

# LINYI WELLS IMP&EXP CO.,LTD

*World Class Lifting Solutions*



LINYI WELLSIMP&EXP CO.LTD

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20  
YEARS

[www.wellsxgt.com](http://www.wellsxgt.com)  
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绳联四海  
网系五洲







## 企业简介

### Company profile

The large-diameter rope manufacturing unit under Linyi WELLS Import and Export Co., Ltd. was established in 2016 and is affiliated to Xin Da Dianli Rope Manufacturing Factory in Huimin County. It began operations in 1996 and has been engaged in the chemical fiber rope net industry for over 20 years. Since 2016, the company has been dedicated to the research and development of new materials for chemical fiber ropes (cables). Ultra-high molecular weight polyethylene fibers, high-performance aramid fibers, carbon fibers, basalt fibers, high-performance polyester-PP blends (PET+PP), polyester (polyester PET), polyester amine (nylon PA), polypropylene (polypropylene PP), polyethylene (ethylene propylene PE), etc. have been developed for rope (cable) net products, and a system has been initially formed.

After more than 20 years of development, the company's independently developed and produced products cover four categories: "ropes, nets, wires, and belts". The application scope of new products covers 26 fields such as aerospace, ships and submarines, industrial hoisting, marine engineering, security and emergency, sports and outdoor activities, daily hardware, power engineering, agriculture, etc.

In 2019, the company was selected as the "Chairman Unit of the Rope (Cable) Network Branch of the China Industrial Textile Association". In the same year, the company was rated as a "Technology Innovation Enterprise Unit". Now, it has become a comprehensive rope (cable) network manufacturer integrating scientific research, production and manufacturing, rope network technical services, trade, rope network art and culture.

## 企业资质

### Enterprise qualification

In 2019, the company was honored as the "Chairman Unit of the Rope (Cable) Net Branch of the China Industrial Textile Association", a member unit of the Shandong Rope Net Chamber of Commerce, and a director unit of the Huimin County Rope Net Association. In the same year, the company was also recognized as a "Technology-based Innovative Enterprise Unit". Currently, it has become a comprehensive rope (cable) net manufacturer integrating scientific research, production and manufacturing, rope net technical services, trade, rope net art and culture.





## 企业文化

corporate culture

Corporate culture is the core aspect of our company's development. It is established through various concepts such as the company's mission and vision, which includes: the company's mission, vision, spirit, service philosophy, corporate style, and business philosophy.

### 核心价值观 CORE VALUES

Honesty, Quality, Responsibility

The core values of the company are the fundamental beliefs deeply rooted in our hearts. They are the driving force that has enabled Pengheng to reach where it is today, and they are also our common commitment for the future. They ensure that we uphold integrity, build reputation through quality, and set long-term goals through responsibility.

#### Build trust through honesty

1. Hold a sincere heart and warmly receive every customer;
2. Listen to the voices of customers, understand their needs, and meet their demands to the greatest extent. In the sincere cooperation with customers, seek common development;
3. Base actions on honesty as the guiding principle, and become a globally trusted brand that customers can trust.

#### Build reputation based on quality

1. Quality is the lifeblood of an enterprise;
2. Our products have passed quality inspections by shipping companies and institutions both at home and abroad, and we are committed to standardized and regulated management in accordance with ISO9001;
3. We adhere to the principle of high-quality products as our code of conduct, becoming an outstanding industrial and trading enterprise, and earning the recognition of customers and the affirmation of the industry.

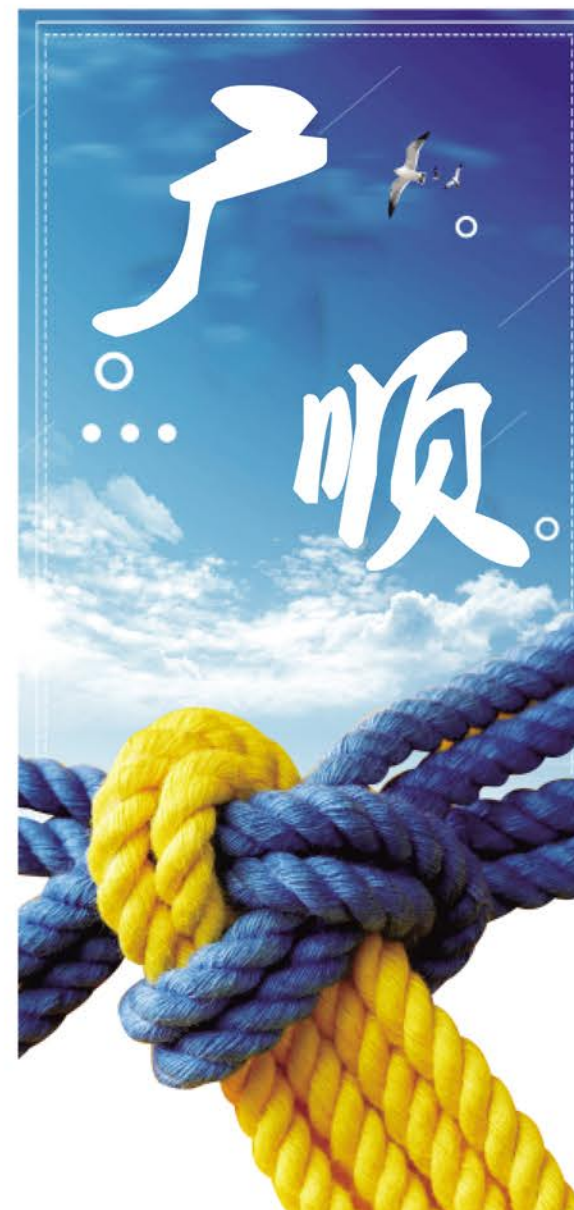
#### Establishing a long-term vision through responsibility

1. Love your job, be diligent and practical, be meticulous, and be a responsible person like Pu Heng
2. Have a high sense of responsibility towards society and keep up with the times by constantly developing rope products with high market adaptability to meet the needs of the times
3. Drive the company's continuous development through high self-demand and a sense of social responsibility

### 企业核心理念 CORE BUSINESS PHILOSOPHY

Establishing classics, moving forward steadily

These eight words embody the rich cultural connotations of the enterprise, conveying the concept of adhering to inheritance and innovation while emphasizing commitment and integrity on the path of continuous exploration in the rope industry. Each step forward represents a new starting point for steady development. It emphasizes stability, focuses on health, and highlights the health of the enterprise's development, the health of social development, and the health of employee development. This not only demonstrates the social responsibility that the enterprise should undertake, but also reflects the corporate culture of employees being responsible, accountable, and positive. The enterprise operates scientifically and pursues quality. The modern enterprise governance model has an advanced and sound management system, a people-oriented view of talent development, reflecting our emphasis on operation, quality, creating brands, and the core concept of professional enterprise development with a long-term vision. Ultimately, it achieves the enterprise's grand development goals and remains enduringly fresh.



### 企业愿景 CORPORATE VISION

Become the most trusted, rope-based quality service provider and lead the global rope industry in customer satisfaction.

### 服务理念 SERVICE CONCEPT

Be honest, focus on quality, put customers first, provide excellent service

### 经营理念 BUSINESS PHILOSOPHY

Win-win: Employees, shareholders, partners work together, create value for customers

Longevity: Focus on the future and sustain operations

Excellence: Excellence is our goal of striving for

### 企业使命 CORPORATE MISSION

Focus on high-quality rope solutions and strive to build a century-old classic enterprise

### 企业精神 ENTERPRISE SPIRIT

Loyalty, kindness, diligence, and ambition

### 企业作风 ENTERPRISE STYLE

Proactive service: Try to meet customers' reasonable demands

Pragmatic and realistic: Use genuine materials to produce high-quality products

Concentrated and dedicated: Continuously enhance the innovation ability of the enterprise

Quick response: Respond to market demands with high efficiency



## 超高分子量聚乙烯缆绳

### UHMWPE ROPE

#### 结构：8/12股

本产品采用超高分子量聚乙烯纤维制成，具有优秀的抗紫外线和抗氧化性，极好的抗弯曲强度和抗疲劳性能。

#### 特点：

- 1.直径小，同等破断力时，直径为其它纤维绳索的40%~60%。
- 2.质量轻，同等破断力时，缆绳重量为钢缆的1/8，其它纤维绳索的15%~30%。
- 3.强度高，同等直径时，强度与钢缆相同。

#### 应用：

国防军工、航天航空、远洋船舶、石油平台、港口拖带、大型集装箱船、超级游轮 (VLCC)、特殊电力通讯、体育器材等。

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

## 超高分子量聚乙烯高强涤纶绳

### UHMWPE & High Tenacity Polyester

#### 结构：聚酯外护套和12股HMPE内护套

这种结构是非旋转和无扭矩的结构，绳索不会扭结，圆形牢固的结构使绳索具有良好的抓地力。编织护套增强绳索具有优异的耐磨性。

#### 特点：

比重：0.97~1.09g/cm<sup>3</sup>  
 熔点：260°C/145°C  
 断裂伸长率：5%  
 耐磨性：非常好耐  
 化学性：非常好抗  
 紫外线：非常好  
 吸水率：0%  
 干湿强度比：干≈湿

#### 应用：

达维特  
 吊索  
 拖船主线  
 系泊缆  
 绞盘生产线  
 通用工作线

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



## 超高分子量聚乙烯

Ultra High Molecular Weight Polyethylene

### 结构：HMPE外护套和12股HMPE内护套

这种组合使绳索具有极高的强度和低拉伸性编织夹克具有优异的抗紫外线和化学物质性能，更耐磨，卓越的抓握性能和无扭矩结构。

#### 特点：

比重：0.97g/cm<sup>3</sup>  
熔点：145°C  
断裂伸长率：<4%  
耐磨性：非常好  
耐化学性：非常好  
抗紫外线：非常好  
吸水率：0%  
干湿强度比：100%

#### 应用：

达维特  
吊索  
拖船主线  
系泊缆  
绞盘生产线  
通用工作线

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

## 超高分子量聚乙烯高韧性聚酯混合

UHMWPE & High Tenacity Polyester Mixed

### 结构：8/12股

采用超高分子量聚乙烯和高韧性聚酯混合纤维，经过特殊处理，非常高的断裂强度和重量轻，使绳索有极强的抓地力和良好耐磨性。

#### 特点：

比重：0.97~1.09g/cm<sup>3</sup>  
熔点：260°C/145°C  
断裂伸长率：5%  
耐磨性：非常好耐  
化学性：非常好抗  
紫外线：非常好  
吸水率：0%  
干湿强度比：干≈湿

#### 应用：

达维特  
吊索  
拖船主线  
系泊缆  
绞盘  
生产线  
通用工作线

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



## 超高耐热性芳纶

Excellent Heat Resistance Aramid

### 结构：8/12股

它是适用于极端高温工作条件、高温和弯曲疲劳的最佳绳索阻力，通过滑轮和绞盘表现非常好。

#### 特点：

比重：1.44g/cm³

熔点：450°C ~ 500°C

断裂伸长率：< 3%

耐磨性：良好

耐化学性：非常好

抗紫外线：正常

吸水率：4%

干湿强度比：干 > 湿

#### 应用：

绞盘生产线

控制线

吊索

Dia		Circ. inch	Weight		Unspliced MBL		Spliced MBL	
mm	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

## 高韧性聚酰胺

High Tenacity Polyamide

### 结构：双编织

双编织绳是非旋转和无扭矩结构，绳索不会扭结、圆整、牢固的结构使绳索具有良好的抓地力。同样为双编织结构非常灵活，增强绳索的强度和耐磨性。

#### 特点：

比重：1.14g/cm³

熔点：215°C

断裂伸长率：30%~35%

耐磨性：非常好

耐化学性：非常好

抗紫外线：非常好

吸水率：4%

干湿强度比：干 > 湿

#### 应用：

锚定线

停靠线

冲击线

系泊缆

吊索

Dia		Circ. inch	Weight		Unspliced MBL		Spliced MBL	
mm	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



## 高强涤纶

High Tenacity Polyester

### 结构：双编织

在所有纤维中，聚酯在耐候性方面处于领先地位，有优异的耐磨性和强度。良好的抗紫外线能力。这种绳索具有出色的抓握性能。

#### 特点：

比重：1.38~1.44g/cm<sup>3</sup>

熔点：250~260℃

断裂伸长率：20%~30%

耐磨性：非常好

耐化学性：非常好

抗紫外线：非常好

吸水率：0.4%

干湿强度比：干≈湿

#### 应用：

绞盘生产线

控制线

吊索

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

#### 特点：

比重：1.14g/cm<sup>3</sup>

熔点：215℃

断裂伸长率：15%~28%

耐磨性：非常好

耐化学性：非常好

抗紫外线：非常好

吸水率：4%

干湿强度比：干 > 湿

#### 应用：

锚定线

停靠线

冲击线

系泊缆

吊索

## 高韧性聚酰胺

High Tenacity Polyamide

### 结构：3/8/12股

该绳索由聚酰胺纤维制成，具有良好的减震能力，适用范围广，多用于船舶拖曳。

Dia		Circ.	Weight		8-Strand		12-Strand	
mm	inch	inch	kg/100m	lbs/100ft	Unspliced MBL	Spliced MBL	Unspliced MBL	Spliced MBL
					ton	kN	ton	kN
12	1/2	1-1/2	9.0	6.0	3.1	30	2.8	27
16	5/8	2	16.0	10.7	5.4	53	4.9	48
20	13/16	2-1/2	25.0	16.8	8.2	80	7.3	72
24	1	3	36.0	24.1	11.2	110	10.3	101
28	1-1/8	3-1/2	49.0	32.9	15.3	150	13.8	135
30	1-1/4	3-3/4	56.0	37.6	17.3	170	15.6	153
32	1-5/16	4	64.0	42.9	20.4	200	18.4	180
36	1-1/2	4-1/2	81.0	54.3	25.5	250	23.0	225
40	1-5/8	5	100.0	67.1	30.6	300	27.6	270
44	1-3/4	5-1/2	121.0	81.2	36.2	355	32.7	320
48	2	6	144.0	96.6	43.4	425	39.1	383
52	2-1/8	6-1/2	170.0	114.0	51.0	500	45.9	450
56	2-1/4	7	197.0	132.1	57.1	560	51.4	504
60	2-1/2	7-1/2	226.0	151.6	64.3	630	57.9	567
64	2-5/8	8	257.0	172.4	72.4	710	65.2	639
72	3	9	325.0	218.0	91.8	900	82.7	810
80	3-1/4	10	401.0	269.0	114.3	1120	102.9	1008
88	3-5/8	11	486.0	326.0	134.7	1320	121.2	1188
96	4	12	578.0	387.7	163.3	1600	146.9	1440
104	4-1/4	13	678.0	454.8	183.7	1800	165.3	1620
112	4-5/8	14	787.0	527.9	216.3	2120	194.7	1908
120	5	15	903.0	605.7	240.8	2360	216.7	2124
128	5-1/4	16	1010.0	677.4	270.4	2650	243.4	2385
136	5-5/8	17	1160.0	778.0	306.1	3000	275.5	2700
144	6	18	1300.0	872.0	341.8	3350	307.7	3015
160	6-5/8	20	1610.0	1079.9	433.7	4250	390.3	3825

### 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



## 高强涤纶

High Tenacity Polyester

### 结构: 3/8/12股

高韧性聚酯纤维使绳索具有很好的断裂强度和最好的耐久性, 广泛应用于系泊行业。

Dia	Circ.	Circ.	Weight		8-Strand				12-Strand			
			kg/100m	lbs/100ft	Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch			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

#### 特点:

比重: 1.38~1.44g/cm<sup>3</sup>

熔点: 250~260°C

断裂伸长率: 12%~21%

耐磨性: 非常好

耐化学性: 非常好

抗紫外线: 非常好

吸水率: 0.4%

干湿强度比: 干≈湿

#### 应用:

系泊缆

工作线

吊索

冲击线

## 高韧性聚丙烯

High Tenacity Polypropylene

### 结构: 3/8/12股

重量轻, 易于操作, 在潮湿或干燥时可以保持相同强度。

Dia	Circ.	Circ.	Weight		8-Strand				12-Strand			
			kg/100m	lbs/100ft	Unspliced MBL		Spliced MBL		Unspliced MBL		Spliced MBL	
mm	inch	inch			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

#### 特点:

比重: 0.91~0.93g/cm<sup>3</sup>

熔点: 165°C

断裂伸长率: 12%~20%

耐磨性: 正常

化学性: 非常好

抗紫外线:

正常吸水率: 0.01%

干湿强度比: 干≈湿

#### 应用:

系泊缆

驳船作业线

工程工作线

渔业

### DURA-PES 3

Dia	Circ.	Circ.	Weight		Unspliced MBL		Spliced MBL	
			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

### 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



## 高韧度聚酰胺

### High Tenacity Polyamide

#### 结构：6股

6股结构使绳索保持圆形，聚酰胺单丝与聚酰胺复丝确保绳索具有优异的耐磨性和紫外线抗性，圆形和坚硬的结构使绳索易于在绞车上穿过，与钢丝绳相比，它更轻、更容易操作，是一种很好的钢丝绳替代品。

#### 特点：

比重：1.14g/cm<sup>3</sup>

熔点：215°C

断裂伸长率：15%~28%

耐磨性：非常好

耐化学性：非常好

抗紫外线：非常好

吸水率：4%

干湿强度比：干 > 湿

#### 应用：

系泊缆

绞盘生产线

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

## 系泊尾绳

### MOORING TAIL

#### 结构：8/12股

系泊尾绳在大风时具有良好的弹性和减震性能台风或大浪来临时，这是主系泊缆的必要保护。

#### 特点：

易于拼接

抗紫外线

防腐烂

高耐磨性

#### 应用：

一般工作线

系泊尾部

#### 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	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			
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			
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



# 高韧性聚丙烯和聚酯混合

## High Tenacity Polypropylene & Polyester Mixed

### 结构：3/8/12股

高韧性聚丙烯的更新产品-聚丙烯，它优于纯聚酯或聚丙烯，重量比聚酯纤维，断裂强度比聚丙烯更好，这根绳子有着优异的摩擦系数。

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

#### 特点：

比重：0.99g/cm³

熔点：165/260°C

耐磨性：非常好

耐化学性：非常好

抗紫外线：非常好

吸水率：0%

干湿强度比：干≈湿

#### 应用：

系泊和系统

系泊吊架

拖船辅助线

# 高韧性聚烯烃

## High Tenacity Polyolefin

### 结构：3/8/12股

由高韧性聚烯烃纤维制成PP、PE和聚烯烃中性能更强的绳索。有优异的断裂强度和卓越的耐磨性。

#### 特点：

比重：0.91~0.93g/cm³

熔点：165°C

断裂伸长率：12%~20%

耐磨性：非常好

耐化学性：非常好

抗紫外线：良好

吸水率：0.01%

干湿强度比：干≈湿

#### 应用：

折叠牵引绳

系泊缆

捆绑线

钓鱼线

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

### TOUGH-MIX 3

### TOUGH MIX 3

Dia	Circ.	Weight	Unspliced MBL		Spliced MBL	
			ton	kN	ton	kN
mm	inch	kg/100m	ton	kN	ton	kN
12	1/2	1-1/2	9.2	6.2	2.2	20
14	9/16	1-3/4	11.8	7.9	2.7	26
16	5/8	2	14.1	9.5	3.1	30
18	3/4	2-1/4	20.1	13.5	4.3	42
22	7/8	2-3/4	26.8	18.0	5.6	55
24	1	3	32.4	21.7	6.6	65
26	1-1/16	3-1/4	36.5	24.5	7.4	73
28	1-1/8	3-1/2	40.3	27.0	8.3	81
30	1-1/4	3-3/4	49.7	33.3	10.0	98
32	1-5/16	4	54.3	36.4	11.1	109
36	1-1/2	4-1/2	69.9	46.9	14.3	140
40	1-5/8	5	81.9	54.9	16.6	163
44	1-3/4	5-1/2	92.3	61.9	18.6	182
48	2	6	120.5	80.8	24.3	238
52	2-1/8	6-1/2	135.4	90.8	27.2	267
56	2-1/4	7	150.3	100.8	30.2	296
60	2-1/2	7-1/2	184.5	123.8	37.1	364
64	2-5/8	8	202.4	135.8	40.7	399
68	2-3/4	8-1/2	239.6	160.7	48.2	472
72	3	9	258.9	173.7	51.9	509
80	3-1/4	10	315.5	211.6	61.9	607
88	3-5/8	11	385.0	258.2	72.8	713
96	4	12	460.0	308.5	87.3	856
100	4-1/8	12-1/2	500.0	335.4	96.3	944

Dia	Circ.	Weight	Unspliced MBL		Spliced MBL	
			ton	kN	ton	kN
mm	inch	kg/100m	ton	kN	ton	kN
12	1/2	1-1/2	7.1	4.8	2.6	25
14	9/16	1-3/4	9.1	6.1	3.1	30
16	5/8	2	11.2	7.5	3.8	37
18	3/4	2-1/4	16.1	10.8	5.1	50
22	7/8	2-3/4	22.0	14.8	7.1	70
24	1	3	27.8	18.6	8.7	85
26	1-1/16	3-1/4	31.5	21.1	9.7	95
28	1-1/8	3-1/2	35.3	23.7	10.8	106
30	1-1/4	3-3/4	42.7	28.6	13.1	128
32	1-5/16	4	47.0	31.5	14.3	140
36	1-1/2	4-1/2	61.0	40.9	18.4	180
40	1-5/8	5	71.1	47.7	21.5	211
44	1-3/4	5-1/2	82.0	55.0	24.9	244
48	2	6	106.9	71.7	31.5	309
52	2-1/8	6-1/2	120.7	81.0	35.5	348
56	2-1/4	7	136.2	91.4	40.1	393
60	2-1/2	7-1/2	165.2	110.8	48.5	475
64	2-5/8	8	186.0	124.8	54.5	534
68	2-3/4	8-1/2	218.8	146.8	63.9	626
72	3	9	236.6	158.7	69.4	680
80	3-1/4	10	287.2	192.6	81.9	803
88	3-5/8	11	385.0	258.2	104.4	1023
96	4	12	460.0	308.5	112.2	1100
100	4-1/8	12-1/2	500.0	335.4	123.5	1210



## 高韧性聚丙烯

High Tenacity Polypropylene

### 结构：3/8/12股

高强度浮绳。卓越的耐磨性，有助于延长使用寿命，3/8/12股结构绳索是通用工业的理想选择和商业捕鱼使用。

Dia	Circ.	Circ.	Weight		8-Strand				12-Strand			
			kg/100m	lbs/100ft	Unspliced MBL	Spliced MBL	Unspliced MBL	Spliced MBL	Unspliced MBL	Spliced MBL	Unspliced MBL	Spliced MBL
mm	inch	inch			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

### TOUGH-PLUS 3

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

#### 特点：

比重：0.96g/cm³

熔点：165°C

断裂伸长率：12%~20%

耐磨性：非常好

耐化学性：非常好

抗紫外线：良好

吸水率：0.01%

干湿强度比：干≈湿

#### 应用：

折叠牵引绳

系泊缆

捆绑线

钓鱼线

系泊拾取线

## 铅芯高韧性聚丙烯

High Tenacity Polypropylene with Lead Core

### 结构：3股

绳索特点耐用、防腐烂、可沉入水中。它可以提供好的强度和耐磨损性以及抗紫外线性。主要用于商业捕鱼，特别是作为网底捕鱼。

#### 特点：

耐磨性：良好

耐化学性：非常好

抗紫外线：良好

吸水率：0%

干湿强度比：干≈湿

#### 应用：

钓鱼线

水产养殖

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



## 深水系泊绳索

### Deep Water Mooring Rope

#### 结构：多层

深水系泊绳索主要用于海上工业，如站台站务。绳索通常采用多层技术生产，包括内芯、过滤和外护套。绳索强度高，耐磨性好，颗粒抗侵入性好，有优异的耐化学性和抗紫外线性能。

#### 特点：

耐磨性：优秀  
耐化学性：优秀  
抗紫外线：优秀  
拉伸疲劳：优秀

#### 应用：

海上工业

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

## 超高分子量聚乙烯

### Ultra High Molecular Weight Polyethylene

#### 结构：12股

由超高分子量聚乙烯纤维（HMPE）制成，具有超高的断裂强度，但重量非常轻与传统的聚酯双编织绳相比，电缆牵引绳的最佳选择。

#### 特点：

比重：0.97g/cm³  
熔点：145℃  
断裂伸长率：<4%  
耐磨性：非常好  
耐化学性：非常好  
抗紫外线：非常好  
吸水率：0%  
干湿强度比：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

## 高强涤纶

### High Tenacity Polyester

#### 结构：12股

由高韧性低拉伸聚酯纤维制成，外层涂层使绳索更耐磨。聚酯电缆牵引绳索比HMPE绳索更经济。

#### 特点：

比重：1.38-1.44g/cm³  
熔点：250-260℃  
断裂伸长率：12%-21%  
耐磨性：非常好  
耐化学性：非常好  
抗紫外线：非常好  
吸水率：4%  
干湿强度比：干≈湿

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

## 高强涤纶

### High Tenacity Polyester

#### 结构：双编织

由高韧性低拉伸聚酯纤维制成，双编织结构是电缆牵引绳的理想结构涂层使绳索更耐磨。

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



## 编织绳

Braided rope



12股高性能功能绳



16编农业用绳



纯棉实心编织绳



弹力绳



电力工程牵引绳



电力牵引拖绳



动力回收绳



动力绳



反光绳



复编绳



静力绳



聚丙烯复丝实心编织绳

## 编织绳

Braided rope



聚酯16编织绳



聚酯两端环扣编织绳



聚酯拼接蓝色花纹  
双层编织



聚酯实心编织绳



凯夫拉防火绳



立体编织



菱形编织绳



尼龙拼接绿色花纹  
双层编织



尼龙实心编织绳



伞绳



双编绳



游艇绳



## 超高分子聚乙烯纤维绳

UHMWPE fiber rope



12股超高分子量聚乙烯  
多功能纤维绳



超高分子量聚乙烯纤维  
12编多功能绳



合成HMPE12股绞盘绳



合成HMPE绞盘绳



多功能高分子聚乙烯绳索



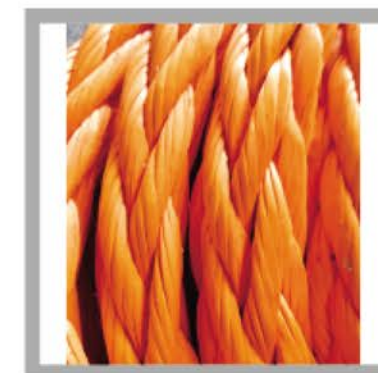
多功能高分子绳索

## 缆绳、系泊绳

Mooring line



扁丝系泊绳



超高分子量聚乙烯  
系泊缆



超高分子量聚乙烯  
系泊绳



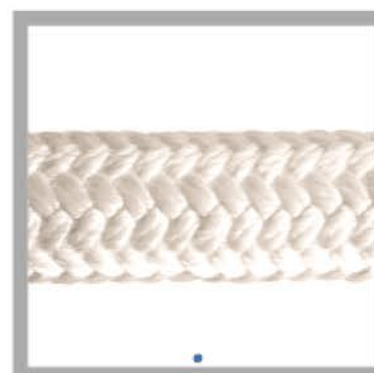
涤丙混纺系泊绳



聚酯8股系泊绳



聚酯12股系泊绳



聚酯多股复编系泊绳



尼龙8股系泊绳

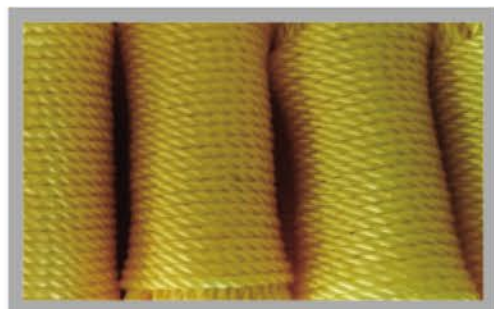


尼龙12股系泊绳



## 三股、四股绳

Three & four strand ropes



PE绳



PP复捻绳



PP长丝三股绞绳



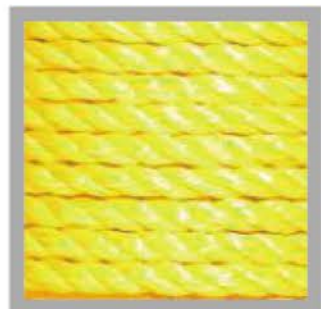
丙纶三股绞绳



剑麻三股绞绳



剑麻绳



聚丙烯薄膜三股绞绳



聚酯复捻三股扭绳



聚酯复丝绳



聚酯三股绞绳



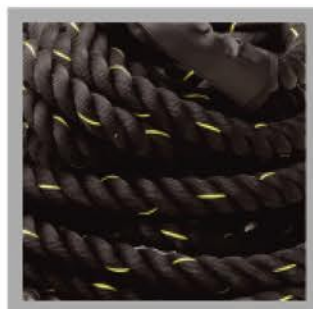
老虎绳



棉三股绞绳



尼龙三股绞绳



训练绳

## 网、带类、线类

Net belt and line



PE单丝线



PP撕裂膜线



吊装带



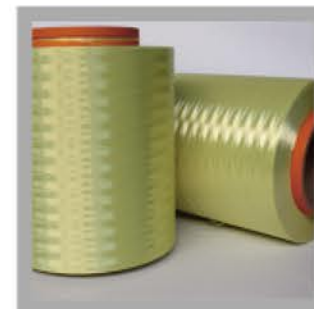
防护网



装饰网



仿真草坪



芳纶纤维



黄麻线



棉包芯绳



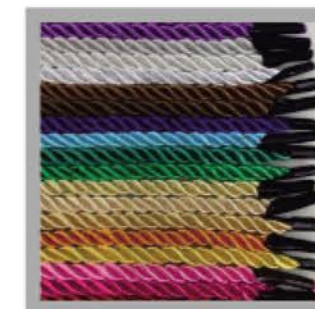
三股棉线



三股线



手提编织绳



手提绳



扎捆线



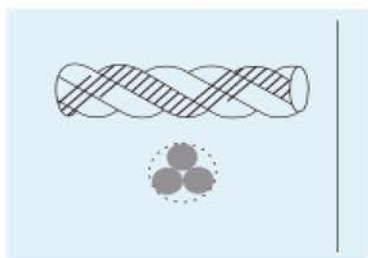
## 如何确定您需要的产品

How to determine the product you need

### 1.选择纤维材料

- ☐ 超高分子量聚乙烯
- ☐ 聚丙烯
- ☐ 聚乙烯
- ☐ 尼龙
- ☐ 聚酯
- ☐ 其他

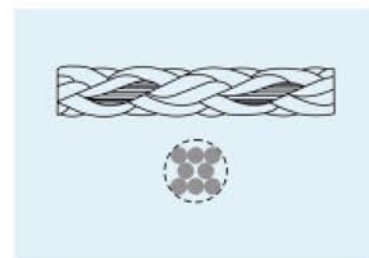
### 2.选择结构



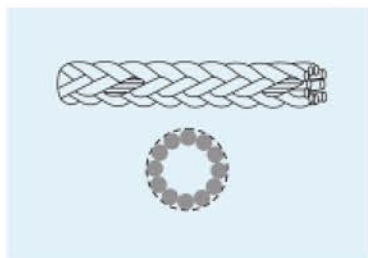
3股



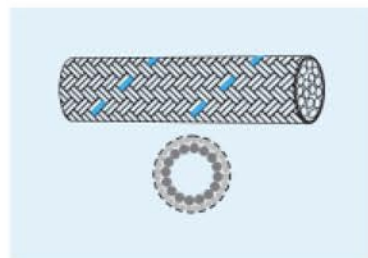
6股



8股

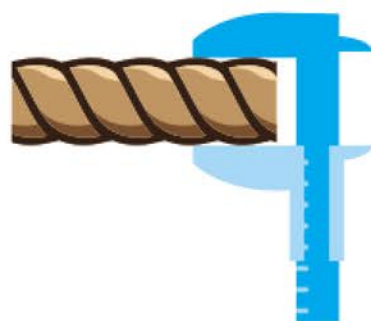


12股



双层编织

### 3.直径、周长



### 4.捻向



### 5.捻度, 松紧度

- ☐ 软
- ☐ 中
- ☐ 硬
- ☐ 特硬

### 6.长度

- ☐ \_\_\_\_米
- ☐ \_\_\_\_英尺
- ☐ \_\_\_\_码

### 7.颜色

任何颜色均可选用

### 8.包装

- ☐ 卷盘
- ☐ 卷轴

### 9.最小拉力

计算的最小断裂载荷 (千牛顿或吨)

### 10.其他特殊要求

如果您还有其他特殊要求, 请提前告知我们