



MOORING



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JIULI INFORMATION

1979: JIULI ROPE WAS FORMED

JIULI ROPE started as a state-owned company in year 1979 with a very strong technical force. It was one of the pioneers in this industry.

1995: IMPORTED GERMAN EQUIPMENT

The first Double Braided Machine from Germany was imported into China by us in 1995. It was not only to fulfill the customers' needs and enhancement of our products quality, it made us to be the market leader with the most advance equipment and technologies from Germany.

2002: REFORMATION OF COMPANY

The company was reformed to a Private Company to meet the changes of the market situation and to remain competitive,

2005: NEW FACTORY

After nearly 30 years of rapid growth through dedicated and innovative efforts, our New Factory with more advance equipment was built in Baoying Economic Development Zone in 2005.

2010: NCFREG WAS FORMED IN OUR COMPANY

The National Chemical Fiber Rope Executive Group (NCFREG) under National Committee (NC) of Shipping Standardization was formed in December 2010 in our Company. The mandate of NCFREG is to draft the National Standards for Shipping Chemical Fiber Rope Industries.

TODAY:JIULI ROPE provides a full range of Fiber Rope with Certificates from world-recognized Marine & Offshore certification Bodies, example: DNV, Lloyds, NK, CCS, ABS, GL, KR, BV.

PRODUCTS:Our products include PP Mono, PP Multi, Nylon, Polyester, UHMWPE (Dyneema), etc, with structure include 3 ply, 4 ply, 6ply, 8 ply, 12 ply,16 ply, 24 ply, 32 ply and 48 ply (Double-Layer Braided) and diameter ranging from 4mm to 246mm.



According to our motto,service to our user is our main characteristic and will be our main tool to face business competition

Technical consultation to ensure we supply the production that best suits you needs

On-site training in usage inspection, handling and retirement criteria

To build our core competencies

To smooth exchange of information

Ensure that our service market bridge and link

PRODUCT CONTENT

3-STRAND ROPE 01

8-STRAND 02

12-STRAND 03

DOUBLE BRAIDED ROPE 04

ARAMID FIBER ROPE 05

NYLON SINGLE FILAMENT 6-PLY
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CRANE WIRE ROPE 16

WIRE MOORING ROPE 17

SHACKLE 18

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NET 20

JIULI RESEARCH AND DEVELOPMENT:

Jiuli cooperate with Donghua University & Sichuan University,our R&D team is comprised of experts in

- ◇ Chemical engineering
 - ◇ Mechanical engineering
 - ◇ Textile engineering
 - ◇ Materials science
 - ◇ Polymer science
- They are backed by
- ◇ Modern testing equipment
 - ◇ Quality control standards and processes
 - ◇ Fabrication specialists

TECHNICAL SUPPORT SERVICES

All products development and production of existing products are subject to stringent inspection, testing, and documentation. Our plants are equipped with certified testing equipment to assess the characteristics of both raw materials and finished goods.

Testing capabilities include

- ◇ Certified elongation and break testing of rope
- ◇ Wet and dry abrasion testing
- ◇ Rope analysis for construction and fiber type
- ◇ Extraction testing for lubricant content of rope
- ◇ Termination evaluation and development

Jiuli's rigorous procedures ensure that the strength you need is the strength you get after splices are fabricated.

QUALITY ASSURED

Our company had received ISO 9001:

- ◇ Integrated product development and manufacturing to specification
- ◇ Standardized procedures for inspection, analysis, and testing of in-process product as well as finished goods
- ◇ Individual Certificates of Compliance for all products

As part of our quality assurance program, Jiuli has received product-type-approval certifications from:

CCS China Classification Society
ABS American Bureau of Shipping
NK Nippon Kaiji Kyokai
DNV Det Norske Veritas
LLOYD'S Lloyd's Register
GL Germanischer Lloyd
KR Korean Register
BV Bureau Veritas





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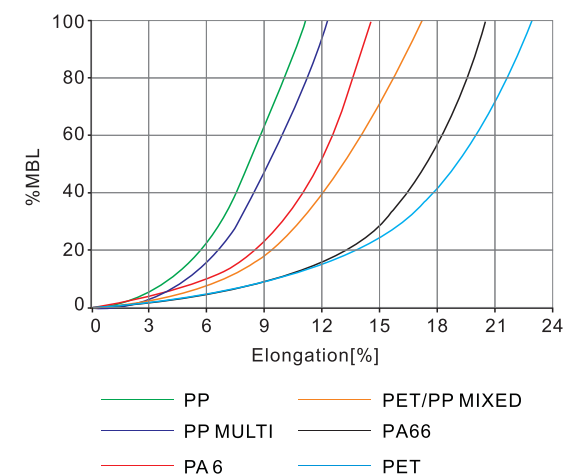
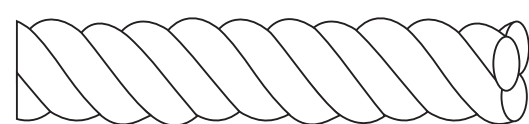
3-STRAND

It has serial products including varieties of nylon, polypropylene filament, polypropylene, polypropylene/polyester mixed, polyester. All products have wide range of application as well as advantages of high strength, Low elongation, wearing resistance and anti-corrosion. They are soft, smooth and easy for operation. Meanwhile products can be used to make special anti-sta-tic rope. All products are mainly used in various fields of ships and vessels, fishing, loading and unloading in harbor, power supply construction, petroleum survey, physical exercise wares, national defense scientific and research etc.

Material	Nylon	Polypropylene Multifilament	Polypropylene	Polyester	PP/Polyester Mixed
Spec. Density	1.14 not floating	0.91 Floating	0.91 Floating	1.27 not floating	0.95 Floating
Melting Point	215℃	165℃	165℃	260℃	165℃ / 260℃
Abrasion Resistanc	Very Good	Medium	Medium	Good	Good
U.V.resistance	Very Good	Medium	Medium	Good	Good
Temperature resistance	120℃ max	70℃ max	70℃ max	120℃ max	80℃ max
Chemical resistance	Very Good	Good	Good	Good	Good

TECHNOLOGY COMPARISON

- ◇ Spliced strength: $\pm 10\%$
- ◇ Weight and length tolerance: $\pm 5\%$



Specification		Nylon		PP Multi		PP Mono		Polyester		PET/PP Mixed	
Dia.	Cir.	ktex	kN	ktex	kN	ktex	kN	ktex	kN	ktex	kN
4	1/2	10	3.7	6.3	2.3	6	2.1	12	2.9	7.0	2.8
6	3/4	22	7.9	18	6.5	17	5.9	27	5.6	17.5	6.8
8	1	40	13.8	32	11.4	30	10.4	48	10.0	31.0	11.9
10	1-1/4	62	21.2	47	16.8	45	15.3	76	15.6	48.5	18.2
12	1-1/2	89	30.1	68	23.9	65	21.7	110	22.3	69.9	25.7
14	1-3/4	121	40.0	95	32.9	90	29.9	148	31.2	95.1	34.7
16	2	158	51.9	121	40.7	115	37.0	195	39.8	124	44.8
18	2-1/4	200	64.3	155	51.9	148	47.2	245	49.8	157	56.1
20	2-1/2	247	79.2	189	62.6	180	56.9	303	62.3	194	68.7
22	2-3/4	299	94.0	231	75.0	220	68.2	367	74.7	235	82.1
24	3	355	112	273	87.7	260	79.7	437	89.6	279	96.3
26	3-1/4	417	129	320	101	305	92.2	512	105	328	113
28	3-1/2	484	149	373	115	355	105	594	120	380	130
30	3-3/4	555	169	425	132	405	120	682	134	437	148
32	4	632	192	483	146	460	132	778	154	497	167
36	4-1/2	800	240	614	182	585	166	982	190	629	210
40	5	987	294	756	221	720	201	1215	235	776	257
44	5-1/2	1190	351	924	266	880	242	1468	275	939	308
48	6	1420	412	1092	308	1040	280	1750	329	1110	364
52	6-1/2	1670	479	1281	357	1220	325	2050	384	1320	424
56	7	1930	550	1491	408	1420	371	2380	439	1520	489

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request

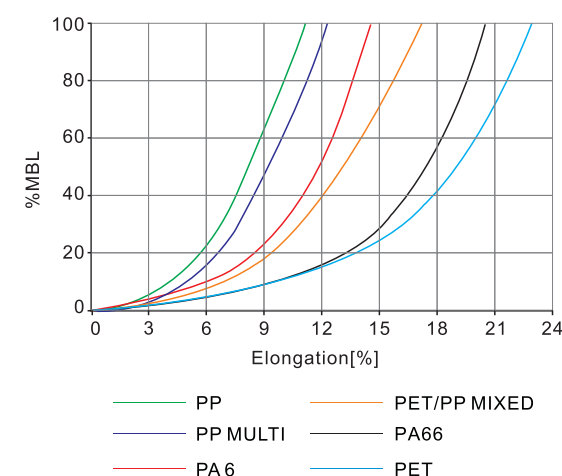
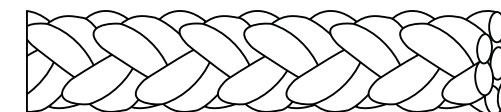
8-STRAND

It has serial products including varieties of nylon, polypropylene filament, polypropylene, polypropylene/polyester mixed, polyester. Imported Japanese technology in the eighties last century and as the first set of BX-1308-ply braider, it started a new epoch of rope and cable industry in the country and its products have advantages of reasonable braided structure, scientific technology, high strength, low elongation, wearing resistance, anti-corrosion and simple operation. It is particularly suitable to make large-scale ropes and cables as well as anti-static ropes therefore they are well received by broad customers. The products are mainly used in fields of shipbuilding, ocean transportation, national defense and military industry, sea petroleum and harbor operation etc.

Material	Nylon	Polypropylene Multifilament	Polypropylene	Polyester	PP/Polyester Mixed
Spec. Density	1.14 not floating	0.91 Floating	0.91 Floating	1.27 not floating	0.95 Floating
Melting Point	215℃	165℃	165℃	260℃	165℃ / 260℃
Abrasion Resistanc	Very Good	Medium	Medium	Good	Good
U.V.resistance	Very Good	Medium	Medium	Good	Good
Temperature resistance	120℃ max	70℃ max	70℃ max	120℃ max	80℃ max
Chemical resistance	Very Good	Good	Good	Good	Good

TECHNOLOGY COMPARISON

- ◇ Spliced strength: $\pm 10\%$
- ◇ Weight and length tolerance: $\pm 5\%$



Specification		Nylon		PP Multi		PP Mono		Polyester		PET/PP Mixed	
Dia.	Cir.	ktex	kN	ktex	kN	ktex	kN	ktex	kN	ktex	kN
20	2-1/2	247	79.2	189	62.6	180	56.9	303	62.3	194	68.7
24	3	355	112	273	87.7	260	79.7	437	89.6	279	96.3
28	3-1/2	484	149	373	115	355	105	594	120	380	130
32	4	632	192	483	146	460	132	778	154	497	167
36	4-1/2	800	240	614	182	585	166	982	190	629	210
40	5	987	294	756	221	720	201	1215	235	776	257
44	5-1/2	1190	351	924	266	880	242	1468	279	939	308
48	6	1420	412	1092	308	1040	280	1750	329	1110	364
52	6-1/2	1670	479	1281	357	1220	325	2050	384	1320	424
56	7	1930	550	1491	408	1420	371	2380	439	1520	489
60	7-1/2	2220	627	1712	467	1630	424	2730	489	1750	558
64	8	2530	709	1943	528	1850	480	3110	568	1990	631
72	9	3200	887	2457	663	2340	603	3930	707	2520	789
80	10	3950	1080	3045	815	2900	741	4850	867	3110	963
88	11	4780	1300	3686	978	3510	890	5870	1040	3750	1160
96	12	5690	1530	4379	1155	4170	1050	6990	1230	4470	1370
104	13	6670	1780	5145	1325	4900	1204	8200	1420	5260	1590
112	14	7740	2050	5985	1529	5700	1390	9500	1620	6050	1840
120	15	8880	2340	6825	1756	6500	1596	10900	1865	6980	2100
128	16	10100	2650	7770	1982	7400	1802	12400	2110	7950	2370
136	17	11400	2980	8820	2231	8400	2029	14000	2400	8950	2660
144	18	12800	3320	9870	2490	9400	2264	15700	2650	10100	2970
160	20	15800	4060	12100	3051	11521	2774	19400	3270	12500	3630

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request



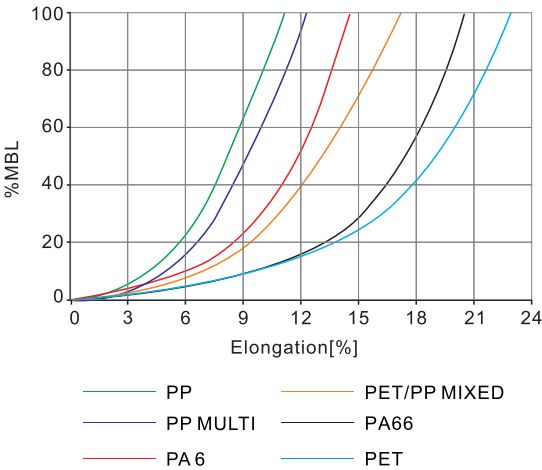
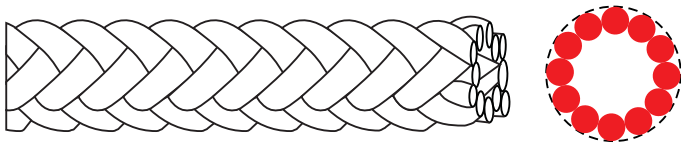
12-STRAND

It has serial products including varieties of nylon, polypropylene filament, polypropylene, polypropylene/polyester mixed, polyester. Imported German technology, the products have advantages of reasonable braided structure, scientific technology, high strength, low elongation, wearing resistance, anti-corrosion and simple operation. the products are mainly used in fields of shipbuilding, ocean transportation, national defense and military industry, sea petroleum and harbor operation etc.

Material	Nylon	Polypropylene Multifilament	Polypropylene	Polyester	PP/Polyester Mixed
Spec. Density	1.14 not floating	0.91 Floating	0.91 Floating	1.27 not floating	0.95 Floating
Melting Point	215℃	165℃	165℃	260℃	165℃ / 260℃
Abrasion Resistanc	Very Good	Medium	Medium	Good	Good
U.V.resistance	Very Good	Medium	Medium	Good	Good
Temperature resistance	120℃ max	70℃ max	70℃ max	120℃ max	80℃ max
Chemical resistance	Very Good	Good	Good	Good	Good

TECHNOLOGY COMPARISON

- ◇ Spliced strength: ± 10%
- ◇ Weight and length tolerance: ± 5%



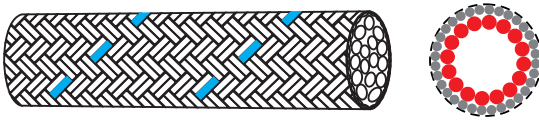
Specification		Nylon		PP Multi		PP Mono		Polyester		PET/PP Mixed	
Dia.	Cir.	ktex	kN	ktex	kN	ktex	kN	ktex	kN	ktex	kN
20	2-1/2	247	81	189	64	180	58	303	64	194	70
24	3	355	114	273	89	260	81	437	91	279	98
28	3-1/2	484	152	373	118	355	107	594	122	380	133
32	4	632	196	483	148	460	135	778	157	497	170
36	4-1/2	800	245	614	186	585	169	982	194	629	214
40	5	987	300	756	226	720	205	1215	240	776	262
44	5-1/2	1190	358	924	271	880	246	1468	285	939	314
48	6	1420	420	1092	315	1040	286	1750	336	1110	371
52	6-1/2	1670	489	1281	364	1220	331	2050	392	1320	432
56	7	1930	561	1491	416	1420	378	2380	448	1520	499
60	7-1/2	2220	640	1712	476	1630	433	2730	499	1750	569
64	8	2530	723	1943	539	1850	490	3110	579	1990	644
72	9	3200	905	2457	676	2340	615	3930	721	2520	805
80	10	3950	1102	3045	832	2900	756	4850	884	3110	982
88	11	4780	1326	3686	998	3510	907	5870	1061	3750	1183
96	12	5690	1561	4379	1178	4170	1071	6990	1255	4470	1397
104	13	6670	1816	5145	1351	4900	1228	8200	1448	5260	1622
112	14	7740	2091	5985	1560	5700	1418	9500	1652	6050	1877
120	15	8880	2387	6825	1791	6500	1628	10900	1902	6980	2142
128	16	10100	2703	7770	2022	7400	1838	12400	2152	7950	2417
136	17	11400	3040	8820	2276	8400	2069	14000	2448	8950	2713
144	18	12800	3386	9870	2540	9400	2309	15700	2703	10100	3029
160	20	15800	4141	12097	3112	11521	2829	19400	3335	12500	3703

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request

DOUBLE BRAIDED ROPE

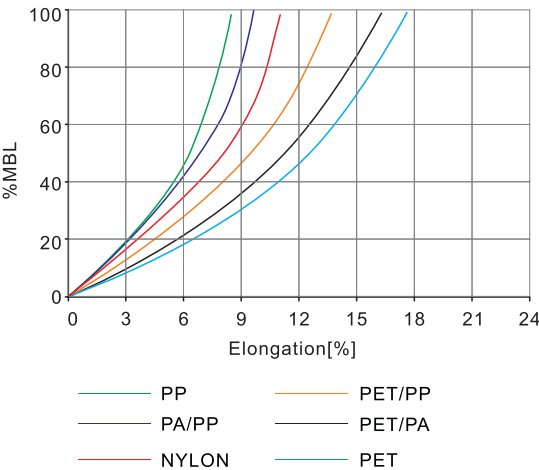
It is the only double-layer multi-ply rope in the country made by imported advanced equipment and technology from Germany. With full-automatically computerized operation program, unique braided structure and excellent technology, It can rise up synthetic performance of rope and cable over 15% and has advantages of low elongation, wearing resistance, pliable toughness and simple operation. Therefore it is well received by customers both national and abroad, and is an upgraded one and the best substitution of current 3-ply, 8-ply rope, cable braided. It was honorably won the certificates of State-Level New Product and Jiangsu Province High-Tech Product as well as the patent certificate from the state intellectual property bureau(No.of certificate 200320120161.1).The products aremainly used in fields of naval vessels, ships, ocean transportation, sea petroleum, mining operation, fishing

Material	Nylon	Polypropylene Multifilament	Polyester Multifilament	Polyester/ Polypropylene	Polyester/ Polyamide	Polyamide/ Polypropylene
Spec. Density	1.14 not floating	0.91 Floating	1.27 not floating	0.99 Floating	1.19 not floating	0.98 Floating
Melting Point	215℃	165℃	260℃	260℃ /165℃	260℃ /165℃	215℃ / 165℃
Abrasion Resistanc	Very Good	Medium	Good	Good	Good	Good
U.V.resistance	Very Good	Medium	Good	Good	Good	Good
Temperature resistance	120℃ max	70℃ max	120℃ max	80℃ max	120℃ max	80℃ max
Chemical resistance	Very Good	Good	Good	Good	Good	Good



TECHNOLOGY COMPARISON

- ◇ Spliced strength: ± 10%
- ◇ Weight and length tolerance: ± 5%



Specification		Nylon		Polyester		PP Multi		PET/PA		PET/PP		PA/PP	
Dia.	Cir.	ktex	kN	ktex	kN	ktex	kN	ktex	kN	ktex	kN	ktex	kN
4	1/2	10.3	3.7	12.2	3.2	8.4	2.4	12.0	4.0	9.0	2.6	8.5	2.7
6	3/4	23	8.3	27.4	7.2	18.8	5.4	27.0	9.0	20.2	5.8	19	6.0
8	1	41	15	49	13	33	9.6	48	16	36	10	34	11
10	1-1/4	64	23	76	20	52	15	75	25	56	16	53	17
12	1-1/2	92	33	109	29	75	22	108	35	81	23	76	25
14	1-3/4	126	45	149	39	102	29	147	47	110	31	104	33
16	2	164	59	195	51	133	38	192	62	143	41	136	44
18	2-1/4	207	75	246	65	168	49	243	78	181	52	172	55
20	2-1/2	255	92	304	80	208	60	300	96	224	64	212	68
22	2-3/4	309	111	368	97	252	73	363	116	271	77	256	82
24	3	368	127	440	114	299	86	430	138	325	93	304	98
28	3-1/2	501	172	597	157	404	118	585	182	430	124	415	130
32	4	654	225	779	205	528	154	760	236	576	162	542	170
36	4-1/2	828	285	998	262	668	195	970	314	732	216	679	227
40	5	1018	352	1220	324	825	240	1180	385	902	266	838	280
44	5-1/2	1236	420	1470	378	1006	294	1440	462	1093	324	1030	341
48	6	1473	500	1760	450	1190	354	1710	546	1300	380	1230	400
52	6-1/2	1730	600	2050	535	1390	411	2010	635	1525	443	1440	466
56	7	2009	690	2380	621	1610	474	2330	731	1773	513	1670	540
60	7-1/2	2297	780	2740	712	1850	539	2670	834	2035	584	1910	615
64	8	2616	900	3120	810	2090	613	3050	942	2310	665	2170	700
72	9	3306	1090	3950	980	2640	767	3860	1180	2924	846	2730	890
80	10	4089	1344	4870	1240	3290	934	4860	1442	3610	1036	3350	1090
88	11	4954	1626	5910	1500	3950	1117	5780	1729	4371	1254	4060	1320
96	12	5892	1950	7020	1750	4710	1304	6870	2033	5207	1501	4880	1580
104	13	6911	2320	8250	2090	5480	1513	8070	2402	6112	1758	5800	1850
112	14	8024	2670	9560	2400	6390	1694	9360	2730	7082	2043	6710	2150
120	15	9198	3050	10970	2750	7350	2010	10740	3100	8127	2328	7690	2450

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request

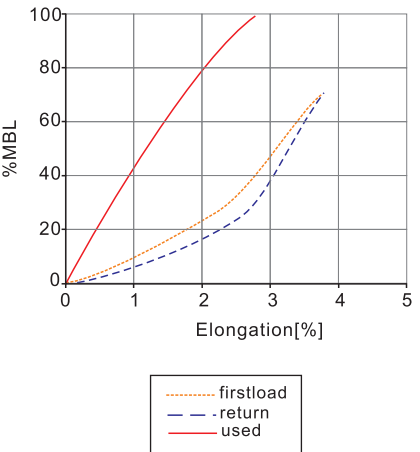
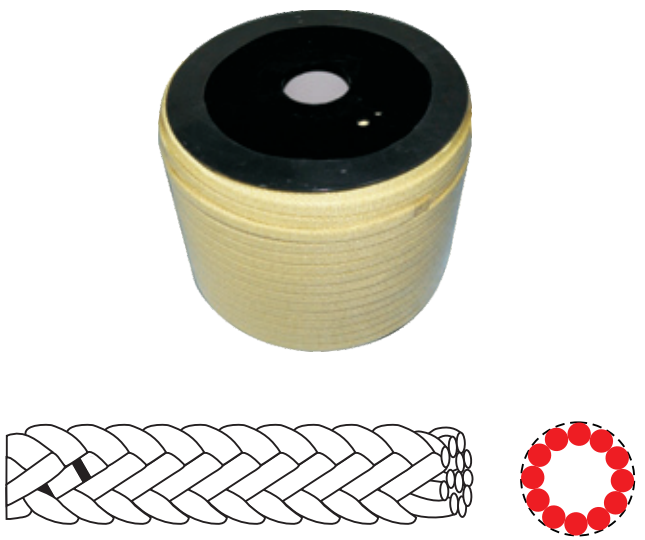


ARAMID FIBER ROPE

It has serial rope and cable products of Aramid fiber in 3-ply, 8-ply, 12-ply, 16-poly and double braided. The Aramid is a kind of man made fiber with high performance. It is polymerized, spun and drawn by special technology thus to make it's solid chain rings and chains to be compounded in a whole therefore it has very stable high strength and heat resisting feature.

MAIN PERFORMANCE

- ◇ Material: high performance Aramid fiber yarns
- ◇ Construction: 3, 8, 12, 16—Strand, Double braided
- ◇ Applications: Mooring line, Tug line, Super sized commercial vessel, Wire rope replacement
- ◇ High tensile strength
- ◇ Specific gravity:1.44
- ◇ Elongation:5% at break
- ◇ Melting point: 450℃
- ◇ Good resistance to UV and chemicals
- ◇ Superior abrasion resistance
- ◇ No difference in tensile strength when wet or dry
- ◇ In -40℃—350℃ scopes normal operation



3-strand			8,12,16-strand			Double braided		
mm	ktex	KN	mm	ktex	KN	mm	ktex	KN
6	30	19	32	842	517	24	462	308
8	52	34	36	1051	649	28	632	429
10	81	55	40	1304	803	32	831	539
12	120	75	44	1577	979	36	1051	678
16	212	130	48	1882	1144	40	1304	825
18	265	172	56	2563	1562	44	1577	990
20	328	205	64	3351	2046	48	1882	1177
24	479	306	72	4243	2640	56	2563	1650
28	653	409	80	5233	3190	64	3351	2090
32	875	524	88	6336	3795	72	4243	2750
36	1071	656	96	7548	4422	80	5233	3245
40	1295	825	110	9353	5555	88	6336	3960

* Other sizes available upon request

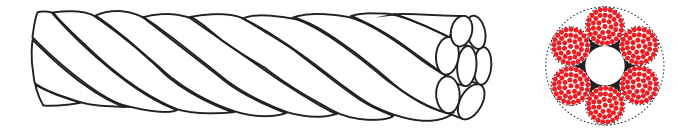
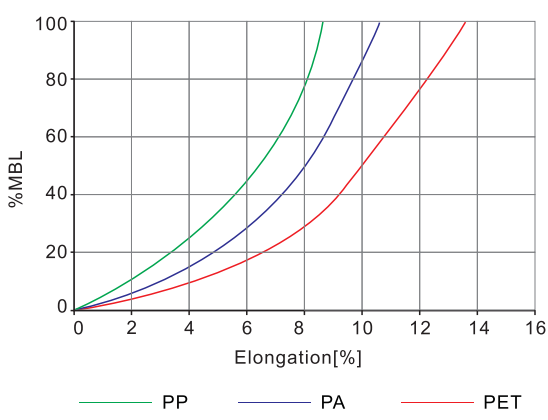
NYLON SINGLE FILAMENT 6-PLY COMPOSITE ROPE

It has serial products including polyamide staple yarn/nylon single yarn, polypropylene filament/nylon single yarn, polyester/nylon single yarn etc. As a new high-tech product researched and developed by the company, It has won the patent certificate from the state intellectual property bureau(No.of Certificate 200320120796.1). Processed by special technology, it has superior wearing resistance, which is double than that of normal chemical-fiber ropes and cables therefore it has been widely used in mooring and towing of ships and vessels. The products are mainly used in fields of ocean transportation, heavy industry, shipbuilding, petroleum survey and harbor operation etc.

Material	Polyamide Multifilament / Nylon monofilament	Polypropylene Multifilament / Nylon monofilament	Polyester Multifilament / Nylon monofilament
Spec. Density	1.14 not floating	0.98 floating	1.22 not floating
Melting Point	215℃	165℃	260℃
Abrasion Resistanc	Very Good	Very Good	Very Good
U.V.resistance	Very Good	Medium	Good
Temperature resistance	120℃ max	70℃ max	120℃ max
Chemical resistance	Very Good	Very Good	Good

TECHNOLOGY COMPARISON

- ◇ Spliced strength: ± 10%
- ◇ Weight and length tolerance: ± 5%



Specification		Polyamide Multifilament / Nylon monofilament		PP Multifilament / Nylon monofilament		Polyester Multifilament / Nylon monofilament	
Dia.	Cir.	ktex	kN	ktex	kN	ktex	kN
28	3-1/2	495	156	350	131	594	138
32	4	640	197	485	167	778	177
36	4-1/4	815	246	615	209	982	219
40	5	1010	296	755	252	1215	270
44	5-1/2	1260	354	925	303	1475	321
48	6	1450	415	1090	353	1750	378
52	6-1/2	1690	482	1280	408	2050	442
56	7	1970	553	1490	467	2380	505
60	7-1/2	2250	631	1710	534	2730	562
64	8	2570	712	1940	603	3110	653
72	9	3250	889	2460	758	3930	813
80	10	4020	1087	3050	932	4850	997
88	11	4870	1296	3690	1118	5870	1196
96	12	5790	1632	4380	1320	6990	1415

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
 * Other sizes available upon request



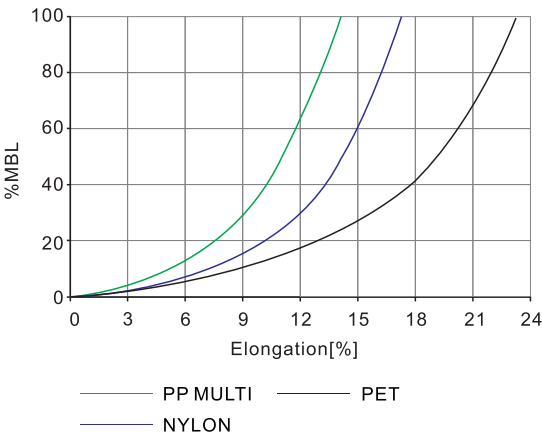
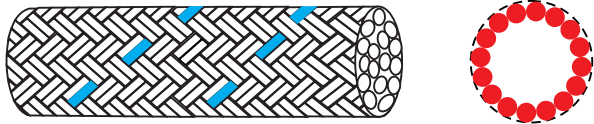
16-STRAND

It has serial products including varieties of nylon, polypropylene filament, polypropylene, polypropylene/polyester mixed, polyester. Imported SE1/16-600 16 ply braided to fill up the gap of rope-making industry in our country, its special braided structure and technology craft rise up the utilization rate of strength of fiber thus to make the rope have advantages of low elongation, wearing resistance, smooth and pliable tough provides ideal product for special requirement for customers. The products are mainly used in fields of shipbuilding, ocean transportation, petroleum drilling, national defense , military industry as well as loading and unloading in harbors.

Material	Nylon	Polypropylene Multifilament	Polyester
Spec. Density	1.14 not floating	0.91 Floating	1.27 not floating
Melting Point	215℃	165℃	260℃
Abrasion Resistanc	Very Good	Medium	Good
U.V.resistance	Very Good	Medium	Good
Temperature resistance	120℃ max	70℃ max	120℃ max
Chemical resistance	Very Good	Good	Good

TECHNOLOGY COMPARISON

- ◇ Spliced strength: ± 10%
- ◇ Weight and length tolerance: ± 5%



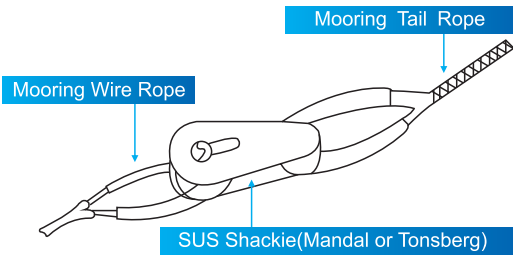
Specification		Nylon		PP Multi		Polyester	
Dia.	Cir.	ktex	kN	ktex	kN	ktex	kN
20	2-1/2	247	87	189	69	303	76
24	3	355	123	273	96	473	108
28	3-1/2	484	164	373	127	590	143
32	4	632	211	483	160	795	184
36	4-1/2	800	264	614	201	1000	231
40	5	987	323	756	243	1227	283
44	5-1/2	1190	386	924	292	1477	339
48	6	1420	453	1092	339	1750	400
52	6-1/2	1670	527	1281	393	2020	466
56	7	1930	605	1491	449	2386	538
60	7-1/2	2220	690	1712	513	2730	614
64	8	2530	780	1943	581	3090	694
72	9	3200	976	2457	729	3910	868
80	10	3950	1188	3045	897	4820	1059

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request

MOORING TAILS.

To provide additional elasticity, the wire and high modulus mooring lines of some large ships are fitted at the shore and with a tail or pennant. Generally more elastic is required, because the elasticity can reduce the load induced by wire mooring under dynamic loading. Tails permit this ship to respond more favorably when subjected to various wind, wave and conditions.

Material	Construction	Type	Application Factor
Nylon Tail	8-strand 12-strand Double Braided	Eye to Eye / Grommet	140% against MBL of Wire Rope
Polyester & PP Mixed Tail	8-strand 12-strand Double Braided	Eye to Eye / Grommet	130% against MBL of Wire Rope



Cir.	Dia. (mm)	Length. (M)	Nylon (8-strand/12-strand)				PP&Polyester Mixed (8-strand/12-strand)				Nylon (Double Braided)			
			Wt (kg)	E&E (Ton)	Wt (kg)	Gro. (Ton)	Wt (kg)	E&E (Ton)	Wt (kg)	Gro. (Ton)	Wt (kg)	E&E (Ton)	Wt (kg)	Gro. (Ton)
6	48	11	25	40	50	72	22	45	44	81	26	50	52	90
7	56	11	35	55	70	99	32	60	64	108	36	70	72	126
8"	64	11	45	70	90	126	40	75	80	135	46	90	92	162
9"	72	11	60	90	120	162	54	95	108	171	62	110	124	198
10"	80	11	75	110	150	198	68	115	136	207	78	135	156	243
11"	88	11	90	130	180	234	80	135	160	243	95	165	190	297
12"	96	11	105	150	210	270	92	160	184	288	110	195	220	351
13"	104	11	120	175	240	315	105	190	210	342	126	230	252	414
14"	112	11	140	200	280	360	125	220	250	396	148	260	296	468
15"	120	11	160	230	320	414	145	250	290	450	170	300	340	540

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request



MANDAL FAIRLEAD SHACKLE

Shackle 90 M		Shackle 120 M	
Tail 56-64 mm		Tail 68-80 mm	
A = 255 mm		A = 300 mm	
B = 97 mm		B = 121 mm	
C = 120 mm		C = 130 mm	
D = 65 mm		D = 82 mm	
E = 67 mm		E = 90 mm	
F = 100 mm		F = 128 mm	
R = 34 mm		R = 45 mm	
Breaking Load: 90 Tonnes		Breaking Load: 120 Tonnes	
Proof Load: 55 Tonnes		Proof Load: 70 Tonnes	
Weight: 7,8 Kg		Weight: 13,3 Kg	

TØNSBERG MOORING LINK

Link 120 T		Link 180 T	
Tail 72-80 mm		Tail 88-112 mm	
A = 324 mm		A = 350 mm	
B = 142 mm		B = 184 mm	
C = 150 mm		C = 160 mm	
D = 75 mm		D = 85 mm	
E = 90 mm		E = 120 mm	
R = 28 mm		R = 30 mm	
Breaking Load: 120 Tonnes		Breaking Load: 180 Tonnes	
Proof Load: 70 Tonnes		Proof Load: 95 Tonnes	
Weight: 16,9 Kg		Weight: 25 Kg	



SUPERLINE®

Plaited ropes of the SUPERLINE® range are mainly used in marine and offshore fields, because of easily handling and non-rotating behavior. They are produced by a plaiting machine containing eight or twelve reels, each containing one strand, the rope is braided by eight or twelve interlacing strands.

APPLICATIONS

VESSEL MOORING

- ◇ First line ashore/emergency towing system
- ◇ General working line
- ◇ Primary mooring line
- ◇ Secondary mooring line

TUG

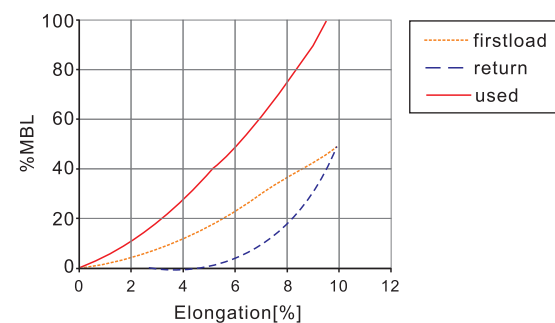
- ◇ Working line
- ◇ Floating emergency barge trailer line

FEATURES AND BENEFITS:

- ◇ More durable than polypropylene
- ◇ Excellent grip
- ◇ U V resistant
- ◇ Floats
- ◇ Easy to splice

SPECIFICATION:

- ◇ Material: High tenacity JL-yarn.
- ◇ Construction: 8 or 12-strand plaited
- ◇ Application: Marine, Fishing, Offshore
- ◇ Colour of Rope: White
- ◇ Specific Gravity: Density 0.92 floating
- ◇ Melting Point: 165°C
- ◇ Abrasion Resistance: Medium
- ◇ U.V.resistance: Medium
- ◇ Temperature resistance: 70°C max continuous
- ◇ Chemical resistance: Good, solvents and strong oxidizer may have a mild effect
- ◇ Dry & wet conditions: Wet strength equals dry strength
- ◇ Range of use: Fishing, inland shipping, merchant, navy, industry, mooring.
- ◇ Spliced strength: ±10%
- ◇ Weight and length tolerance: ±5%



NO.	Dia.		Cir inch	Wt		Min. B/S	
	mm	inch		KGS/100M	LBS/100FT	KG	KN
JL.201.201	24	15/16	3	27	18	9600	94
JL.201.202	28	1-1/8	3-1/2	37	25	12800	126
JL.201.203	32	1-1/4	4	49	33	16240	159
JL.201.204	36	1-7/16	4-1/2	61	41	20240	199
JL.201.205	40	1-9/16	5	75	51	24960	245
JL.201.206	44	1-3/4	5-1/2	93	62	30240	297
JL.201.207	45	1-25/32	5-5/8	97	65	31520	309
JL.201.208	48	1-7/8	6	109	73	35040	344
JL.201.209	50	2	6-1/4	118	80	38080	374
JL.201.210	52	2-1/16	6-1/2	127	86	40640	399
JL.201.211	55	2-5/32	6-7/8	143	96	45600	447
JL.201.212	56	2-1/4	7	148	100	46800	459
JL.201.213	60	2-3/8	7-1/2	170	114	53280	523
JL.201.214	64	2-1/2	8	193	130	59840	587
JL.201.215	65	2-9/16	8-1/16	200	134	61600	604
JL.201.216	68	2-11/16	8-1/2	219	147	67040	658
JL.201.217	70	2-3/4	8-11/16	231	155	70960	696
JL.201.218	72	2-7/8	9	245	165	75200	738
JL.201.219	75	3	9-1/4	266	178	81440	799
JL.201.220	80	3-5/32	10	303	204	92800	910
JL.201.221	85	3-3/8	10-1/2	342	230	104800	1028
JL.201.222	88	3-7/16	11	367	246	110400	1083
JL.201.223	90	3-9/16	11-1/8	383	258	115200	1130
JL.201.224	95	3-3/4	11-3/4	427	287	128000	1256
JL.201.225	96	3-13/16	12	436	293	130400	1279
JL.201.226	100	3-15/16	12-3/8	473	318	140800	1381
JL.201.227	104	4-1/8	13	509	342	149600	1468
JL.201.228	112	4-7/16	14	592	398	172000	1687
JL.201.229	120	4-3/4	15	682	458	196800	1930

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request

JL-FLEX®

JL-FLEX® rope retains superior breaking strength originated from technically reinforced composition of high tenacity polypropylene and polyester. This ideal composition and construction create extremely low elongation. It offers stability and safety when the rope is overloaded and makes the rope sustain its properties even after a long period using in sea water.

APPLICATIONS

VESSEL MOORING

- ◇ General working line
- ◇ Secondary mooring line

TUG

- ◇ Working Line
- ◇ Mainline
- ◇ Winch Line

FEATURES AND BENEFITS

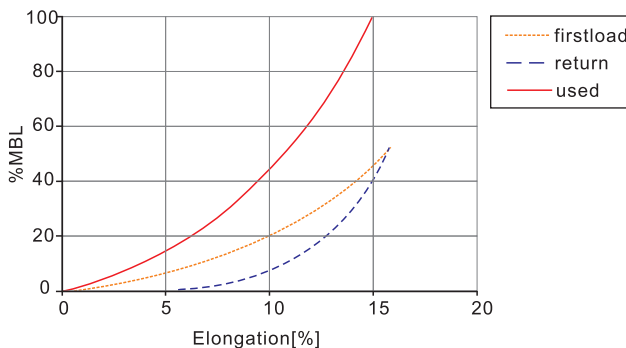
- ◇ U.V. Resistance
- ◇ Chemical Resistance
- ◇ High strength
- ◇ Low stretch
- ◇ Durable
- ◇ Flex-fatigue Resistant

SPECIFICATIONS

- ◇ Material: High tenacity PP and polyester fiber
- ◇ Conforming to OCIMF guidelines
- ◇ Construction: 8, 12, 24, 32, 48-strand plaited
- ◇ Treatment: Marine, Fishing, Offshore
- ◇ Colour of Rope: White with red marker yarns
- ◇ Specific Gravity: Density 0.98 floating
- ◇ Melting Point: 165°C / 260°C
- ◇ Abrasion Resistance: Very good
- ◇ U.V.resistance: Good
- ◇ Temperature resistance: 70°C max continuous
- ◇ Chemical resistance: Good, solvents and strong oxidizer may have a mild effect
- ◇ Dry & wet conditions: Wet strength equals dry strength
- ◇ Range of use: Fishing, inland shipping, merchant, navy, industry, mooring
- ◇ Spliced strength: ±10%
- ◇ Weight and length tolerance: ± 5%

NO.	Dia.		Cir inch	Wt		Min. B/S	
	mm	inch		KGS/100M	LBS/100FT	KG	KN
JL.201.301	24	15/16	3	33	22	13475	132
JL.201.302	28	1-1/8	3-1/2	45	30	17895	176
JL.201.303	32	1-1/4	4	58	39	22961	226
JL.201.304	36	1-7/16	4-1/2	73	49	28567	281
JL.201.305	40	1-9/16	5	90	60	34496	339
JL.201.306	44	1-3/4	5-1/2	107	72	40964	402
JL.201.307	45	1-25/32	5-5/8	112	75	43120	424
JL.201.308	48	1-7/8	6	129	87	47432	465
JL.201.309	52	2-1/16	6-1/2	147	99	54978	539
JL.201.310	56	2-1/4	7	175	118	63602	624
JL.201.311	60	2-3/8	7-1/2	196	132	72226	708
JL.201.312	64	2-1/2	8	221	149	80850	793
JL.201.313	68	2-11/16	8-1/2	249	167	90552	889
JL.201.314	72	2-7/8	9	278	187	101332	994
JL.201.315	80	3-5/32	10	342	230	122892	1206
JL.201.316	88	3-7/16	11	412	277	148764	1460
JL.201.317	96	3-13/16	12	490	329	175714	1724
JL.201.318	112	4-7/16	14	661	444	238238	2338
JL.201.319	120	4-3/4	15	759	510	272734	2675

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request





JIULI ROPE CO.,LTD



NINE STRENGTH ATLAS®

NINE STRENGTH ATLAS® lines are six-strand ropes. It is combined by nylon Mono- and multi-filaments. The mono-filament gives the ropes excellent dimensional stability and abrasion resistance. The splicing technique of Atlas is very similar to wire rope. The stretch of the nylon in combination and the dimensional stability makes these lines ideal for mooring, especially for a constant-tension winch.

FEATURES AND BENEFITS:

- ◇ U.V.resistance
- ◇ Chemical resistance
- ◇ High strength
- ◇ Low Elongation
- ◇ Durable

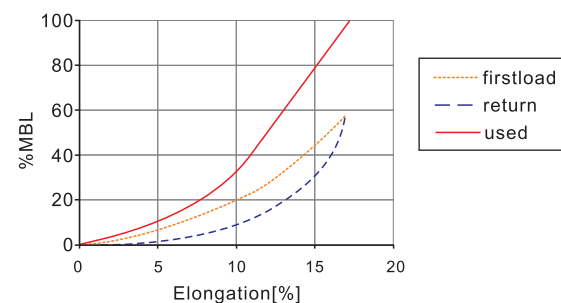
APPLICATIONS

VESSEL MOORING

- ◇ General working line
- ◇ Secondary mooring line

SPECIFICATION:

- ◇ Material: 100% nylon 6 (mono-and multi-filament)
- ◇ Construction: 6-strand cross lay
- ◇ Colour of Rope: White with a red marker yarn.
- ◇ Specific Gravity: Density 1,14 non floating
- ◇ Melting Point: 215°C
- ◇ Abrasion Resistance: Excellent
- ◇ U.V.resistance: Excellent
- ◇ Temperature resistance: 80°C max continuous
- ◇ Chemical resistance: Reasonable, acids, oxidizer & solvents will affect the material
- ◇ Dry & wet conditions: Can be stored in wet
- ◇ Range of use: As winch lines, mooring lines, anchor lines and heavy duty Applications
- ◇ Spliced strength: ±10%
- ◇ Weight and length tolerance: ±5%



NO.	Dia.		Cir	Wt		B/S	
	mm	inch	inch	KGS/100M	LBS/100FT	Ton	Kn
JL.201.401	36	1-7/16	4-1/2	83,2	56	26,0	255
JL.201.402	40	1-19/32	5	100	67	31,0	304
JL.201.403	44	1-3/4	5-1/2	125	84	42,0	412
JL.201.404	48	1-7/8	6	148	99	50,0	491
JL.201.405	52	2-1/16	6-1/2	160	108	54,0	530
JL.201.406	56	2-1/4	7	200	134	66,5	652
JL.201.407	60	2-3/8	7-1/2	217	146	70,0	687
JL.201.408	62	2-7/16	7-3/4	235	158	79,0	775
JL.201.409	64	2-1/2	8	245	165	81,0	795
JL.201.410	68	2-11/16	8-1/2	280	188	94,0	922
JL.201.411	70	2-25/32	8-3/4	310	208	103	1010
JL.201.412	72	2-7/8	9	335	225	108	1059
JL.201.413	78	3-1/16	9-3/4	364	245	120	1177
JL.201.414	80	3-5/32	10	384	258	127	1242
JL.201.415	84	3-5/16	10-1/2	425	286	140	1373
JL.201.416	88	3-15/32	11	472	317	156	1533
JL.201.417	90	3-9/16	11-1/4	505	339	165	1619
JL.201.418	96	3-13/16	12	585	393	190	1864

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request

KARAT MAXI®

KARAT MAXI® rope retains superior breaking strength originated from technically reinforced composition of high tenacity JL-yarn and polyester. This ideal composition and construction creates extremely low elongation which offers stability and safety when the rope is overloaded and makes the rope sustain its properties even after a long period using in sea water. This rope has excellent resistance to abrasion and will become more flexible and easier to handle with extensive use.

FEATURES AND BENEFITS

- ◇ U.V.resistance
- ◇ Chemical resistance
- ◇ High strength
- ◇ Low elongation
- ◇ Non-rotational
- ◇ Durable

SPECIFICATION:

- ◇ Material: High tenacity JL-yarn High tenacity polyester
- ◇ Construction: 8 or 12-strand plaited
- ◇ Application: Marine, Fishing, Offshore
- ◇ Colour of Rope: orange with green marker yarns
- ◇ Specific Gravity: Density 0.96 floating
- ◇ Melting Point: 165°C / 260°C
- ◇ Abrasion Resistance: Very good
- ◇ U.V.resistance: Good
- ◇ Temperature resistance: 70°C max continuous
- ◇ Chemical resistance: Good, solvents and strong oxidizer may have a mild effect
- ◇ Dry & wet conditions: Wet strength equals dry strength
- ◇ Range of use: Fishing, inland shipping, navy, industry, mooring
- ◇ Spliced strength: ±10%
- ◇ Weight and length tolerance: ±5%

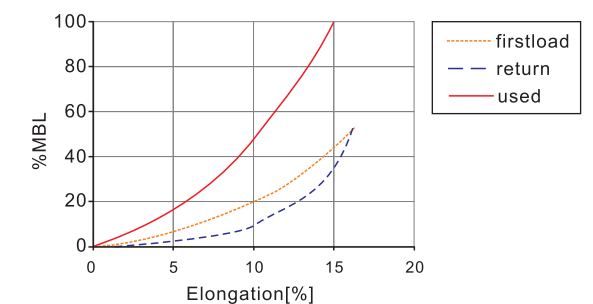
APPLICATIONS

VESSEL MOORING

- ◇ General working line
- ◇ Primary mooring line
- ◇ Secondary mooring line

TUG:

- ◇ Working line
- ◇ Mainline



NO.	Dia.		Cir	Wt		B/S	
	mm	inch	inch	KGS/100M	LBS/100FT	Kg	Kn
JL.201.701	24	15/16	3	30.2	20.3	12750	125
JL.201.702	28	1-1/8	3-1/2	41.4	27.8	16932	166
JL.201.703	32	1-1/4	4	53.6	36.0	21726	213
JL.201.704	36	1-7/16	4-1/2	66.8	44.9	27030	265
JL.201.705	40	1-9/16	5	82.4	55.3	32640	320
JL.201.706	44	1-3/4	5-1/2	98.1	65.9	38760	380
JL.201.707	48	1-7/8	6	119	80	44880	440
JL.201.708	52	2-1/16	6-1/2	135	91	52020	510
JL.201.709	56	2-1/4	7	161	108	60180	590
JL.201.710	60	2-3/8	7-1/2	180	121	68340	670
JL.201.711	64	2-1/2	8	203	137	76500	751
JL.201.712	68	2-11/16	8-1/2	229	154	85680	840
JL.201.713	72	2-7/8	9	256	172	95880	941
JL.201.714	80	3-5/32	10	314	211	116280	1141
JL.201.715	88	3-7/16	11	378	254	140760	1381
JL.201.716	96	3-13/16	12	450	302	166260	1631
JL.201.717	104	4-3/32	13	525	357	194688	1908
JL.201.718	112	4-7/16	14	607	408	225420	2211
JL.201.719	120	4-3/4	15	697	468	258060	2532

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request



JIULI ROPE CO.,LTD



JIULI ROPE CO.,LTD

KARAT WINCHLINE®

KARAT WINCHLINE® rope is a twisted synthetic fiber rope made of 100% Polyamide monofilament fiber combined and 100% polyamide high tenacity multifilament. It has a greater tendency to elongate than steel ropes and therefore is less susceptible to breakage from shock tension strain. Also, compared to steel wire ropes, it requires much less maintenance and is considerably lighter and easier to handle, facilitating rapid mooring. This rope has excellent resistance to abrasion and will become more flexible and easier to handle with extensive use.

FEATURES AND BENEFITS

- ◇ U.V.resistance
- ◇ Chemical resistance
- ◇ High strength
- ◇ Low stretch
- ◇ Durable

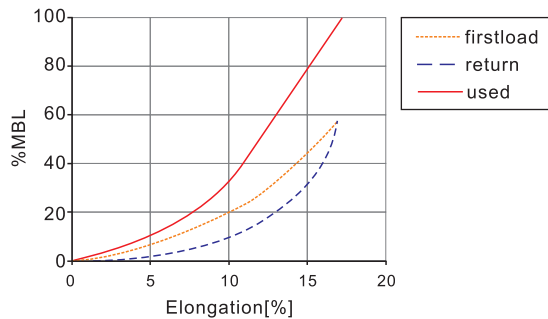
APPLICATIONS

VESSEL MOORING

- ◇ General working line
- ◇ Secondary mooring line

SPECIFICATION:

- ◇ Material: 100% high tenacity nylon 66(mono-and multi-filament)
- ◇ Construction: 6-strand twist
- ◇ Treatment: Ocean
- ◇ Colour of Rope: White with marker yarn.
- ◇ Specific Gravity: Density 1,14 non floating
- ◇ Melting Point: 215°C
- ◇ Abrasion Resistance: Excellent
- ◇ U.V.resistance: Excellent
- ◇ Temperature resistance: 80°C max
- ◇ Chemical resistance: Reasonable, acids, oxidizer & solvents will affect the material
- ◇ Dry & wet conditions: Can be stowed wet
- ◇ Range of use: As winch lines, mooring lines, anchor lines and heavy duty Applications
- ◇ Spliced strength: ±10%
- ◇ Weight and length tolerance: ±5%



NO.	Dia.		Cir	Wt		B/S	
	mm	inch	inch	KGS/100M	LBS/100FT	Ton	Kn
JL.201.501	18	23/32	2-1/4	22	15	8.60	84.4
JL.201.502	20	13/16	2-1/2	27.5	18	10.9	107
JL.201.503	22	7/8	2-3/4	34.5	23	13.6	133
JL.201.504	24	15/16	3	40	27	15.7	154
JL.201.505	26	1-1/32	3-1/4	46.5	31	18.2	179
JL.201.506	28	1-1/8	3-1/2	51.5	35	20.1	197
JL.201.507	32	1-1/4	4	65	44	25.3	248
JL.201.508	36	1-7/16	4-1/2	83.2	56	32.0	314
JL.201.509	40	1-19/32	5	100	67	38.4	377
JL.201.510	44	1-3/4	5-1/2	125	84	50.0	491
JL.201.511	48	1-7/8	6	148	99	59.0	579
JL.201.512	52	2-1/16	6-1/2	160	108	63.7	625
JL.201.513	56	2-1/4	7	200	134	78.5	770
JL.201.514	60	2-3/8	7-1/2	217	146	85.5	839
JL.201.515	62	2-7/16	7-3/4	235	158	92.8	910
JL.201.516	64	2-1/2	8	245	165	97.0	952
JL.201.517	68	2-11/16	8-1/2	280	188	110	1079
JL.201.518	70	2-25/32	8-3/4	310	208	122	1197
JL.201.519	72	2-7/8	9	335	225	127	1246
JL.201.520	78	3-1/16	9-3/4	364	245	136	1334
JL.201.521	80	3-5/32	10	384	258	141	1380
JL.201.522	84	3-5/16	10-1/2	425	286	158	1550
JL.201.523	88	3-15/32	11	472	317	170	1670
JL.201.524	90	3-9/16	11-1/4	505	339	186	1825
JL.201.525	96	3-13/16	12	585	393	215	2109

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request

TIPTO EIGHT®

TIPTO EIGHT® rope retains superior breaking strength originated from technically reinforced composition of high tenacity JL-yarn and polyester. This ideal composition and construction creates extremely low elongation which offers stability and safety when the rope is overloaded and makes the rope sustaining its properties even after a long period using in sea water. This rope has excellent resistance to abrasion and will become more flexible and easier to handle with extensive use. They are produced by a plaiting machine containing eight reels, each containing one strand, groups of two reels interweave as a pair around the other pairs of reels to produce an eight strands rope of a similar square cross section.

APPLICATIONS

VESSEL MOORING

- ◇ General working line
- ◇ Primary mooring line
- ◇ Secondary mooring line

TUG:

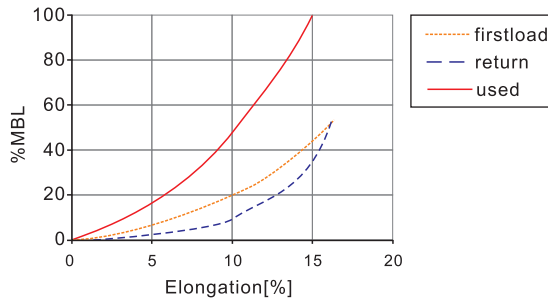
- ◇ Working line
- ◇ Mainline

SPECIFICATION:

- ◇ Material: High tenacity JL-yarn and High tenacity polyester
- ◇ Construction: 8-strand plaited
- ◇ Treatment: Marine, Fishing, Offshore
- ◇ Colour of Rope: orange with green marker yarns
- ◇ Specific Gravity: Density 0,94 floating
- ◇ Melting Point: 165°C / 260°C
- ◇ Abrasion Resistance: Very good
- ◇ U.V.resistance: Good
- ◇ Temperature resistance: 70°C max continuous
- ◇ Chemical resistance: Good, solvents and strong oxidizer may have a mild effect
- ◇ Dry & wet conditions: Wet strength equals dry strength
- ◇ Range of use: Fishing, inland shipping, navy, industry, mooring
- ◇ Spliced strength: ±10%
- ◇ Weight and length tolerance: ±5%

FEATURES AND BENEFITS:

- ◇ U.V.resistance
- ◇ Chemical resistance
- ◇ High strength
- ◇ Low stretch
- ◇ Durable
- ◇ Torque free



NO.	Dia.		Cir	Wt		B/S	
	mm	inch	inch	KGS/100M	LBS/100FT	Kg	Kn
JL.201.601	24	15/16	3	28.8	19.4	11063	108.5
JL.201.602	28	1-1/8	3-1/2	39.6	26.6	14691	144.1
JL.201.603	32	1-1/4	4	51.2	34.4	18851	184.9
JL.201.604	36	1-7/16	4-1/2	63.8	42.9	23453	230.1
JL.201.605	40	1-9/16	5	78.7	52.9	28320	277.8
JL.201.606	44	1-3/4	5-1/2	93.7	63.0	33630	329.9
JL.201.607	48	1-7/8	6	114	76.3	38940	382
JL.201.608	52	2-1/16	6-1/2	129	86.7	45135	443
JL.201.609	56	2-1/4	7	154	103	52215	512
JL.201.610	60	2-3/8	7-1/2	172	116	59295	582
JL.201.611	64	2-1/2	8	194	131	66375	651
JL.201.612	68	2-11/16	8-1/2	218	147	74340	729
JL.201.613	72	2-7/8	9	244	164	83190	816
JL.201.614	80	3-5/32	10	300	202	100890	990
JL.201.615	88	3-7/16	11	361	243	122130	1198
JL.201.616	96	3-13/16	12	430	289	144255	1415
JL.201.617	104	4-3/32	13	503	335	168972	1655
JL.201.618	112	4-7/16	14	580	390	195585	1919
JL.201.619	120	4-3/4	15	666	447	223905	2196

* Rope is in compliance with OCIMF Mooring Equipment Guidelines & ISO 2307
* Other sizes available upon request



PRODUCT PICTURE



Wire Rope.



Climb Line.



Nylon Sling.



Anchor Rope.



Dyneema Sheath



Winchline.



FPDs



Signal halyard



Polyethylene Tiger Rope.



PE Rope.



Cotton Flag Rope



Signal rope



Rope Ladder.



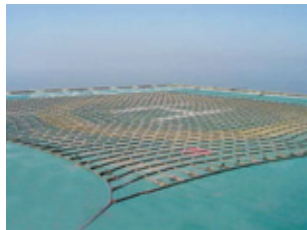
Man Rope.



Sail Twine.



Manila rope



Safety Net of Helicopter Platform.



Polypropylene marline



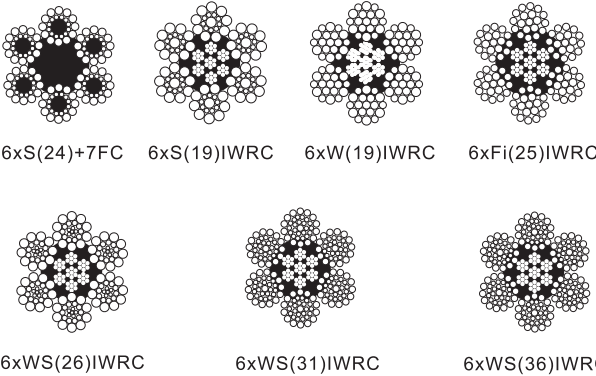
Vinylon Rope



Kite Line

STAINLESS STEEL ROPE

Due to high resistance to corrosion, stainless cable and wire rope is widely used in every industry Our stainless steel rope has the bright, smooth wire surface, good structural stability, flexibility and longer fatigue life, so we can fully meet customers' requirements. Variety of different constructions and sizes available and basic Stainless Steel Wire rope constructions are as below



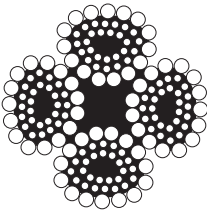
6xS(24)+7FC, 6xS(19)IWRC, 6xW(19)IWRC, 6xFi(25)IWRC, 6xWS(26)IWRC, 6xFi(29)IWRC, 6xWS(31)IWRC, 6xWS(36)IWRC

Dia (mm)	6xS(24)+7FC			6xS(19), 6xW(19), 6xFi(25), 6xWS(26), 6xFi(29), 6xWS(31), 6xWS(36)		
	App.wt. (kg/mtr)	Min B.S(kgf)		App.wt. (kg/mtr)	Min B.S(kgf)	
		AISI 302.304	AISI 316		AISI 302.304	AISI 316
8	0.212	3220	2890	0.280	4060	3660
9	0.269	4070	3660	0.350	5140	4630
10	0.332	5030	4530	0.430	6340	5710
11	0.416	6300	5670	0.539	7960	7160
12	0.478	7240	6500	0.619	9140	8220
14	0.651	9850	8670	0.843	12400	10900
16	0.850	12900	11200	1.10	16200	14100
18	1.08	16300	14000	1.39	20500	17600
20	1.33	20100	17100	1.72	25400	21600
22	1.67	25200	21400	2.16	31800	27000
24	1.91	28900	24600	2.48	36500	31000
26	2.25	33900	28880	2.91	42940	36450
28	2.60	39500	33600	3.37	49700	42200
30	2.99	45300	38500	3.87	57100	48500
32	3.40	49900	42400	4.41	62900	53500

* Other sizes available upon request

CRANE WIRE ROPES

Unique rope has higher breaking strength than 6-strand ropes of equivalent diameter, so fits the grooves of drum or sheave with a low friction. This characteristic extends service life of the rope, specially in applications which have multiple layers on the drums and manufactured in accordance with JIS, BS, FIS, DIN standard specification.



4xSeS(39)+FC

Dia (mm)	Min. Breaking Load In Metric Tons						Approx. weight (kg/mtr)
	S Grade		H Grade		SH Grade		
	KN	Ton	KN	Ton	KN	Ton	
20	235	23.9	256	26.1	277	28.2	1.61
22	284	28.9	309	31.6	335	34.2	1.95
24	338	34.4	368	37.6	399	40.7	2.32
26	396	40.4	432	44.1	468	47.7	2.72
28	460	46.9	501	51.1	543	55.4	3.15
30	528	53.8	575	58.7	623	63.5	3.62
31.5	582	59.3	634	64.7	687	70.1	3.99
32	600	61.2	655	66.8	709	72.3	4.12
33.5	658	67.1	718	73.2	777	79.2	4.51
34	678	69.1	739	75.4	800	81.6	4.65
35.5	739	75.4	806	82.2	872	89.0	5.07
38	846	86.3	923	94.2	999	102	5.75
40	937	95.6	1020	104	1100	112	6.37
44	1130	115	1230	125	1290	132	7.71
48	1340	136	1460	149	1550	158	9.17

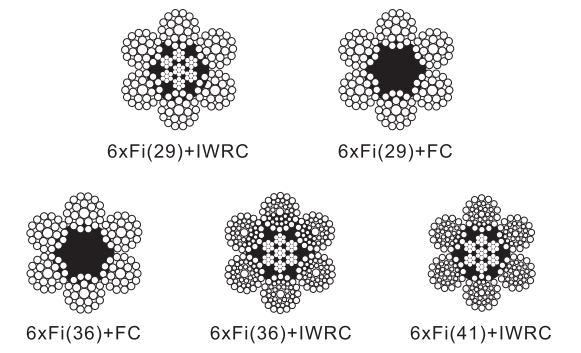
◇ Designed for Crane, Hoist and Piling application

* Other sizes available upon request



WIRE MOORING LINE

In accordance to OCIMF , to save weight, proform drawn galvanized wire strands of a minimum tensile strength 1770N/mm2 are recommended. The recommended construction 6X36 or 6X41(6X36 class) with the wires in each strand of equal lay and the strands of regular right hand lay.

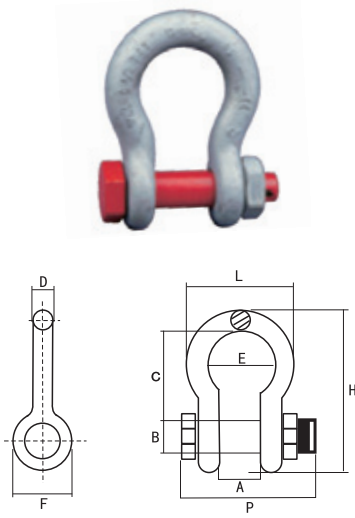


Dia (mm)	Min. Breaking Load In Metric Tons						Approx. weight (kg/mtr)	
	1620N/mm ²		1770N/mm ²		1910N/mm ²		FC	IWRC
	FC	IWRC	FC	IWRC	FC	IWRC		
26	38.3	43.9	40.8	46.7	44.2	50.6	2.666	2.967
28	44.4	50.9	47.4	54.2	51.3	58.7	3.092	3.441
30	51.0	58.4	54.3	62.2	58.7	67.4	3.550	3.950
32	58.0	66.4	61.8	70.8	66.8	76.7	4.039	4.494
34	65.5	75.0	69.8	79.9	75.6	86.6	4.560	5.074
36	73.4	84.1	78.2	89.6	84.7	97.1	5.112	5.688
38	81.8	93.7	87.1	99.8	94.4	108.0	5.696	6.338
40	90.7	104.0	96.6	111.0	105.0	120.0	6.311	7.022
42	100.0	114.0	106.0	122.0	115.0	132.0	6.958	7.742
44	110.0	126.0	117.0	134.0	127.0	145.0	7.636	8.497
46	120.0	137.0	128.0	146.0	138.0	158.0	8.346	9.287
50	142.0	162.0	151.0	173.0	163.0	187.0	9.861	10.97
56	178.0	203.0	189.0	217.0	204.6	233.9	12.40	13.80
60	204.0	234.0	217.0	249.0	234.9	268.5	14.20	15.80
68	261.8	299.6	278.5	318.4	301.7	344.9	18.30	20.35
70	277.5	317.5	295.1	337.4	319.7	365.5	19.39	21.56

(1)Steel wire lines with an independent wire rope core (IWRC) are strongly recommended over fibre core(FC) steel wire lines
(2)Application –mooring, winch, anchor, offshore, crane
* Other sizes available upon request

BOLT & NUT ANCHOR SHACKLE

- ◇ Material: Forged Carbon Steel with Alloy Pin
- ◇ Construction: Quenched and Tempered
- ◇ Finish: Hot dipped Galvanized
- ◇ Proof Load: Proof Load Tested at 2 times of Working Load Limit
- ◇ Safety Factor:6 to 1
- ◇ Fatigue: Fatigue Tested at 1.5 times of Working Load Limit
- ◇ Standard: Bolt type anchor shackle G-2130



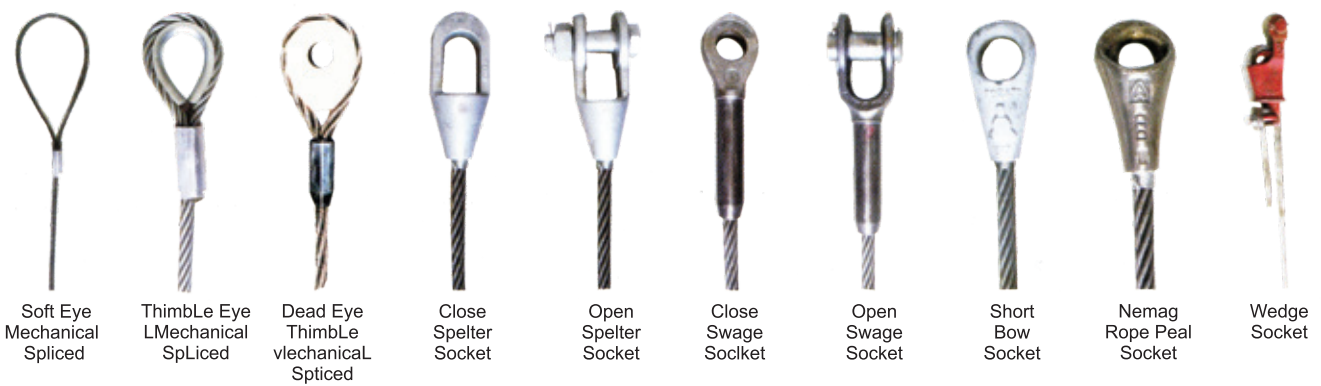
Normal Size NO.	Specified Load T	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	L (mm)	P (mm)	weight (kg/pc)
1/2	2.00	20.6	16.0	47.8	12.7	33.3	30.2	83.3	58.7	71.1	0.36
5/8	3.25	26.9	19.0	60.5	16.0	42.9	38.1	106.4	74.7	89.7	0.76
3/4	4.75	31.8	22.4	71.4	19.1	50.8	45.0	126.2	88.9	103.4	1.23
7/8	6.50	36.6	25.4	84.1	22.4	57.9	53.1	148.1	102.4	119.6	1.79
1	8.50	42.9	28.7	95.3	25.4	68.3	60.5	166.9	119.1	134.9	2.57
1-1/8	9.50	46.0	31.8	108.0	28.7	73.9	68.3	189.7	131.1	149.9	3.75
1-1/4	12.0	51.6	35.1	119.1	31.8	82.6	76.2	209.6	146.1	165.4	5.31
1-3/8	13.5	57.2	38.1	133.4	35.1	92.2	84.1	232.7	162.1	183.1	7.18
1-1/2	17	60.5	41.4	140.1	38.1	98.6	92.2	254.0	174.8	196.3	9.43
1-3/4	25	73.2	50.8	177.8	44.5	106.4	106.4	313.4	225.0	229.8	15.38
2	35	82.6	57.2	196.9	50.8	146.1	122.2	347.5	253.0	264.4	23.70
2-1/2	55	104.9	70.0	266.7	66.5	184.2	144.5	453.1	326.9	344.4	44.57
3	85	127.0	82.6	330.2	76.2	200.2	165.1	546.1	364.7	419.1	69.85
3-1/2	120	133.4	95.3	371.6	91.9	228.6	203.2	625.6	419.1	482.6	120.2
4	150	139.7	108.0	368.3	104.1	254.0	228.6	652.5	467.9	501.7	153.32

Other sizes and other standard available upon request

WIRE ROPE END TERMINATIONS & SLINGS

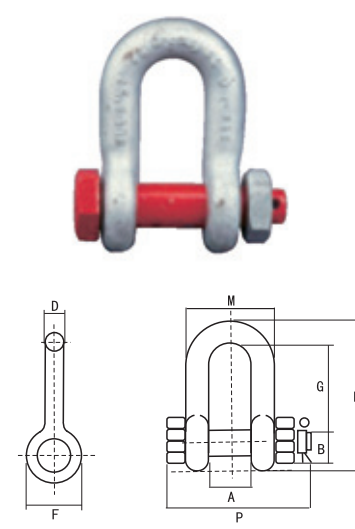
The optimal use of wire rope strength is determined in part by its end terminations. Every termination has its unique attributes which determine its suitability for one plication over another. Our technical team is available to consult on various aspects of the rigging requirements, and help to design and fabricate cost-effective solutions for each situation.

End Terminations



BOLT & NUT CHAIN SHACKLE

- ◇ Material: Forged Carbon Steel with Alloy Pin
- ◇ Construction: Quenched and Tempered
- ◇ Finish: Hot dipped Galvanized
- ◇ Proof Load: Proof Load Tested at 2 times of Working Load Limit
- ◇ Safety Factor: 6 to 1
- ◇ Fatigue: Fatigue Tested at 1.5 times of Working Load Limit
- ◇ Standard: Bolt type anchor shackle G-2150



Model NO. in	Specified Load T	A (mm)	B (mm)	D (mm)	F (mm)	G (mm)	P (mm)	M (mm)	K (mm)	weight (kg/pc)
1/2	2.00	20.6	16.0	12.7	30.2	41.4	77.0	46.0	71.1	0.34
5/8	3.25	26.9	19.1	16.0	38.1	50.8	95.3	58.7	89.7	0.67
3/4	4.75	31.8	22.4	19.1	45.0	60.5	115.1	70.0	103.4	1.14
7/8	6.50	36.6	25.4	22.4	53.1	71.4	135.4	81.0	119.6	1.75
1	8.50	42.9	28.7	25.4	60.5	81.0	150.9	93.7	134.9	2.52
1-1/8	9.50	46.0	31.8	28.7	68.6	90.9	172.2	103.1	149.9	3.45
1-1/4	12.0	51.6	35.1	31.8	76.2	100	190.5	115.1	165.4	4.90
1-3/8	13.5	57.2	38.1	35.1	84.1	111.3	210.3	127.0	183.1	6.24
1-1/2	17	60.5	41.4	38.1	92.2	122.2	230.1	136.7	196.3	8.39
1-3/4	25	73.2	50.8	44.5	106.4	146.1	278.6	162.1	229.8	14.24
2	35	82.6	57.2	50.8	122.2	171.5	311.9	184.2	264.4	21.20
2-1/2	55	104.9	70.0	66.5	144.5	203.2	377.0	238.3	344.4	38.56
3	85	127.0	82.6	76.2	165.1	215.9	428.8	279.4	419.1	56.36
3-1/2	120	133.4	95.3	91.9	203.2	-	-	-	482.6	-
4	150	139.7	108.0	104.1	228.6	-	-	-	501.7	-

Other sizes and other standard available upon request





SELECT THE RIGHT ROPE FOR THE JOB

Ropes are serious working tools, and when used properly they will give consistent and reliable service. Maximizing the safety and rope performance begins with selecting the right rope, managing its strength loss through optimal handling practices, and retiring it from service before it creates a dangerous situation. The cost of replacing a rope is extremely small when compared to the physical damage or injury to personnel a worn out rope can cause. Selecting a rope involves evaluating a combination of factors. Some of these factors are straightforward like comparing rope specifications. Reducing application factors that pertain to sizes or strengths on an initial purchase creates unnecessary frequent replacements and potentially dangerous conditions, in addition to increasing long-term costs.

1.STRENGTH: When given a choice between ropes, select the strongest of any given size.

2.ELONGATION: It is widely accepted that ropes with lower elongation under load will give you better load control, which is a big help at complicated job sites. However, a rope with lower elongation that is shock loaded can fail without warning even though it appears to be in good shape. Low elongating ropes should be selected with the highest possible strength.

Twisted rope has lower strength and more stretch.

Braided rope has higher strength and lower stretch.

3.SHOCK LOADING: Any sudden load that exceeds the working load by more than 10% is considered a shock load. The farther an object falls, the greater the impact. A rope that has undergone shock loading can fail at a later time even though it is loaded within the working load range.

4.FIRMNESS: Select ropes that are firm and round and hold their shape during use. because the fibers are in a straighter line, which improves strength but compromises durability.

5.CONSTRUCTION AND ABRASION: Choosing the right rope construction plays an important role in the longevity of the rope because of how it impacts resistance to normal wear and abrasion.

6.WORKING LOADS: Working loads are the loads that a rope is subjected to in everyday activity. For rope in good condition with appropriate splices, in noncritical applications, and under normal service conditions, working loads are based on a percentage of the approximate breaking strength of new and unused rope of current manufacture.

USE THE ROPES PROPERLY

Avoid all Abrasive Conditions: All rope will be severely damaged if subjected to rough surfaces or sharp edges. Chocks, bitts, winches, drums, and other surfaces must be kept in good condition and free of burrs and rust.

MINIMIZE TWIST IN THE LINE: As little twist as four turns per three feet (or meter) introduced into the line can cause as much as 10 to 30% reduction of strength. Another way to help prevent twist is to preset the line. Once these ropes have been loaded, they do not return to their original dimensions.

AVOID CHEMICAL EXPOSURE: Rope is subject to damage by chemicals, such as solvents, acids, and alkalis.

AVOID OVERHEATING: Heat can seriously affect the strength of synthetic ropes. When using ropes on a capstan or winch, care should be exercised to avoid surging while the capstan or winch head is rotating. The friction from the slippage causes localized overheating, which can melt or fuse synthetic fibers, resulting in severe loss of tensile strength.

STORAGE: All rope should be stored in a clean, dry area, out of direct sunlight, and away from extreme heat.



ROPE INSPECTION AND RETIREMENT



A:“When should I retire my rope?”

B:The most obvious answer is before it breaks.

But, without a thorough understanding of how to inspect it and knowing the load history, you are left making an educated guess. Unfortunately, there are no definitive rules nor are there industry guidelines to establish when a rope should be retired because there are so many variables that affect rope strength. Factors like: load history, bending radius, abrasion, chemical exposure or some combination of those factors, make retirement decisions difficult.

1.ABRASION

When a 12-strand single braid rope such as Jiumax is first put into service, the outer filaments of the rope will quickly fuzz up. This is the result of these filaments breaking, which actually forms a protective cushion and shield for the fibers underneath. This condition should stabilize, not progress.

If the surface roughness increases, excessive abrasion is taking place and strength is being lost. When inspecting the rope, look closely at both the inner and outer fibers. When either is worn, the rope is obviously weakened. open the strands and look for powdered fiber, which is one sign of internal wear. Estimate the internal wear to estimate total fiber abrasion.

12-strand rope, as a general rule for braided ropes, when there is 25% or more wear from abrasion, or the fiber is broken or worn away, the rope should be retired from service;

Double braid ropes, 50% wear on the cover is the retirement point;

3-strand ropes, 10% or more wear is accepted as the retirement point.

2.GLOSSY OR GLAZED AREAS

Glossy or glazed areas are signs of heat damage with more strength loss than the amount of melted fiber indicates. Fibers adjacent to the melted areas are probably damaged from excessive heat even though they appear normal. It is reasonable to assume that the melted fiber has damaged an equal amount of adjacent unmelted fiber.

3.DISCOLORATION

With use, all ropes get dirty. Be on the lookout for areas of discoloration that could be caused by chemical contamination. Determine the cause of the discoloration and replace the rope if it is brittle or stiff.

4.INCONSISTENT DIAMETER

Inspect for flat areas, bumps, or lumps. This can indicate core or internal damage from overloading or shock loads and is usually sufficient reason to replace the rope.

5.INCONSISTENT TEXTURE

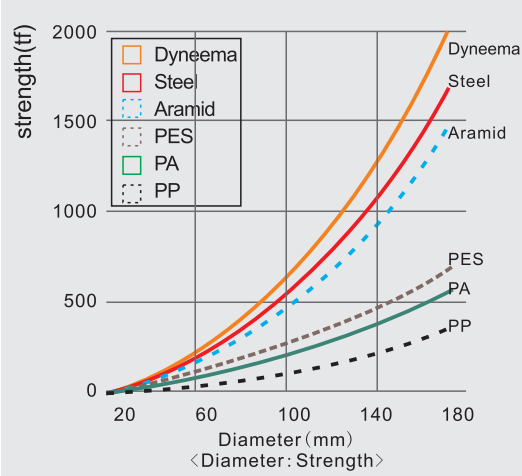
Inconsistent texture or stiff areas can indicate excessive dirt or grit embedded in the rope or shock load damage and is usually reason to replace the rope.

In the case of 12-strand single braids such as Jiumax, each of the 12-strands carries approximately 8.33%, or 1/12th, of the load. after each use, look and feel along every inch of the rope length inspecting for abrasion, glossy or glazed areas, inconsistent diameter, discoloration, and inconsistencies in texture and stiffness. If upon inspection, there are cut strands or significant abrasion damage to the rope, the rope must be retired or the areas of damage removed and the rope repaired with the appropriate splice.



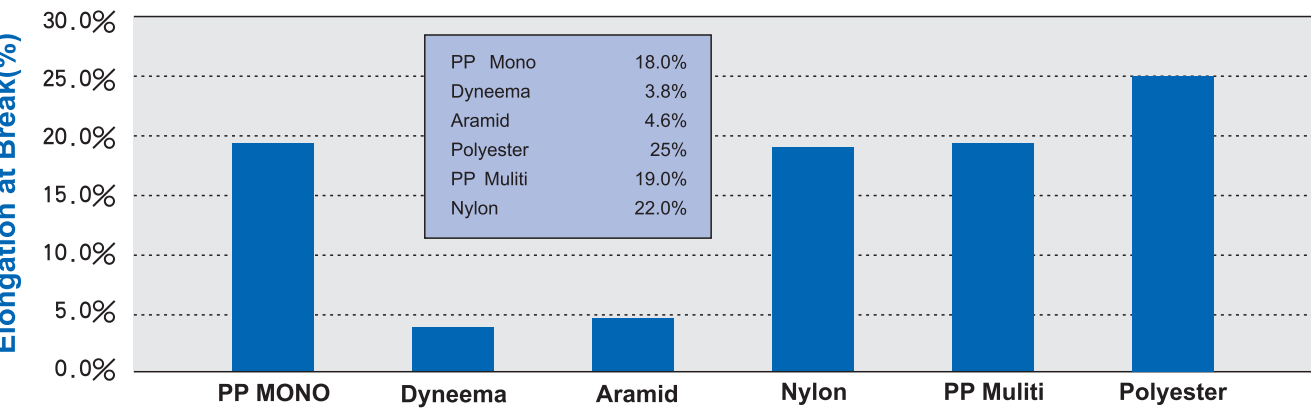
COMPARISON OF FIBER CHARACTERISTICS

Generic Fiber Type	Nylon	Polyester	PP Multi	PP Mono	DYNEEMA
Spec.Density	1.14	1.27	0.91	0.91	0.975
Tenacity(g/d) ¹	8~9.7	7.5~95	7.5	6.5	40(SK 75)
Elongation ²	15~28%	15~28%	18~22%	18~22%	<3.8%
Melting Point	215℃	260℃	165℃	165℃	145℃
Critical Temperature ³	120℃	120℃	70℃	70℃	70℃
Creep ⁴	+++	+++	++	++	++
U.V.resistance	+++	+++	+	+	+++
Chemical resistance	+++	+++	+	+	+++

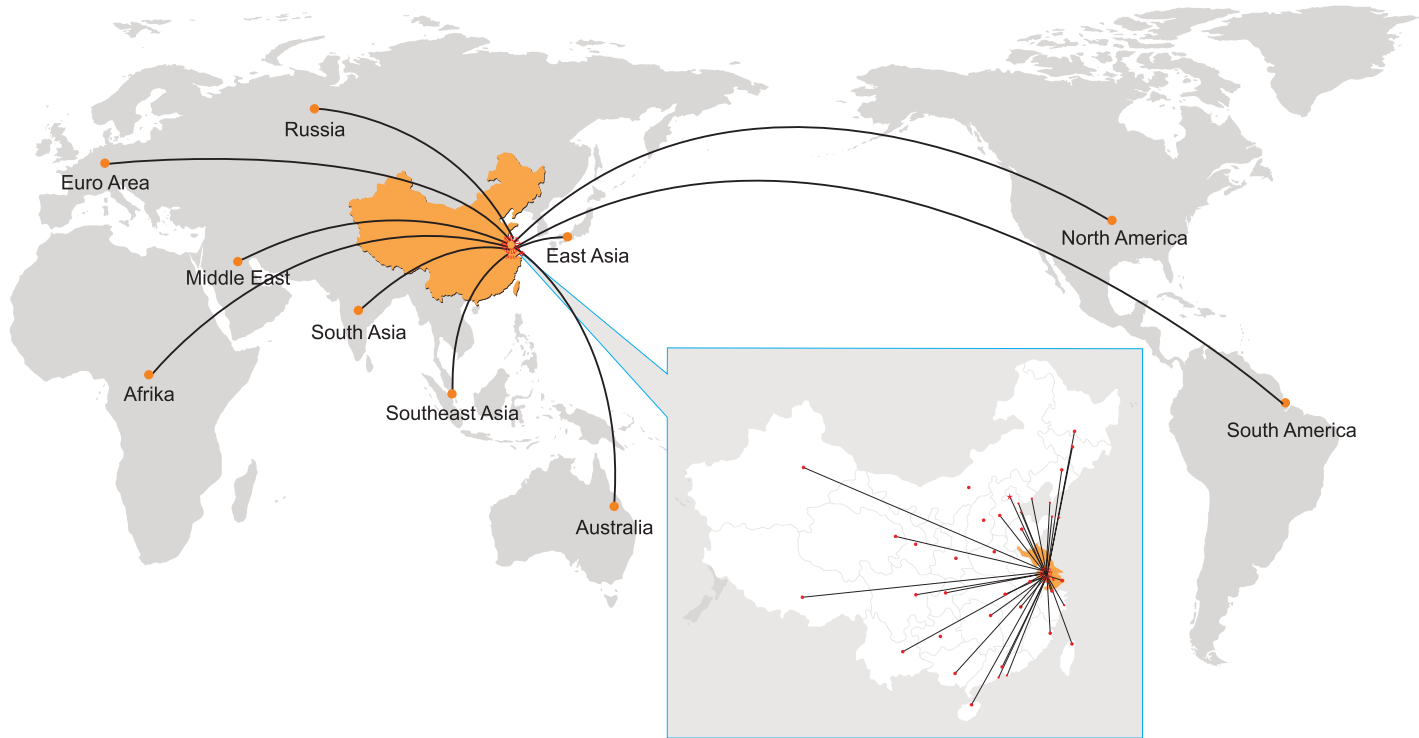


1 **TENACITY** is the measurement of the resistance of fiber to breaking
 2 **ELONGATION** refers to percent of fiber elongation at break.
 3 **CRITICAL TEMPERATURE** is defined as the point at which degradation is caused by temperature alone.
 4 **CREEP** is defined as a material's slow deformation that occurs while under load over a long period of time. Creep is mostly nonreversible. For some synthetic ropes, permanent elongation and creep are mistaken for the same property and used interchangeably when in fact creep is only one of the mechanisms that can cause permanent elongation.

FIBER ELONGATION AT BREAK



SALES NETWORK



CHINA NETWORK

BeiJing, ChengDu, ChongQing, DaLian, FuZhou, GuangZhou, HaiKou, Ha'erBing, HaiNan, HongKong, JiuJiang, JiNan, KunMing, LaSa, LianYungang, Macao, NingBo, NanJing, NanTong, QingDao, QinHuangdao, ShangHai, SanYa, ShenYang, ShenZhen, TianJin, TaiWan, WeiHai, WuXi, WuLuMuqi, WuHan, WuHu, XiaMen, Xi'an, YanTai, YangZhou, ZhouShan, ZhangJiagang, ZhuHai, ZhenJiang,

OVERSEAS NETWORK

America, Singapore, Malaysia, Vietnam, Korea, India, Thai, New Zealand, Australian, German, Greece, UK, France, Norway, Iran, Dubai, Chile, Africa, Russia, Columbia, Japan.

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