1/2	39.3	26.4	46.8	458	42.5	417
30	1-1/4	3-3/4	48.7	32.7	59.3	581	53.9	528
32	1-5/16	4	50.9	34.1	63.4	621	57.6	564
36	1-1/2	4-1/2	67.7	45.4	83.9	823	76.3	748
40	1-5/8	5	78.4	52.6	97.9	959	89.0	872
44	1-3/4	5-1/2	91.7	61.5	115.5	1132	105.0	1029
48	2	6	116.0	77.8	149.6	1466	136.0	1333
52	2-1/8	6-1/2	133.0	89.2	171.6	1682	156.0	1529
56	2-1/4	7	146.0	97.9	187.0	1833	170.0	1666
60	2-1/2	7-1/2	183.0	122.7	243.1	2382	221.0	2166
64	2-5/8	8	199.0	133.5	265.1	2598	241.0	2362
68	2-3/4	8-1/2	217.0	145.5	292.6	2867	266.0	2607
72	3	9	259.0	173.7	349.8	3428	318.0	3116
80	3-1/4	10	305.0	204.6	415.8	4075	378.0	3704

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

DURA-AR

Excellent Heat Resistance Aramid

Structure: 8/12-Strand

It's best rope for extreme high temperature working condition, heat and flex fatigue resistant, perform very well through pulleys and winches.

Features:
Specific Gravity: 1.44g/cm³
Melting Point: 450℃ ~ 500℃
Breaking Elongation: < 3%
Abrasion Resistance: Good
Chemical Resistance: Very Good
UV Resistance: Normal
Water Absorption: 4%
Wet-dry Strength Ratio: Dry > Wet

Applications:
Winch Line
Control Line
Lifting Sling

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
6	1/4	3/4	2.9	2.0	2.6	25	2.3	23
8	5/16	15/16	5.2	3.5	4.6	45	4.2	41
10	3/8	1-1/8	8.1	5.4	7.4	73	6.7	66
12	1/2	1-1/2	11.6	7.8	10.1	99	9.2	90
16	5/8	2	20.7	13.9	17.6	172	15.9	156
18	3/4	2-1/4	26.2	17.6	23.2	227	21.0	206
20	13/16	2-1/2	32.5	21.8	27.7	271	25.1	246
24	1	3	46.5	31.2	41.4	406	37.7	369
28	1-1/8	3-1/2	63.2	42.4	57.8	566	52.6	515
32	1-5/16	4	82.8	55.5	72.7	712	66.0	647
36	1-1/2	4-1/2	105.0	70.4	78.4	768	71.2	698
40	1-5/8	5	129.0	86.5	96.3	944	87.6	858
44	1-3/4	5-1/2	157.0	105.3	117.3	1150	106.1	1040
48	2	6	186.0	124.8	138.8	1360	126.5	1240
52	2-1/8	6-1/2	219.0	146.9	163.3	1600	148.0	1450
56	2-1/4	7	254.0	170.4	189.8	1860	172.4	1690
60	2-1/2	7-1/2	291.0	195.2	217.3	2130	196.9	1930
64	2-5/8	8	331.0	222.0	246.9	2420	224.5	2200
72	3	9	419.0	281.0	312.2	3060	283.7	2780
80	3-1/4	10	518.0	347.4	386.7	3790	351.0	3440
88	3-5/8	11	627.0	420.5	467.3	4580	424.5	4160
96	4	12	746.0	500.4	556.1	5450	506.1	4960
104	4-1/4	13	875.0	586.9	653.1	6400	593.9	5820
108	4-1/2	13-1/2	935.0	627.1	678.5	6649	622.4	6100
112	4-5/8	14	1005.0	674.1	732.7	7180	673.5	6600
116	4-3/4	14-1/2	1080.0	724.4	785.7	7700	724.5	7100
120	5	15	1152.0	772.7	831.6	8150	765.3	7500

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

DURA-PA DOUBLE BRAID

High Tenacity Polyamide

Structure: Double Braid

Double braid rope is non-rotative and torque free construction, the rope will not kink, round and firm structure makes rope grip well. Also double braid construction is very flexible and enhance rope with high strength and excellent wear resistance.

Features:
Specific Gravity: 1.14g/cm³
Melting Point: 215℃
Breaking Elongation: 30%~ 35%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Very Good
Water Absorption: 4%
Wet-dry Strength Ratio: Dry ＞ Wet

Applications:
Anchor Line
Dock Line
Shock Line
Mooring Line
Lifting Sling

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
22	7/8	2-3/4	30.4	20.4	10.6	104	9.5	93
24	1	3	39.6	26.6	13.7	134	11.9	117
26	1-1/16	3-1/4	44.6	29.9	15.4	151	13.8	135
28	1-1/8	3-1/2	50.0	33.5	17.1	168	15.3	150
30	1-1/4	3-3/4	61.8	41.5	21.0	206	18.9	185
32	1-5/16	4	68.0	45.6	23.1	226	20.4	200
36	1-1/2	4-1/2	88.8	59.6	29.9	293	26.8	263
40	1-5/8	5	104.2	69.9	35.0	343	31.4	308
44	1-3/4	5-1/2	120.5	80.8	40.5	397	36.4	357
48	2	6	157.7	105.8	52.8	517	47.4	465
52	2-1/8	6-1/2	178.6	119.8	59.3	581	53.3	522
56	2-1/4	7	199.4	133.7	66.1	648	59.5	583
60	2-1/2	7-1/2	245.6	164.7	81.3	797	73.2	717
64	2-5/8	8	269.4	180.7	89.2	874	80.2	786
68	2-3/4	8-1/2	322.9	216.6	105.5	1034	94.9	930
72	3	9	352.7	236.6	114.2	1119	102.8	1007
80	3-1/4	10	428.6	287.5	136.0	1333	122.3	1199
88	3-5/8	11	513.4	344.4	162.1	1589	145.9	1430
96	4	12	625.0	419.2	194.1	1902	174.5	1710
104	4-1/4	13	726.2	487.1	224.4	2199	201.9	1979
112	4-5/8	14	834.9	560.0	253.4	2483	228.0	2234
120	5	15	976.3	654.8	294.1	2882	264.5	2592

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

DURA-PES DOUBLE BRAID

High Tenacity Polyester

Structure: Double Braid

Leader among all popular fibers for weatherability characteristics, polyester exhibits excellent abrasion resistance and strength. Good resistance to UV light and most common chemicals. This rope offers excellent gripping properties and a torque-free construction.

Features:
Specific Gravity: 1.38~1.44g/cm³
Melting Point: 250~260℃
Breaking Elongation: 20%~ 30%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Very Good
Water Absorption: 0.4%
Wet-dry Strength Ratio: Dry≈Wet

Applications:
Winch Line
Control Line
Lifting Sling

Dia	Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
22	7/8	2-3/4	36.3	24.3	9.8	96	8.8	86
24	1	3	47.5	31.9	12.7	124	11.4	112
26	1-1/16	3-1/4	53.6	36.0	14.4	141	12.9	127
28	1-1/8	3-1/2	60.1	40.3	16.1	158	14.5	142
30	1-1/4	3-3/4	74.1	49.7	19.8	194	17.8	175
32	1-5/16	4	81.9	54.9	21.8	214	19.7	193
36	1-1/2	4-1/2	106.9	71.7	28.2	276	25.3	248
40	1-5/8	5	125.0	83.8	32.7	320	29.4	288
44	1-3/4	5-1/2	145.4	97.5	37.6	368	33.8	331
48	2	6	190.5	127.8	48.8	478	43.9	430
52	2-1/8	6-1/2	214.3	143.7	54.3	532	48.9	479
56	2-1/4	7	239.6	160.7	60.0	588	54.0	529
60	2-1/2	7-1/2	296.1	198.6	73.1	716	65.8	644
64	2-5/8	8	327.4	219.6	80.4	788	72.4	709
68	2-3/4	8-1/2	391.4	262.5	95.5	936	86.0	842
72	3	9	427.1	286.5	103.3	1012	92.9	911
80	3-1/4	10	520.9	349.4	124.9	1224	112.4	1102
88	3-5/8	11	623.5	418.2	147.4	1445	132.7	1301
96	4	12	759.0	509.1	178.5	1749	160.6	1574
104	4-1/4	13	882.5	591.9	204.2	2001	183.8	1801
112	4-5/8	14	1014.9	680.7	231.5	2269	208.4	2042
120	5	15	1187.6	796.6	269.5	2641	242.5	2377

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

VENIT

DURA-PA 3/8/12

High Tenacity Polyamide

Structure: 3/8/12-Strand

Made of polyamide fiber, the rope has good shock-absorption capacities and widely use in ship towing.

Features:
Specific Gravity: 1.14g/cm³
Melting Point: 215℃
Breaking Elongation: 15%~28%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Very Good
Water Absorption: 4%
Wet-dry Strength Ratio: Dry > Wet

Applications:
Anchor Line
Dock Line
Shock Line
Mooring Line
Lifting Sling

Dia		Circ.	Weight		8-Strand				12-Strand			
					Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN	ton	kN	ton	kN
12	1/2	1-1/2	9.0	6.0	3.1	30	2.8	27	3.2	32	2.9	28
16	5/8	2	16.0	10.7	5.4	53	4.9	48	5.7	56	5.1	50
20	13/16	2-1/2	25.0	16.8	8.2	80	7.3	72	8.7	85	7.8	77
24	1	3	36.0	24.1	11.4	112	10.3	101	12.0	118	10.8	106
28	1-1/8	3-1/2	49.0	32.9	15.3	150	13.8	135	16.3	160	14.7	144
30	1-1/4	3-3/4	56.0	37.6	17.3	170	15.6	153	18.4	180	16.5	162
32	1-5/16	4	64.0	42.9	20.4	200	18.4	180	21.6	212	19.5	191
36	1-1/2	4-1/2	81.0	54.3	25.5	250	23.0	225	27.0	265	24.4	239
40	1-5/8	5	100.0	67.1	30.6	300	27.6	270	32.1	315	29.0	284
44	1-3/4	5-1/2	121.0	81.2	36.2	355	32.7	320	38.3	375	34.5	338
48	2	6	144.0	96.6	43.4	425	39.1	383	45.9	450	41.3	405
52	2-1/8	6-1/2	170.0	114.0	51.0	500	45.9	450	54.1	530	48.7	477
56	2-1/4	7	197.0	132.1	57.1	560	51.4	504	61.2	600	55.1	540
60	2-1/2	7-1/2	226.0	151.6	64.3	630	57.9	567	68.4	670	61.5	603
64	2-5/8	8	257.0	172.4	72.4	710	65.2	639	76.5	750	68.9	675
72	3	9	325.0	218.0	91.8	900	82.7	810	96.9	950	87.2	855
80	3-1/4	10	401.0	269.0	114.3	1120	102.9	1008	120.4	1180	108.4	1062
88	3-5/8	11	486.0	326.0	134.7	1320	121.2	1188	142.9	1400	128.6	1260
96	4	12	578.0	387.7	163.3	1600	146.9	1440	173.5	1700	156.1	1530
104	4-1/4	13	678.0	454.8	183.7	1800	165.3	1620	193.9	1900	174.5	1710
112	4-5/8	14	787.0	527.9	216.3	2120	194.7	1908	228.6	2240	205.7	2016
120	5	15	903.0	605.7	240.8	2360	216.7	2124	255.1	2500	229.6	2250
128	5-1/4	16	1010.0	677.4	270.4	2650	243.4	2385	285.7	2800	257.1	2520
136	5-5/8	17	1160.0	778.0	306.1	3000	275.5	2700	321.4	3150	289.3	2835
144	6	18	1300.0	872.0	341.8	3350	307.7	3015	362.2	3550	326.0	3195
160	6-5/8	20	1610.0	1079.9	433.7	4250	390.3	3825	459.2	4500	413.3	4050

DURA-PA 3

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
12	1/2	1-1/2	9.4	6.3	2.9	28	2.6	25
14	9/16	1-3/4	11.9	8.0	3.6	36	3.3	32
16	5/8	2	14.7	9.9	4.5	44	4.0	40
18	3/4	2-1/4	21.3	14.3	6.5	63	5.8	57
22	7/8	2-3/4	29.0	19.5	8.7	85	7.8	77
24	1	3	37.7	25.3	11.2	110	10.1	99
26	1-1/16	3-1/4	42.7	28.6	12.7	124	11.4	112
28	1-1/8	3-1/2	47.9	32.1	14.3	140	12.9	126
30	1-1/4	3-3/4	59.1	39.6	17.6	172	15.8	155
32	1-5/16	4	65.0	43.6	19.3	189	17.3	170
36	1-1/2	4-1/2	84.8	56.9	24.5	240	22.0	216
40	1-5/8	5	100.2	67.2	28.9	283	26.0	255
44	1-3/4	5-1/2	116.0	77.8	33.3	327	30.0	294
48	2	6	149.0	99.9	42.6	418	38.4	376
52	2-1/8	6-1/2	168.0	112.7	48.1	471	43.3	424
56	2-1/4	7	189.0	126.8	54.0	529	48.6	476
60	2-1/2	7-1/2	234.0	157.0	66.2	649	59.6	584
64	2-5/8	8	258.0	173.0	72.7	712	65.4	641
68	2-3/4	8-1/2	310.0	207.9	86.3	846	77.7	761
72	3	9	336.0	225.4	93.5	917	84.2	825
80	3-1/4	10	409.0	274.3	113.0	1108	101.7	997
88	3-5/8	11	484.0	324.6	124.7	1222	112.2	1100
96	4	12	576.0	386.3	136.1	1333	122.4	1200
100	4-1/8	12-1/12	625.0	419.2	142.4	1396	128.2	1256

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

DURA-PES 3/8/12

High Tenacity Polyester

Structure: 3/8/12-Strand

High-tenacity polyester fiber makes rope have very good break strength and finest durability, it's widely use in mooring industry.

Dia		Circ.	Weight		8-Strand				12-Strand			
					Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN	ton	kN	ton	kN
12	1/2	1-1/2	10.9	7.3	2.6	26	2.4	23	2.9	29	2.7	26
16	5/8	2	19.4	13.0	4.6	45	4.2	41	4.9	48	4.5	44
20	13/16	2-1/2	30.4	20.4	7.2	71	6.6	64	7.7	76	7.0	69
24	1	3	43.7	29.3	10.3	101	9.4	92	11.0	108	10.0	98
28	1-1/8	3-1/2	59.5	39.9	13.5	132	12.3	120	14.6	143	13.3	130
30	1-1/4	3-3/4	68.3	45.8	15.1	148	13.7	135	16.3	160	14.8	145
32	1-5/16	4	77.7	52.1	17.2	168	15.6	153	18.5	182	16.8	165
36	1-1/2	4-1/2	98.4	66.0	21.8	213	19.8	194	23.6	231	21.4	210
40	1-5/8	5	121.0	81.2	27.0	265	24.6	241	28.6	281	26.0	255
44	1-3/4	5-1/2	147.0	98.6	32.1	314	29.1	286	34.9	342	31.7	311
48	2	6	175.0	117.4	38.4	376	34.9	342	41.0	402	37.2	365
52	2-1/8	6-1/2	205.0	137.5	45.8	449	41.6	408	49.4	484	44.9	440
56	2-1/4	7	238.0	159.6	51.5	505	46.8	459	55.0	539	50.0	490
60	2-1/2	7-1/2	273.0	183.1	57.2	561	52.0	510	61.2	600	55.6	545
64	2-5/8	8	311.0	208.6	64.1	628	58.3	571	69.6	682	63.3	620
72	3	9	393.0	263.6	81.3	797	73.9	724	86.4	847	78.6	770
80	3-1/4	10	486.0	326.0	103.0	1010	93.7	918	110.0	1078	100.0	980
88	3-5/8	11	588.0	394.4	121.4	1189	110.3	1081	129.1	1265	117.3	1150
96	4	12	699.0	468.8	143.1	1403	130.1	1275	151.5	1485	137.8	1350
104	4-1/4	13	821.0	550.7	171.7	1683	156.1	1530	185.2	1815	168.4	1650
112	4-5/8	14	952.0	638.5	194.6	1907	176.9	1734	207.7	2035	188.8	1850
120	5	15	1090.0	731.1	217.5	2132	197.8	1938	230.1	2255	209.2	2050
128	5-1/4	16	1240.0	831.7	256.5	2513	233.1	2285	269.4	2640	244.9	2400
136	5-5/8	17	1400.0	939.0	286.2	2805	260.2	2550	303.1	2970	275.5	2700
144	6	18	1570.0	1053.0	320.6	3142	291.4	2856	352.0	3450	316.3	3100
160	6-5/8	20	1940.0	1301.2	383.5	3759	348.7	3417	413.3	4050	372.4	3650

Features:
Specific Gravity: 1.38~1.44g/cm³
Melting Point: 250~260 C
Breaking Elongation: 12%~21%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Very Good
Water Absorption: 0.4%
Wet-dry Strength Ratio: Dry≈Wet

Applications:
Mooring Line
H-Bitt
Working Line
Lifting Sling
Shock Line

DURA-PES 3

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
12	1/2	1-1/2	11.5	7.7	2.5	25	2.3	22
14	9/16	1-3/4	14.6	9.8	3.2	31	2.9	28
16	5/8	2	17.9	12.0	3.9	38	3.5	34
18	3/4	2-1/4	25.6	17.2	5.5	54	5.0	49
22	7/8	2-3/4	34.8	23.3	7.5	74	6.8	66
24	1	3	45.2	30.3	9.8	96	8.8	86
26	1-1/16	3-1/4	50.9	34.1	10.9	107	9.8	96
28	1-1/8	3-1/2	57.3	38.4	12.2	120	11.0	108
30	1-1/4	3-3/4	69.2	46.4	14.8	145	13.3	130
32	1-5/16	4	75.9	50.9	16.1	158	14.5	142
36	1-1/2	4-1/2	99.7	66.9	20.9	205	18.8	184
40	1-5/8	5	116.1	77.9	24.3	238	21.9	215
44	1-3/4	5-1/2	135.4	90.8	28.2	277	25.4	249
48	2	6	174.1	116.8	35.6	348	32.0	314
52	2-1/8	6-1/2	197.9	132.7	40.0	392	36.0	353
56	2-1/4	7	221.7	148.7	44.8	439	40.3	395
60	2-1/2	7-1/2	273.8	183.6	54.3	532	48.9	479
64	2-5/8	8	302.1	202.6	59.8	586	53.8	527
68	2-3/4	8-1/2	361.6	242.5	71.2	698	64.1	628
72	3	9	392.9	263.5	77.1	756	69.4	680
80	3-1/4	10	480.7	322.4	93.1	912	83.8	821
88	3-5/8	11	580.8	389.6	111.1	1089	100.0	980
96	4	12	691.2	463.6	127.2	1247	114.5	1122
100	4-1/8	12-1/12	750.0	503.0	136.1	1333	122.4	1200

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

VENIT

DURA-PP 3/8/12

High Tenacity Polypropylene

Structure: 3/8/12-Strand

Light weight mooring line, very easy to handle, keep same strength in wet or dry environment.

Features:
Specific Gravity: 0.91~0.93g/cm³
Melting Point: 165℃
Breaking Elongation: 12%~20%
Abrasion Resistance: Normal
Chemical Resistance: Very Good
UV Resistance: Normal
Water Absorption: 0.01%
Wet-dry Strength Ratio: Dry≈Wet

Applications:
Mooring Line
Barge Working Line
H-Bitt Working Line
Utility Working line
Fishery

Dia		Circ.	Weight		8-Strand				12-Strand			
					Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN	ton	kN	ton	kN
12	1/2	1-1/2	6.5	4.4	2.2	21	1.9	19	2.3	22	2.1	20
16	5/8	2	11.6	7.8	3.4	34	3.1	30	3.6	36	3.3	32
20	13/16	2-1/2	18.1	12.1	5.4	53	4.9	48	5.7	56	5.1	50
24	1	3	26.0	17.4	7.7	75	6.9	68	8.2	80	7.3	72
28	1-1/8	3-1/2	35.4	23.7	10.2	100	9.2	90	10.8	106	9.7	95
30	1-1/4	3-3/4	40.7	27.3	11.4	112	10.3	101	12.0	118	10.8	106
32	1-5/16	4	46.3	31.1	13.5	132	12.1	119	14.3	140	12.9	126
36	1-1/2	4-1/2	58.6	39.3	16.3	160	14.7	144	17.3	170	15.6	153
40	1-5/8	5	72.3	48.5	20.4	200	18.4	180	21.4	210	19.3	189
44	1-3/4	5-1/2	87.5	58.7	24.1	236	21.6	212	25.5	250	23.0	225
48	2	6	104.0	69.8	28.6	280	25.7	252	30.6	300	27.6	270
52	2-1/8	6-1/2	122.0	81.8	34.2	335	30.8	302	36.2	355	32.7	320
56	2-1/4	7	142.0	95.2	38.3	375	34.5	338	40.8	400	36.7	360
60	2-1/2	7-1/2	163.0	109.3	43.4	425	39.1	383	45.9	450	41.3	405
64	2-5/8	8	185.0	124.1	48.5	475	43.7	428	51.0	500	45.9	450
72	3	9	234.0	157.0	61.2	600	55.1	540	64.3	630	57.9	567
80	3-1/4	10	289.0	193.8	76.5	750	68.9	675	81.6	800	73.5	720
88	3-5/8	11	350.0	234.8	91.8	900	82.7	810	96.9	950	87.2	855
96	4	12	417.0	279.7	108.2	1060	97.3	954	114.3	1120	102.9	1008
104	4-1/4	13	489.0	328.0	127.6	1250	114.8	1125	134.7	1320	121.2	1188
112	4-5/8	14	567.0	380.3	142.9	1400	128.6	1260	153.1	1500	137.8	1350
120	5	15	651.0	436.6	163.3	1600	146.9	1440	173.5	1700	156.1	1530
128	5-1/4	16	741.0	497.0	193.9	1900	174.5	1710	204.1	2000	183.7	1800
136	5-5/8	17	836.0	560.7	216.3	2120	194.7	1908	228.6	2240	205.7	2016
144	6	18	937.0	628.5	240.8	2360	216.7	2124	255.1	2500	229.6	2250
160	6-5/8	20	1160.0	778.0	285.7	2800	257.1	2520	306.1	3000	275.5	2700

DURA-PP 3

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
12	1/2	1-1/2	6.9	4.6	2.1	21	1.9	19
14	9/16	1-3/4	8.8	5.9	2.6	25	2.3	23
16	5/8	2	10.7	7.2	3.2	31	2.8	28
18	3/4	2-1/4	15.5	10.4	4.3	42	3.9	38
22	7/8	2-3/4	21.2	14.2	5.9	57	5.3	52
24	1	3	26.9	18.0	7.3	71	6.5	64
26	1-1/16	3-1/4	30.4	20.4	8.1	80	7.3	72
28	1-1/8	3-1/2	34.0	22.8	9.0	88	8.1	80
30	1-1/4	3-3/4	41.2	27.6	10.9	107	9.8	97
32	1-5/16	4	45.4	30.5	11.9	117	10.7	105
36	1-1/2	4-1/2	58.8	39.4	15.4	151	13.9	136
40	1-5/8	5	68.6	46.0	18.0	177	16.2	159
44	1-3/4	5-1/2	79.1	53.1	20.9	204	18.8	184
48	2	6	102.9	69.0	26.4	259	23.8	233
52	2-1/8	6-1/2	116.4	78.1	29.7	291	26.7	262
56	2-1/4	7	131.3	88.1	33.6	329	30.2	296
60	2-1/2	7-1/2	159.6	107.0	40.7	399	36.6	359
64	2-5/8	8	179.0	120.1	45.5	446	40.9	401
68	2-3/4	8-1/2	210.4	141.1	53.4	523	48.1	471
72	3	9	228.3	153.1	57.9	568	52.1	511
80	3-1/4	10	277.5	186.1	68.6	672	61.7	605
88	3-5/8	11	340.0	228.0	72.8	713	65.5	642
96	4	12	405.5	272.0	86.8	851	78.2	766
100	4-1/8	12-1/12	440.0	295.1	94.2	923	84.8	831

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

DURA-MONO 6

High Tenacity Polyamide

Structure: 6-Strand

6-strand construction keeps rope round, polyamide monofilament combined with polyamide multifilament ensure the rope have excellent abrasion resistance and UV resistance. Round and stiff construction makes rope easy to go through on winch, compared with steel rope, it's much lighter and easier to handle, a good replacement of steel rope.

Features:
Specific Gravity: 1.14g/ cm^3
Melting Point: 215℃
Breaking Elongation: 15%~28%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Very Good
Water Absorption: 4%
Wet-dry Strength Ratio: Dry > Wet

Applications:
Mooring Line
Winch Line

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
40	1-5/8	5	108	72.4	33.6	329	30.5	299
44	1-3/4	5-1/2	126	84.5	45.1	442	41.0	402
48	2	6	149	99.9	55.0	539	50.0	490
52	2-1/8	6-1/2	166	111.3	58.3	571	53.0	519
56	2-1/4	7	208	139.5	72.6	711	66.0	647
60	2-1/2	7-1/2	220	147.6	78.1	765	71.0	696
64	2-5/8	8	250	167.7	86.9	852	79.0	774
68	2-3/4	8-1/2	284	190.5	102.3	1003	93.0	911
72	3	9	331	222.0	115.5	1132	105.0	1029
76	3-1/8	9-1/2	385	258.2	133.1	1304	121.0	1186
80	3-1/4	10	419	281.0	144.1	1412	131.0	1284
84	3-1/2	10-1/2	430	288.4	154.0	1509	140.0	1372
88	3-5/8	11	488	327.3	167.2	1639	152.0	1490
92	3-3/4	11-1/2	508	340.7	180.4	1768	164.0	1607
96	4	12	580	389.0	203.5	1994	185.0	1813

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

VENIT

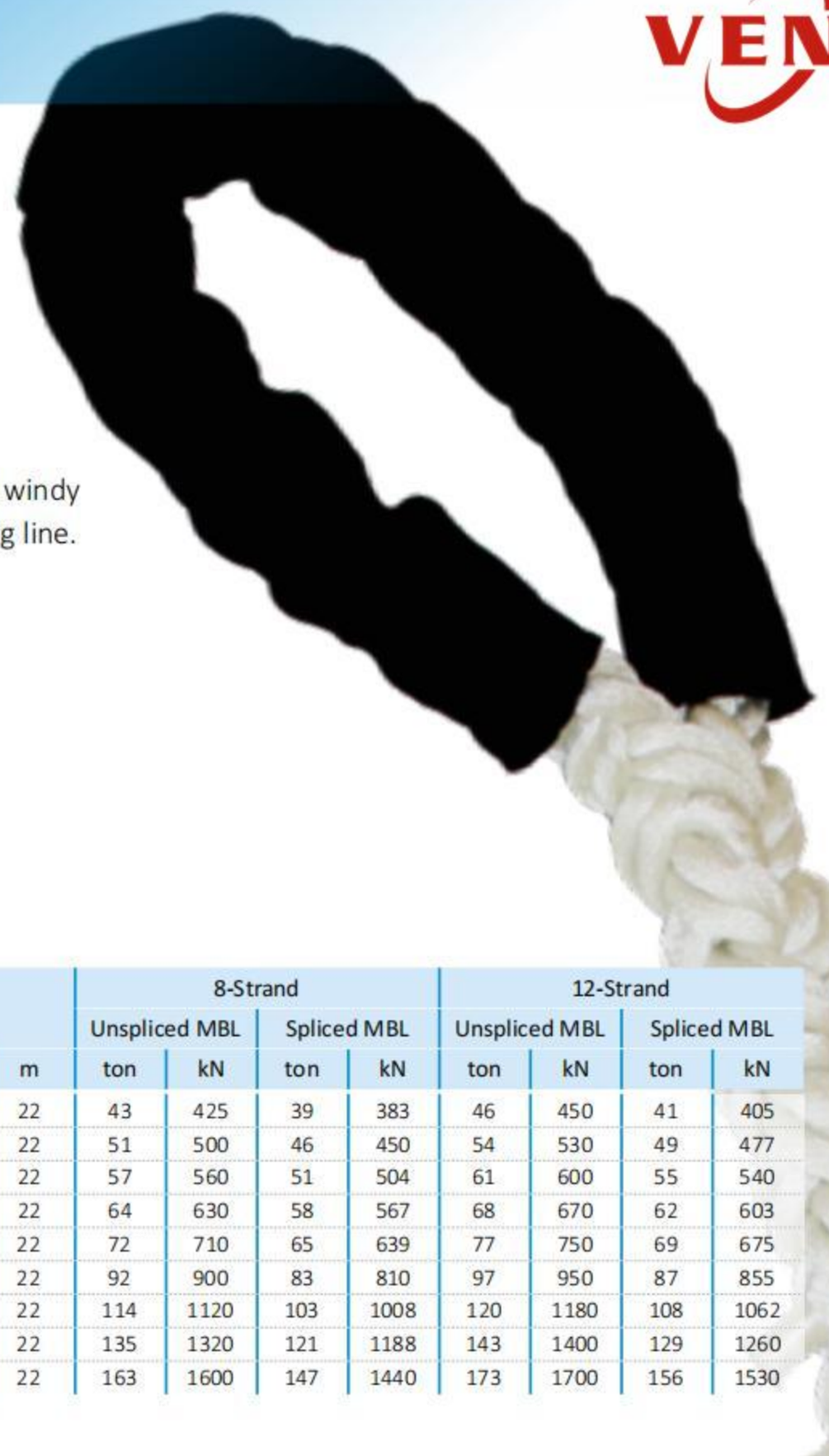
MOORING TAIL

Structure: 8/12 strand

Mooring tails provide good elasticity and sudden shock absorption when windy weather or big wave comes, it's a necessary protection for primary mooring line.

Features:
Easy to splice
UV resistance
Rot-proof
High abrasion resistance

Applications:
General working line
Mooring tails



MOORING TAIL POLYAMIDE

Dia		Circ.	Weight		Eye length		Total Length				8-Strand				12-Strand			
											Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	inch	mm	ft	m	ft	m	ton	kN	ton	kN	ton	kN	ton	kN
48	2	6	144	97	70	1800	36	11	72	22	43	425	39	383	46	450	41	405
52	2-1/8	6-1/2	170	114	70	1800	36	11	72	22	51	500	46	450	54	530	49	477
56	2-1/4	7	197	132	70	1800	36	11	72	22	57	560	51	504	61	600	55	540
60	2-1/2	7-1/2	226	152	70	1800	36	11	72	22	64	630	58	567	68	670	62	603
64	2-5/8	8	257	173	70	1800	36	11	72	22	72	710	65	639	77	750	69	675
72	3	9	325	218	70	1800	36	11	72	22	92	900	83	810	97	950	87	855
80	3-1/4	10	401	269	70	1800	36	11	72	22	114	1120	103	1008	120	1180	108	1062
88	3-5/8	11	486	326	70	1800	36	11	72	22	135	1320	121	1188	143	1400	129	1260
96	4	12	578	388	70	1800	36	11	72	22	163	1600	147	1440	173	1700	156	1530

MOORING TAIL POLYESTER

Dia		Circ.	Weight		Eye length		Total Length				8-Strand				12-Strand			
											Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	inch	mm	ft	m	ft	m	ton	kN	ton	kN	ton	kN	ton	kN
48	2	6	175	117	70	1800	36	11	72	22	39	380	35	345	42	408	37	365
52	2-1/8	6-1/2	205	138	70	1800	36	11	72	22	46	450	42	410	50	489	45	440
56	2-1/4	7	238	160	70	1800	36	11	72	22	53	515	47	460	56	546	50	490
60	2-1/2	7-1/2	273	183	70	1800	36	11	72	22	55	540	53	518	62	610	56	545
64	2-5/8	8	311	209	70	1800	36	11	72	22	63	620	59	580	70	690	63	620
72	3	9	393	264	70	1800	36	11	72	22	82	800	74	730	88	863	79	770
80	3-1/4	10	486	326	70	1800	36	11	72	22	102	1000	92	900	111	1090	100	980
88	3-5/8	11	588	395	70	1800	36	11	72	22	122	1200	107	1050	128	1250	117	1150
96	4	12	699	469	70	1800	36	11	72	22	143	1400	131	1280	154	1510	138	1350

MOORING TAIL TOUGH MIX

Dia		Circ.	Weight		Eye length		Total Length				8-Strand				12-Strand			
											Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	inch	mm	ft	m	ft	m	ton	kN	ton	kN	ton	kN	ton	kN
48	2	6	111	75	70	1800	36	11	72	22	37	364	33	328	41	404	37	364
52	2-1/8	6-1/2	132	89	70	1800	36	11	72	22	43	424	39	382	48	471	43	424
56	2-1/4	7	152	102	70	1800	36	11	72	22	50	489	45	440	55	543	50	489
60	2-1/2	7-1/2	175	117	70	1800	36	11	72	22	57	558	51	502	63	620	57	558
64	2-5/8	8	199	134	70	1800	36	11	72	22	64	631	58	568	72	701	64	631
68	2-3/4	8-1/2	225	151	70	1800	36	11	72	22	72	707	65	636	80	786	72	707
72	3	9	252	169	70	1800	36	11	72	22	81	789	72	710	89	877	81	789
80	3-1/4	10	311	209	70	1800	36	11	72	22	98	963	88	867	109	1070	98	963
88	3-5/8	11	375	252	70	1800	36	11	72	22	118	1160	107	1044	132	1290	118	1160
96	4	12	447	300	70	1800	36	11	72	22	140	1370	126	1230	155	1520	140	1370

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

CHAFE GUARD

Polyester

Chafe protection products that maximize the service life by providing additional protection from cutting and abrasions.

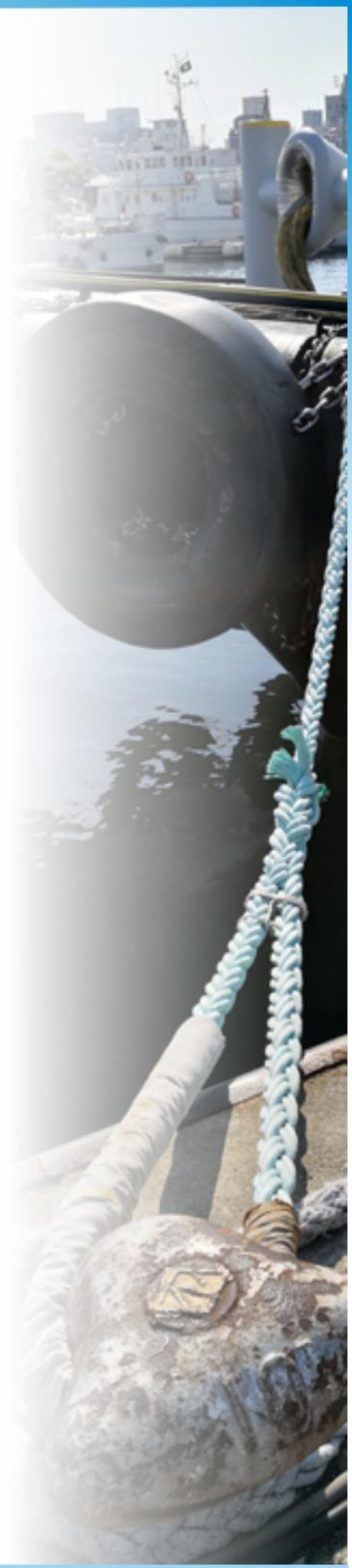
Rope Dia	Width	Rope Dia	Width
under40mm	200mm	70-80mm	400mm
40mm-50mm	250mm	80-90mm	450mm
50-60mm	300mm	90-100mm	500mm
60-70mm	350mm	100-110mm	550mm

CHAFE GUARD PRO

Ultra High Molecular Weight Polyethylene

The special coating enhances the abrasion resistance and further helps reduce internal and external fiber damage accumulated by the core rope.
Offers excellent chafe protection for the ropes.

Size	Rope Size	Size	Rope Size
S	Under 40mm	L	60-80mm
M	40-60mm	XL	80-100mm



FISHING

TOUGH MIX 3/8/12

High Tenacity Polypropylene & Polyester Mixed

Structure: 3/8/12-Strand

Dia		Circ.	Weight		8-Strand				12-Strand			
					Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN	ton	kN	ton	kN
12	1/2	1-1/2	7.0	4.7	2.7	26	2.3	23	2.9	28	2.6	25
14	9/16	1-3/4	9.5	6.4	3.6	35	3.2	31	3.9	38	3.5	34
16	5/8	2	12.4	8.3	4.6	45	4.1	40	5	49	4.5	44
18	3/4	2-1/4	15.7	10.5	5.7	56	5.2	51	6.3	62	5.7	56
20	13/16	2-1/2	19.4	13.0	7	69	6.3	62	7.8	76	6.9	68
22	7/8	2-3/4	23.5	15.8	8.4	82	7.6	74	9.2	90	8.3	81
24	1	3	27.9	18.7	9.8	96	8.9	87	10.8	106	9.7	95
26	1-1/16	3-1/4	32.8	22.0	11.5	113	10.4	102	12.7	124	11.4	112
28	1-1/8	3-1/2	38.0	25.5	13.3	130	11.9	117	14.6	143	13.2	129
30	1-1/4	3-3/4	43.7	29.3	15.1	148	13.6	133	16.6	163	14.9	146
32	1-5/16	4	49.7	33.3	17	167	15.3	150	18.8	184	16.8	165
36	1-1/2	4-1/2	62.9	42.2	21.4	210	19.3	189	23.6	231	21.2	208
40	1-5/8	5	77.6	52.1	26.2	257	23.6	231	28.9	283	25.9	254
44	1-3/4	5-1/2	93.9	63.0	31.4	308	28.3	277	34.6	339	31.1	305
48	2	6	111.0	74.5	37.1	364	33.5	328	40.8	400	36.8	361
52	2-1/8	6-1/2	132.0	88.5	43.3	424	39.0	382	47.6	466	42.9	420
56	2-1/4	7	152.0	102.0	49.9	489	44.9	440	54.9	538	49.4	484
60	2-1/2	7-1/2	175.0	117.4	56.9	558	51.2	502	62.7	614	56.3	552
64	2-5/8	8	199.0	133.5	64.4	631	58.0	568	70.8	694	63.8	625
68	2-3/4	8-1/2	225.0	150.9	72.1	707	64.9	636	79.4	778	71.4	700
72	3	9	252.0	169.0	80.5	789	72.4	710	88.6	868	79.7	781
80	3-1/4	10	311.0	208.6	98.3	963	88.5	867	108.1	1059	97.3	954
88	3-5/8	11	375.0	251.5	118.4	1160	106.1	1040	130.2	1276	116.7	1144
96	4	12	447.0	299.8	139.8	1370	125.5	1230	153.8	1507	138.1	1353
104	4-1/4	13	526.0	352.8	162.2	1590	145.9	1430	178.5	1749	160.5	1573
112	4-5/8	14	605.0	405.8	187.8	1840	169.4	1660	206.5	2024	186.3	1826
120	5	15	698.0	468.2	214.3	2100	192.9	1890	235.7	2310	212.1	2079
128	5-1/4	16	795.0	533.2	241.8	2370	217.3	2130	266.0	2607	239.1	2343
136	5-5/8	17	895.0	600.3	271.4	2660	243.9	2390	298.6	2926	268.3	2629
144	6	18	1010.0	677.4	303.1	2970	272.4	2670	333.4	3267	299.7	2937
152	6-1/4	19	1130.0	757.9	335.7	3290	302	2960	369.3	3619	332.2	3256
160	6-5/8	20	1250.0	838.4	370.4	3630	333.7	3270	407.4	3993	367.0	3597

Updated product of High Tenacity polyester & polypropylene, it's superior to pure polyester or polypropylene only, lighter weight than polyester and stronger break strength than polypropylene, this rope is smooth, non-rotational and excellent coefficient of friction.

Features:
Specific Gravity: 0.99g/cm³
Melting Point: 165/260°C
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Very Good
Water Absorption: 0%
Wet-dry Strength Ratio: Dry≈Wet

Applications:
Mooring and Tie-up Line
Mooring Pendants
Tug Assist Line

TOUGH MIX 3

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
12	1/2	1-1/2	9.2	6.2	2.2	22	2.0	20
14	9/16	1-3/4	11.8	7.9	2.7	26	2.3	23
16	5/8	2	14.1	9.5	3.1	30	2.8	27
18	3/4	2-1/4	20.1	13.5	4.3	42	3.8	37
22	7/8	2-3/4	26.8	18.0	5.6	55	5.0	49
24	1	3	32.4	21.7	6.6	65	6.0	59
26	1-1/16	3-1/4	36.5	24.5	7.4	73	6.7	66
28	1-1/8	3-1/2	40.3	27.0	8.3	81	7.4	73
30	1-1/4	3-3/4	49.7	33.3	10.0	98	9.1	89
32	1-5/16	4	54.3	36.4	11.1	109	10.0	98
36	1-1/2	4-1/2	69.9	46.9	14.3	140	12.9	126
40	1-5/8	5	81.9	54.9	16.6	163	15.0	147
44	1-3/4	5-1/2	92.3	61.9	18.6	182	16.7	164
48	2	6	120.5	80.8	24.3	238	21.8	214
52	2-1/8	6-1/2	135.4	90.8	27.2	267	24.5	240
56	2-1/4	7	150.3	100.8	30.2	296	27.2	267
60	2-1/2	7-1/2	184.5	123.8	37.1	364	33.4	327
64	2-5/8	8	202.4	135.8	40.7	399	36.6	359
68	2-3/4	8-1/2	239.6	160.7	48.2	472	43.3	424
72	3	9	258.9	173.7	51.9	509	46.7	458
80	3-1/4	10	315.5	211.6	61.9	607	55.7	546
88	3-5/8	11	385.0	258.2	72.8	713	65.5	642
96	4	12	460.0	308.5	87.3	856	78.6	770
100	4-1/8	12-1/2	500.0	335.4	96.3	944	86.7	850

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

TOUGH-HS

High Tenacity Polyolefin

Structure: 3/8/12-Strand

Made of high tenacity polyolefin fiber, which is the stronger rope among PP, PE and Polyolefin ropes. Excellent breaking strength and remarkable abrasion resistance.

Features:
Specific Gravity: 0.91~0.93g/cm³
Melting Point: 165℃
Breaking Elongation: 12%~20%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Good
Water Absorption: 0.01%
Wet-dry Strength Ratio: Dry≈Wet

Applications:
Folating Tow Line
Mooring Line
Tie-up Line
Fishing Line

Dia		Circ.	Weight		8-Strand				12-Strand			
					Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN	ton	kN	ton	kN
12	1/2	1-1/2	6.5	4.4	2.6	25	2.3	23	2.7	27	2.5	24
14	9/16	1-3/4	8.9	6.0	3.5	34	3.2	31	3.7	36	3.3	33
16	5/8	2	11.6	7.8	4.5	44	4.1	40	4.8	47	4.3	43
18	3/4	2-1/4	14.7	9.9	5.6	55	5.1	50	6.1	59	5.4	53
20	13/16	2-1/2	18.1	12.1	6.9	68	6.2	61	7.4	73	6.7	66
22	7/8	2-3/4	21.9	14.7	8.4	82	7.6	74	8.9	87	8.0	79
24	1	3	26.1	17.5	9.9	97	8.9	87	10.6	104	9.6	94
26	1-1/16	3-1/4	30.6	20.5	11.5	113	10.4	102	12.3	121	11.1	109
28	1-1/8	3-1/2	35.5	23.8	13.3	130	11.9	117	14.2	139	12.8	125
30	1-1/4	3-3/4	40.8	27.4	15.1	148	13.6	133	16.1	158	14.5	142
32	1-5/16	4	46.4	31.1	17.0	167	15.3	150	18.3	179	16.4	161
36	1-1/2	4-1/2	58.7	39.4	21.3	209	19.3	189	22.9	224	20.6	202
40	1-5/8	5	72.5	48.6	26.1	256	23.6	231	28.0	274	25.2	247
44	1-3/4	5-1/2	87.7	58.8	31.2	306	28.1	275	33.4	327	30.0	294
48	2	6	104.0	69.8	36.7	360	33.1	324	39.3	385	35.4	347
52	2-1/8	6-1/2	122.0	81.8	42.8	419	38.5	377	45.7	448	41.1	403
56	2-1/4	7	142.0	95.2	49.0	480	44.2	433	52.4	514	47.2	463
60	2-1/2	7-1/2	163.0	109.3	55.6	545	50.1	491	59.5	583	53.6	525
64	2-5/8	8	186.0	124.8	62.7	614	56.3	552	67.0	657	60.3	591
68	2-3/4	8-1/2	210.0	140.9	70.3	689	63.3	620	75.2	737	67.7	663
72	3	9	235.0	157.6	78.2	766	70.4	690	83.7	820	75.3	738
80	3-1/4	10	290.0	194.5	94.9	930	85.4	837	101.5	995	91.4	896
88	3-5/8	11	351.0	235.4	113.5	1112	102.0	1000	121.4	1190	109.2	1070
96	4	12	417.0	279.7	133.5	1308	120.2	1178	142.9	1400	128.6	1260
104	4-1/4	13	490.0	328.7	154.5	1514	139.2	1364	165.3	1620	149.0	1460
112	4-5/8	14	568.0	381.0	179.3	1757	161.1	1579	191.8	1880	172.4	1690
120	5	15	652.0	437.3	203.2	1991	183.1	1794	217.3	2130	195.9	1920
128	5-1/4	16	742.0	497.7	230.8	2262	207.9	2037	246.9	2420	222.4	2180
136	5-5/8	17	838.0	562.1	259.4	2542	233.7	2290	277.6	2720	250.0	2450
144	6	18	939.0	629.8	289.9	2841	261.3	2561	310.2	3040	279.6	2740
152	6-1/4	19	1050.0	704.3	301.3	2953	289.9	2841	322.4	3160	310.2	3040
160	6-5/8	20	1160.0	778.0	356.6	3495	321.4	3150	381.6	3740	343.9	3370

TOUGH-HS 3

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
12	1/2	1-1/2	7.1	4.8	2.6	25	2.2	22
14	9/16	1-3/4	9.1	6.1	3.1	30	2.8	27
16	5/8	2	11.2	7.5	3.8	37	3.4	33
18	3/4	2-1/4	16.1	10.8	5.1	50	4.6	45
22	7/8	2-3/4	22.0	14.8	7.1	70	6.4	63
24	1	3	27.8	18.6	8.7	85	7.8	76
26	1-1/16	3-1/4	31.5	21.1	9.7	95	8.7	85
28	1-1/8	3-1/2	35.3	23.7	10.8	106	9.7	95
30	1-1/4	3-3/4	42.7	28.6	13.1	128	11.7	115
32	1-5/16	4	47.0	31.5	14.3	140	12.9	126
36	1-1/2	4-1/2	61.0	40.9	18.4	180	16.5	162
40	1-5/8	5	71.1	47.7	21.5	211	19.4	190
44	1-3/4	5-1/2	82.0	55.0	24.9	244	22.4	220
48	2	6	106.9	71.7	31.5	309	28.4	278
52	2-1/8	6-1/2	120.7	81.0	35.5	348	31.9	313
56	2-1/4	7	136.2	91.4	40.1	393	36.0	353
60	2-1/2	7-1/2	165.2	110.8	48.5	475	43.7	428
64	2-5/8	8	186.0	124.8	54.5	534	49.0	480
68	2-3/4	8-1/2	218.8	146.8	63.9	626	57.4	563
72	3	9	236.6	158.7	69.4	680	62.4	612
80	3-1/4	10	287.2	192.6	81.9	803	73.8	723
88	3-5/8	11	385.0	258.2	104.4	1023	94.0	921
96	4	12	460.0	308.5	112.2	1100	101.0	990
100	4-1/8	12-1/2	500.0	335.4	123.5	1210	111.1	1089

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

TOUGH PLUS

High Tenacity Polypropylene

Structure: 3/8/12-Strand

Dia		Circ.	Weight		8-Strand				12-Strand			
					Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN	ton	kN	ton	kN
12	1/2	1-1/2	6.5	4.4	2	23	2	21	2.4	24	2.2	22
14	9/16	1-3/4	8.9	6.0	3	31	3	28	3.4	33	3.1	30
16	5/8	2	11.6	7.8	4	40	4	36	4.4	43	4.0	39
18	3/4	2-1/4	14.7	9.9	5	50	5	45	5.5	54	5.0	49
20	13/16	2-1/2	18.1	12.1	6	62	6	56	6.7	66	6.1	60
22	7/8	2-3/4	21.9	14.7	8	74	7	67	8.1	79	7.3	72
24	1	3	26.1	17.5	9	88	8	80	9.7	95	8.7	85
26	1-1/16	3-1/4	30.6	20.5	11	103	9	93	11.2	110	10.1	99
28	1-1/8	3-1/2	35.5	23.8	12	118	11	106	12.9	126	11.6	114
30	1-1/4	3-3/4	40.8	27.4	14	134	12	121	14.7	144	13.2	129
32	1-5/16	4	46.4	31.1	16	152	14	137	16.6	163	14.9	146
36	1-1/2	4-1/2	58.7	39.4	19	190	18	172	20.8	204	18.8	184
40	1-5/8	5	72.5	48.6	24	233	21	210	25.4	249	23.0	225
44	1-3/4	5-1/2	87.7	58.8	28	278	26	250	30.3	297	27.2	267
48	2	6	104.0	69.8	33	327	30	295	35.7	350	32.1	315
52	2-1/8	6-1/2	122.0	81.8	39	381	35	342	41.5	407	37.3	366
56	2-1/4	7	142.0	95.2	45	437	40	393	47.7	467	43.0	421
60	2-1/2	7-1/2	163.0	109.3	51	495	46	446	54.1	530	48.7	477
64	2-5/8	8	186.0	124.8	57	558	51	502	60.9	597	54.8	537
68	2-3/4	8-1/2	210.0	140.9	64	626	57	563	68.4	670	61.5	603
72	3	9	235.0	157.6	71	697	64	627	76.0	745	68.5	671
80	3-1/4	10	290.0	194.5	86	845	78	761	92.3	905	83.2	815
88	3-5/8	11	351.0	235.4	103	1011	93	909	110.4	1082	99.3	973
96	4	12	417.0	279.7	121	1189	109	1071	129.9	1273	116.8	1145
104	4-1/4	13	490.0	328.7	140	1376	127	1240	150.3	1473	135.4	1327
112	4-5/8	14	568.0	381.0	163	1597	147	1436	174.4	1709	156.7	1536
120	5	15	652.0	437.3	185	1810	166	1631	197.6	1936	178.1	1745
128	5-1/4	16	742.0	497.7	210	2056	189	1852	224.5	2200	202.2	1982
136	5-5/8	17	838.0	562.1	236	2311	212	2082	252.3	2473	227.2	2227
144	6	18	939.0	629.8	264	2583	238	2328	282.0	2764	254.2	2491
152	6-1/4	19	1050.0	704.3	274	2685	264	2583	293.2	2873	282.0	2764
160	6-5/8	20	1160.0	778.0	324	3178	292	2863	346.9	3400	312.7	3064

High strength floating rope. Excellent anti-abrasion properties contribute to longer working life, 3/8/12 strand structure makes this rope a multi purpose ideal for general industrial & commercial fishing applications.

Features:
Specific Gravity: 0.96g/cm³
Melting Point: 165℃
Breaking Elongation: 12%~20%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Good
Water Absorption: 0.01%
Wet-dry Strength Ratio: Dry≈Wet

Applications:
Folating Tow Line
Mooring Line
Tie-up Line
Fishing Line
Mooring Pick-up Line

TOUGH-PLUS 3

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
12	1/2	1-1/2	7.1	4.8	2.3	23	2.1	20
14	9/16	1-3/4	9.1	6.1	2.8	28	2.5	25
16	5/8	2	11.2	7.5	3.4	33	3.1	30
18	3/4	2-1/4	16.1	10.8	4.7	46	4.2	41
22	7/8	2-3/4	22.0	14.8	6.5	64	5.9	58
24	1	3	27.8	18.6	7.9	77	7.1	69
26	1-1/16	3-1/4	31.5	21.1	8.8	86	7.9	78
28	1-1/8	3-1/2	35.3	23.7	9.8	96	8.8	86
30	1-1/4	3-3/4	42.7	28.6	11.8	116	10.7	104
32	1-5/16	4	47.0	31.5	13.0	127	11.7	114
36	1-1/2	4-1/2	61.0	40.9	16.7	164	15.1	148
40	1-5/8	5	71.1	47.7	19.6	192	17.6	173
44	1-3/4	5-1/2	82.0	55.0	22.7	222	20.4	200
48	2	6	106.9	71.7	28.7	281	25.8	253
52	2-1/8	6-1/2	120.7	81.0	32.2	316	29.0	284
56	2-1/4	7	136.2	91.4	36.4	357	32.8	321
60	2-1/2	7-1/2	165.2	110.8	44.1	432	39.7	389
64	2-5/8	8	186.0	124.8	49.5	485	44.5	437
68	2-3/4	8-1/2	218.8	146.8	58.1	569	52.3	512
72	3	9	236.6	158.7	63.1	618	56.8	556
80	3-1/4	10	287.2	192.6	74.5	730	67.0	657
88	3-5/8	11	385.0	258.2	94.9	930	85.4	837
96	4	12	460.0	308.5	102.0	1000	91.8	900
100	4-1/8	12-1/2	500.0	335.4	112.2	1100	101.0	990

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

TOUGH-PP

High Tenacity Polypropylene

Structure: 3/8/12-Strand

Made by normal polypropylene fiber, makes this mooring line with light weight, very easy to handle and keep same strength in wet or dry environment. Floats and good UV resistance.

Features:
Specific Gravity: 0.91~0.93g/cm³
Melting Point: 165℃
Breaking Elongation: 12%~20%
Abrasion Resistance: Normal
Chemical Resistance: Very Good
UV Resistance: Normal
Water Absorption: 0.01%
Wet-dry Strength Ratio: Dry≈Wet

Applications:
Folating Tow Line
Mooring Line
Tie-up Line
Fishing Line
Mooring Pick-up Line

Dia		Circ.	Weight		8-Strand				12-Strand			
					Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN	ton	kN	ton	kN
12	1/2	1-1/2	6.5	4.4	2.2	21	1.9	19	2.3	22	2.1	20
16	5/8	2	11.6	7.8	3.4	34	3.1	30	3.6	36	3.3	32
20	13/16	2-1/2	18.1	12.1	5.4	53	4.9	48	5.7	56	5.1	50
24	1	3	26.1	17.5	7.7	75	6.9	68	8.2	80	7.3	72
28	1-1/8	3-1/2	35.5	23.8	10.2	100	9.2	90	10.8	106	9.7	95
30	1-1/4	3-3/4	40.8	27.4	11.4	112	10.3	101	12.0	118	10.8	106
32	1-5/16	4	46.4	31.1	13.5	132	12.1	119	14.3	140	12.9	126
36	1-1/2	4-1/2	58.7	39.4	16.3	160	14.7	144	17.3	170	15.6	153
40	1-5/8	5	72.5	48.6	20.4	200	18.4	180	21.4	210	19.3	189
44	1-3/4	5-1/2	87.7	58.8	24.1	236	21.6	212	25.5	250	23.0	225
48	2	6	104.0	69.8	28.6	280	25.7	252	30.6	300	27.6	270
52	2-1/8	6-1/2	122.0	81.8	34.2	335	30.8	302	36.2	355	32.7	320
56	2-1/4	7	142.0	95.2	38.3	375	34.5	338	40.8	400	36.7	360
60	2-1/2	7-1/2	163.0	109.3	43.4	425	39.1	383	45.9	450	41.3	405
64	2-5/8	8	186.0	124.8	48.5	475	43.7	428	51.0	500	45.9	450
72	3	9	235.0	157.6	61.2	600	55.1	540	64.3	630	57.9	567
80	3-1/4	10	290.0	194.5	76.5	750	68.9	675	81.6	800	73.5	720
88	3-5/8	11	351.0	235.4	91.8	900	82.7	810	96.9	950	87.2	855
96	4	12	417.0	279.7	108.2	1060	97.3	954	114.3	1120	102.9	1008
104	4-1/4	13	490.0	328.7	127.6	1250	114.8	1125	134.7	1320	121.2	1188
112	4-5/8	14	568.0	381.0	142.9	1400	128.6	1260	153.1	1500	137.8	1350
120	5	15	652.0	437.3	163.3	1600	146.9	1440	173.5	1700	156.1	1530
128	5-1/4	16	742.0	497.7	193.9	1900	174.5	1710	204.1	2000	183.7	1800
136	5-5/8	17	838.0	562.1	216.3	2120	194.7	1908	228.6	2240	205.7	2016
144	6	18	939.0	629.8	240.8	2360	216.7	2124	255.1	2500	229.6	2250
160	6-5/8	20	1160.0	778.0	285.7	2800	257.1	2520	306.1	3000	275.5	2700

TOUGH-PP 3

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
12	1/2	1-1/2	7.1	4.8	2.2	22	1.9	19
14	9/16	1-3/4	9.1	6.1	2.7	26	2.4	24
16	5/8	2	11.2	7.5	3.3	32	3.0	29
18	3/4	2-1/4	16.1	10.8	4.5	44	4.0	39
22	7/8	2-3/4	22.0	14.8	6.2	61	5.6	55
24	1	3	27.8	18.6	7.4	73	6.7	66
26	1-1/16	3-1/4	31.5	21.1	8.4	82	7.6	74
28	1-1/8	3-1/2	35.3	23.7	9.4	92	8.4	82
30	1-1/4	3-3/4	42.7	28.6	11.2	110	10.1	99
32	1-5/16	4	47.0	31.5	12.3	121	11.1	109
36	1-1/2	4-1/2	61.0	40.9	15.9	156	14.4	141
40	1-5/8	5	71.1	47.7	18.7	183	16.8	165
44	1-3/4	5-1/2	82.0	55.0	21.5	211	19.4	190
48	2	6	106.9	71.7	27.3	268	24.6	241
52	2-1/8	6-1/2	120.7	81.0	30.7	301	27.7	271
56	2-1/4	7	136.2	91.4	34.7	340	31.2	306
60	2-1/2	7-1/2	165.2	110.8	41.9	411	37.8	370
64	2-5/8	8	186.0	124.8	47.1	462	42.4	416
68	2-3/4	8-1/2	218.8	146.8	55.3	542	49.8	488
72	3	9	236.6	158.7	60.1	589	54.1	530
80	3-1/4	10	287.2	192.6	70.9	695	63.9	626
88	3-5/8	11	385.0	258.2	90.4	886	81.3	797
96	4	12	460.0	308.5	97.1	952	87.4	857
100	4-1/8	12-1/2	500.0	335.4	106.9	1048	96.2	943

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

TOUGH-POLYETHELENE

High Tenacity Polyethelene

Structure: 3-Strand

This rope floats and does not absorb water, which makes soft on hand, easy to handle and flexible. The special nature of filaments contributes highly to an increased abrasion resistance, thus improving the lifetime and security. Mainly used on fishing vessels and inland shipping.

Features:
Specific Gravity: 0.94~0.97g/cm³
Melting Point: 132~135℃
Abrasion Resistance: Good
Chemical Resistance: Very Good
UV Resistance: Good
Water Absorption: 0%
Wet-dry Strength Ratio: Dry=Wet

Applications:
Mooring Line
Fishing Line
Towing Line
Aquaculture
Winch Line
Messenger Line
Pick-up Line

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
12	1/2	1-1/2	7.1	4.8	2.3	23	2.0	20
14	9/16	1-3/4	9.1	6.1	2.9	28	2.6	25
16	5/8	2	11.2	7.5	3.4	33	3.1	30
18	3/4	2-1/4	16.1	10.8	4.7	46	4.2	41
22	7/8	2-3/4	22.0	14.8	6.5	64	5.9	58
24	1	3	27.8	18.6	7.9	77	7.0	69
26	1-1/16	3-1/4	31.5	21.1	8.8	86	8.0	78
28	1-1/8	3-1/2	35.3	23.7	9.8	96	8.8	86
30	1-1/4	3-3/4	42.7	28.6	11.8	116	10.6	104
32	1-5/16	4	47.0	31.5	13.0	127	11.6	114
36	1-1/2	4-1/2	61.0	40.9	16.7	164	15.1	148
40	1-5/8	5	71.1	47.7	19.6	192	17.7	173
44	1-3/4	5-1/2	82.0	55.0	22.7	222	20.4	200
48	2	6	106.9	71.7	28.7	281	25.8	253
52	2-1/8	6-1/2	120.7	81.0	32.2	316	29.0	284
56	2-1/4	7	136.2	91.4	36.4	357	32.8	321
60	2-1/2	7-1/2	165.2	110.8	44.1	432	39.7	389
64	2-5/8	8	186.0	124.8	49.5	485	44.6	437
68	2-3/4	8-1/2	218.8	146.8	58.1	569	52.2	512
72	3	9	236.6	158.7	63.1	618	56.7	556
80	3-1/4	10	287.2	192.6	74.5	730	67.0	657
88	3-5/8	11	385.0	258.2	94.9	930	85.4	837
96	4	12	460.0	308.5	102.0	1000	91.8	900
100	4-1/8	12-1/2	500.0	335.4	112.2	1100	101.0	990

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

TOUGH-LEAD

High Tenacity Polypropylene with Lead Core

Structure: 3-Strand

This rope works well in a variety of marine applications requiring durable, rot-proof lines that sink into water. It can offer good strength and resistance to abrasion and UV light. Mainly used in commercial fishing, particularly as net bottom lines.

Features:
Abrasion Resistance: Good
Chemical Resistance: Very Good
UV Resistance: Good
Water Absorption: 0%
Wet-dry Strength Ratio: Dry≈Wet

Applications:
Fishing Line
Aquaculture

Dia		Circ.	Weight		MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN
12	1/2	1-1/2	10.5	7.0	0.2	1.9
14	9/16	1-3/4	14.3	9.6	0.3	2.6
16	5/8	2	18.8	12.6	0.3	3.2
18	3/4	2-1/4	22.5	15.1	0.4	4.0
20	13/16	2-1/2	29.5	19.8	0.5	4.8
22	7/8	2-3/4	35.0	23.5	0.6	5.9
24	1	3	41.3	27.7	0.7	6.9
26	1-1/16	3-1/4	49.5	33.2	0.8	7.9
28	1-1/8	3-1/2	57.5	38.6	0.9	9.0
30	1-1/4	3-3/4	63.8	42.8	1.1	10.4
32	1-5/16	4	71.3	47.8	1.2	11.7
36	1-1/2	4-1/2	91.0	61.0	1.4	13.4
40	1-5/8	5	112.5	75.5	1.8	17.7

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

OFFSHORE

VENIT

MAX OCEAN

Deep Water Mooring Rope

Structure: Multi-Layer

Deep water mooring rope mainly used for offshore industry like platform station-keeping.
The rope usually produced with multi-layer technology, including inner core, filtration and external jacket.
The rope with high strength, good abrasion resistance, particle ingress resistance excellent chemical resistance and UV resistance.
The rope design and produce must be based on specific working condition.
In compliance with OCIMF MEG4.

Features:
Abrasion Resistance: Excellent
Chemical Resistance: Excellent
UV Resistance: Excellent
Tension Fatigue: Excellent

Applications:
Station keeping

Dia		Circ.	Polyester Core Spliced MBL		HMPE Core Spliced MBL		Aramid Core spliced MBL	
mm	inch	inch	ton	kN	ton	kN	ton	kN
63	2-1/2	7-1/2			255	2500		
71	2-3/4	8-1/2			327	3200		
80	3-1/4	10			408	4000	255	2500
90	3-5/8	11			510	5000	316	3100
100	4	12			643	6300	398	3900
106	4 1/4	13	320	3140	724	7100	449	4400
118	4-5/8	14-1/2	400	3920	918	9000	571	5600
132	5-1/4	16-3/8	500	4900	1143	11200	714	7000
150	5-7/8	18-1/2	631	6180	1429	14000	888	8700
160	6-1/4	19-7/8	710	6960	1633	16000	1020	10000
170	6-3/4	21	801	7850	1837	18000	1143	11200
180	7-1/8	22-3/8	901	8830	2041	20000	1276	12500
190	7-1/2	23-1/2	1001	9810	2245	22000	1327	13000
200	7-7/8	24-3/4	1122	11000	2449	24000	1531	15000
212	8-3/8	26-1/4	1255	12300	2755	27000	1735	17000
224	8-7/8	27-3/4	1398	13700	3061	30000	1939	19000
236	9-3/8	29-1/4	1602	15700	3367	33000	2143	21000
250	10	31	1806	17700	3878	38000	2347	23000
265	10-1/2	32-3/4	2000	19600	4286	42000	2653	26000
280	11	34-5/8	2143	21000	4796	47000	2959	29000

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

MAX SPM

Single Point Mooring Rope

Structure: 8/12-Strand or inner core with jacket

Made of high tenacity polyamide fiber, inner core with outside jacket make the rope has good shock-absorption and abrasion resistance.

Put special coating and metal accessory on rope ends and plus float foam. In compliance with OCIMF MEG4.

Features:

Specific Gravity: 1.14g/cm3

Melting Point: 215℃

Breaking Elongation: 15%-28%

Abrasion Resistance: Very good

Chemical Resistance: Very Good

UV Resistance : Very good

Applications:

Single Point Mooring

Dia		Circ.	Weight		Single Leg MBL		Grommet MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN
72	3	9	333	224	122	1196	207	2033
80	3-1/4	10	400	269	147	1441	252	2465
88	3-5/8	11	480	322	175	1715	298	2916
96	4	12	574	385	207	2029	354	3465
104	4-1/4	13	688	462	245	2401	417	4082
112	4-5/8	14	788	529	280	2744	476	4665
120	5	15	929	624	325	3185	553	5415
128	5-1/4	16	1038	697	362	3548	617	6047
136	5-5/8	17	1200	806	417	4087	711	6963
144	6	18	1332	894	460	4508	782	7664
152	6-1/4	19	1463	982	500	4900	850	8330
160	6-5/8	20	1623	1090	550	5390	935	9163
168	7	21	1790	1202	605	5929	1029	10079
176	7-1/4	22	1980	1329	672	6586	1144	11212
180	7-1/2	22-1/2	2041	1370	687	6733	1168	11451

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.

Single Leg

Grommet

General Layout as Below

1	2	3	4	5		
D Shackle	Cast Thimble	PU Coating	Whipping	Lace-on：1.1m Length	Floats：Appro.27	Inside Foam：35kg/m ³

LIFTING

WEBBING SLING

High Tenacity Polyester

We make these products according toEN 1492-1 safety requirement. Widely used in the port, chemical, steel, machinery, oil, electricity, railways, mining, metallurgy, shipbuilding, automotive, aerospace, military, installation and other industrial areas.

Features:
Safety factor: 7:1
Steady lifting safe and easy to use
Do not damage the lifted body
High capacity brightly colored
High resistance to chemical and oil contamination

Eye to Eye Double Ply Sling

Color Code	S.W.L(T)	Working Load Limits								
		Vertical Hitch	Chocker Hitch	Basket Hitch			Two Leg Sling		Three and Four Leg Sling	
				Parallel	β=0°- 45°	β=45°- 60°	β=0°- 45°	β=45°- 60°	β=0°- 45°	β=45°- 60°
		M=1.0	M=0.8	M=2	M=1.4	M=1	M=1.4	M=1	M=2.1	M=1.5
VIOLET	1	1	0.8	2	1.4	1	1.4	1	2.1	1.5
GREEN	2	2	1.6	4	2.8	2	2.8	2	4.2	3.0
YELLOW	3	3	2.4	6	4.2	3	4.2	3	6.3	4.5
GREY	4	4	3.2	8	5.6	4	5.6	4	8.4	6.0
RED	5	5	4.0	10	7.0	5	7.0	5	10.5	7.5
BROWN	6	6	4.8	12	8.4	6	8.4	6	12.6	9.0
BLUE	8	8	6.4	16	11.2	8	11.2	8	16.8	12.0
ORANGE	10	10	8.0	20	14.0	10	14.0	10	21.0	15.0
	12	12	9.6	24	16.8	12	16.8	12	25.2	18.0

Endless Single Ply Sling

Color Code	S.W.L(T)	Working Load Limits								
		Vertical Hitch	Chocker Hitch	Basket Hitch			Two Leg Sling		Three and Four Leg Sling	
				Parallel	β=0°- 45°	β=45°- 60°	β=0°- 45°	β=45°- 60°	β=0°- 45°	β=45°- 60°
		M=1.0	M=0.8	M=2	M=1.4	M=1	M=1.4	M=1	M=2.1	M=1.5
VIOLET	1	1	0.8	2	1.4	1	1.4	1	2.1	1.5
GREEN	2	2	1.6	4	2.8	2	2.8	2	4.2	3.0
YELLOW	3	3	2.4	6	4.2	3	4.2	3	6.3	4.5
GREY	4	4	3.2	8	5.6	4	5.6	4	8.4	6.0
RED	5	5	4.0	10	7.0	5	7.0	5	10.5	7.5
BROWN	6	6	4.8	12	8.4	6	8.4	6	12.6	9.0
BLUE	8	8	6.4	16	11.2	8	11.2	8	16.8	12.0
ORANGE	10	10	8.0	20	14.0	10	14.0	10	21.0	15.0
	12	12	9.6	24	16.8	12	16.8	12	25.2	18.0

ROUND SLING

High Tenacity Polyester

We make these products according toEN 1492-1 safety requirement. Polyester round sling is a versatile, convenient, and cost-effective way to lift a variety of cargo.

Features:
Safety factor: 7:1
Better breaking strength than web sling with less weight
Easy handling and stocking
Do not damage the lifted body
High capacity brightly colored
High resistance to chemical and oil contamination

Color Code	S.W.L(T)	Working Load Limits								
		Vertical Hitch	Chocker Hitch	Basket Hitch			Two Leg Sling		Three and Four Leg Sling	
				Parallel	β=0°- 45°	β=45°- 60°	β=0°- 45°	β=45°- 60°	β=0°- 45°	β=45°- 60°
		M=1.0	M=0.8	M=2	M=1.4	M=1	M=1.4	M=1	M=2.1	M=1.5
VIOLET	1	1	0.8	2	1.4	1	1.4	1	2.1	1.5
GREEN	2	2	1.6	4	2.8	2	2.8	2	4.2	3.0
YELLOW	3	3	2.4	6	4.2	3	4.2	3	6.3	4.5
GREY	4	4	3.2	8	5.6	4	5.6	4	8.4	6.0
RED	5	5	4.0	10	7.0	5	7.0	5	10.5	7.5
BROWN	6	6	4.8	12	8.4	6	8.4	6	12.6	9.0
BLUE	8	8	6.4	16	11.2	8	11.2	8	16.8	12.0
ORANGE	10	10	8.0	20	14.0	10	14.0	10	21.0	15.0
	12	12	9.6	24	16.8	12	16.8	12	25.2	18.0

FASTVO ROPE SLING

Ultra High Molecular Weight Polyethylene

Structure: 12-Strand

The HMPE heavy rope lift sling is most popular for the lifting operations. The HMPE rope slings are extremely durable and low creep. The rope with unique method treatment, ultra high abrasion resistance makes rope have long life and more durable. At the same size and strength of steel rope options, HMPE solutions can be more lighter, the HMPE rope is easier to move and control. Significantly improving the workforce.

Features:
Specific Gravity: 0.97g/cm³
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%

Dia		Circ.	Weight		MIN BS		Eye& Eye sling		Endless Gromment Sling	
mm	inch	inch	kg/100m	lb/100ft	ton	kN	ton	kN	ton	kN
8	5/16	15/16	4.0	2.7	5.6	55	1.1	11	1.7	16
10	3/8	1-1/8	5.4	3.6	8.0	78	1.6	16	2.4	24
12	1/2	1-1/2	9.5	6.4	13.9	136	2.8	27	4.2	41
14	9/16	1-3/4	11.8	7.9	16.5	162	3.3	32	4.9	49
16	5/8	2	15.2	10.2	21.6	212	4.3	42	6.5	64
18	3/4	2-1/4	19.8	13.3	26.3	258	5.3	52	7.9	77
20	13/16	2-1/2	25.3	17.0	33.5	328	6.7	66	10.1	99
22	7/8	2-3/4	29.2	19.6	37.1	364	7.4	73	11.1	109
24	1	3	32.4	21.8	44.5	436	8.9	87	13.3	131
26	1-1/16	3-1/4	40.9	27.5	54.7	536	10.9	107	16.4	161
28	1-1/8	3-1/2	47.5	31.9	60.4	592	12.1	118	18.1	178
30	1-1/4	3-3/4	53.9	36.2	67.4	661	13.5	132	20.2	198
32	1-5/16	4	62.2	41.8	75.1	736	15.0	147	22.5	221
34	1-3/8	4-1/8	67.0	45.0	83.7	820	16.7	164	25.1	246
36	1-1/2	4-1/2	76.9	51.6	93.1	912	18.6	182	27.9	274
38	1-9/16	4-3/4	85.7	57.5	104.1	1020	20.8	204	31.2	306
40	1-5/8	5	97.0	65.1	116.0	1137	23.2	227	34.8	341
44	1-3/4	5-1/2	117.0	78.5	137.0	1343	27.4	269	41.1	403
48	2	6	129.0	86.6	156.0	1529	31.2	306	46.8	459
52	2-1/8	6-1/2	162.0	108.8	187.0	1833	37.4	367	56.1	550
56	2-1/4	7	173.0	116.1	219.4	2150	43.9	430	65.8	645

ELECTRICITY

ELINE-FASTVO

Ultra High Molecular Weight Polyethylene

Structure: 12-Strand

Made of Ultra High Molecular Weight Polyethylene fiber(HMPE), super high break strength but very light weight compared with traditional polyester double braid rope, best choice for cable pulling rope, factory spliced 6” pulling eyes at each end.

Features:
Specific Gravity: 0.97g/cm³
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%

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lb/100ft	ton	kN	ton	kN
6	1/4	3/4	2.3	1.54	4.1	40	3.7	36
8	5/16	1	4	2.68	7.0	69	6.3	62
10	3/8	1-1/8	6.1	4.09	10.7	105	9.7	95
12	1/2	1-1/2	8.7	5.84	15.3	150	13.8	135
14	9/16	1-3/4	11.7	7.85	20.4	200	18.4	180
16	5/8	2	15.1	10.13	26.0	255	23.5	230
18	3/4	2-1/4	19	12.74	32.1	315	29.1	285
20	13/16	2-1/2	23.2	15.56	38.8	380	34.7	340
22	7/8	2-3/4	28.1	18.85	45.9	450	41.3	405
24	1	3	33.1	22.20	53.1	520	48.0	470

ELINE-PES12

High Tenacity Polyester

Structure: 12-Strand

Made of high tenacity low stretch polyester fiber, outside coating makes rope more wear resistance. Polyester cable pulling rope is more economical than the HMPE one, factory spliced 6” pulling eyes at each end.

Features:
Specific Gravity: 1.38-1.44g/cm3
Melting Point: 250-260℃
Breaking Elongation: 12%-21%
Abrasion Resistance: Very Good
Chemical Resistance: Very Good
UV Resistance: Very Good
Water Absorption: 4%
Wet-dry Strength Ratio: Dry≈ Wet
In compliance with OCIMF MEG4

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lb/100ft	ton	kN	ton	kN
6	1/4	3/4	3.3	2.2	1.5	15	1.4	14
8	5/16	15/16	5.0	3.4	2.1	21	1.9	19
10	3/8	1-1/8	10.0	6.7	4.3	42	3.9	38
12	1/2	1-1/2	13.7	9.2	5.8	57	5.3	52
16	5/8	2	22.0	14.8	8.5	83	7.7	76
18	3/4	2-1/4	26.5	17.8	11.1	109	10.1	99
22	7/8	2-3/4	40.0	26.8	15.4	151	14.0	138
24	1	3	52.0	34.9	20.0	196	18.2	178
30	1-1/4	3-3/4	82.0	55.0	27.8	273	25.3	248

ELINE- PES DOUBLE BRAIDED

High Tenacity Polyester

Structure: Double Braided

Made of high tenacity low stretch polyester fiber, double braided constructure is ideal for cable pulling rope, Outside coating makes rope more wear resistance. Spliced 6” pulling eyes at each end.

Dia		Circ.	Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lb/100ft	ton	kN	ton	kN
10	3/8	1-1/8	7.5	5.0	2.3	22	2.0	20
12	1/2	1-1/2	14.3	9.6	4.5	44	4.1	40
14	9/16	1-3/4	19.5	13.1	6.4	62	5.7	56
16	5/8	2	24.2	16.2	8.0	78	7.2	71
18	3/4	2-1/4	29.3	19.7	10.0	98	9.0	88
22	7/8	2-3/4	47.0	31.6	14.1	138	12.7	124
24	1	3	57.0	38.3	18.6	182	16.8	164
28	1-1/8	3-1/2	67.0	45.0	21.3	209	19.2	188
30	1-1/4	3-3/4	84.0	56.4	25.0	245	22.5	220
36	1-1/2	4-1/2	115.0	77.2	33.1	325	29.8	292

Bespoke diameter and length is available.
±5% tolerance according to ISO 2307.
The minimum break load should never be considered as a safe working load.