

# Total Rope & Wire Solutions : Fiber Rope!



**SM Rope & Wire Co., Ltd**

## - Profile



One of the most important changes of global trends is that customer's needs become diversified and they require producers to develop special metal and products to meet their needs.

In order to fill customer's needs and supply more useful value, SM Rope & Wire Co., Ltd. manufactures and provides special metal and products like High Performance SuperMax Rope and Round Sling, 4X4 Winch Rope called Road Power, Nickel Free Stainless Steel Wire and Functional Stainless Steel Wire as well as general products like many types of Fiber products, Stainless steel Wires and Wire Ropes.

Especially, **SuperMax** type of products are the most advanced materials using **ultra high molecular weight polyethylene (UHMWPE)** in 21C and they are supplied to heavy industries and power plants by replacing steel products with UHMWPE products. SM Rope & Wire Co., Ltd. is gearing up to churn out related products after successful test result applying UHMWPE to offroad and hot-air balloon.

Also, **Nickel Free Wire** which is used for earrings marks a new era in T-pin ornament industry. Its value has been highly evaluated material because ornaments and accessories including nickels or lead inflicting an injury upon a person could not be sold in EU and USA market after March 1, 2008.

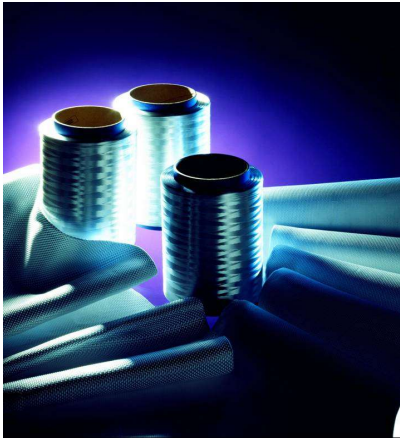
SM Rope & Wire Co., Ltd. is the company which is responsible for the safety of our surroundings by providing many types of special products prevailed from in our body system to in the industry field.

Are you interested in special products even though their quantities are small? Please knock the door of SM Rope & Wire Co., Ltd.. SM Rope & Wire Co., Ltd. will help you to settle your question and worry with a **"Best Service, Best Quality, Best In Time"**.

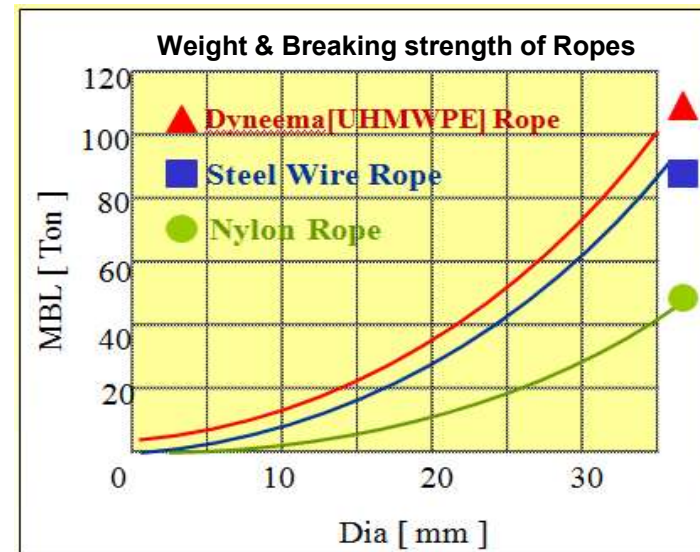
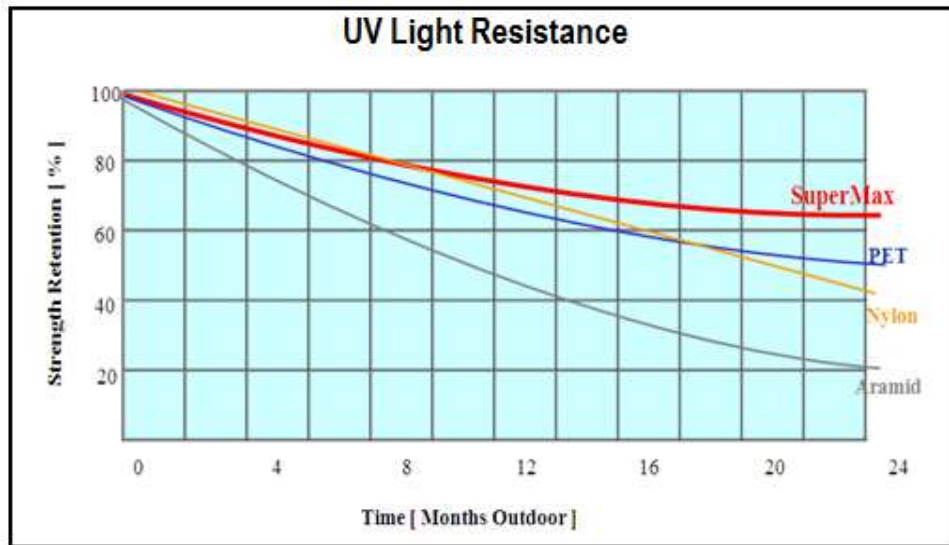


# I . Special Fibers

## UHMWPE Material Characteristics



<b>Tensil Strength</b>	<b>40g/d</b>	<b>Specific Gravity</b>	0.97(Float)
<b>Melting Point</b>	<b>150 °C</b>	<b>Elongation at Break</b>	4 ~ 5%
<b>Water Absorption</b>	<b>None</b>	<b>UV Resistance</b>	Good



## 1. UHMWPE, SuperMax Rope



SuperMax® Rope is the latest development of Ultra High Molecular Weight Polyethylene[UHMWPE] fiber braided rope utilizing our rope design and manufacturing know-how's.

SuperMax® has the strongest tensile strength per weight. SuperMax® is stronger than the wire rope of same diameter and it weighs about 1/8 of wire rope.

SuperMax® is treated with the unique coating process and special heat treatment process to enhance its anti-abrasion characteristics.

### \* Characteristics

01. Maximum strength to weight ratio and strength comparable to steel wire rope.
02. Lowest elongation
03. Longer life and easy handling
04. Superior abrasion resistance
05. Non-kinking and non-rotational
06. Easy to splice

### \* Applications

01. Mooring Lines
02. Anchor Lines
03. Lifting Sling & Nets
04. Towing Rope
05. Heaving Rope
06. Tug Rope
07. Leisure Rope

## - SuperMax Rope Spec



DIA		WT	MBL		DIA		WT	MBL	
MM	INCH	KGS/200M	Ton	kN	MM	INCH	KGS/200M	Ton	kN
5	3/16	3.2	2.9	28.4	36	1-7/16	136.0	104.0	1020.2
6	1/4	4.6	4.2	41.2	38	1-1/2	148.0	112.0	1098.7
7	9/32	5.8	5.0	49.0	40	1-19/32	168.0	127.0	1245.8
8	5/6	7.8	6.7	65.7	42	1-21/32	186.0	140.0	1373.4
9	3/8	9.6	8.5	83.3	44	1-3/4	204.0	152.0	1491.1
10	13/32	11.8	10.8	105.9	46	1-13/16	222.0	165.0	1618.6
12	15/32	19.0	16.5	161.9	48	1-7/8	242.0	179.0	1755.9
14	9/16	25.6	22.0	215.8	50	2	262.0	193.0	1893.3
16	5/8	32.0	27.5	269.8	52	2-1/16	282.0	206.0	2020.8
18	23/32	41.6	35.0	343.3	56	2-1/4	326.0	236.0	2315.1
20	13/16	51.0	41.5	407.1	60	2-3/8	350.0	252.0	2472.0
22	7/8	61.0	50.0	490.5	64	2-1/2	400.0	282.0	2766.3
24	15/16	71.6	58.0	569.0	68	2-11/16	452.0	316.0	3099.9
26	1-1/32	82.0	66.0	647.4	72	2-7/8	508.0	348.0	3413.8
28	1-1/8	93.0	74.0	725.9	80	3-5/32	626.0	422.0	4139.7
30	1-3/16	104.0	81.5	799.5	88	3-7/16	758.0	503.0	4934.3
32	1-1/4	114.0	88.5	868.2	96	3-13/16	902.0	588.0	5768.1
34	1-11/32	125.0	96.0	941.7	<a href="http://www.smcrops.co.kr">www.smcrops.co.kr</a>				



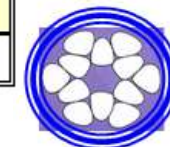
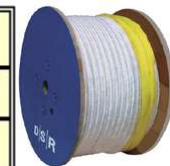
- Spec : ± 5% tolerance according to ISO 2307.
- Warning : The Minimum Breaking Load(MBL) should never be considered as the safe working load of the rope

## - SuperMax Plus Rope Spec

**SuperMax® Plus Rope** consists of SuperMax® (UHMWPE) braided rope core inside and outside Polyester fiber braided jacket.



DIA		WT	MBL		DIA		WT	MBL	
MM	INCH	KGS/200M	TON	kN	MM	INCH	KGS/200M	TON	kN
20	13/16	43.6	30.0	269.8	52	2-1/16	320.0	195.0	1915.0
22	7/8	61.2	38.6	343.3	56	2-1/4	366.0	230.0	2258.0
24	15/16	72.2	46.0	407.1	60	2-3/8	410.0	263.0	2583.0
26	1-1/32	87.0	54.0	530.3	64	2-1/2	472.0	308.0	3024.0
28	1-1/8	100.0	63.0	618.6	68	2-11/16	528.0	345.0	3388.0
30	1-3/16	108.4	68.0	667.7	72	2-7/8	590.0	380.0	3731.0
32	1-1/4	128.0	74.0	726.6	76	3	662.0	429.0	4213.0
34	1-11/32	143.6	84.0	824.8	80	3-5/32	718.0	458.0	4497.0
36	1-7/16	157.8	93.0	913.2	88	3-7/16	842.0	540.0	5303.0
38	1-1/2	172.2	102.0	1,002	96	3-13/16	1022.0	626.0	6147.0
40	1-19/32	189.6	114.0	1,119	104	4-1/8	1196.0	745.0	7316.0
42	1-21/32	209.2	127.0	1,247	112	4-7/16	1388.0	833.0	8180.0
44	1-3/4	222.0	135.0	1,326	120	4-3/4	1572.0	955.0	9378.0
48	1-7/8	274.0	165.0	1,620	<a href="http://www.smcrops.co.kr">www.smcrops.co.kr</a>				



- Spec : ± 5% tolerance according to ISO 2307.

- Warning : The Minimum Breaking Load(MBL) should never be considered as the safe working load of the rope

## 2. UHMWPE, SuperMax Round Sling



SuperMax<sup>®</sup> Round Sling is made of Ultra High Molecular Weight Polyethylene (UHMWPE) yarn covered by durable nylon cover to make high performance lifting round slings.

While designing SuperMax<sup>®</sup> Round Sling, our goal was lightest lifting hear with higher breaking strength of wire rope.

SM Rope & Wire used our long experience of designing and manufacturing know-how's to make SuperMax<sup>®</sup>Round Sling with low elongation while it is stronger than wire rope with less than 10% weight of wire rope.

Low elongation of SuperMax<sup>®</sup> Round Sling makes lifting job much easier and safer. Low elongation enables very low lash back.

Also SuperMax<sup>®</sup> Round Sling is very stable when used with hook, and you can avoid rotating problem of wire rope slings.

### \* Characteristics

01. Easy to handle because it is flexible
02. The form of products didn't change even though they are used for a long time.
03. Low elongation but high safety

## - SuperMax Round Sling Spec



S.W.L (Safety Working Load) (kg)	Safety Working Load (use form)					SAFETY FACTOR 7:1 Breaking Strength (kg)
	Vertical	Choker	45°	60°	Basket	
1,000	1,000	800	1,400	1,000	2,000	7,000
2,000	2,000	1,600	2,800	2,000	4,000	14,000
3,000	3,000	2,400	4,200	3,000	6,000	21,000
4,000	4,000	3,200	5,600	4,000	8,000	28,000
5,000	5,000	4,000	7,000	5,000	10,000	35,000
6,000	6,000	4,800	8,400	6,000	12,000	42,000
8,000	8,000	6,400	11,200	8,000	16,000	56,000
10,000	10,000	8,000	14,000	10,000	20,000	70,000
15,000	15,000	12,000	21,000	15,000	30,000	105,000
20,000	20,000	16,000	28,000	20,000	40,000	140,000
25,000	25,000	20,000	35,000	25,000	50,000	175,000
30,000	30,000	24,000	42,000	30,000	60,000	210,000
40,000	40,000	32,000	56,000	40,000	80,000	280,000
50,000	50,000	40,000	70,000	50,000	100,000	350,000
60,000	60,000	48,000	84,000	60,000	120,000	420,000
70,000	70,000	56,000	98,000	70,000	140,000	490,000
80,000	80,000	64,000	112,000	80,000	160,000	560,000
100,000	100,000	80,000	140,000	100,000	200,000	700,000

**\* Remark:**

- \* Above table is general products
- \* Design case by case
- \* Maximum Length : 40Meter

- \* Maximum SWL : 500 Ton (S.F: 6:1)
- Breaking Strength : 3,000 Ton

## - Comparison of SuperMax Round Sling & Wire Rope Sling



Description	SuperMax Round Sling	Steel Wire Rope Sling (EyeTo Eye)
Construction	Tube & Endless Type	6 X 37 + FC
Size	S.W.L 25 Ton X 6Mtr	60mm X 6Mtr
MBL	175 Ton	195 Ton (Sling175 Ton)
Weight	11.2Kgs/Pc	117.0kgs/Pc
	1/10 of wire rope of same breaking strength. Light weight enables easy installing and handling of sling, and higher productivity of lifting job.	Because of heavy weight, it's very difficult to move and install the slings. Heavy wire rope sling can cause back pain of the users.
Stability	Do not damage the material to be lifted. Positioning is fast and easy. Can tighten up the material to avoid slip while lifting the products.	Can hurt the material to be lifted. Positioning is slow and difficult.
Durability	Durable against chemical contacts. Because of the flexibility, its bending ratio can be far smaller.	Easy to get rusted against acid or alkali. Because of stiffness, broken wire can occur unless extra care is taken.
Economical Value	High initial investment cost. However, higher productivity, longer service life, easier handling and storage result in low total operation costs.	Low initial cost. However, more manpower and heavier equipments to move, install, and lift are required. Total operating cost is high
Safe Keeping	It is easy to keep them safely even in narrow space because they are fiber products.	We need wide space to keep them safely because they are Steel products

**\* Remark:**

Sharp contact areas is required for the safety guards.



### 3. UHMWPE, Road Power® Winch Rope for 4x4 offroad.



Model No	Size	MBL(Ton)		SWL (Safety Factor:10)	W.T (kg/Set)
SMWR10800-30	10mm * 30M	Rope :	10.8	920 kgs	3.5
SMWR10800-25	10mm * 25M	After Splicing	9.2		3.0
SMWR8500-30	9mm * 30M	Rope :	8.5	720kgs	3.0
SMWR8500-25	9mm * 25M	After Splicing	7.2		2.8
SMWR6700-34	8mm * 30M	Rope :	6.7	570kgs	2.7
SMWR6700-25	8mm * 25M	After Splicing	5.7		2.5

**\* Warning :**

1. When you install on main winch firstly, please wind tightly by giving strength after drawing Road Power out from packing reel in order to protect slip insidepart of the product and lengthen the rope life time.
2. Please use snatch block or protecting things to winch on sharp side or rockwall.
3. Please avoid fire because it is inflammable product.

## 4. OPG Power Rope



### OPGW Pulling & Guide Rope " OPG Power"

#### - OPG Power™-SuperMax Rope Spec

Model No	Dia(mm)	MBL(Ton)	W.T(kg/100M)	Application
OPG Power - PTS08	8	6.7	3.9	Safety Net
OPG Power - PTS09	9	8.5	4.8	Safety Net
OPG Power - PTS10	10	10.8	9.5	Safety Net
OPG Power - PTS12	12	16.5	12.8	Cable Pulling
OPG Power - PTS14	14	22.0	16.0	Cable Pulling

#### - OPG Power™-PowerTec N Rope Spec

Model No	Dia(mm)	MBL(Ton)	W.T(kg/100M)	Application
OPG Power - PTN12	12	3.0	9.5	OPGW Pulling & Guide
OPG Power - PTN14	14	4.0	12.9	OPGW Pulling
OPG Power - PTN16	16	5.1	16.7	OPGW Pulling
OPG Power - PTN18	18	6.1	20.1	OPGW Pulling

#### - OPG Power™-PowerTec P Rope Spec

Model No	Dia(mm)	MBL(Ton)	W.T(kg/100M)	Application
OPG Power - PTP12	12	3.2	11.3	OPGW Guide
OPG Power - PTP14	14	4.4	15.3	OPGW Guide
OPG Power - PTP16	16	5.9	20.5	OPGW Pulling & Guide

**\* Remark:**

All of non-kink and 12-strand fiber Rope.

## 5. ATLAS® Rope & Megalon Rope(Equivalent to Atlas Rope)

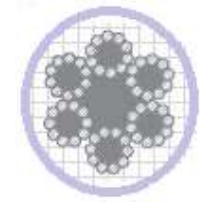


### - ATLAS Rope

01. Atlas Monofilament and high tenacity Nylon Multifilament
02. Rope construction is 6-strand cross lay with core
03. High abrasion resistance.
04. Superior performance in mooring and winch

### - Megalon Rope(Equivalent to Atlas Rope)

01. High Performance Nylon Monofilament and Nylon Multifilament
02. Excellent durability and very high strength
03. Excellent UV resistance and good chemical resistance



### - Applications

01. Mooring line.
02. Winch line.
03. Anchor line.
04. Other industrial heavy-duty use.



**- ATLAS® Rope & Megalon Rope(Equivalent to Atlas Rope)**



**- ATLAS® ROPE**

**- Megalon Rope (Equivalent to ATLAS Rope)**

DIA		WT	MBL		DIA		WT	MBL	
MM	INCH	KGS/220M	Ton	kN	MM	INCH	KGS/220M	Ton	kN
40	1-9/16	220.0	31.0	304.0	40	1-9/16	231.0	37.0	363.0
44	1-3/4	275.0	42.0	412.0	44	1-3/4	275.0	46.0	452.0
48	1-7/8	325.6	50.0	491.0	48	1-7/8	325.0	53.0	520.0
52	2-1/16	352.0	54.0	530.0	52	2-1/16	356.0	60.0	589.0
56	2-1/4	440.0	66.5	652.0	56	2-1/4	440.0	69.5	682.0
60	2-3/8	477.4	70.0	687.0	60	2-3/8	475.0	76.0	746.0
64	2-1/2	539.0	81.0	795.0	64	2-1/2	539.0	87.0	854.0
68	2-11/16	616.0	94.0	922.0	68	2-11/16	616.0	99.0	972.0
70	2-3/4	682.0	103.0	1010.0	70	2-3/4	682.0	108.0	1060.5
72	2-7/8	737.0	108.0	1059.0	72	2-7/8	722.0	114.0	1122.0
78	3-5/32	800.8	120.0	1177.0	78	3-5/32	800.0	126.0	1237.0
84	3-5/16	935.0	140.0	1373.0	84	3-5/16	935.0	147.0	1443.0
90	3-9/16	1111.0	165.2	1619.0	90	3-9/16	1110.0	173.0	1699.0
96	3-13/16	1287.0	192.2	1884.0	96	3-13/16	1287.0	200.0	1964.0

[www.smcrops.co.kr](http://www.smcrops.co.kr)

- Spec : ± 5% tolerance according to ISO 2307.

- Warning : The Minimum Breaking Load(MBL) should never be considered as the safe working load of the rope



## II . General Fibers

### - Polypropylene Rope.

Polypropylene rope has nearly twice the strength of Manila rope of same size. The rope has positive buoyancy(floats), doesn't absorb water, and doesn't decay. It's resistant to acid, alkali and most chemicals. When not in use, the rope should be stored away from direct sun-light. Recommended usages are mooring, dock and anchor line, boat life-line, tarpaulin line, tent tiedown, pool barrier line, public utility and general use in home, farm and industry.

### - Polyethylene Rope.

Polyethylene rope has positive buoyancy(floats) but is slightly heavier than polypropylene rope. Tensile remains the same dry or wet. Commonly used in commercial fishing and industrial applications.

### - Nylon Rope.

Nylon Rope has twice the strength of Manila rope. It has high elongation (under load) when compared to other synthetic ropes. Nylon has high high energy absorption under shock and good abrasion resistance. When combined, these characteristics makes nylon rope the best in handling compared to other synthetics. It's utilized extensively in marine use such as mooring lines, towing slings, commercial fishing, utility rope, leisure boat, sailing etc.

### - Polyester Rope.

Polyester rope exceeds twice the strength of Manila rope, has a lower elongation, high strength, with excellent resistance to outer and internal wearing compared to all synthetic and natural fiber ropes. Recommended for use in rigging, tree rope, truck rope, antenna guys and sail boats.

### - Superflex Rope.

Due to a technically reinforced composition of high tenacity Superdan and polyester yarns, Superflex has retained its superior strength. When combined with DSR's unique double construction cover yarns, this composition provides superior abrasion resistance comparing to conventional constructed ropes. This has been verified through frequent and repeated uses in mooring applications.

# 1. General 8 . 12-strand Rope Spec



## - 12-Strand Rope for Hawser

규격 (DIA)		Ny 12-Strand Rope			New Superflex 12-Strand Rope			New SuperTec 12-Strand Rope			Superdan 12-Strand Rope		
		Weight	MBL		Weight	MBL		Weight	MBL		Weight	MBL	
MM	INCH	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN
36	1-7/16	166.0	29.8	292.3	148.0	31.9	312.6	128.2	29.6	290.1	128.2	24.1	236.2
40	1-9/16	200.0	35.0	343.3	183.0	38.6	378.3	158.2	36.3	355.7	158.2	29.8	292.0
44	1-3/4	242.0	42.3	414.9	218.0	46.0	450.8	195.4	43.5	426.3	195.4	35.6	348.9
48	1-7/8	286.0	49.5	485.6	264.0	53.1	520.4	229.0	50.9	498.8	229.0	42.0	411.6
52	2-1/16	336.0	58.7	575.8	300.0	61.6	603.7	268.0	58.8	576.2	268.0	48.5	475.3
56	2-1/4	402.0	69.6	682.8	358.0	71.3	698.7	312.0	67.3	659.5	312.0	55.4	542.9
60	2-3/8	452.0	77.9	764.2	401.0	81.0	793.8	358.0	77.0	754.6	358.0	64.0	627.2
64	2-1/2	504.0	86.6	849.5	452.0	90.8	889.8	407.2	86.6	848.7	407.2	72.0	705.6
68	2-11/16	572.0	98.0	961.3	508.0	101.7	996.7	460.0	98.4	964.3	460.0	82.0	803.6
72	2-7/8	660.0	112.0	1098.7	568.0	113.8	1115.2	516.0	109.4	1072.1	516.0	90.5	886.9
80	3-5/32	806.0	133.0	1304.7	698.0	138.0	1352.4	638.0	134.1	1314.2	638.0	111.0	1087.8
88	3-7/16	956.0	157.0	1540.1	840.0	166.7	1633.7	772.0	161.3	1580.7	772.0	134.0	1313.2
96	3-13/16	1,138.0	191.0	1873.7	1000.0	197.8	1938.4	918.0	190.3	1864.9	918.0	158.0	1548.4
104	4-1/8	1,332.0	210.0	2060	1172.0	232.3	2276.5	1072.0	222.7	2182.5	1072.0	185.0	1813.0
112	4-7/16	1,544.0	228.0	2236.6	1348.0	267.9	2625.4	1246.0	257.6	2524.5	1246.0	214.0	2097.2
120	4-3/4	1,774.0	270.0	2648.6	1548.0	305.9	2997.8	1436.0	296.1	2901.8	1436.0	246.0	2410.8




- Spec : ± 5% tolerance according to ISO 2307.

- Warning : The Minimum Breaking Load(MBL) should never be considered as the safe working load of the rope



## - 8-Strand Rope for Hawser

규격 (DIA)		Ny 8-Strand Rope			New Superflex 8-S/T Rope			New SuperTec 8-S/T Rope			PP Multi 8-S/T Rope		
		Weight	MBL		Weight	MBL		Weight	MBL		Weight	MBL	
MM	INCH	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN
24	15/16	71.0	13.4	131.4	65.8	13.5	132.3	57.6	13.4	131.4			
28	1-1/8	97.0	17.8	174.6	89.5	18.4	180.3	78.8	17.8	174.6			
32	1-1/4	126.0	22.5	220.7	116.9	24.0	235.2	102.2	22.7	222.7			
36	1-7/16	160.0	28.2	276.6	148.0	30.4	297.9	128.2	28.3	277.6			
40	1-9/16	198.0	34.0	333.5	183.0	36.8	360.6	158.2	34.9	342.4		152.0	20.5
44	1-3/4	240.0	40.5	397.3	218.0	43.7	428.3	195.4	41.7	409.1	183.0	24.4	239.0
45	1-25/32	249.6	42.1	413.0	228.0	53.0	519.4	204.0	43.5	426.7	191.0	25.6	250.9
48	1-7/8	284.0	47.5	466.0	264.0	50.6	495.9	229.0	48.9	479.7	216.0	26.6	260.7
50	2	307.0	51.3	503.2	286.0	55.2	541.0	249.0	52.2	512.1	236.0	30.9	302.8
52	2-1/16	332.0	55.0	539.5	300.0	58.6	574.3	268.0	56.5	554.2	256.0	33.1	324.4
55	2-5/32	372.4	61.0	598.4	345.0	65.5	641.9	301.0	62.6	614.1	266.0	36.7	359.6
60	2-3/8	442.0	70.5	691.6	401.0	77.0	754.6	358.0	74.4	729.8	340.0	43.3	424.3
65	2-9/16	520.0	82.0	804.4	466.0	88.5	867.3	420.0	86.5	848.5	399.0	50.6	495.9
68	2-11/16	570.0	90.0	882.9	508.0	96.6	946.7	460.0	95.4	935.8	437.0	55.1	539.9
70	2-3/4	604.0	95.0	931.9	538.0	102.3	1002.5	487.0	101.1	991.8	463.0	58.4	572.3
72	2-7/8	638.0	100.0	981.0	568.0	108.1	1059.4	516.0	105.5	1034.9	490.0	61.5	602.7
75	3	692.0	108.0	1059.4	616.0	117.3	1149.5	279.5	114.5	1123.2	531.0	66.6	652.6
80	3-5/32	788.0	123.0	1206.6	698.0	131.1	1284.8	638.0	129.9	1274.3	605.0	75.6	740.8
85	3-3/8	910.0	138.0	1353.7	788.0	148.3	1453.3	721.0	146.1	1433.2	663.0	85.1	833.9
88	3-7/16	954.0	145.0	1422.4	840.0	158.7	1555.3	772.0	156.9	1539.1	732.0	90.8	889.8
90	3-9/16	998.0	151.0	1481.3	879.0	165.6	1622.9	807.0	164.0	1608.8	765.0	94.6	927.1
95	3-3/4	1112.0	168.0	1648.0	980.0	185.1	1814.0	899.0	180.1	1766.7	853.0	105.0	1029.0
100	3-15/16	1232.0	184.0	1805.0	1078.0	203.5	1994.3	996.0	199.7	1959.0	945.0	115.0	1127.0
104	4-1/8	1332.0	200.0	1961.9	1165.5	219.9	2155.0	1072.0	216.0	2118.9	1020.0	123.0	1205.0
112	4-7/16	1544.0	210.0	2060.0	1351.8	255.1	2500.0	1246.0	250.5	2457.3	1160.0	142.0	1391.0
120	4-3/4	1774.0	255.0	2501.5	1548.0	290.9	2850.8	1436.0	287.6	2821.3	1360.0	163.0	1597.0

- Spec : ± 5% tolerance according to ISO 2307.

- Warning : The Minimum Breaking Load(MBL) should never be considered as the safe working load of the rope

## 2. General 3-strand Rope Spec



### - 3-Strand Rope for Fishing & General



DIA		PP ROPE			PE ROPE			NYLON ROPE			POLYESTER ROPE		
		Weight	MBL		Weight	MBL		Weight	MBL		Weight	MBL	
MM	INCH	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN
5	3/16	2.3	0.34	3.3	2.5	0.3	2.9	3.0	0.55	5.4	3.9	0.40	3.9
6	1/4	3.5	0.50	4.9	3.6	0.4	4.1	4.4	0.75	7.4	5.4	0.56	5.5
7	9/32	4.8	0.67	6.6	5.0	0.6	5.4	6.0	1.02	10.0	7.5	0.77	7.5
8	5/16	6.2	0.85	8.3	6.4	0.7	6.9	7.8	1.35	13.2	9.6	1.02	10.0
9	3/8	7.8	1.06	10.4	8.0	0.9	8.6	9.8	1.72	16.9	12.4	1.27	12.4
10	13/32	9.6	1.29	12.6	10.0	1.1	10.8	12.1	2.00	19.6	15.2	1.59	15.6
11	7/16	11.7	1.54	15.1	12.4	1.4	13.3	14.6	2.54	24.9	18.6	1.93	18.9
12	15/32	13.9	1.80	17.6	15.0	1.5	15.1	17.6	3.00	29.4	22.0	2.27	22.2
14	9/16	18.8	2.40	23.5	19.0	2.1	20.5	23.9	4.10	40.2	29.6	3.18	31.2
16	5/8	24.2	3.00	29.4	25.0	2.8	27.4	31.0	5.30	51.9	39.0	4.10	40.2
18	23/32	30.8	3.80	37.2	32.0	3.5	34.0	38.9	6.70	65.7	49.0	5.10	50.0
20	13/16	38.0	4.5	44.1	40.0	4.3	41.8	48.0	8.3	81.3	60.6	6.4	62.7
22	7/8	46.0	5.6	54.9	48.0	5.1	49.8	57.9	10.0	98.0	73.4	7.8	76.1
24	15/16	54.7	6.5	63.7	57.0	6.1	59.8	69.5	12.0	117.6	87.4	9.2	90.2
26	1-1/32	63.8	7.5	73.5	67.0	6.9	67.9	81.3	14.0	137.2	102.0	10.7	104.9
28	1-1/8	73.6	8.5	83.3	78.0	8.2	80.5	94.6	15.8	154.8	118.0	12.3	120.5

## - 3-Strand Rope for Fishing & General



DIA		PP ROPE			PE ROPE			NYLON ROPE			POLYESTER ROPE		
		Weight	MBL		Weight	MBL		Weight	MBL		Weight	MBL	
MM	INCH	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN
30	1-3/16	85.2	9.9	97.0	90.0	9.5	92.9	108.0	17.8	174.4	136.0	13.7	134.3
32	1-1/4	96.7	11.0	107.8	102.0	10.7	104.9	123.0	20.0	196.0	155.0	15.7	153.9
34	1-11/32	110.0	12.4	121.5	115.0	12.0	117.6	139.0	22.6	221.5	176.0	17.5	171.5
36	1-7/16	122.0	13.7	134.3	129.0	13.4	131.3	155.0	24.9	244.0	196.0	19.4	190.1
38	1-1/2	135.0	15.1	148.0	144.0	15.0	147.0	174.0	27.4	268.5	220.0	21.6	211.7
40	1-19/32	152.0	16.7	163.7	159.0	16.3	159.7	191.0	30.0	294.0	243.0	24.0	235.2
42	1-21/32	167.0	18.5	181.3	176.0	18.0	176.4	213.0	33.0	323.4	268.0	26.1	255.8
45	1-13/16	191.0	20.7	202.9	203.0	20.8	203.8	244.0	37.0	362.6	308.0	29.8	292.0
48	1-7/8	218.0	23.6	231.3	229.0	22.8	223.4	277.0	42.0	411.6	350.0	33.6	329.3
50	2	236.0	25.5	249.9	249.0	24.7	242.1	302.0	45.5	445.9	380.0	36.3	355.7
55	2-5/32	286.0	30.0	294.0	300.0	29.6	290.1	367.0	54.2	531.2	459.0	42.8	419.4
56	2-1/4	296.0	31.0	303.8	312.0	30.4	297.9	380.0	56.0	548.8	476.0	44.8	439.0
60	2-3/8	340.0	35.5	347.9	360.0	34.4	337.1	438.0	63.8	625.2	546.0	49.9	489.0
64	2-1/2	387.0	40.0	392.0	412.0	39.1	383.2	496.0	72.0	705.6	622.0	58.0	568.4
65	2-9/16	399.0	41.0	401.8	425.0	40.2	394.0	513.0	74.2	727.2	642.0	59.0	578.2
70	2-3/4	463.0	47.0	460.6	492.0	46.5	455.7	596.0	85.5	837.9	745.0	68.1	667.4
72	2-7/8	490.0	50.3	492.9	521.0	49.1	481.2	630.0	90.0	882.0	786.0	72.1	706.6
75	3	531.0	53.5	524.3	565.0	53.2	521.4	683.0	97.6	956.5	855.0	78.2	766.4
80	3-5/32	605.0	60.5	592.9	646.0	60.4	591.9	777.0	110.0	1078	970.0	88.5	867.3
85	3-3/8	683.0	68.0	666.4	729.0	68.1	667.4	874.0	124.0	1215	1090.0	98.8	968.2
90	3-9/16	765.0	75.0	735.0	818.0	76.4	748.7	980.0	137.0	1343	1220.0	110.0	1078
95	3-3/4	853.0	83.0	813.4	911.0	85.0	833.0	1092.0	151.0	1480	1370.0	123.0	1205
96	3-13/16	871.0	84.7	830.1	930.0	85.4	836.9	1110.0	154.0	1509	1400.0	126.0	1235
100	3-15/16	945.0	91.5	896.7	1009.0	92.6	907.5	1200.0	166.0	1627	1500.0	136.0	1333

- Spec : ± 5% tolerance according to ISO 2307.

- Warning : The Minimum Breaking Load(MBL) should never be considered as the safe working load of the rope

## - Braided Rope for Yaht & General

### Construction

#### Double Braided Type



#### Parallel Core Type



CONS'T		PP MULTI DOUBLE BRAIDED			PET/NY DOUBLE BRAIDED			NYLON DOUBLE BRAIDED			POLYESTER DOUBLE BRAIDED		
Outer		PP MULTI COVER			POLYESTER COVER			NYLON COVER			POLYESTER COVER		
Inner		PP MULTI CORE			NYLON CORE			NYLON CORE			POLYESTER CORE		
DIA		W.T		MBL	W.T		MBL	W.T		MBL	W.T		MBL
MM	INCH	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN	kg/200M	TON	kN
20	13/16	42.0	5.8	56.8	60.8	9.7	95.1	51.0	9.3	91.1	66.0	9.7	95.1
22	7/8	47.0	6.8	66.6	73.6	12.3	120.5	64.0	10.7	104.9	82.0	11.9	116.6
24	15/16	58.0	7.7	75.5	88.0	14.0	137.2	71.0	12.7	124.5	99.0	14.6	143.1
26	1-1/32	68.0	9.0	88.2	103.0	17.0	166.6	84.0	15.6	152.9	116.0	17.7	173.5
28	1-1/8	79.0	11.0	107.8	119.0	19.0	186.2	103.0	18.0	176.4	132.0	19.3	189.1
30	1-3/16	90.0	13.0	127.4	137.0	22.2	217.6	116.0	21.0	205.8	150.0	21.8	213.6
32	1-1/4	106.0	14.0	137.2	156.0	25.4	248.9	129.0	22.0	215.6	174.0	24.8	243.0
34	1-11/32	116.0	16.0	156.8	175.0	28.3	277.3	149.0	27.0	264.6	192.0	27.2	266.6
36	1-7/16	133.0	18.0	176.4	197.0	31.8	311.6	168.0	29.0	284.2	217.0	31.2	305.8
38	1-1/2	148.0	20.0	196.0	219.0	34.0	333.2	182.0	32.0	313.6	242.0	32.0	313.6
40	1-19/32	165.0	21.0	205.8	243.0	37.7	369.5	208.0	36.0	352.8	267.0	37.2	364.6
42	1-21/32	181.0	23.0	225.4	268.0	42.8	419.4	227.0	39.0	382.2	292.0	40.3	394.9
45	1-13/16	208.0	26.0	254.8	308.0	46.0	450.8	261.0	44.0	431.2	335.0	45.3	443.9
50	2	257.0	32.0	313.6	380.0	57.3	561.5	320.0	54.0	529.2	420.0	56.2	550.8
55	2-5/32	310.0	39.0	382.2	460.0	69.2	678.2	386.0	66.0	646.8	504.0	68.1	667.4
60	2-3/8	370.0	45.0	441.0	547.0	81.5	798.7	459.0	78.0	764.4	607.0	81.5	798.7
65	2-9/16	429.0	53.0	519.4	642.0	93.4	915.3	538.0	93.0	911.4	708.0	93.0	911.4
70	2-3/4	505.0	63.0	617.4	745.0	110.0	1078.0	624.0	103.0	1009.4	819.0	109.0	1068.2
72	2-7/8	534.0	68.0	666.4	788.0	115.0	1127.0	660.0	109.0	1068.2	866.0	115.0	1127.0
75	3	577.0	73.0	715.4	855.0	124.0	1215.2	723.0	118.0	1156.4	939.0	118.0	1156.4
80	3-5/32	658.0	82.0	803.6	937.0	138.0	1352.4	819.0	138.0	1352.4	1075.0	144.0	1411.2
85	3-3/8	743.0	93.0	911.4	1098.0	158.0	1548.4	925.0	156.0	1528.8	1213.0	162.0	1587.6
90	3-9/16	833.0	103.0	1009.4	1231.0	168.0	1646.4	1036.0	175.0	1715.0	1360.0	182.0	1783.6
95	3-3/4	928.0	115.0	1127.0	1372.0	189.0	1852.2	1155.0	195.0	1911.0	1516.0	202.0	1979.6
100	3-15/16	1028.0	128.0	1254.4	1520.0	206.0	2018.8	1280.0	216.0	2116.8	1680.0	225.0	2205.0



- Spec : ± 5% tolerance according to ISO 2307.

- Warning : The Minimum Breaking Load(MBL) should never be considered as the safe working load of the rope

### 3. Mooring Tail Rope

SM Rope & Wire Co., Ltd(SMRW) has supported whole process from design to supply Mooring Tail Rope with its own Mooring Tail Rope with its own Mooring Tail Rope management system for ULCC, VLCC, LNG and PC vessels making the transit through domestic and oversea. It is true that Mooring Tail Rope plays the most important role in Mooring rope system but its management is difficult and weak. Accordingly, SMRW has the systematic maintenance system and support you for your safe and smooth sailing.

#### - Combination method of Tonsberg Mooring Shackle.

#### - Combination method of Mandal Fairlead Mooring Shackle.



#### - Mooring Tail

Material	Rope Construction	Type of Eye	Dia	MBL	Application Factor of OCIMF Rules
Nylon Rope	8-strand	Eye to Eye	More than 60mm	More than 70Ton	137% against MBL of Wire Rope, SuperMax and UHMWPE Rope
	12-strand				
	Double Braided				
Polyester or PP Mixing Rope	8-strand	Eye to Eye	More than 56mm	More than 63Ton	125% against MBL of Wire Rope, SuperMax and UHMWPE Rope
	12-strand				
	Double Braided				



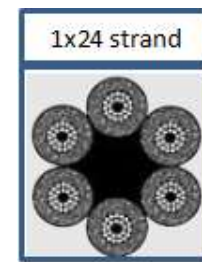
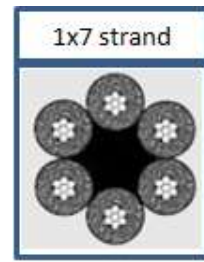
## 4. Playing 6-strand Compound Rope



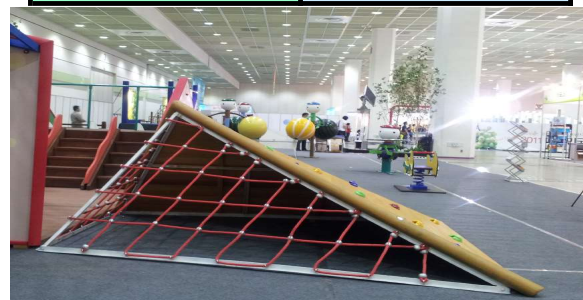
SM Rope & Wire co., Ltd has been supplying excellent products which are flexible according to customer's design and their method to install.

Supply to PP and Polyester Playing Rope. Supply to Dia 16 ~ 24mm

Outside Polyester or Polypropylene and Core in Wire strand 1x7 or 1x24.



Dia		Weight (kg/200M)
(MM)	W.Core	
16	(2.00MM)	65
18	(2.67MM)	78
20	(3.33MM)	103
22	(4.00MM)	138
24	(4.67MM)	179



**SM's Mind !**

**Best Service !**

**Best Quality !**

**Best in Time !**

**Always together with Customer !**

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