



FOCUS ON THE ROPE



Rope Tech LLC

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Ropes Across Seas - Nets Across Continents

Rope Tech LLC

ropetech.com

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Company Profile

Company profile

Rope Tech LLC offers synthetic-fiber ropes, cables, nets and related products.

Manufacturer background: The manufacturing partner behind this product range was established in 2016 as part of Huimin County Xinda Twine and Rope Factory. Founded in 1996, the factory has worked in synthetic-fiber ropes and nets for more than 20 years. Since 2016, the manufacturer has focused on developing ropes, cables and nets using new fiber materials. Its product development covers ultra-high-molecular-weight polyethylene (UHMWPE), high-performance aramid, carbon and basalt fibers, polyester/polypropylene blends (PET + PP), polyester (PET), polyamide (nylon, PA), polypropylene (PP) and polyethylene (PE).

Over more than two decades, the manufacturer has independently developed and manufactured four product categories: ropes, nets, cords and webbing. Products serve 26 fields, including aerospace, ships and naval vessels, industrial lifting, offshore engineering, security and emergency response, outdoor sports, household hardware, power engineering and agriculture.

In 2019, the manufacturer was named the chair organization of the Rope, Cable and Net Branch of the China Nonwovens & Industrial Textiles Association and recognized as a technology innovation enterprise. It now integrates research, manufacturing, rope and net technical services, trade, and rope and net art and culture.

Qualifications

Enterprise qualification

In 2019, the manufacturing partner was named the chair organization of the Rope, Cable and Net Branch of the China Nonwovens & Industrial Textiles Association. It is a member of the Shandong Rope and Net Chamber of Commerce and a council member of the Huimin County Rope and Net Association. It was also recognized as a technology innovation enterprise. The manufacturing partner integrates research, manufacturing, technical services, trade, and rope and net art and culture.



Corporate Culture

corporate culture

Corporate culture is central to Rope Tech's development. Our mission and vision shape a shared culture encompassing our mission, vision, spirit, service principles, working style and business philosophy.

CORE VALUES

Integrity - Quality - Responsibility

Our core values are deeply rooted beliefs that have driven Rope Tech's growth and unite our commitment to the future: trust through integrity, reputation through quality, and lasting progress through responsibility.

TRUST THROUGH INTEGRITY

1. Welcome every customer with sincerity.
2. Listen to customers, understand and meet their needs, and pursue shared growth through sincere cooperation.
3. Act with integrity to become a globally trusted rope brand.

REPUTATION THROUGH QUALITY

1. Quality is the lifeblood of our business.
2. Products undergo inspections by domestic and international classification societies; management follows ISO 9001 standards.
3. Make quality our guiding principle, earning customer recognition and industry respect as a manufacturing and trading company.

LASTING PROGRESS THROUGH RESPONSIBILITY

1. Be dedicated, practical, meticulous and responsible.
2. Keep pace with changing needs and develop ropes suited to the market with a strong sense of social responsibility.
3. Drive continuous development through high standards and responsibility to society.

CORE BUSINESS PHILOSOPHY

Build on Tradition - Innovate - Grow Steadily

These principles express our manufacturing partner's culture and its commitment to tradition, innovation, promises and integrity throughout more than 30 years in the rope and cable industry. Each step forward is a new beginning. Steady growth emphasizes stability and the healthy development of the business, society and employees. It reflects our social responsibility and a positive, accountable workforce. Scientific management, quality, modern corporate governance, sound management systems and people-centered talent development support our professional vision: manage well, create a respected brand and achieve lasting growth.



CORPORATE VISION

Become the most trusted provider of quality rope services and a global leader in customer satisfaction.

SERVICE PRINCIPLES

Integrity, quality, customer focus and excellent service.

BUSINESS PHILOSOPHY

Harmony: serve globally, act responsibly and build on integrity.
Shared success: create value for customers, employees, shareholders and partners.
Longevity: plan for sustainable operations.
Excellence: make excellence our goal.

CORPORATE MISSION

Deliver quality rope solutions and build a company that lasts a century.

ENTERPRISE SPIRIT

Loyalty, kindness, diligence and ambition.

WORKING STYLE

Attentive service: meet reasonable customer needs.
Practical quality: use quality materials to make quality products.
Focus: continually strengthen innovation.
Fast response: meet market needs efficiently.



UHMWPE Rope

UHMWPE ROPE

Construction: 8/12 strands

UHMWPE fiber offers excellent UV and oxidation resistance, flexural strength and fatigue resistance.

- Properties:
- 1. Small diameter: 40-60% of other fiber ropes at equal breaking load.
 - 2. Low weight: 1/8 of steel wire rope and 15-30% of other fiber ropes at equal breaking load.
 - 3. High strength: matches steel wire rope at equal diameter.

Applications:

Defense, aerospace, ocean-going vessels, oil platforms, port towing, large container ships, VLCCs, specialized power and communications, and sports equipment.

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

UHMWPE / Polyester Rope

UHMWPE & High Tenacity Polyester

Construction: polyester cover, 12-strand HMPE core

Non-rotating, torque-free construction resists kinking. Its round, firm structure provides a good grip, while the braided cover gives excellent abrasion resistance.

- Properties:

Density: 0.97-1.09g/cm3

Melting point: 260°C/145°C

Elongation: 5%

Abrasion resistance: Very good

Chemical resistance: Very good

UV resistance: Very good

Water absorption: 0%

Wet/dry strength: equal
- Applications:

Davits

Slings

Tug main lines

Mooring lines

Winch lines

General-purpose lines

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



UHMWPE Rope

Ultra High Molecular Weight Polyethylene

Construction: HMPE cover, 12-strand HMPE core

Extremely high strength and low stretch. The braided cover offers excellent UV, chemical and abrasion resistance, good grip and torque-free construction.

- Properties:

Density: 0.97g/cm3

Melting point: 145°C

Elongation: <4%

Abrasion resistance: Very good

Chemical resistance: Very good

UV resistance: Very good

Water absorption: 0%

Wet/dry strength: 100%
- Applications:

Davits

Slings

Tug main lines

Mooring lines

Winch lines

General-purpose lines

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

UHMWPE / Polyester Blend

UHMWPE & High Tenacity Polyester Mixed

Construction: 8/12 strands

Specially treated UHMWPE and high-tenacity polyester blend fibers combine high breaking strength with low weight, excellent grip and abrasion resistance.

- Properties:

Density: 0.97-1.09g/cm3

Melting point: 260°C/145°C

Elongation: 5%

Abrasion resistance: Very good

Chemical resistance: Very good

UV resistance: Very good

Water absorption: 0%

Wet/dry strength: equal
- Applications:

Davits

Slings

Tug main lines

Mooring lines

Winch lines

General-purpose lines

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



Heat-Resistant Aramid Rope

Excellent Heat Resistance Aramid

Construction: 8/12 strands

Suited to extreme high-temperature service. Excellent resistance to heat and bending fatigue, with very good performance over pulleys and winches.

- Properties:
- Density: 1.44g/cm3
- Melting point: 450°C-500°C
- Elongation: <3%
- Abrasion resistance: Good
- Chemical resistance: Very good
- UV resistance: Fair
- Water absorption: 4%
- Wet/dry strength: dry > wet

- Applications:
- Winch lines
- Control lines
- Slings

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

High-Tenacity Polyamide

High Tenacity Polyamide

Construction: double braid

Non-rotating, torque-free double braid resists kinking. The round, firm structure provides good grip, flexibility, strength and abrasion resistance.

- Properties:
- Density: 1.14g/cm3
- Melting point: 215°C
- Elongation: 30%-35%
- Abrasion resistance: Very good
- Chemical resistance: Very good
- UV resistance: Very good
- Water absorption: 4%
- Wet/dry strength: dry > wet
- Applications:
- Anchor lines
- Dock lines
- Shock lines
- Mooring lines
- Slings

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

High-Tenacity Polyester

High Tenacity Polyester

Construction: double braid

Polyester offers leading weather resistance, excellent abrasion resistance and strength, good UV resistance and outstanding grip.

Properties:

Density: 1.38-1.44g/cm3

Melting point: 250-260°C

Elongation: 20%-30%

Abrasion resistance: Very good

Chemical resistance: Very good

UV resistance: Very good

Water absorption: 0.4%

Wet/dry strength: equal

Applications:

Winch lines

Control lines

Slings

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

High-Tenacity Polyamide

High Tenacity Polyamide

Construction: 3/8/12 strands

Polyamide fiber offers good shock absorption for a wide range of uses, particularly ship towing.

Properties:

Density: 1.14g/cm3

Melting point: 215°C

Elongation: 15%-28%

Abrasion resistance: Very good

Chemical resistance: Very good

UV resistance: Very good

Water absorption: 4%

Wet/dry strength: dry > wet

Applications:

Anchor lines

Dock lines

Shock lines

Mooring lines

Slings

Dia		Circ.	Weight		8-Strand		12-Strand	
mm	inch	inch	kg/100m	lbs/100ft	Unspliced MBL	Spliced MBL	Unspliced MBL	Spliced MBL
12	1/2	1-1/2	9.0	6.0	3.1	30	3.2	32
16	5/8	2	16.0	10.7	5.4	53	5.7	56
20	13/16	2-1/2	25.0	16.8	8.2	80	8.7	85
24	1	3	36.0	24.1	11.4	112	12.0	118
28	1-1/8	3-1/2	49.0	32.9	15.3	150	16.3	160
30	1-1/4	3-3/4	56.0	37.6	17.3	170	18.4	180
32	1-5/16	4	64.0	42.9	20.4	200	21.6	212
36	1-1/2	4-1/2	81.0	54.3	25.5	250	27.0	265
40	1-5/8	5	100.0	67.1	30.6	300	32.1	315
44	1-3/4	5-1/2	121.0	81.2	36.2	355	38.3	375
48	2	6	144.0	96.6	43.4	425	45.9	450
52	2-1/8	6-1/2	170.0	114.0	51.0	500	54.1	530
56	2-1/4	7	197.0	132.1	57.1	560	61.2	600
60	2-1/2	7-1/2	226.0	151.6	64.3	630	68.4	670
64	2-5/8	8	257.0	172.4	72.4	710	76.5	750
72	3	9	325.0	218.0	91.8	900	96.9	950
80	3-1/4	10	401.0	269.0	114.3	1120	120.4	1180
88	3-5/8	11	486.0	326.0	134.7	1320	142.9	1400
96	4	12	578.0	387.7	163.3	1600	173.5	1700
104	4-1/4	13	678.0	454.8	183.7	1800	193.9	1900
112	4-5/8	14	787.0	527.9	216.3	2120	228.6	2240
120	5	15	903.0	605.7	240.8	2360	255.1	2500
128	5-1/4	16	1010.0	677.4	270.4	2650	285.7	2800
136	5-5/8	17	1160.0	778.0	306.1	3000	321.4	3150
144	6	18	1300.0	872.0	341.8	3350	362.2	3550
160	6-5/8	20	1610.0	1079.9	433.7	4250	459.2	4500

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	12-1/2	625.0	419.2	142.4	1396	128.2	1256

High-Tenacity Polyester

High Tenacity Polyester

Construction: 3/8/12 strands

High-tenacity polyester provides excellent strength and durability, with broad use in mooring.

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

Properties:

Density: 1.38-1.44g/cm3

Melting point: 250-260°C

Elongation: 12%-21%

Abrasion resistance: Very good

Chemical resistance: Very good

UV resistance: Very good

Water absorption: 0.4%

Wet/dry strength: equal

Applications:

Mooring lines

Working lines

Slings

Shock lines

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

High-Tenacity Polypropylene

High Tenacity Polypropylene

Construction: 3/8/12 strands

Lightweight and easy to handle, with the same strength in wet and dry conditions.

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

High-Tenacity Polyamide

High Tenacity Polyamide

Construction: 6 strands

Six-strand construction keeps the rope round. Polyamide monofilament and multifilament yarns provide excellent abrasion and UV resistance. The round, firm structure runs easily through winches. Lighter and easier to handle than steel wire rope, it is an effective alternative.

- Properties:
- Density: 1.14g/cm3
- Melting point: 215°C
- Elongation: 15%-28%
- Abrasion resistance: Very good
- Chemical resistance: Very good
- UV resistance: Very good
- Water absorption: 4%
- Wet/dry strength: dry > wet
- Applications:
- Mooring lines
- Winch lines

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

Mooring Tail

MOORING TAIL

Construction: 8/12 strands

Elasticity and shock absorption protect the main mooring line during strong winds and heavy seas.

- Properties:
- Easy to splice
- UV resistant
- Rot resistant
- High abrasion resistance
- Applications:
- General-purpose lines
- Mooring tails

MOORING TAIL POLYAMIDE

Dia		Circ.	Weight		Eye length		Total Length				8-Strand				12-Strand			
mm	inch	inch	kg/100m	lbs/100ft	inch	mm	ft	m	ft	m	Unspliced MBL	Spliced MBL	ton	kN	Unspliced MBL	Spliced MBL	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			
mm	inch	inch	kg/100m	lbs/100ft	inch	mm	ft	m	ft	m	Unspliced MBL	Spliced MBL	ton	kN	Unspliced MBL	Spliced MBL	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			
mm	inch	inch	kg/100m	lbs/100ft	inch	mm	ft	m	ft	m	Unspliced MBL	Spliced MBL	ton	kN	Unspliced MBL	Spliced MBL	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



Polypropylene / Polyester Blend

High Tenacity Polypropylene & Polyester Mixed

Construction: 3/8/12 strands

A high-tenacity polyester/polypropylene blend outperforms pure polyester or polypropylene: lighter than polyester and stronger than polypropylene, with excellent friction characteristics.

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

TOUGH MIX 3

Dia		Circ.	Weight		Unspliced MBL				Spliced MBL			
					ton		kN		ton		kN	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN	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				

Properties:

Density: 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: equal

Applications:

Mooring and securing

Mooring pendants

Tug auxiliary lines

High-Tenacity Polyolefin

High Tenacity Polyolefin

Construction: 3/8/12 strands

High-tenacity polyolefin fiber produces a rope with higher performance than standard PP, PE and polyolefin ropes, offering excellent breaking strength and abrasion resistance.

Properties:

Density: 0.91-0.93g/cm3

Melting point: 165°C

Elongation: 12%-20%

Abrasion resistance: Very good

Chemical resistance: Very good

UV resistance: Good

Water absorption: 0.01%

Wet/dry strength: equal

Applications:

Towing lines

Mooring lines

Fishing lines

Dia		Circ.	Weight		8-Strand				12-Strand			
mm	inch		inch	kg/100m	lbs/100ft	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	1578	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	280.9	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

High-Tenacity Polypropylene

High Tenacity Polypropylene

Construction: 3/8/12 strands

High-strength floating rope with excellent abrasion resistance for longer service life. Its 3/8/12-strand construction suits general industry and commercial fishing.

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	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	

TOUGH-PLUS 3

Dia		Circ.		Weight		Unspliced MBL		Spliced MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	ton	kN	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	

Lead-Core Polypropylene

High Tenacity Polypropylene with Lead Core

Construction: 3 strands

Durable, rot-resistant sinking rope with good strength, abrasion resistance and UV resistance. Used mainly in commercial fishing, particularly as a net bottom line.

Properties:

Abrasion resistance: Good

Chemical resistance: Very good

UV resistance: Good

Water absorption: 0%

Wet/dry strength: equal

Applications:

Fishing

lines

Aquaculture

Dia		Circ.		Weight		MBL	
mm	inch	inch	kg/100m	lbs/100ft	ton	kN	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	

Deepwater Mooring Rope

Deep Water Mooring Rope

Construction: multilayer

For offshore industry, including platform mooring. Multilayer construction includes a core, filter layer and outer cover. High strength, abrasion resistance and protection against particle ingress, with excellent chemical and UV resistance.

Properties:

- Abrasion resistance: Excellent
- Chemical resistance: Excellent
- UV resistance: Excellent
- Tension fatigue: Excellent

- Applications:**
- Offshore industry

Dia		Circ. inch	Polyester Core Spliced MBL		HMPE Core Spliced MBL		Aramid Core spliced MBL	
mm	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

UHMWPE Rope

Ultra High Molecular Weight Polyethylene

Construction: 12 strands

HMPE fiber provides extremely high breaking strength at low weight compared with conventional polyester double braid: an excellent choice for cable pulling.

Properties:

Density: 0.97g/cm3

Melting point: 145°C

Elongation: <4%

Abrasion resistance: Very good

Chemical resistance: Very good

UV resistance: Very good

Water absorption: 0%

Wet/dry strength: 100%

Dia		Circ. inch	Weight		Unspliced MBL		Spliced MBL	
mm	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

High-Tenacity Polyester

High Tenacity Polyester

Construction: 12 strands

Low-stretch, high-tenacity polyester with an abrasion-resistant coating. A more economical cable-pulling rope than HMPE.

Properties:

Density: 1.38-1.44g/cm3

Melting point: 250-260°C

Elongation: 12%-21%

Abrasion resistance: Very good

Chemical resistance: Very good

UV resistance: Very good

Water absorption: 4%

Wet/dry strength: equal

Dia		Circ. inch	Weight		Unspliced MBL		Spliced MBL	
mm	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

High-Tenacity Polyester

High Tenacity Polyester

Construction: double braid

Low-stretch, high-tenacity polyester. Double braid is ideal for cable pulling; a coating improves abrasion resistance.

Dia		Circ. inch	Weight		Unspliced MBL		Spliced MBL	
mm	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

Braided Ropes

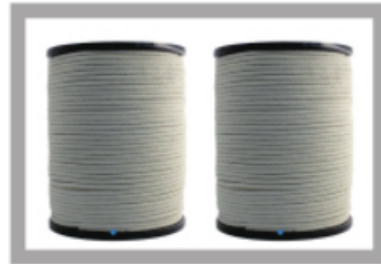
Braided rope



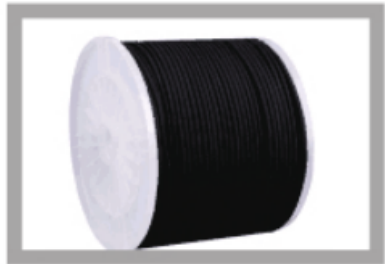
12-Strand Performance Rope



16-Plait Agricultural Rope



Solid-Braid Cotton Rope



Elastic Cord



Power Cable Pulling Rope



Cable Pulling / Towing Rope



Kinetic Recovery Rope



Dynamic Rope



Reflective Rope



Compound Braided Rope



Static Rope



Solid-Braid PP Multifilament Rope

Braided Ropes

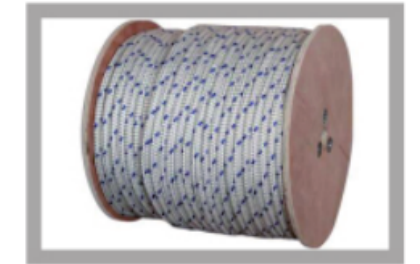
Braided rope



16-Plait Polyester Rope



Polyester Rope with End Eyes



Blue-Pattern Polyester Double Braid



Solid-Braid Polyester Rope



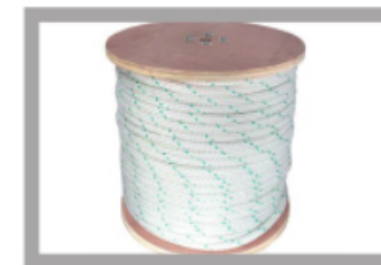
Kevlar Fire-Resistant Rope



Three-Dimensional Braided Rope



Diamond-Braid Rope



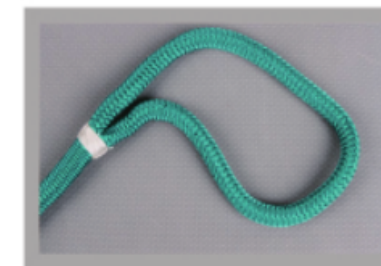
Green-Pattern Nylon Double Braid



Solid-Braid Nylon Rope



Paracord



Double-Braid Rope



Yacht Rope

UHMWPE Fiber Ropes

UHMWPE fiber rope



12-Strand Multipurpose
UHMWPE Fiber Rope



12-Plait Multipurpose UHMWPE
Fiber Rope



12-Strand HMPE Winch Rope



HMPE Winch Rope



Multipurpose UHMWPE Rope



Multipurpose Polymer Rope

Cables and Mooring Ropes

Mooring line



Flat-Filament Mooring Rope



UHMWPE Mooring Cable



UHMWPE Mooring Rope



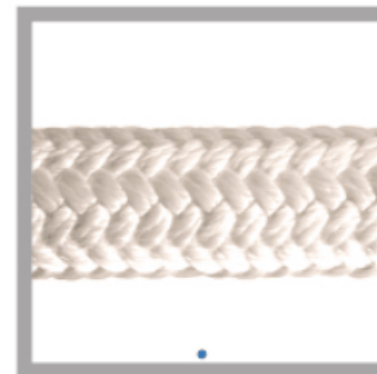
Polyester / PP Mooring Rope



8-Strand Polyester Mooring Rope



12-Strand Polyester Mooring Rope



Multistrand Polyester Braided Mooring
Rope



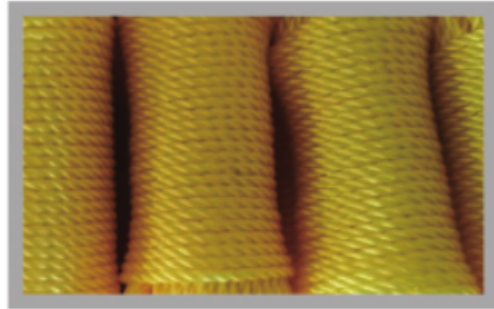
8-Strand Nylon Mooring Rope



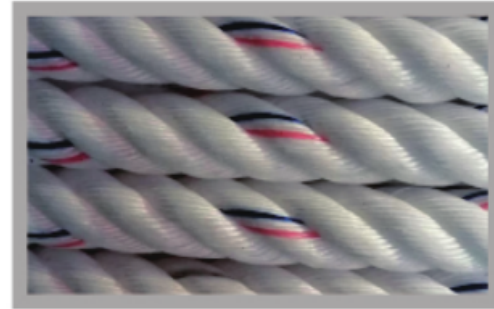
12-Strand Nylon Mooring Rope

3- and 4-Strand Ropes

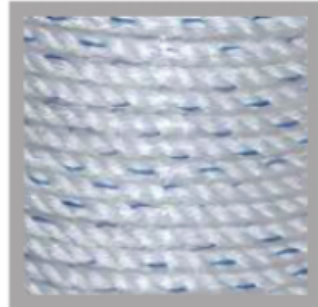
Three & four strand ropes



PE Rope



PP Cable-Laid Rope



3-Strand PP Filament Rope



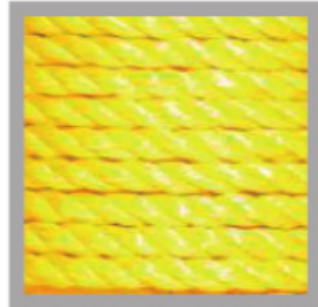
3-Strand Polypropylene Rope



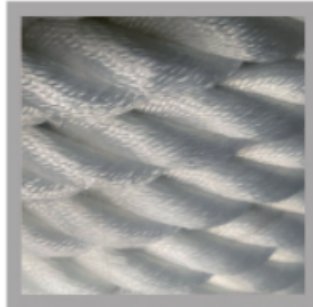
3-Strand Sisal Rope



Sisal Rope



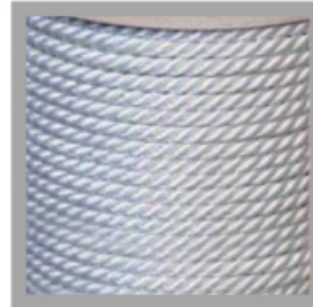
3-Strand PP Film Rope



3-Strand Polyester Cable-Laid Rope



Polyester Multifilament Rope



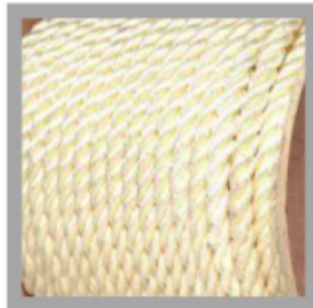
3-Strand Polyester Rope



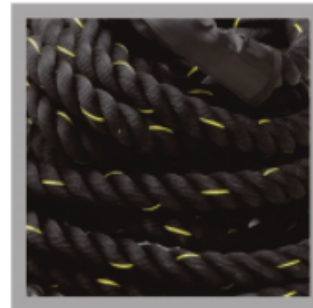
Tiger Rope



3-Strand Cotton Rope



3-Strand Nylon Rope



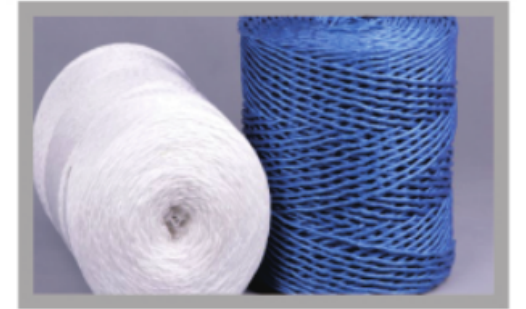
Training Rope

Nets, Webbing and Cords

Net belt and line



PE Monofilament



PP Split-Film Yarn



Lifting Sling



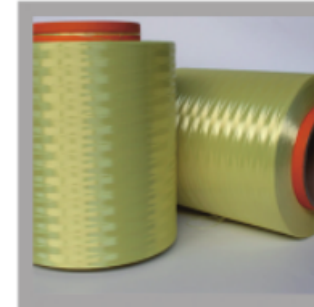
Safety Net



Decorative Net



Artificial Grass



Aramid Fiber



Jute Twine



Cotton Core-Spun Rope



3-Strand Cotton Cord



3-Strand Cord



Braided Handle Cord



Handle Cord



Binding Twine

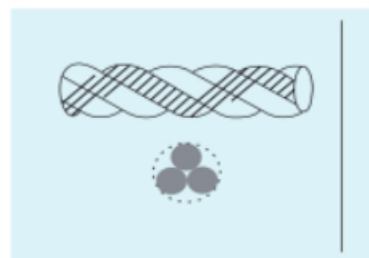
Choosing Your Rope

How to determine the product you need

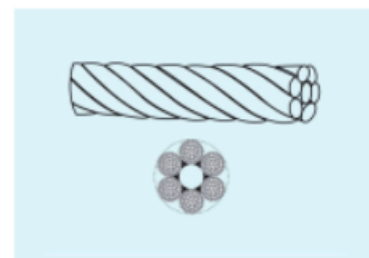
1. Select Fiber Material

- ☐ UHMWPE ☐ PP ☐ PE
☐ Nylon ☐ Polyester ☐ Other

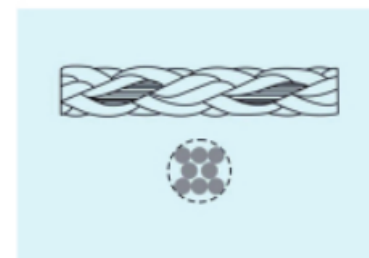
2. Select Construction



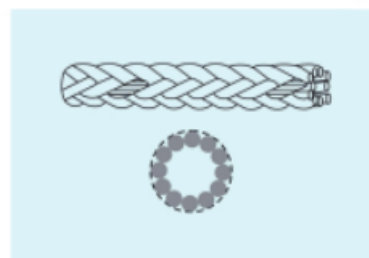
3 strands



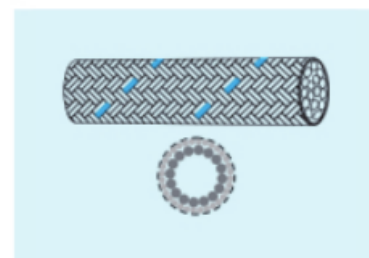
6 strands



8 strands

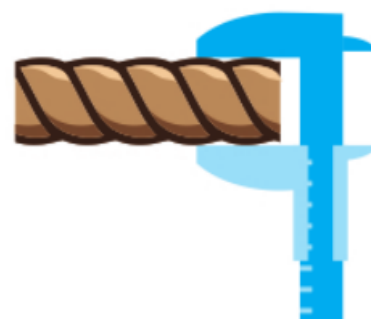


12 strands



Double braid

3. Diameter / Circumference



4. Twist Direction



5. Firmness / Tightness

- ☐ Soft ☐ Medium ☐ Hard ☐ Extra hard

6. Length

- ☐ _____ metres ☐ _____ feet ☐ _____ yards

7. Color

Any color available

8. Packaging

- ☐ Coil ☐ Reel

9. Minimum Breaking Load

Required minimum breaking load (kN or tonnes)

10. Special Requirements

Please tell us about any other special requirements in advance.