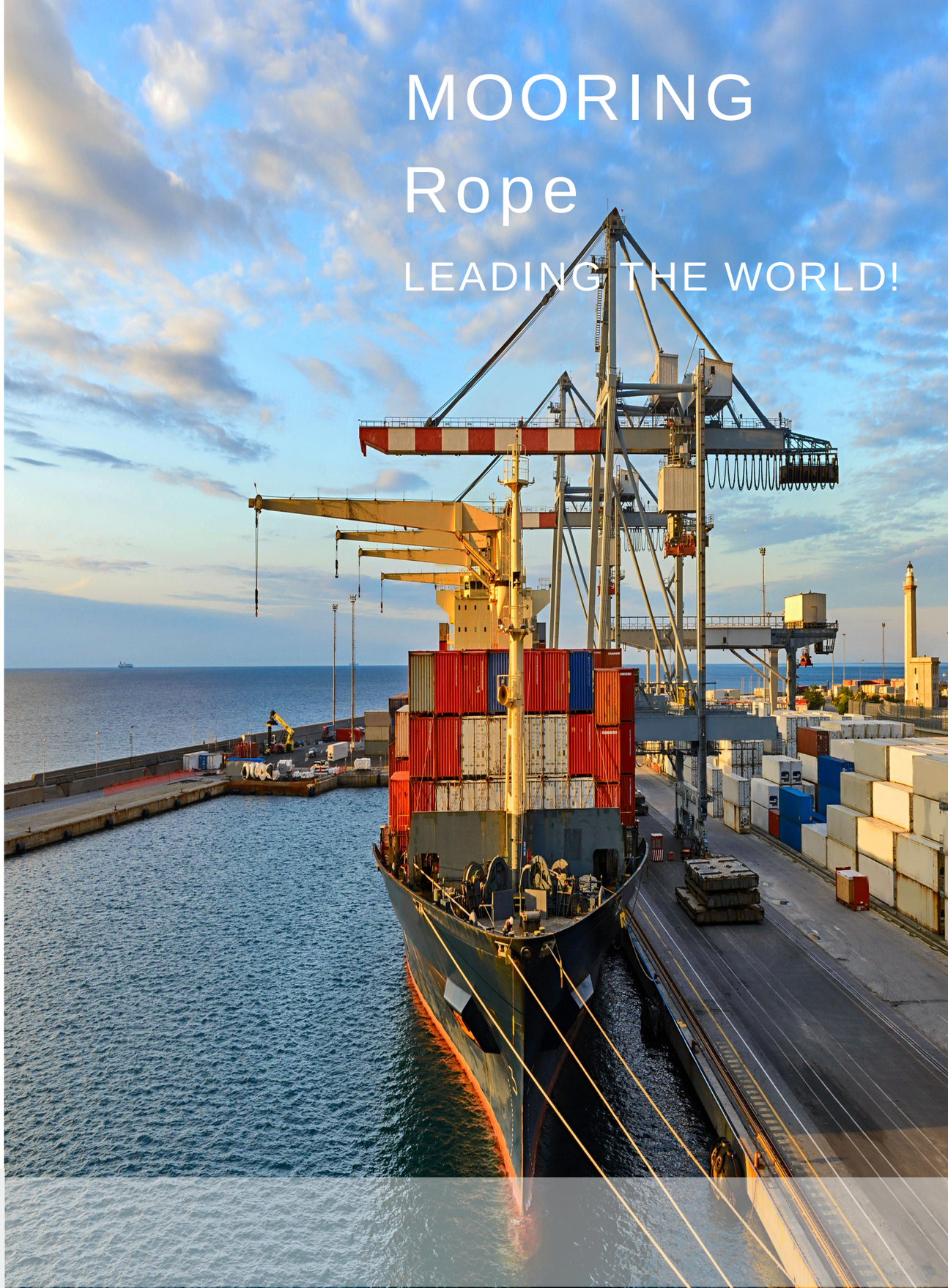
MOORING
Rope

LEADING THE WORLD!



BNK MOORING **ROPE LEADING THE WORLD**

Innovation and pragmatism have propelled BNK Rope to rapid development in the 21st century. With many years of experience in cable manufacturing, research and development, sales, and service, the company has assembled a team of industry elites. Over the years, BNK has adhered to a culture of innovation and pursuit of excellence, earning recognition from multinational classification societies and garnering praise from customers both domestically and internationally.

The company boasts comprehensive production and testing equipment, with rigorous testing of raw materials to ensure stable product performance and robust specifications. Leading the industry trends, BNK Rope has always been at the forefront of cable high-tech advancements. The product range includes three, six, eight, twelve, sixteen, twenty-four, thirty-two, and forty-eight strand structures. Materials used include polypropylene fiber, ethylene fiber, polypropylene filament, polyester, polyamide composite fiber, ultra-high molecular weight polyethylene, aramid, and beef tendon, among others.

Upholding the value concept of quality and win-win, BNK has created a new business model. The company, based domestically but with a global outlook, has established numerous business institutions both at home and abroad. BNK ' s products cover key international markets, and the company collaborates with major aviation and shipping companies worldwide. This ensures the swift delivery of high-quality cables to meet global customer demands, significantly enhancing customer operation efficiency and reducing operational costs. BNK has become the preferred brand in fields such as ship equipment, ocean transportation, marine engineering, national defense, oil exploration, wharf and port operations, fishing, and specialized industries.

In the realm of cable sales and service, BNK has cultivated an experienced, technically proficient, dedicated, and patient high -quality service team. This team provides real-time tracking of rope product usage, professional advice, and comprehensive technical support, aiming to extend the service life of products and continuously meet customer needs.

To accelerate market expansion, BNK Rope consistently studies high-tech cable advancements both domestically and internationally. The company continuously builds and strengthens its scientific research team, overcoming challenges through technological and product innovations. BNK develops various high-tech, high-quality cable products, providing solid technical support for customized cable solutions for global customers.

PA 3 / 8 / 12 Strand

High strength nylon cable, its structure has three strands, eight strands, twelve strands and double braided it is made of high strength nylon filament fiber, has good flexibility and impact resistance, at the same time has excellent wear resistance, UV resistance, linear and corrosion resistance, these characteristics ensure the safety of the ship in the harsh environment.

Dia	Circ	Linear Density	Weight	MBL	
mm	ins	Ktex	KG/220mtr	KN	Tonf
3 Strand					
4	1/2	9.87	2.17	4.3	0.44
8	1	39.5	8.69	16	1.63
10	1-1/4	61.7	13.57	24.5	2.50
12	1-1/2	88.8	19.54	34.5	3.52
14	1-3/4	121	26.62	46	4.69
16	2	158	34.76	57.5	5.87
18	2-1/4	200	44.00	72.5	7.40
20	2-1/2	247	54.34	92	9.39
22	2-3/4	299	65.78	110	11.22
26	3-1/4	417	91.74	145	14.80
30	3-3/4	555	122.10	195	19.90
36	4-1/2	800	176.00	305	31.12
8 Strand					
12 Strand					
40	5	987	217.14	360	36.73
48	6	1420	312.40	520	53.06
52	6-1/2	1700	374.00	610	62.24
56	7	1970	433.40	690	70.41
60	7-1/2	2260	497.20	770	78.57
64	8	2570	565.40	860	87.76
72	9	3250	715.00	1100	112.24
80	10	4010	882.20	1360	138.78
88	11	4860	1069.20	1610	164.29
96	12	5780	1271.60	1950	198.98
104	13	6780	1491.60	2180	222.45
112	14	7870	1731.40	2580	263.27
120	15	9030	1986.60	2880	293.88
128	16	10100	2222.00	3220	328.57
136	17	11600	2552.00	3600	367.35
160	20	16100	3542.00	5180	528.57

General:

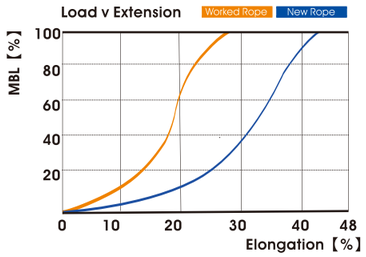
- Coil Length: 220M (Length can be customized)
- Spliced Strength: 10% Lower
- Weight and Length Tolerance: ±5%
- Colors: Yellow, blue, red etc, customized at your requests
- Physical properties are in accordance with polyamide fiber
- ropes international standard ISO1140:2012

Characteristics:

- Material: High Tenacity Polyamide Multifilament Fiber
- Construction: 3/8/12 Strand
- Specific Gravity: 1.14, Non-floating
- Melting Point: 215℃
- Abrasion Resistance: ★★★★(Good Abrasion Resistance When Dry)
- Chemical Resistance: ★★★★
- UV Resistance: ★★★★
- Water Absorption: Yes
- Excellent Shock Absorption

Applications:

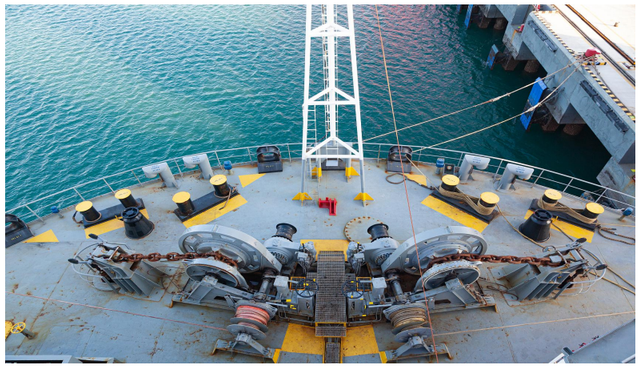
Mooring/ Hoisting/ Tug line/ Commercial Fishing/ Climbing Rope/ Mooring Tail/ Single Point Mooring



PA 6 Strand

Made from high strength nylon, the combination of nylon monofilament and nylon composite filament provides excellent wear resistance and high breaking force.

Dia	Circ	Linear Density	Weight	MBL	
mm	ins	Ktex	KG/220mtr	KN	Tonf
6 Strand					
18	2-1/4	220	48.40	84.4	8.61
20	2-1/2	275	60.50	107	10.92
22	2-3/4	345	75.90	133	13.57
24	3	400	88.00	154	15.71
26	3-1/4	465	102.30	179	18.27
28	3-1/2	515	113.30	197	20.10
32	4	650	143.00	248	25.31
36	4-1/2	832	183.04	314	32.04
40	5	1000	220.00	377	38.47
44	5-1/2	1250	275.00	491	50.10
48	6	1480	325.60	579	59.08
52	6-1/2	1600	352.00	625	63.78
56	7	2000	440.00	770	78.57
60	7-1/2	2170	477.40	839	85.61
62	7-3/4	2350	517.00	910	92.86
64	8	2450	539.00	952	97.14
68	8-1/2	2800	616.00	1079	110.10
70	8-3/4	3100	682.00	1197	122.14
72	9	3350	737.00	1246	127.147
78	9-3/4	3640	800.80	1334	136.12
84	10-1/2	4250	935.00	1550	158.16
90	11-1/4	5050	1111.00	1825	186.22
96	12	5850	1287.00	2109	215.20

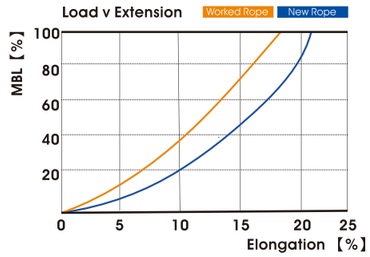


Characteristics:

- Material: 100% High Tenacity Polyamide
- Construction: 6-Strand Cross Lay
- Specific Gravity: 1.14, Non-floating
- Melting Point: 215℃
- Abrasion Resistance: ★★★★★
- High Strength:★★★★★
- Chemical Resistance: ★★★★
- UV Resistance: ★★★★
- Compact, Easy to Handle
- Maintenance Free
- Permanent Stiffness

Applications:

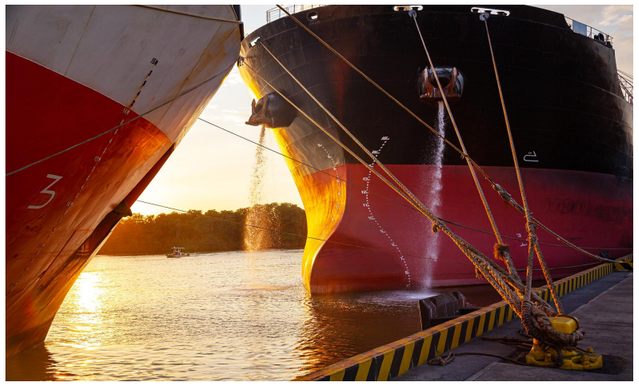
Bulk Carriers/ Container Vessels



PA Double Braided

It is made of 100% high strength nylon compound silk as the inner core and super wear-resistant polyester as the sheath. The structure makes the rope has the characteristics of high strength, excellent wear resistance and strong impact resistance

Dia	Circ	Linear Density	Weight	MBL	
mm	ins	Ktex	KG/220mtr	KN	Tonf
Double Braided					
4	1/2	10.3	2.27	4.3	0.44
6	3/4	23	5.06	10	1.02
8	1	41	9.02	17	1.73
10	1-1/4	64	14.08	26.5	2.70
12	1-1/2	92	20.24	38	3.88
14	1-3/4	126	27.72	52	5.31
16	2	164	36.08	68	6.94
18	2-1/4	207	45.54	86	8.78
20	2-1/2	255	56.10	106	10.82
22	2-3/4	309	67.98	128	13.06
28	3-1/2	501	110.22	198	20.20
36	4-1/2	828	182.16	328	33.47
44	5-1/2	1236	271.92	483	49.29
48	6	1473	324.06	575	58.67
56	7	2009	441.98	795	81.12
60	7-1/2	2297	505.34	900	91.84
64	8	2616	575.52	1035	105.61
72	9	3306	727.32	1250	127.55
80	10	4089	899.58	1545	157.65
88	11	4954	1089.88	1870	190.82
96	12	5892	1296.24	2240	228.57
104	13	6911	2114.42	2670	272.45
112	14	8024	1765.28	3070	313.27
120	15	9198	2023.56	3500	357.14

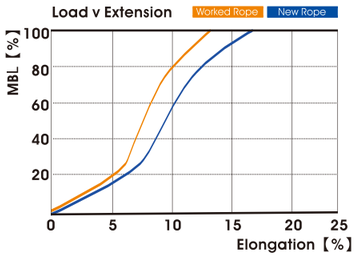


Characteristics:

- Material: High Tenacity Polyamide Multifilament Fiber and Polyester Fiber
- Construction: Double Braid
- Specific Gravity: 1.14-1.36, Non-floating
- Melting Point: 215℃(Core)/265℃(Cover)
- Abrasion Resistance: ★★★★★(Good Abrasion Resistance When Dry)
- Chemical Resistance: ★★★★★
- UV Resistance: ★★★★
- Water Absorption: Yes
- Excellent Shock Absorption

Applications:

Mooring/ Hoisting/ Tug line/ Commercial Fishing/ Climbing Rope/ Mooring Tail/ Single Point Mooring



PP 3 / 8 / 12 Strand

As the lightest, most widely used, the most economical chemical fiber rope . Strength is about twice the Manila rope of the same specification, polypropylene rope does not mold, has good chemical corrosion resistance, float in water but does not absorb water, can be stored in humid environment, but to avoid direct sunlight.

Dia	Circ	Linear Density	Weight	MBL	
mm	ins	Ktex	KG/220mtr	KN	Tonf
3 Strand					
4	1/2	7.23	1.59	3.2	0.33
6	3/4	16.3	3.59	7	0.71
8	1	28.9	6.36	11.5	1.17
10	1-1/4	45.2	9.94	17.2	1.76
12	1-1/2	65.1	14.32	24	2.45
14	1-3/4	88.6	19.49	32	3.27
16	2	116	25.52	43	4.39
18	2-1/4	146	32.12	52	5.31
20	2-1/2	181	39.82	64.5	6.58
22	2-3/4	219	48.18	77	7.86
26	3-1/4	306	67.32	103.5	10.56
30	3-3/4	407	89.54	136	13.88
36	4-1/2	586	128.92	195	19.90
8 Strand					
12 Strand					
40	5	723	159.06	240	24.49
48	6	1040	228.80	345	35.20
52	6-1/2	1220	268.40	408	41.63
56	7	1420	312.40	460	46.94
60	7-1/2	1630	358.60	520	53.06
64	8	1850	407.00	575	58.67
72	9	2340	514.80	725	73.98
80	10	2890	635.80	920	93.88
88	11	3500	770.00	1090	111.22
96	12	4170	917.40	1290	131.63
104	13	4890	1075.80	1510	154.08
112	14	5670	1247.40	1720	175.51
120	15	6510	1432.20	1950	198.98
128	16	7410	1630.20	2300	234.69
136	17	8360	1839.20	2570	262.24
144	18	9370	2061.40	2875	293.37
160	20	11600	2552.00	3450	352.04

General:

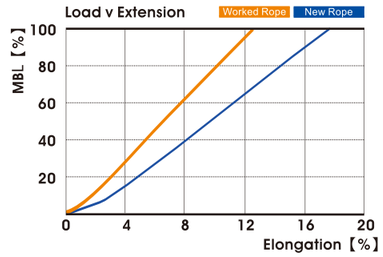
- Coil Length: 220M (Length can be customized)
- Spliced Strength: 10% Lower
- Weight and Length Tolerance: ±5%
- Colors: Yellow, blue, red etc, customized at your requests
- Physical properties are in accordance with polypropylene multifilament fiber ropes international standard ISO 1346:2012

Characteristics:

- Material: Polypropylene Multifilament Yarn
- Construction: 3/8/12 Strand
- Specific Gravity: 0.91, Floating
- Melting Point: 165℃
- Abrasion Resistance: ★★★
- Chemical Resistance: ★★★
- UV Resistance: ★★★★★
- Water Absorption: None
- Dry & Wet Conditions: Wet Strength Equals Dry Strength
- Easy to Handle, Inspect and Repair
- Fair Price

Applications:

Mooring/ Fishing/ Farm & Industry/ Offshore Leisure/ Cargo Net



PP Double Braided

The inner core is made of polypropylene filament, and the outer sheath is made of polyester material, which has good wear resistance. Compared with wire rope without sheath protection, its UV and wear resistance is more prominent, so the service life is longer.

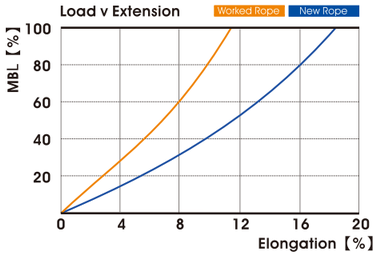
Dia	Circ	Linear Density	Weight	MBL	
mm	ins	Ktex	KG/220mtr	KN	Tonf
Double Braided					
4	1/2	8.4	1.85	2.8	0.29
6	3/4	18.8	4.14	6.2	0.63
8	1	33	7.26	11	1.12
10	1-1/4	52	11.44	17.2	1.76
12	1-1/2	75	16.50	25	2.55
14	1-3/4	102	22.44	33	3.37
16	2	133	29.26	44	4.49
18	2-1/4	168	36.96	56	5.71
20	2-1/2	208	45.76	69	7.04
22	2-3/4	252	55.44	84	8.57
24	3	299	65.78	99	10.10
28	3-1/2	404	88.88	136	13.88
32	4	528	115.50	177	18.06
36	4-1/2	668	146.96	224	22.86
40	5	825	181.50	276	28.16
44	5-1/2	1006	221.32	338	34.49
48	6	1190	261.80	407	41.53
52	6-1/2	1390	305.80	472	48.16
56	7	1610	354.20	545	55.61
60	7-1/2	1850	407.00	620	63.27
64	8	2090	459.80	705	71.94
72	9	2640	580.80	882	90.00
80	10	3290	723.80	1075	109.69
88	11	3950	869.00	1280	130.61
96	12	4710	1036.20	1500	153.06
104	13	5480	1205.60	1740	177.55
112	14	6390	1405.80	1950	198.98
120	15	7350	1617.00	2310	235.71

Characteristics:

- Material: Polypropylene Multifilament Yarn and Polyester Fiber
- Construction: Double Braid
- Specific Gravity: 0.91-0.98, Floating
- Melting Point: 165℃(Core)/265℃(Cover)
- Abrasion Resistance: ★★★★
- Chemical Resistance: ★★★★
- UV Resistance: ★★★★★
- Water Absorption: None
- Dry & Wet Conditions: Wet Strength Equals Dry Strength

Applications:

Mooring/Fishing/Farm & Industry/Offshore Leisure



PP/PET 3 / 8 / 12 Strand

Structure: three strand, six strand, eight strand, twelve strand and double weave. It is made of a mixture of polyester and polypropylene fibers. Compared with the traditional hybrid chemical fiber rope, it has higher strength, better elasticity and excellent wear resistance.

Dia	Circ	Linear Density	Weight	MBL	
mm	ins	Ktex	KG/220mtr	KN	Tonf
3 Strand					
6	3/4	17.5	3.85	7	0.71
8	1	31	6.82	12.3	1.26
10	1-1/4	48.5	10.67	18.8	1.92
12	1-1/2	69.9	15.38	26.5	2.70
14	1-3/4	95.1	20.92	36	3.67
16	2	124	27.28	46	4.69
18	2-1/4	157	34.54	58	5.92
20	2-1/2	194	42.68	79	8.06
24	3	279	61.38	110	11.22
28	3-1/2	380	83.60	149	15.20
32	4	479	105.38	192	19.59
36	4-1/2	629	138.38	240	24.49
8 Strand					
12 Strand					
40	5	776	170.72	295	30.10
48	6	1110	244.20	420	42.86
52	6-1/2	1320	290.40	488	49.80
56	7	1520	334.40	562	57.35
60	7-1/2	1750	385.00	640	65.31
64	8	1990	437.80	725	73.98
72	9	2520	554.40	907	92.55
80	10	3110	684.20	1107	112.96
88	11	3750	825.00	1334	136.12
96	12	4470	983.40	1575	160.71
104	13	5260	1157.20	1828	186.53
112	14	6050	1331.00	2116	215.92
120	15	6980	1535.60	2415	246.43
128	16	7950	1479.00	2725	278.06
136	17	8950	1969.00	3060	312.24
144	18	10100	2222.00	3415	348.47
160	20	12500	2750.00	4175	426.02

General:

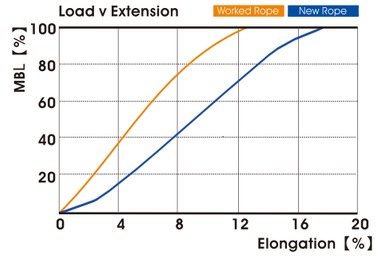
- Coil Length: 220M (Length can be customized)
- Spliced Strength: 10% Lower
- Weight and Length Tolerance: ±5%
- Colors: Yellow, blue, red etc, customized at your requests
- Physical properties are in accordance with fiber ropes international
- standard ISO 10556-2009

Characteristics:

- Material: High Tenacity PP Multifilament and Polyester Fibers
- Construction: 3/8/12 Strand
- Specific Gravity: 0.95-0.98, Floating
- Melting Point: 165℃-260℃
- Abrasion Resistance: ★★★★★
- Chemical Resistance: ★★★★
- UV Resistance: ★★★★
- Water Absorption: None
- Dry & Wet Conditions: Wet Strength Equals Dry Strength
- Excellent Shock Absorption

Applications:

Mooring/ General Fishing/ Messenger Line/ Mooring Tail/ Inland Shipping



PP/PET Double Braided

he inner core is made of polypropylene filament and the outer sheath is made of polyester. Compared with the rope without sheath protection, its UV resistance and wear resistance is more prominent, so the service life is longer.

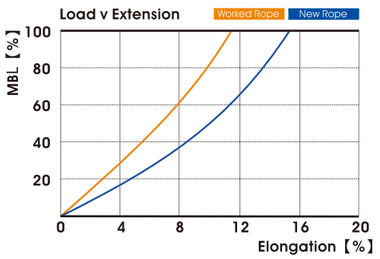
Dia	Circ	Linear Density	Weight	MBL	
mm	ins	Ktex	KG/220mtr	KN	Tonf
Double Braided					
4	1/2	9	1.98	3	0.31
6	3/4	20.2	4.44	7	0.71
8	1	36	7.92	12.5	1.28
10	1-1/4	56	12.32	19	1.94
12	1-1/2	81	17.82	26.5	2.70
14	1-3/4	110	24.20	36	3.67
16	2	143	31.46	47	4.80
18	2-1/4	181	39.82	60	6.12
20	2-1/2	224	49.28	80	8.16
22	2-3/4	271	59.62	90	9.18
24	3	325	71.50	112	11.43
28	3-1/2	430	94.60	152	15.51
32	4	576	126.72	195	19.90
36	4-1/2	732	161.04	250	25.51
40	5	902	198.44	305	31.12
44	5-1/2	1093	240.46	373	38.06
48	6	1300	286.00	437	44.59
52	6-1/2	1525	335.50	510	52.04
56	7	1773	390.06	590	60.20
60	7-1/2	2035	447.70	670	68.37
64	8	2310	508.20	764	77.96
72	9	2924	643.28	973	99.29
80	10	3610	794.20	1190	121.43
88	11	4371	961.62	1442	147.14
96	12	5207	1145.54	1726	176.12
104	13	6112	1344.64	2020	206.12
112	14	7082	1558.04	2350	239.80
120	15	8127	1787.94	2677	273.16

Characteristics:

- Material: High Tenacity PP Multifilament and Polyester Fibers
- Construction: Double Braid
- Specific Gravity: 0.95-0.98, Floating
- Melting Point: 165℃-260℃
- Abrasion Resistance: ★★★★★
- Chemical Resistance: ★★★★
- UV Resistance: ★★★★
- Water Absorption: None
- Dry & Wet Conditions: Wet Strength Equals Dry Strength
- Excellent Shock Absorption

Applications:

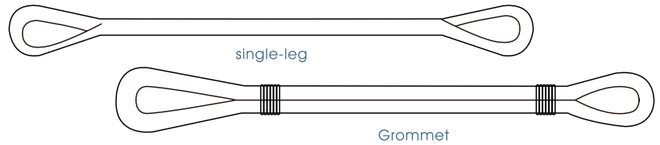
Mooring/ Offshore Platform/ General Fishing/ Messenger Line/ Mooring Tail/ Inland Shipping



MOORING TAILS

Using synthetic mooring tails is the most common method of decreasing loads in the mooring System .Tails are typically used with our UHMWPE ROPE to improve mooring system in integrity by reducing mean and peak loads .When used ,tails serve as an integral part of the mooring system and should not be considered a weak link with the system's design .

TAIL TYPE:



- Mooring tail has 2mtr soft eye at both ends .(That can be designed according to your requests)
- Hardware and chafe protection can be added upon your requests.
- Grommet strength is 1.6x the single-leg rope strength.
- The Tail Design Break Force (TDBF) needs to be higher than the LDBF ,because the tail experiences more wear in service than line.
- The TDBF of tails should be 125%-130% of ship design MBL.

COW HITCH CONNECTION:

After properly installing the mooring lines on the winch drum, the tails should be attached to the working end of the mooring line. This is done by cow hitch connection per MEG4 guidelines.

PA mooring-tail

Dia	Circ	Linear Density	Weight	MBL(MT)	
mm	ins	Ketx	Kg / 100m	Single	Grommet
48	6	1420	142.00	56.20	89.92
52	6-1/2	1700	170.00	65.90	105.44
56	7	1970	201.00	75.60	120.96
60	7-1/2	2260	226.00	86.40	138.24
64	8	2570	257.00	97.30	155.68
68	8-1/2	2860	286.00	109.80	175.68
72	9	3270	327.00	122.40	195.84
80	10	4030	403.00	149.40	239.04
88	11	4860	486.00	180.40	288.64
96	12	5790	579.00	212.90	340.64

Features and Benefits:

- High strength
- Shock mitigation
- Excellent wet strength retention
- Durable in wet conditions
- Easy to splice
- Single-leg or strop (grommet) configurations
- 11/ 18/ 22-meter lengths
- Meets MEG4 guidelines

Construction:

- 8/ 12-strand PP & PES Mixed
- Fiber: PP & PES Mixed
- Colors: White

Applications:

- Traditional mooring tail
- Exposed terminal moorings

Features and Benefits:

- High cow-hitch efficiency per MEG4 guidelines
- Higher residual strength than parallel-core constructions
- Good flex-fatigue resistance
- Good shock absorption
- Easy to inspect and splice

Construction:

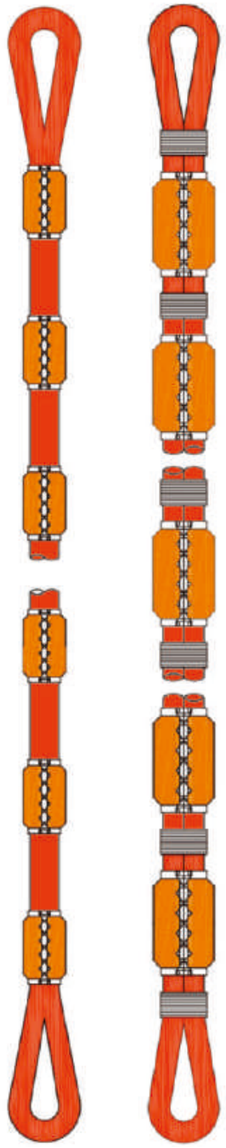
- 8/12-strand Nylon
- Fiber: Nylon
- Colors: White

Applications:

- Mooring tail
- Shock absorbing pendant
- Tug assist working line

PP/PET mooring-tail

Dia	Circ	Linear Density	Weight	MBL(MT)	
mm	ins	Ketx	Kg / 100m	Single	Grommet
48	6	1110	111.00	42.90	68.64
52	6-1/2	1320	132.00	49.80	79.68
56	7	1520	152.00	57.40	91.84
60	7-1/2	1750	175.00	66.00	105.60
64	8	1990	199.00	74.00	118.40
72	9	2520	252.00	93.00	148.80
80	10	3110	311.00	113.00	180.80
88	11	3750	375.00	136.00	217.60
96	12	4470	447.00	161.00	257.60



SINGLE POINT MOORING HAWSER

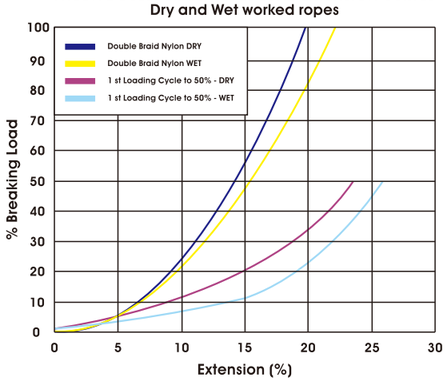
SPM rope is a circular braid design developed to give the rope extra protection against wear and tear, without significantly changing the primary characteristics. It is a logical development from the double braid, where the outer protects the inner and both contribute to the strength. In circular braided rope design this duality has been abandoned. The cover is optimized for strength. This results in both a higher strength and a better life expectancy.

Dia	Circ	Weight	NDBS(KN)		NWBS(KN)	
mm	ins	kg/ 100m	Single	Grommet	Single Leg	Grommet
Double Braided						
80	10	397	1442	2452	1370	2329
88	11	481	1746	2969	1659	2820
96	12	572	2040	3469	1938	3295
104	13	671	2443	4153	2321	3945
112	14	779	2825	4803	2684	4563
120	15	893	3208	5453	3047	5181
128	16	1020	3610	6137	3430	5830
136	17	1150	4110	6988	3905	6638
144	18	1280	4611	7838	4380	7446
152	19	1425	5111	8689	4855	8254
160	20	1580	5670	9639	5387	8254

- Rope is in compliance with OCIMF Equipment Guidelines & ISO 2307
- Other sizes can be provided as per the requirement

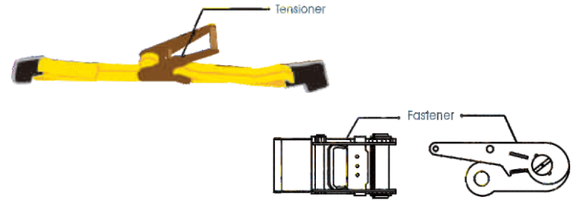
Property:
- Approx Spec Density: 1.14 non floating
- Melting Point: 215℃
- Abrasion Resistance: Excellent
- UV Resistance: Excellent due to jacket
- Temperature: 80℃ max continuous
- Chemical Resistance: Reasonable. Acids, oxidisers & solvents will affect nylon
- Dry & Wet Conditions: Wet strength is 5% lower than dry strength
- Diameter: 80mm-160mm

NYLON DOUBLE BRAID ROPES LOAD EXTENSION CURYES
Dry and Wet worked ropes



HELIDECK LANDING NETS

ACCESSORIES:



Net Size	9m*9m	12m*12m	14m*14m	15m*15m	20m*20m
Mesh Rope Size	16mm-25mm				
Mesh Size	100mm*100mm		150mm*150mm		200mm*200mm
Type of Rope	Manila Rope/ Sisal Rope				
Remark	Nets of other sizes can be provided upon your request				

- Net is in compliance with CAP437
- Other sizes can be provided as per the requirement

Features and Benefits:
- Long durability, usable in low temperature
- Good impact resistance
- Hold knots firmly and stretch very little
- Package for easy handling and transportation via road, ship or helicopter
- Manufactured to CAP 437 standard
- High quality materials
- Does not obstruct helideck markings
- Low profile design

CARGO NETS

Application Scope: aviation, railway, ships, steel industry, mining, oil field, ports, chemical industry, power, machinery, harbor handling, warship, offshore platform, lifting and hoisting of large ships etc.

Environmental Condition: ambient temperature < 100℃

Features:
- Advantage: good abrasion resistance and UV resistance, long work life
- Standard Color: white (Other color can be customized at client's request.)

Net Size	2m*2m	2.5m*2.5m	3m*3m	4m*4m	2.5m*2.5m	3m*3m
Mesh Size	200m*200mm				200m*200mm	
Rim Rope Size	24mm diameter				12mm diameter	
Mesh Rope Size	18mm diameter				9mm diameter	
Material	Polypropylene				Wire Rope	

- Other sizes can be provided as per the requirement

SLING

Standard	JB/ T8521-2007	Length	0.5M-100M
Material	Polyester, Polypropylene, Nylon, Synthetic fiber	Type	Webbing sling, Round sling
Work Temperature	-40℃-100℃	Weight	Accordingly
WLL	0.5T-100T	Width	25mm-600mm
Safety Factor	6:1, we can also provide 4:1, 5:1, 7:1, and 8:1 slings.		
Advantage	1. Soft and easy handling. 2. Not hurt the surface of the lifting items. 3.Stable and safe. 4. high breaking load, and can be distinguished by color. 5. Easy store, good corrosion resistance and abrasion resistance.		

- Other rspecial size can be provided upon your request

ROPE LADDER

Rope ladder, also called Jacob's ladder, is widely used as chain ladder or decending ladder on ships (for example in containers). They are made of wood steps, synthetic or Manila side rope. It is finished with eye on top for easy mounting, an ideal product for general purposes and different sizes are available.

Type	Flat Step	Round Step	
Size	L460*W100*T22mm	φ36mm*L460mm	φ35mm*L400mm
Step Space	350mm	400mm	330mm
Side Rope	Manila: 2*φ16mm Synthetic Rope: 2*φ14mm	Manila: 2*φ18mm Synthetic Rope: 2*φ18mm	
Length	Upon user's request		

> Other special sizes can be provided upon your requests

MANILA ROPE

Manila rope is made of natural Manila hemp featuring good wear performance, heat resistance, knotting tight, low stretch and free of static, They are popular at oil drilling, sealing as well as marine transportation of LNG and gasoline tankers for its lack of static electricity, and also hot sales in gardening, packing as well as construction fields. it is widely used in chemical vessels and LNG carriers. Since it is natural fiber rope, it is often used for construction, packaging and decoration.

Characteristics:

> UV Resistance: good
> Handle: easy to knot firm
> Feeling: rough
> Chemical Resistance: average
> Store: keep in cool places to avoid mildew
> Material: Natural Manila hemp, biodegradable
> Specific Gravity: 1.38, non-floating, increased strength after getting wet
> Wear Resistance: ★★★★
> Elongation: 4% elongation under 20% MBL

Features:

> Low Stretch > Abrasion resistance > Environmental

Dia	Circ	Linear Density		MBL	
mm	ins	Ktex		KN	Tons
6	3/4	±10%	29	2.3	0.23
8	1	±10%	54	4.25	0.43
10	1-1/4	±10%	68	5.6	0.57
12	1-1/2	±8%	105	8.4	0.86
14	1-3/4	±8%	140	11.3	1.15
16	2	±8%	190	15.9	1.62
18	2-1/4	±8%	220	18.9	1.93
20	2-1/2	±8%	275	25.1	2.56
22	2-3/4	±8%	330	30.1	3.07
24	3	±8%	400	35.9	3.66
26	3-1/4	±8%	470	41.8	4.27
28	3-1/2	±8%	530	47	4.80
30	3-3/4	±5%	625	53.8	5.49
32	4	±5%	700	60.6	6.18
36	4-1/2	±5%	890	76.8	7.84
40	5	±5%	1100	95.9	9.79
44	5-1/2	±5%	1340	112.5	11.48
48	6	±5%	1580	130.5	13.32
52	6-1/2	±5%	1870	153	15.61
56	7	±5%	2150	175.5	17.91
60	7-1/2	±5%	2480	199.8	20.39

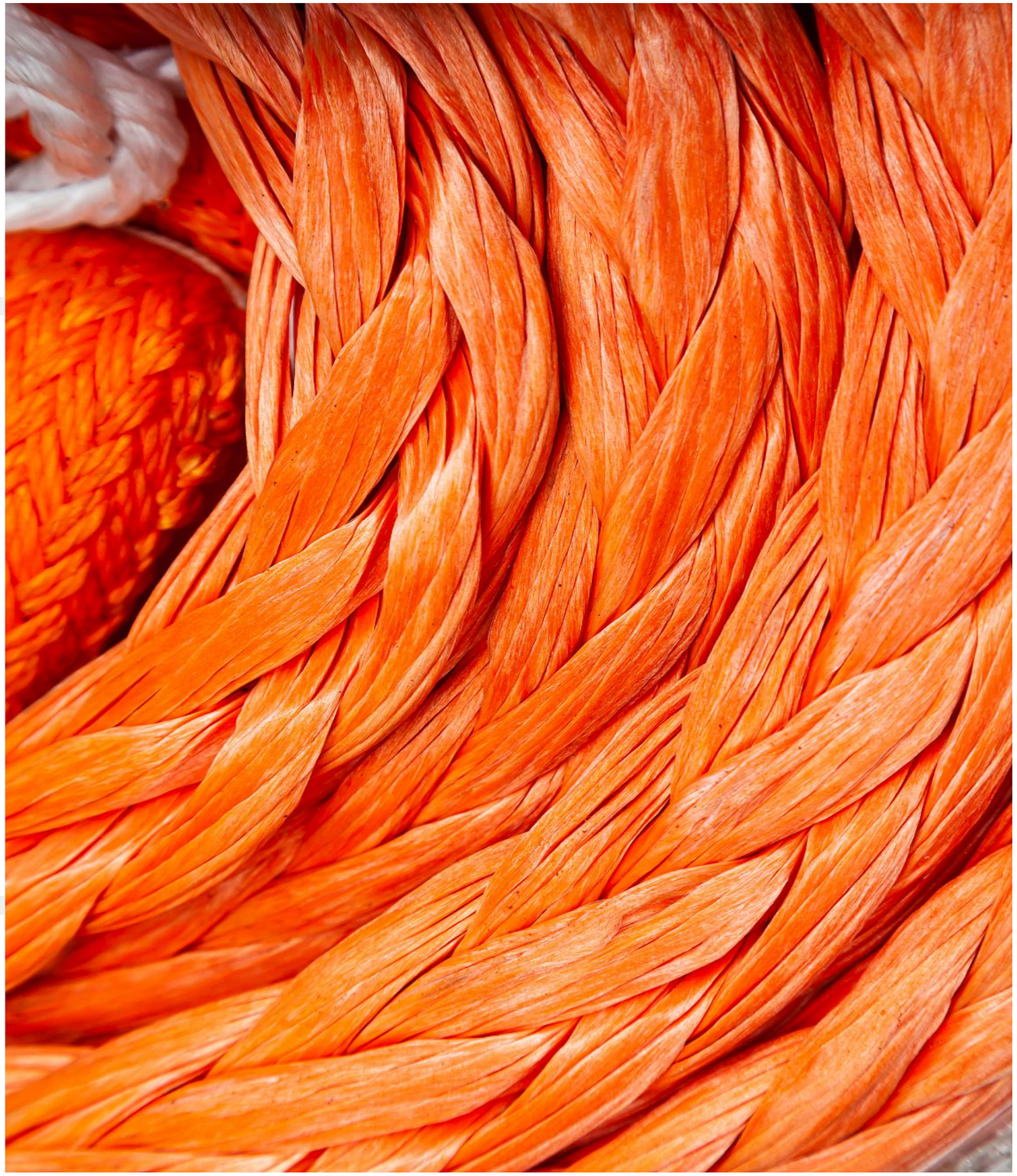
SLEEVES

General:

> Length: 1m to 10m
> Width: 30mm to 500mm
> Thickness: 3mm

Characteristics:

> Made by robust material (flat Polyester webbing pad)
> Prevent the cable from being worn out by the fairlead
> Easy operation
> Magic tape (Easy to disassemble)



CAUTIONS

1. Storage

Synthetic fiber ropes should be stored in clean, dry and cool areas out of direct sunlight, where possible under deck or under a suitable cover. Rope should be stored off the ground, to allow adequate ventilation. Never store rope on concrete or dirty floors, or drag over rough ground as dirt and grit picked up by the rope can work into strands and cut the inside fibers. Keep away from all types of chemicals and exposure to all forms of heat. In cases of long term storage used ropes should be hosed down with fresh water to reduce salt crystals that affect life and efficiency of the ropes.

2. Rope Safety

Never stand in line with a rope under tension. If a rope fails it can recoil with sufficient force to cause serious injury or even death. Ensure all end terminations are adequate to take shock loads. Use correct safety factors. Remember to de-rate rope strengths for incorrect end fitting and wear.

3. Rope Installation

Full guidelines for rope installation and operation are available on request from Xinglun Rope.

4. Sharp Bends

Sharp bends around any piece of equipment should be avoided. Where a static rope passes around any surface with a deflection of 10 degrees or more then the diameter of the surface should be a minimum of three times the rope diameter. Any sharp bend in a rope under load will substantially decrease its strength and may cause premature damage or failure.

5. Eye Splices

The length of an eye in a rope should be a minimum of three times, and preferably five times, the diameter of the item around which it is to be passed. This will ensure that the angle between the two legs of the eye will not cause a tearing action at the throat of the eye. For instance if the eye of a mooring line is passing around a 600mm diameter bollard, then the eye should be a minimum of 1.8 meters and preferably 3 meters.

6. Capstans and Winches

Ropes used on single drum or split drum winches should be installed under tension and the initial layers should be a close tight fit between the flanges to prevent burying into the lower layers. A minimum of eight wraps of rope should be maintained on the drum at all times. Care should be exercised to avoid surging while the capstan or winch head is rotating. Excessive surging or slippage causes localized over heating which can melt or fuse synthetic fibers with resulting loss of strength. The “furry”look of a well used synthetic fiber rope is not necessarily an indication of weakness. In fact the “furry” or hairy surface can serve to protect the rope.

7. Handling

When a rope is supplied in a coil, it should always be uncoiled from the inside so the first turn comes from the bottom in a counterclockwise direction. If a rope is supplied on a reel, this must be allowed to freely rotate on a central pin or pipe so that the rope can be drawn off the rope lay. Never take rope from a reel lying on its side. Braided ropes can not be kinked, but twist can be imparted into the ropes in service. Excessive twist can cause a imbalance between the right and the left hand strands and should therefore be removed as soon as possible by counter-rotating the rope when it is relaxed. Colored tracer can be a helpful reference when removing the excessive twist.

8. Rope Inspection

In use, rope should be inspected regularly for evidence of chemical attack (discoloration other than operation soiling), kinking, surface abrasion including major yarn or strand cuts and both external and internal strand heat fusion indicated by glazed areas or heavy fluffing and powdering. Braided rope should be examined along their entire length for areas of stiffening or inconsistent diameter, where the rope has either flattened or has an unusual lump or surface hernia. This can indicate internal damage or core failure due to overloading or severe shock loads. If limited to one small section, the damaged area maybe cut out and re-spliced, otherwise the rope should be discarded. Check splices and tucks for evidence for movement or misalignment. If in doubt, please cut off and re-splice.

9. Retiring Ropes

Apart from rejecting your rope when obviously damaged, it is wise to establish lifetimes of your ropes within the parameters of the use for which it was selected. This will allow you to retire your rope on a regular scheduled basis, provided that your conditions of usage remain unchanged. Remember to re-establish your discard criteria if changing rope type, rope material or rope type breaking load. Safety of life and property is the prime consideration. If in doubt, please contact us for recommendation.

MORE CONVENIENT, MORE EFFICIENT

MORE ENVIRONMENTAL, MORE STABLE