

2024 EDITION



DONGYANG MFG

Product Catalogue



www.ropes.co.kr



Since 1949

The Leader of Korean Rope Industry

Since its foundation in 1949, DONGYANG has grown as one of the leading synthetic fiber rope manufactures in the world.

Taking our long experience in this industry, we produce world class quality products in complying with the requirements of ISO9001, KS, JIS, LR, ABS, DNV, NK, CCS, BV and more.

We first got ISO9001 certified in the rope industry in Korea and now can provide qualified products under “OCIMF MEG4” type—approve by LR.

We promise to make every effort to be the most reliable company by supplying the best quality products through unremitting research and technical improvement.

We hope you to be one of our close customers.



View of head office in 1949

History

- 1949** Established Dong Yang Rope Mfg. Co., Ltd.
- 1973** Enlarged factory facilities for synthetic fiber rope
- 1975** Acquired business license for import and export
- 1980** "Excellent Manufacture" by KR
- 1984** "Approval of Manufacture" by DNV
- 1988** Received the President's Award
- 1990** Re-structuring of factory for global standardization
- 1998** "ISO 9002" approved by LRQA
- 1999** "Approval of Manufacture" by CCS
- 2003** Introduced 12-Strand braiding machine.
- 2004** "ISO 9001:2000" approved by LRQA
- 2006** Acquired Patent for "Ultra-High Strength Polyethylen Manufacturing machine" (Patent No. 10-0626613)
- 2007** Established Research Institute
(Approved by Korea Industrial Technology Association)
- 2008** Participated in MADEX 2008 (Korea)
- 2009** Participated in BITFAS 2009 (Korea)
- 2009** Participated in KORMARINE 2009 (Korea)
- 2010** Established MirAcle Factory in Jinhae Industrial Complex
- 2011** Participated in BITFAS 2011 (Korea)
- 2012** Participated in Nor-Fishing 2012 (Norway)
Participated in BITFAS 2012 (Korea)
- 2013** Participated in Aqua Nor 2013 (Norway)
- 2014** Participated in Nor-Fishing 2014 (Norway)
Participated in IWBS (USA)
- 2015** Participated in Aqua Nor 2015 (Norway)
- 2017** Relocation of Factory
(Dadaepo Rainbow Industrial Complex)
- 2018** ISO 9001:2015 approved by LRQA
Participated in SMM 2018 (Germany)
- 2019** The 70th anniversary of foundation
Participated in Aqua Nor 2019 (Norway)
Participated in IMPA 2019 (UK)
Participated in Kormarine 2019 (Korea)
Marintec China 2019 (Korea)
OCIMF MEG.4 approved by LRQA
- 2021** "Type Approval" by RMRS (Russia)
"Approved Workshop" by RINA (Italy)
Participated in Kormarine 2021 (Korea)
Participated in Pacific Marine Expo 2021 (USA)
- 2022** Participated in Indo Pacific 2022 (Australia)
Participated in Posidonia 2022 (Greece)
Participated in SMM 2022 (Germany)
Participated in Inamarine 2022 (Indonesia)
Participated in Pacific Marine Expo 2022 (USA)
- 2023** Participated in Aquafuture 2023 (Spain)
Participated in Bari-Ship 2023 (Japan)
Participated in Nor-Shipping 2023 (Norway)
Participated in Philmarine 2023 (Philippines)
Participated in VIMOX 2023 (Vietnam)
Participated in Kormarine 2023 (Korea)



R & D

Institute Outline

Our research institute approved by Korea Industrial Technology Association was established in November 2007 with the purpose of further pursuing technology and bracing for increasing competition to develop ultra high strength fiber ropes and new fiber materials.

Our development efforts are based on the manufacturing technology of fiber ropes that has been accumulated for 70 years.

Today, our research institute is phasing in test analyzers & research facilities and making many efforts to introduce and manage highly efficient facilities.

We will continue to develop new technologies to cultivate our competitive potential and secure scientific technologies of the future in the age of infinite competition.

We are also doing our best to raise ourselves as the best company in the long run by strengthening industry-university cooperation with the government for R&D projects.

R&D Field

- Developed Ultra High Strength Fiber Ropes
- Developed New Material Fiber & Conjugate Fiber
- Developed Eye Protector
- Developed Automation facility system
- Developed Re-cycling material & yarns

Researchers

- The Date of Establishment :
November 28, 2007
- The number of R&D members :
One laboratory chief & Five Researchers

Research & Development

Today, our research institute is phasing in test analyzers & research facilities and making many efforts to introduce and manage highly efficient facilities.

We will continue to develop new technologies ourselves to cultivate our competitive potential and secure scientific technologies of the future in the age of infinite competition. We are also doing our best to raise ourselves as the best company in the long run by strengthening industry-university cooperation with the government for R&D projects.

Applications

MOORING	TERAMAX	MEGALON	ENDUWINFLEX	MEGACORE	TERAFLEX	POLYESTER
	TERAMAX PLUS	PLUSLINE NY	NEWMEGA PP	ENDUWIN	MEGAFLEX	NYLON
	MIRAMAX	TERACORE	POLYESTER D/B	TERA PP	PP MULTI	
	TERALON	ASB LINE	NY/PS D/B	MEGA PP	PP ROPE	
	T-FLEX	NYLON D/B	PP MULTI D/B			
FISHING	TERAMAX	ENDUWIN	ENDUWINFLEX	POLYESTER		
	TERAMAX PLUS	TERA PP	NEWMEGA PP	COMPOUND ROPE		
	TERACORE	MEGA PP	MEGAFLEX			
	MEGACORE	TERAFLEX	PP ROPE			
TUGGING	TERAMAX	ENDUWIN	ENDUWINFLEX	MEGAFLEX		
	TERAMAX PLUS	TERA PP	NEWMEGA PP	PP MULTI		
	PLUSLINE NY	MEGA PP	POLYESTER D/B	PP ROPE		
	NYLON D/B	TERAFLEX	NY/PS D/B	PP MULTI D/B		
GENERAL	3 STRAND ROPE			ACCESSORY	MOORING TAIL NETECH NEW PROTECTOR	POLYTECTOR REPAIR KIT



PATENT

Patent

Non take-up winder of extruding

Patent No 101980 | Patent Date 1996.12.17

Eye-splicing tool

Patent No 105076 | Patent Date 1997.04.29

Twin-head extruder

Patent No 0171799 | Patent Date 1999.12.07

Anti-vibrator of spindle on twisting bobbin

Patent No 0246728 | Patent Date 2001.09.04

Ultra High Strength Polyethylene Manufacturing Machine

Patent No 10-0626613 | Patent Date 2006.09.14

Composite rope yarn and method of preparing the same

Patent No 10-0954173 | Patent Date 2010.04.14

Braiding machine having capability of changing rope structure

Patent No 10-0954753 | Patent Date 2010.04.19

Rope protection cover enabling visual check of inner part

Patent No 10-1113597 | Patent Date 2012.02.01

Tube type rope with improved abrasion resistance and antifouling property

Patent No 10-1150720 | Patent Date 2012.05.22

Gel spinning pack

Patent No 10-1186006 | Patent Date 2012.09.19

The manufacturing method of tube type rope & end product

Patent No 10-1285563 | Patent Date 2013.07.08

Solvent extraction device

Patent No 10-146669 | Patent Date 2014.11.24

Synthetic fiber rope with link for fixing mooring buoy

Patent No 10-1495645 | Patent Date 2013.12.30

Double rope using synthetic resin film

Patent No 10-152882 | Patent Date 2015.06.09

Plaited running resistance rope

Patent No 10-1553326 | Patent Date 2015.09.09

The coating device & method of yarn or twisted yarn

Patent No 10-1569397 | Patent Date 2015.11.12

Phosphorescent resin composition using polyolefin & manufacturing method

Patent No 10-1580649 | Patent Date 2015.12.21

Toward 100 years

We recently attracted intense attention by developing special yarns (UHMWPE) and producing new ropes like TERAMAX, TERAMAX-PLUS, MEGACORE, T-FLEX, ASB which provide much more excellent quality & performance compared to other old synthetic ropes.

Trademark Right

MirAcle

Registration No 40-0844274 | R Date 2010.11.25

MirAcle

Registration No 40-0854860 | R Date 2011.02.28

MirAcle

Registration No 40-0854861 | R Date 2011.02.28

MirAcle

Registration No 40-0854862 | R Date 2011.02.28

MirAcle

Registration No 40-0854867 | R Date 2011.02.28

MEGAFLEX

Registration No 40-1143275 | R Date 2015.11.17

MEGACORE

Registration No 40-1143276 | R Date 2015.11.17

ENDUWIN

Registration No 40-1195284 | R Date 2016.08.09

MEGACORE

Registration No 40-1195283 | R Date 2016.08.09

MEGAFLEX

Registration No 40-1197616 | R Date 2016.08.22

Approved by

ABS, BV, DNV-GL, LLOYD, NK, CCS, RINA, KR, RMRS, KOMSA





Contents

- 10** TERAMAX
- 12** TERAMAX PLUS
- 14** MIRAMAX
- 15** PLUSLINE NYLON
- 16** NYLON DOUBLE BRAIDED
- 16** POLYESTER DOUBLE BRAIDED
- 17** NYLON/ POLYESTER DOUBLE BRAIDED
- 17** PP MULTI DOUBLE BRAIDED
- 18** TERALON

- 19** MEGALON(TYPE-A, TYPE-B)
- 20** ASB LINE UP(Anti Snap Back)
- 21** TERACORE ASB
- 22** TERACORE
- 23** MEGACORE
- 24** TERAFLEX
- 25** MEGAFLEX
- 26** T-FLEX
- 27** ENDUWINFLEX



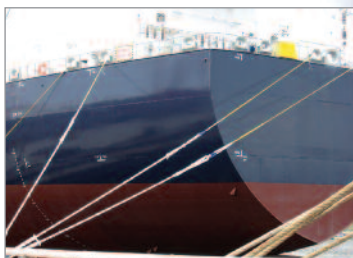
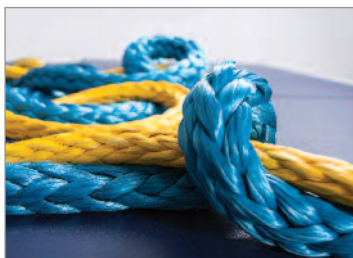
28 ENDUWIN
29 NEW MEGA PP
30 TERA PP
31 MEGA PP
32 PP ROPE
33 PP MULTI 8S/T, 12S/T
34 NYLON 12S/T
35 NYLON 8S/T
36 POLYESTER 12S/T

37 POLYESTER 8S/T
38 COMPOUND ROPE
39 3 STRAND ROPE
40 REPAIR KIT
41 MOORING TAIL
42 POLYTECTOR / NETECH
43 ROPE TOTAL SOLUTION
47 NEW PROTECTOR
48 CUSTOMER SERVICE

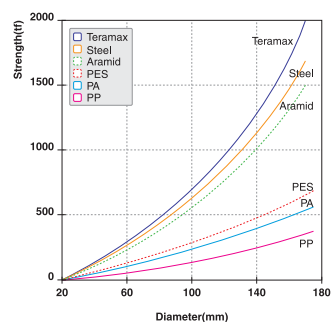


TERAMAX™

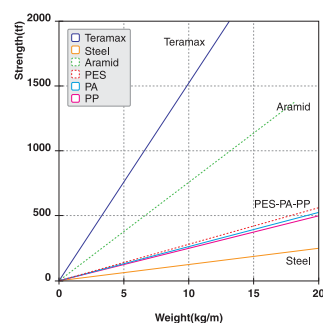
12-Strand braided rope made of UHMWPE(Ultra High Molecular Weight Polyethylene)
Yarns with special coating



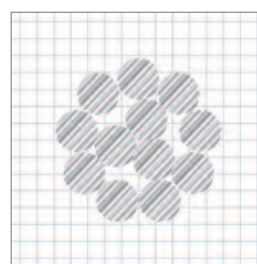
Diameter : Strength



Weight : Strength



Structure



12-STRAND CONSTRUCTION

Fiber Content

● UHMWPE

Characteristics

- 12-Strand braided rope made of UHMWPE (Ultra High Molecular Weight Polyethylene) Yarns with special coating
- Strongest fiber rope in the world
- Light weight (1/7 of wire rope weight), stronger than wire rope
- Excellent resistance to UV (Ultra Violet) and chemicals
- No difference in tensile strength wet or dry
- Specific gravity : 0.97 (Floating)
- Easy to splice & handle
- Superior wear life
- Kink/Torque free
- Superior abrasion resistance
- Melting point : 150°C
- Elongation at break : 4~5%
- Workable below -40°C

Applications

- Mooring lines
- Face & Wing wires
- Tug assist lines
- Seismic tow lines
- Winch lines
- Pulling lines
- Specialty rigging lines
- Wire rope replacement

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	inch	kg/100m	lb/100ft	ton	kN	ton	kN
1/4	6	3/4	2.3	1.55	4.2	41.2	3.8	37.1
5/16	8	1	3.9	2.62	6.7	65.7	6.0	59.1
13/32	10	1-1/4	5.9	3.96	10.8	105.9	9.7	95.3
15/32	12	1-1/2	9.5	6.38	16.5	161.9	14.9	145.7
9/16	14	1-3/4	12.8	8.60	22.0	215.8	19.8	194.2
5/8	16	2	16.0	10.75	27.5	269.8	24.8	242.8
23/32	18	2-1/4	20.8	13.98	35.0	343.4	31.5	309.1
13/16	20	2-1/2	25.5	17.13	41.5	407.1	37.4	366.4
7/8	22	2-3/4	30.5	20.49	50.0	490.5	45.0	441.5
15/16	24	3	35.8	24.06	58.0	569.0	52.2	512.1
1-1/32	26	3-1/4	41.0	27.55	66.0	647.5	59.4	582.8
1-1/8	28	3-1/2	46.5	31.25	74.0	725.9	66.6	653.3
1-3/16	30	3-3/4	52.0	34.94	81.5	799.5	73.4	719.6
1-1/4	32	4	57.0	38.30	88.5	868.2	79.7	781.4
1-7/16	36	4-1/2	68.0	45.69	104.0	1,020.2	93.6	918.2
1-9/16	40	5	87.0	58.46	127.0	1,245.9	114.3	1,121.3
1-3/4	44	5-1/2	104.0	69.88	152.0	1,491.1	136.8	1,342.0
1-7/8	48	6	121.0	81.31	179.0	1,756.0	161.1	1,580.4
2-1/16	52	6-1/2	141.0	94.75	206.0	2,020.9	185.4	1,818.8
2-1/4	56	7	163.0	109.53	236.0	2,315.2	212.4	2,083.7
2-3/8	60	7-1/2	175.0	117.59	252.0	2,472.1	226.8	2,224.9
2-1/2	64	8	200.0	134.39	282.0	2,766.4	253.8	2,489.8
2-11/16	68	8-1/2	226.0	151.86	316.0	3,100.0	284.4	2,790.0
2-7/8	72	9	254.0	170.68	348.0	3,413.9	313.2	3,072.5
3	76	9-1/2	283.0	190.16	387.0	3,796.5	348.3	3,416.9
3-5/32	80	10	313.0	210.32	422.0	4,139.8	379.8	3,725.8
3-5/16	84	10-1/2	345.0	231.83	465.0	4,561.7	418.5	4,105.5
3-7/16	88	11	379.0	254.74	503.0	4,934.4	452.7	4,441.0
3-13/16	96	12	451.0	303.05	588.0	5,768.3	529.2	5,191.5

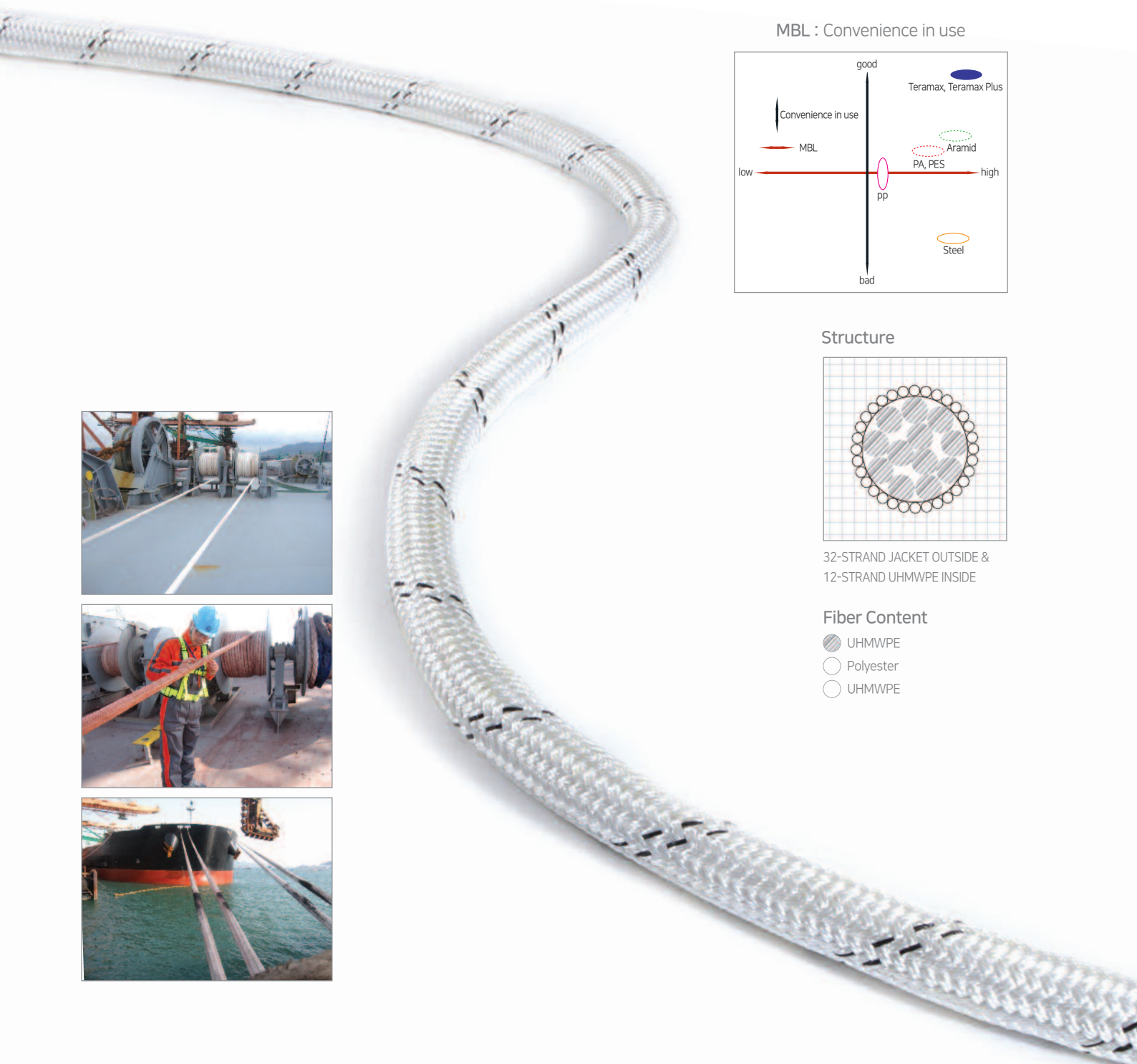
· ± 5% tolerance according to ISO 2307

· LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

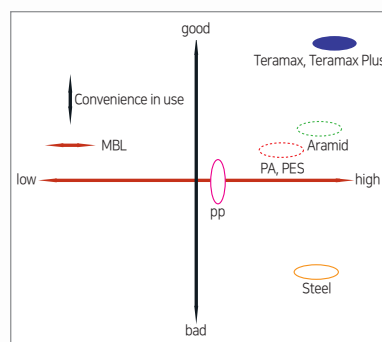


TERAMAX PLUS™

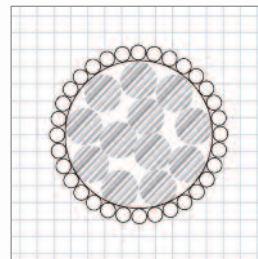
12-Strand braided rope made of UHMWPE Inside &
32-Strand UHMWPE or Polyester cover outside



MBL : Convenience in use



Structure



32-STRAND JACKET OUTSIDE &
12-STRAND UHMWPE INSIDE

Fiber Content

- UHMWPE
- Polyester
- UHMWPE



Characteristics

- 12-Strand braided rope made of UHMWPE Inside & 32-Strand UHMWPE or Polyester cover outside
- Extremely high strength & Low stretch
- Stronger than wire rope
- Excellent resistance to UV (Ultra Violet) and chemicals
- No difference in tensile strength wet or dry
- Specific gravity : 0.97~1.09 (Floating type available)
- Kink/Torque free
- Easy to handle
- Superior abrasion resistance
- Melting point : 265°C/150°C
- Elongation at break : 4~5%

Applications

- Mooring lines • Face & Wing wires • Tug assist lines • Winch lines • Pulling lines • Specialty rigging lines
- Wire rope replacement

UHMWPE (CORE) + POLYESTER (JACKET)

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPICED MBL	
inch	mm	inch	kg/100m	lb/100ft	ton	kN	ton	kN
13/16	20	2-1/2	26.0	17.47	31.0	304.1	27.9	273.7
7/8	22	2-3/4	31.1	20.90	38.6	378.7	34.7	340.8
15/16	24	3	37.0	24.86	46.0	451.3	41.4	406.2
1-1/32	26	3-1/4	43.5	29.23	54.0	529.7	48.6	476.7
1-1/8	28	3-1/2	50.0	33.60	63.0	618.0	56.7	556.2
1-3/16	30	3-3/4	54.2	36.42	68.0	667.1	61.2	600.4
1-1/4	32	4	64.0	43.01	74.0	725.9	66.6	653.3
1-11/32	34	4-1/4	71.8	48.25	84.0	824.0	75.6	741.6
1-7/16	36	4-1/2	78.9	53.02	93.0	912.3	83.7	821.1
1-1/2	38	4-3/4	86.1	57.86	102.0	1,000.6	91.8	900.5
1-9/16	40	5	94.8	63.70	114.0	1,118.3	102.6	1,006.5
1-11/16	42	5-1/4	115.1	77.32	127.0	1,245.9	114.3	1,121.3
1-3/4	44	5-1/2	122.1	82.05	135.0	1,324.4	121.5	1,192.0
1-7/8	48	6	150.7	101.26	165.0	1,618.7	148.5	1,456.8
2-1/16	52	6-1/2	176.0	118.26	195.0	1,913.0	175.5	1,721.7
2/1-4	56	7	201.3	135.27	230.0	2,256.3	207.0	2,030.7
2-3/8	60	7-1/2	225.5	151.53	263.0	2,580.0	236.7	2,322.0
2-1/2	64	8	259.6	174.44	308.0	3,021.5	277.2	2,719.4
2-11/16	68	8-1/2	290.4	195.14	345.0	3,384.5	310.5	3,046.1
2-7/8	72	9	324.5	218.05	380.0	3,727.8	342.0	3,355.0
3	76	9-1/2	364.1	244.66	429.0	4,208.5	386.1	3,787.4
3-5/32	80	10	394.9	265.36	458.0	4,493.0	412.2	4,043.7
3-7/16	88	11	463.1	311.18	540.0	5,297.4	486.0	4,767.7
3-13/16	96	12	562.1	377.71	626.0	6,141.1	563.4	5,527.0

UHMWPE (CORE) + UHMWPE (JACKET)

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPICED MBL	
inch	mm	inch	kg/100m	lb/100ft	ton	kN	ton	kN
13/16	20	2-1/2	24	16.13	31.0	304.1	27.9	273.7
7/8	22	2-3/4	29	19.49	38.6	378.7	34.7	340.8
15/16	24	3	34	22.85	46.0	451.3	41.4	406.2
1-1/32	26	3-1/4	40	26.88	54.0	529.7	48.6	476.7
1-1/8	28	3-1/2	46	30.91	63.0	618.0	56.7	556.2
1-3/16	30	3-3/4	50	33.60	68.0	667.1	61.2	600.4
1-1/4	32	4	59	39.65	74.0	725.9	66.6	653.3
1-11/32	34	4-1/4	66	44.35	84.0	824.0	75.6	741.6
1-7/16	36	4-1/2	72	48.38	93.0	912.3	83.7	821.1
1-1/2	38	4-3/4	79	53.08	102.0	1,000.6	91.8	900.5
1-9/16	40	5	87	58.46	114.0	1,118.3	102.6	1,006.5
1-11/16	42	5-1/4	106	70.96	127.0	1,245.9	114.3	1,121.3
1-3/4	44	5-1/2	111	74.65	135.0	1,324.4	121.5	1,192.0
1-7/8	48	6	138	92.39	165.0	1,618.7	148.5	1,456.8
2-1/16	52	6-1/2	161	107.92	195.0	1,913.0	175.5	1,721.7
2/1-4	56	7	185	124.18	230.0	2,256.3	207.0	2,030.7
2-3/8	60	7-1/2	208	139.70	263.0	2,580.0	236.7	2,322.0
2-1/2	64	8	239	160.40	308.0	3,021.5	277.2	2,719.4
2-11/16	68	8-1/2	268	180.35	345.0	3,384.5	310.5	3,046.1
2-7/8	72	9	300	201.79	380.0	3,727.8	342.0	3,355.0
3	76	9-1/2	337	226.18	429.0	4,208.5	386.1	3,787.4
3-5/32	80	10	367	246.88	458.0	4,493.0	412.2	4,043.7
3-7/16	88	11	430	289.01	540.0	5,297.4	486.0	4,767.7
3-13/16	96	12	521	350.36	626.0	6,141.1	563.4	5,527.0

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

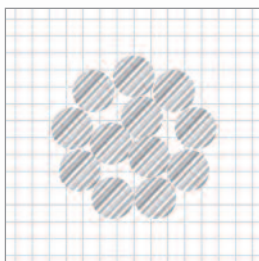
MIRAMAX™

UHMWPE + Polyester Mixed with special coating

Characteristics

- UHMWPE + Polyester Mixed with special coating
- Maximized Abrasion Resistance
- Superior Anti-Fatigue performance
- Easy to handle • High Flexibility

Structure



12-STRAND CONSTRUCTION

Fiber Content

- UHMWPE & High Tenacity Polyester mixed

Applications

- Mooring line
- Tugging line
- Mining / Logging
- H-Bitt line
- Capstan line
- Wire rope replacement
- Fishing / Aquaculture

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/100m	lb/100ft	ton	kN	ton	kN
1/4	6	3/4	2.4	1.61	3.8	37.3	3.4	33.6
5/16	8	1	4.1	2.76	6.0	58.9	5.4	53.0
13/32	10	1-1/4	6.2	4.17	9.7	95.2	8.7	85.7
15/32	12	1-1/2	9.9	6.65	14.9	146.2	13.4	131.6
9/16	14	1-3/4	13.4	9.00	19.8	194.2	17.8	174.8
5/8	16	2	16.7	11.22	24.8	243.3	22.3	219.0
23/32	18	2-1/4	21.7	14.58	31.5	309.0	28.4	278.1
13/16	20	2-1/2	26.6	17.87	37.4	366.9	33.7	330.2
7/8	22	2-3/4	31.8	21.37	45.0	441.5	40.5	397.4
15/16	24	3	37.4	25.13	52.2	512.1	47.0	460.9
1-1/32	26	3-1/4	42.8	28.76	59.4	582.7	53.5	524.4
1-1/8	28	3-1/2	48.5	32.59	66.6	653.3	59.9	588.0
1-3/16	30	3-3/4	54.3	36.49	73.4	720.1	66.1	648.1
1-1/4	32	4	59.5	39.98	79.7	781.9	71.7	703.7
1-7/16	36	4-1/2	71.0	47.71	93.6	918.2	84.2	826.4
1-9/16	40	5	90.8	58.93	114.3	1,121.3	102.9	1,009.2
1-3/4	44	5-1/2	108.6	71.56	136.8	1,342.0	123.1	1,207.8
1-7/8	48	6	126.3	84.87	161.1	1,580.4	145.0	1,422.4
2-1/16	52	6-1/2	148.2	98.91	185.4	1,818.8	166.9	1,636.9
2-1/4	56	7	170.1	114.30	212.4	2,083.6	191.2	1,875.2
2-3/8	60	7-1/2	203.5	122.77	226.8	2,224.9	204.1	2,002.4
2-1/2	64	8	229.6	140.31	253.8	2,489.8	228.4	2,240.8
2-11/16	68	8-1/2	258.9	158.52	284.4	2,790.0	256.0	2,511.0
2-7/8	72	9	282.9	178.14	313.2	3,072.5	281.9	2,765.3
3	76	9-1/2	313.1	198.50	348.3	3,416.8	313.5	3,075.1
3-5/32	80	10	360.1	219.53	379.8	3,725.8	341.8	3,353.2

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

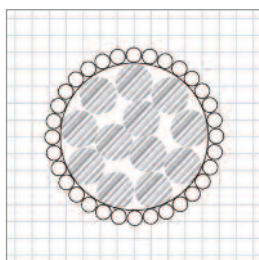
PLUSLINE NYLON

The New Type of Double Braided Nylon

Characteristics

- Specific gravity : 1.14 (non floating)
- Melting point : 215°C
- High elasticity and high strength
- Kink/Torque free
- Excellent Performance as Mooring Winchline

Structure



32-STRAND NY JACKET OUTSIDE &
12-STRAND NY ROPE INSIDE

Fiber Content

- Nylon
- Nylon

Applications

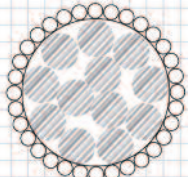
- Winch line
- Mooring line

Dia		Circ.	Weight		UNSPLICED MBL		SPLICED MBL	LDBF
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	ton
1-9/16	40	5	204	411	47.4	465.0	42.7	36.3
1-3/4	44	5-1/2	240	484	55.6	545.4	50.0	42.5
1-7/8	48	6	283	571	65.3	640.6	58.8	50.0
2	50	6-1/4	299	603	69.4	680.8	62.5	53.1
2-1/16	52	6-1/2	325	655	75.0	735.8	67.5	57.4
2-1/4	56	7	379	764	87.0	853.5	78.3	66.6
2-3/8	60	7-1/2	436	879	100.0	981.0	90.0	76.5
2-1/2	64	8	496	1,000	110.8	1,086.9	99.7	84.8
2-9/16	65	8-1/8	507	1,022	114.2	1,120.3	102.8	87.4
2-11/16	68	8-1/2	556	1,121	123.2	1,208.6	110.9	94.2
2-3/4	70	8-3/4	590	1,189	130.6	1,281.2	117.5	99.9
2-7/8	72	9	625	1,260	136.3	1,337.1	122.7	104.3
2-31/32	75	9-3/8	677	1,365	147.9	1,450.9	133.1	113.1
3	76	9-1/2	695	1,401	151.0	1,481.3	135.9	115.5
3-5/32	80	10	769	1,550	167.3	1,641.2	150.6	128.0
3-5/16	84	10-1/2	848	1,709	179.3	1,758.9	161.4	137.2
3-3/8	85	10-5/8	865	1,744	183.6	1,801.1	165.2	140.5
3-7/16	88	11	928	1,871	195.0	1,913.0	175.5	149.2
3-9/16	90	11-1/4	970	1,955	204.0	2,001.2	183.6	156.1
3-3/4	95	11-7/8	1,069	2,155	224.4	2,201.4	202.0	171.7
4	100	12-1/2	1,188	2,395	249.9	2,451.5	224.9	191.2

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

Structure



32-STRAND NY JACKET OUTSIDE &
12-STRAND NY ROPE INSIDE

Fiber Content

- Nylon
- Nylon

Characteristics

- Specific gravity : 1.14 (non floating)
- Melting point : 215°C
- High elasticity and high strength
- Excellent shock absorption
- Kink/Torque free
- Maintains excellent flexibility over service life

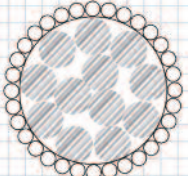
Applications

- Towing
- Ship mooring & anchoring
- Especially ideal for shock loading

NYLON DOUBLE BRAIDED

Dia		Circ.	Weight		UNSPLICED MBL		SPLICED MBL	LDBF
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	ton
1-9/16	40	5	210	423	39.0	382.6	35.1	29.8
1-3/4	44	5-1/2	256	516	47.0	461.1	42.3	36.0
1-7/8	48	6	306	617	57.0	559.2	51.3	43.6
2	50	6-1/4	332	669	61.8	606.3	55.6	47.3
2-1/16	52	6-1/2	358	722	66.0	647.5	59.4	50.5
2-1/4	56	7	408	822	76.0	745.6	68.4	58.1
2-3/8	60	7-1/2	464	935	87.0	853.5	78.3	66.6
2-1/2	64	8	521	1,050	98.0	961.4	88.2	75.7
2-9/16	65	8-1/8	537	1,083	101.0	990.8	90.9	77.3
2-11/16	68	8-1/2	589	1,187	110.0	1,079.1	99.0	84.2
2-3/4	70	8-3/4	624	1,258	116.5	1,142.9	104.9	89.1
2-7/8	72	9	660	1,330	122.0	1,196.8	109.8	93.3
2-31/32	75	9-3/8	716	1,443	132.3	1,297.9	119.1	101.2
3	76	9-1/2	744	1,500	136.0	1,334.2	122.4	104.0
3-5/32	80	10	824	1,661	150.0	1,471.5	135.0	114.8
3-5/16	84	10-1/2	909	1,832	165.0	1,618.7	148.5	126.2
3-3/8	85	10-5/8	931	1,877	168.9	1,656.9	152.0	129.2
3-7/16	88	11	991	1,998	180.0	1,765.8	162.0	137.7
3-9/16	90	11-1/4	1,037	2,090	188.2	1,846.2	169.4	144.0
3-13/16	96	12	1,180	2,379	214.1	2,100.3	192.7	163.8
4-1/8	104	13	1,385	2,792	251.2	2,464.3	226.1	192.2

Structure



32-STRAND PS JACKET OUTSIDE &
12-STRAND PS ROPE INSIDE

Fiber Content

- POLYESTER
- POLYESTER

Characteristics

- Specific gravity : 1.38 (non floating)
- Melting point : 260°C
- Low stretch & high strength
- Excellent wet strength
- Wet strength equals dry strength
- Torque free
- Maintains excellent flexibility over service life

Applications

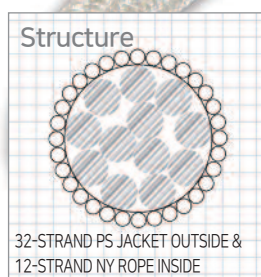
- Towing
- Ship mooring & anchoring
- Deep water mooring

POLYESTER DOUBLE BRAIDED

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	255	515	34.4	337.5	31.0	303.8
1-3/4	44	5-1/2	310	625	41.0	402.2	36.9	362.0
1-7/8	48	6	369	744	46.2	453.2	41.6	407.9
2	50	6-1/4	400	806	50.1	491.5	45.1	442.4
2-1/16	52	6-1/2	444	895	55.6	545.4	50.0	490.9
2-1/4	56	7	515	1,038	64.2	659.8	57.8	566.8
2-3/8	60	7-1/2	588	1,186	73.0	716.1	65.7	644.5
2-1/2	64	8	669	1,351	82.2	806.4	74.0	725.8
2-9/16	65	8-1/8	690	1,391	84.7	830.9	76.2	747.8
2-11/16	68	8-1/2	796	1,605	97.3	954.5	87.6	859.1
2-3/4	70	8-3/4	844	1,701	103.1	1,011.4	92.8	910.3
2-7/8	72	9	893	1,800	107.2	1,051.6	96.5	946.4
2-31/32	75	9-3/8	969	1,953	116.3	1,140.9	104.7	1,026.8
3	76	9-1/2	995	2,006	119.4	1,171.3	107.5	1,054.2
3-5/32	80	10	1,116	2,250	129.0	1,265.5	116.1	1,139.0
3-5/16	84	10-1/2	1,230	2,480	142.2	1,395.0	128.0	1,255.5
3-3/8	85	10-5/8	1,259	2,538	145.6	1,428.3	131.0	1,285.5
3-7/16	88	11	1,339	2,700	154.1	1,511.7	138.7	1,360.5
3-9/16	90	11-1/4	1,401	2,824	161.1	1,580.4	145.0	1,422.4
3-13/16	96	12	1,562	3,150	178.1	1,747.2	160.3	1,572.5
4-1/8	104	13	1,829	3,688	202.8	1,989.5	182.5	1,790.6

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)



Fiber Content

- Nylon
- POLYESTER

Characteristics

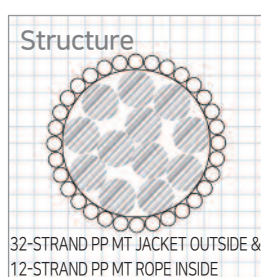
- Specific gravity :
1.21 (Non-Floating)
- Melting Point : 215°C / 260°C
- High Elasticity and
high strength
- Excellent shock absorption
- Kink / Torque free
- Maintains excellent flexibility
over service life

Applications

- Ship Mooring &
Anchoring

NYLON/POLYESTER DOUBLE BRAIDED

Dia		Circ.	Weight		UNSPLICED MBL		SPLICED MBL	LDBF
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	ton
1-9/16	40	5	232	468	39.0	382.6	35.1	29.8
1-3/4	44	5-1/2	274	552	47.0	461.1	42.3	36.0
1-7/8	48	6	331	667	57.0	559.2	51.3	43.6
2	50	6-1/4	359	724	61.8	606.3	55.6	47.3
2-1/16	52	6-1/2	388	782	66.0	647.5	59.4	50.5
2/1-4	56	7	460	927	76.0	745.6	68.4	58.1
2-3/8	60	7-1/2	510	1,028	87.0	853.5	78.3	66.6
2-1/2	64	8	580	1,169	98.0	961.4	88.2	75.7
2-9/16	65	8-1/8	606	1,222	101.0	990.8	90.9	77.3
2-11/16	68	8-1/2	663	1,337	110.0	1,084.0	99.0	84.5
2-3/4	70	8-3/4	703	1,417	116.5	1,142.9	104.9	89.1
2-7/8	72	9	744	1,500	122.0	1,196.8	109.8	93.3
2-31/32	75	9-3/8	811	1,635	132.3	1,297.9	119.1	101.2
3	76	9-1/2	833	1,679	136.0	1,334.2	122.4	104.0
3-5/32	80	10	940	1,895	150.0	1,471.5	135.0	114.8
3-5/16	84	10-1/2	1,036	2,088	165.0	1,621.6	148.5	126.5
3-3/8	85	10-5/8	1,040	2,097	168.9	1,656.9	152.0	129.2
3-7/16	88	11	1,116	2,250	180.0	1,765.8	162.0	137.7
3-9/16	90	11-1/4	1,180	2,379	188.2	1,846.2	169.4	144.0
3-13/16	96	12	1,327	2,675	214.1	2,100.3	192.7	163.8
4-1/8	104	13	1,580	3,185	251.2	2,464.3	226.1	192.2



Fiber Content

- PP MULTI
- PP MULTI

Characteristics

- Specific gravity :
0.9 (Floating)
- Melting Point : 165°C
- Excellent shock absorption
- Kink / Torque free
- Maintains excellent flexibility
over service life

Application

- Ship Mooring &
Anchoring

PP MULTI DOUBLE BRAIDED

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	165	333	23.0	225.6	20.7	203.1
1-3/4	44	5-1/2	198	399	28.0	274.7	25.2	247.2
1-7/8	48	6	236	476	33.0	323.7	29.7	291.4
2	50	6-1/4	257	518	35.0	343.4	31.5	309.0
2-1/16	52	6-1/2	277	558	38.0	372.8	34.2	335.5
2/1-4	56	7	321	647	43.0	421.8	38.7	379.6
2-3/8	60	7-1/2	370	746	50.0	490.5	45.0	441.5
2-1/2	64	8	425	857	56.0	549.4	50.4	494.4
2-9/16	65	8-1/8	439	885	58.0	569.0	52.2	512.1
2-11/16	68	8-1/2	480	968	63.0	618.0	56.7	556.2
2-3/4	70	8-3/4	505	1,018	67.0	657.3	60.3	591.5
2-7/8	72	9	534	1,076	70.0	686.7	63.0	618.0
2-31/32	75	9-3/8	577	1,163	78.0	765.2	70.2	688.7
3	76	9-1/2	592	1,193	80.0	784.8	72.0	706.3
3-5/32	80	10	658	1,326	87.0	853.5	78.3	768.1
3-5/16	84	10-1/2	725	1,462	96.0	941.8	86.4	847.6
3-3/8	85	10-5/8	739	1,490	97.0	951.6	87.3	856.4
3-7/16	88	11	800	1,613	104.0	1,020.2	93.6	918.2
3-9/16	90	11-1/4	837	1,687	109.0	1,069.3	98.1	962.4
3-13/16	96	12	939	1,893	124.0	1,216.4	111.6	1,094.8
4-1/8	104	13	1,140	2,298	145.0	1,422.5	130.5	1,280.2

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

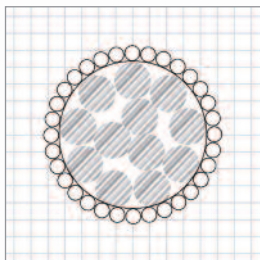
TERALON™

The New Type of Double Braided Winchline

Characteristics

- Low Gravity / Floating Type
- Maximizing Abrasion Resistance with HMPE Jacket
- Low Elongation / Kink Free
- Excellent Performance as Mooring Winchline

Structure



32-STRAND JACKET OUTSIDE &
12-STRAND HIGH TENACITY PP INSIDE

Fiber Content

- High Tenacity Polypropylene
- HMPE
- Polyester

Applications

- Winch line
- Mooring line



High Tenacity PP (Core) + HMPE(Jacket)

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-7/8	48	6	251	506	48.0	471	43.2	423.9
2-1/16	52	6-1/2	272	548	56.0	549	50.4	494.1
2-1/8	54	6-3/4	303	611	61.0	598	54.9	538.2
2-1/4	56	7	324	653	65.0	638	58.5	574.2
2-3/8	60	7-1/2	370	746	75.0	736	67.5	662.4
2-1/2	64	8	413	833	86.0	844	77.4	759.6
2-11/16	68	8-1/2	453	913	95.0	932	85.5	838.8
2-7/8	72	9	503	1,014	106.0	1,040	95.4	936.0
3	76	9-1/2	565	1,139	115.0	1,128	103.5	1015.2
3-5/32	80	10	660	1,330	130.0	1,275	117.0	1147.5
3-5/16	84	10-1/2	746	1,504	144.0	1,413	129.6	1271.7

High Tenacity PP (Core) + Polyester(Jacket)

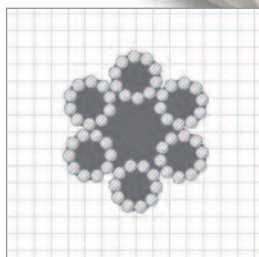
Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-7/8	48	6	265	534	48.0	471	43.2	423.9
2-1/16	52	6-1/2	300	605	56.0	549	50.4	494.1
2-1/8	54	6-3/4	330	665	61.0	598	54.9	538.2
2-1/4	56	7	365	736	65.0	638	58.5	574.2
2-3/8	60	7-1/2	400	806	75.0	736	67.5	662.4
2-1/2	64	8	446	899	86.0	844	77.4	759.6
2-11/16	68	8-1/2	500	1,008	95.0	932	85.5	838.8
2-7/8	72	9	561	1,131	106.0	1,040	95.4	936.0
3	76	9-1/2	625	1,260	115.0	1,128	103.5	1015.2
3-5/32	80	10	720	1,451	130.0	1,275	117.0	1147.5
3-5/16	84	10-1/2	797	1,607	144.0	1,413	129.6	1271.7

· ±5% tolerance according to ISO 2307

· LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

MEGALON™ (TYPE-A)

Structure



6-STRAND CONSTRUCTION

Fiber Content

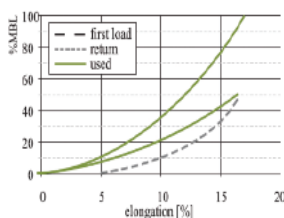
- High Performance Nylon Monofilament
- High Performance Nylon Multifilament

Characteristics

- Easy to run on mooring winch
- Excellent durability
- Very high transversal strength
- Excellent abrasion resistance
- Excellent UV resistance
- Usable in low temperature
- Good chemical resistance

Applications

- Winch line
- Mooring line
- Anchor line
- Other industrial heavy-duty use



Item	Transversal Strength
Polyester	19.80 kp/mm ²
Nylon	34.50 kp/mm ²
Polypropylene	20.40 kp/mm ²
Megalon	41.70 kp/mm ²

Condition : various ropes have same breaking force (at about 40,000 kgf)

Dia		Circ.	Weight		UNSPLICED MBL		SPLICED MBL	LDBF
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	ton
1-9/16	40	5	210	423	37.0	363.0	33.3	28.3
1-3/4	44	5-1/2	250	504	46.0	451.0	41.4	35.2
1-7/8	48	6	295	596	53.0	520.0	47.7	40.5
2-1/16	52	6-1/2	327	660	60.0	589.0	54.0	45.9
2-1/4	56	7	400	806	69.5	682.0	62.6	53.2
2-3/8	60	7-1/2	432	870	76.0	746.0	68.4	58.1
2-1/2	64	8	490	988	87.0	854.0	78.3	66.6
2-11/16	68	8-1/2	560	1,128	99.0	972.0	89.1	75.7
2-3/4	70	8-3/4	620	1,250	108.0	1,060.0	97.2	82.6
2-7/8	72	9	656	1,322	114.0	1,122.0	102.6	87.2
3-1/13	78	9-3/4	727	1,466	126.0	1,237.0	113.4	96.4
3-5/16	84	10-1/2	850	1,713	147.0	1,443.0	132.3	112.5
3-9/16	90	11-1/4	1,009	2,034	173.0	1,698.0	155.7	132.3
3-13/16	96	12	1,170	2,358	200.0	1,963.0	180.0	153.0

• ± 5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Marine Equipment Guidelines 4 (MEG4)

MEGALON™ (TYPE-B)

Dia		Circ.	Weight		UNSPLICED MBL		SPLICED MBL	LDBF
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	ton
1-9/16	40	5	200	403	35.2	346	31.7	26.9
1-3/4	44	5-1/2	238	480	43.7	429	39.3	33.4
1-7/8	48	6	280	564	50.4	495	45.4	38.6
2-1/16	52	5-1/2	311	627	57.0	560	51.3	43.6
2-1/4	56	7	380	766	66.0	648	59.4	50.5
2-3/8	60	7-1/2	410	827	72.2	709	65.0	55.2
2-1/2	64	8	466	939	82.7	812	74.4	63.3
2-11/16	68	8-1/2	532	1,072	94.1	924	84.7	72.0
2-3/4	70	8-3/4	589	1,187	102.6	1,007	92.3	78.5
2-7/8	72	9	623	1,256	108.3	1,063	97.5	82.8
3-1/13	78	9-3/4	691	1,393	119.7	1,175	107.7	91.6
3-5/16	84	10-1/2	808	1,629	139.7	1,372	125.7	106.9
3-9/16	90	11-1/4	959	1,933	164.4	1,614	148.0	125.8
3-13/16	96	12	1,112	2,242	190.0	1,866	171.0	145.4

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)



ASB LINE UP

Reduces the recoil energy released at rope break as well as risk of snapback- triggered accidents



UHMWPE 12, 32 STRAND ROPE



PP+PS MIXED 12 STRAND ROPE



ASB breaking test video



Anti Snap Back Line up

Safety for your crew

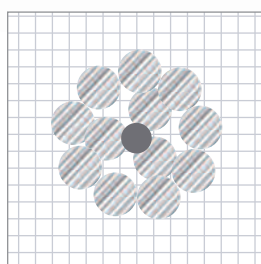
ASB Rope (is) . . .

- Enables the rope to get more slowly broken compared to other general fiber ropes
- Reduces the recoil of rope and the "Snapback" zone by inserting a core rope
- Not influencing its basic performance in use
- Floats, perfectly suitable for mooring application
- Wet strength equals dry strength

TERACORE ASB

High tenacity Polyolefin yarn & Polyester mixed

Structure



12-STRAND & CORE CONSTRUCTION

Fiber Content

- High Tenacity Polyolefin & Polyester Mixed
- Core Rope

Applications

- Mooring and Tie-up line
- Mooring pendants
- Tug assist line

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	181	365	35	344	32	309.6
1-3/4	44	5-1/2	214	431	42	412	38	370.8
1-25/32	45	5-5/8	222	448	44	432	40	388.8
1-7/8	48	6	250	504	50	491	45	441.9
2	50	6-1/4	269	542	53	520	48	468.0
2-1/16	52	6-1/2	290.5	586	58	570	52	513.0
2-5/32	55	6-7/8	322.5	650	61	599	55	539.1
2-1/4	56	7	332.5	670	67	658	60	592.2
2-3/8	60	7-1/2	370.5	747	76	746	68	671.4
2-1/2	64	8	442.5	892	88	864	79	777.6
2-9/16	65	8-1/8	454.5	916	89	874	80	786.6
2-11/16	68	8-1/2	492.5	993	97	952	87	856.8
2-3/4	70	8-3/4	518.5	1,045	103	1,011	93	909.9
2-7/8	72	9	545.5	1,100	110	1,080	99	972.0
2-31/32	75	9-3/8	587.5	1,184	118	1,159	106	1,043.1
3-5/32	80	10	656.5	1,323	131	1,286	118	1,157.4
3-3/8	85	10-5/8	742	1,496	146	1,434	131	1,290.6
3-7/16	88	11	790	1,593	157	1,542	141	1,387.8
3-9/16	90	11-1/4	822	1,657	164	1,610	148	1,449.0
3-3/4	95	11-7/8	919	1,853	184	1,807	166	1,626.3
3-13/16	96	12	935	1,885	187	1,836	168	1,652.4
4	100	12-1/2	1,015	2,046	204	2,003	184	1,802.7
4-1/8	104	13	1,105	2,228	220	2,160	198	1,944.0
4-3/20	105	13-1/8	1,121	2,260	224	2,200	202	1,980.0
4-5/16	110	13-3/4	1,217	2,453	244	2,396	220	2,156.4

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

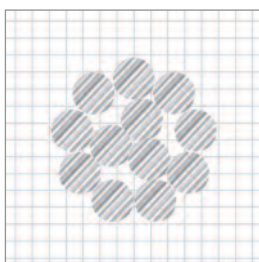
TERACORE

High tenacity Polyolefin & Polyester mixed

Value Proposition

- Higher strength at much lighter weight
- The weight for a given strength is even lighter than any other conventional fiber ropes
- Wet and dry strength are equal
- The fatigue life is comparable to pure polyester
- Excellent in chemical resistance and rot/mildew resistance
- Superior in abrasion resistance to Megacore
- Good UV resistance
- Superior Flexibility

Structure



12-STRAND CONSTRUCTION

Fiber Content

- High tenacity Polyolefin & Polyester Mixed

Characteristics

- Color of Rope : White color
- Gravity : < 1.0 (floating type)
- Melting Point : 165°C/260°C

Applications

- Mooring and Tie-up line
- Mooring pendants
- Tug assist line

Dia		Circ.	Weight		UNSPliced MBL		LDBF, SPliced MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	170	343	35.0	344.0	31.5	309.6
1-3/4	44	5-1/2	203	409	42.0	412.0	37.8	370.8
1-25/32	45	5-5/8	211	426	44.0	432.0	39.6	388.8
1-7/8	48	6	239	482	50.0	491.0	45.0	441.9
2	50	6-1/4	258	520	53.0	520.0	47.7	468.0
2-1/16	52	6-1/2	277	558	58.0	570.0	52.2	513.0
2-5/32	55	6-7/8	309	623	61.0	599.0	54.9	539.1
2-1/4	56	7	319	643	67.0	658.0	60.3	592.2
2-3/8	60	7-1/2	357	720	76.0	746.0	68.4	671.4
2-1/2	64	8	416	839	88.0	864.0	79.2	777.6
2-9/16	65	8-1/8	428	863	89.0	874.0	80.1	786.6
2-11/16	68	8-1/2	466	939	97.0	952.0	87.3	856.8
2-3/4	70	8-3/4	492	992	103.0	1,011.0	92.7	909.9
2-7/8	72	9	519	1,046	110.0	1,080.0	99.0	972.0
2-31/32	75	9-3/8	561	1,132	118.0	1,159.0	106.2	1,043.1
3-5/32	80	10	630	1,270	131.0	1,286.0	117.9	1,157.4
3-3/8	85	10-5/8	708	1,428	146.0	1,434.0	131.4	1,290.6
3-7/16	88	11	756	1,524	157.0	1,542.0	141.3	1,387.8
3-9/16	90	11-1/4	788	1,589	164.0	1,610.0	147.6	1,449.0
3-3/4	95	11-7/8	885	1,785	184.0	1,807.0	165.6	1,626.3
3-13/16	96	12	901	1,816	187.0	1,836.0	168.3	1,652.4
4	100	12-1/2	981	1,978	204.0	2,003.0	183.6	1,802.7
4-1/8	104	13	1,062	2,141	220.0	2,160.0	198.0	1,944.0
4-3/20	105	13-1/8	1,078	2,175	224.0	2,200.0	201.6	1,980.0
4-5/16	110	13-3/4	1,174	2,367	244.0	2,396.0	219.6	2,156.4

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

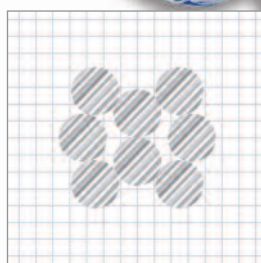
MEGACORE®

High tenacity Polyolefin & Polyester mixed

Value Proposition

- Higher strength at much lighter weight
- The weight for a given strength is even lighter than any other fiber ropes
- Wet and dry strength are equal
- Superior Flexibility
- The fatigue life is comparable to pure polyester
- Excellent in chemical resistance and rot/mildew resistance
- Good abrasion resistance and good UV resistance

Structure



8-STRAND CONSTRUCTION

Fiber Content

- High tenacity Polyolefin & Polyester Mixed

Characteristics

- Color of Rope
: White color
- Gravity
: < 1.0 (floating type)
- Melting Point
: 165°C/260°C

Applications

- Mooring and Tie-up line
- Mooring pendants
- Tug assist line

Dia		Circ.	Weight		UNSPliced MBL		LDBF, SPliced MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	167	337	36.7	360	33.0	324.0
1-3/4	44	5-1/2	198	399	44.0	431	39.6	388.5
1-25/32	45	5-5/8	208	419	46.0	451	41.4	406.1
1-7/8	48	6	236	476	50.5	495	45.5	445.9
2	50	6-1/4	255	514	54.5	534	49.1	481.2
2-1/16	52	6-1/2	272	548	58.8	576	52.9	519.1
2-5/32	55	6-7/8	305	615	66.0	647	59.4	582.7
2-1/4	56	7	316	637	67.7	664	60.9	597.7
2-3/8	60	7-1/2	358	722	77.5	760	69.8	684.2
2-1/2	64	8	405	816	87.0	853	78.3	768.1
2-9/16	65	8-1/8	417	841	89.7	880	80.7	792.0
2-11/16	68	8-1/2	456	919	98.1	961	88.3	864.9
2-3/4	70	8-3/4	483	974	103.6	1,015	93.2	913.5
2-7/8	72	9	510	1,028	109.0	1,068	98.1	961.2
2-31/32	75	9-3/8	552	1,113	118.0	1,157	106.2	1,041.8
3	76	9-1/2	564	1,137	120.0	1,178	109.0	1,060.2
3-5/32	80	10	625	1,260	132.0	1,294	118.8	1,164.6
3-5/16	84	10-1/2	678	1,367	144.0	1,412	129.6	1,270.8
3-3/8	85	10-5/8	705	1,421	146.0	1,432	131.4	1,289.0
3-7/16	88	11	752	1,516	156.7	1,536	141.0	1,382.4
3-9/16	90	11-1/4	786	1,584	163.5	1,602	147.2	1,441.8
3-3/4	95	11-7/8	876	1,766	184.5	1,809	166.1	1,629.0
3-13/16	96	12	894	1,802	191.0	1,872	171.9	1,684.8
4	100	12-1/2	967	1,949	202.0	1,980	181.8	1,782.0
4-1/8	104	13	1,045	2,107	218.0	2,136	196.2	1,922.4
4-3/20	105	13-1/8	1,065	2,147	222.2	2,179	200.0	1,961.8
4-5/16	110	13-3/4	1,168	2,355	243.3	2,384	219.0	2,145.6
4-7/16	112	14	1,211	2,441	252.2	2,474	227.0	2,226.7
4-9/16	115	14-3/8	1,276	2,572	265.0	2,599	238.5	2,339.7
4-3/4	120	15	1,389	2,800	288.5	2,830	259.7	2,547.2

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

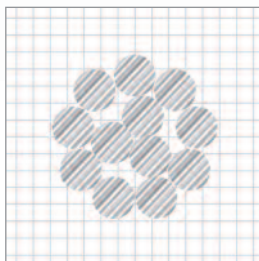
TERAFLEX

Polyester & High tenacity Polypropylene mixed

Characteristics

- Excellent wear life
- High strength, Low stretch
- Non-Rotating

Structure



12-STRAND CONSTRUCTION

Fiber Content

- High Tenacity Polypropylene & Polyester Mixed

Applications

- Tug assist lines
- Mooring and pendant lines
- Barge tie-up lines

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	182	367	34.0	333.4	30.6	299.7
1-3/4	44	5-1/2	218	440	40.0	392.3	36.0	352.8
1-7/8	48	6	264	531	47.0	460.9	42.3	414.9
2	50	6-1/4	286	577	50.9	499.0	45.8	449.1
2-1/16	52	6-1/2	300	605	54.0	529.6	48.6	477.0
2-5/32	55	6-7/8	345	695	60.3	592.0	54.3	532.8
2-1/4	56	7	357	720	64.0	627.6	57.6	565.2
2-3/8	60	7-1/2	401	808	72.0	706.1	64.8	636.3
2-1/2	64	8	452	911	81.0	794.3	72.9	715.5
2-9/16	65	8-1/8	466	939	83.0	815.0	74.7	733.5
2-3/4	70	8-3/4	541	1,091	96.0	942.0	86.4	847.8
2-7/8	72	9	567	1,144	102.0	1,000.3	91.8	900.9
2-31/32	75	9-3/8	615	1,240	110.0	1,080.0	99.0	972.0
3-5/32	80	10	696	1,404	124.0	1,216.0	111.6	1,094.4
3-3/8	85	10-5/8	786	1,584	139.0	1,364.0	125.1	1,227.6
3-7/16	88	11	840	1,693	148.0	1,451.4	133.2	1,306.3
3-9/16	90	11-1/4	879	1,772	154.0	1,512.0	138.6	1,360.8
3-13/16	96	12	1,000	2,016	175.0	1,716.2	157.5	1,544.6
4-1/8	104	13	1,164	2,345	202.0	1,980.9	181.8	1,782.8
4-7/16	112	14	1,345	2,712	233.0	2,284.9	209.7	2,056.4
4-3/4	120	15	1,549	3,122	266.0	2,608.6	239.4	2,347.7

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

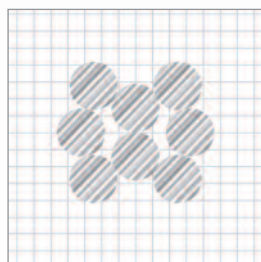
MEGAFLEX®

Polyester & High tenacity Polypropylene mixed

Characteristics

- High strength & Wear resistance
- Lower weight than polyester rope
- Low working elongation
- Superior flexibility
- Non-Torque construction

Structure



8-STRAND CONSTRUCTION

Fiber Content

- High Tenacity Polypropylene & Polyester Mixed

Applications

- Mooring and Tie-up lines
- Mooring pendants
- Tug assist lines

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	182	367	32.0	314.0	28.8	282.6
1-3/4	44	5-1/2	218	440	38.0	373.0	34.2	335.7
1-25/32	45	5-5/8	228	460	39.7	389.0	35.7	350.1
1-7/8	48	6	260	524	44.0	432.0	39.6	388.8
2	50	6-1/4	282	568	47.7	468.0	42.9	421.2
2-1/16	52	6-1/2	298	601	52.0	510.0	46.8	459.0
2-5/32	55	6-7/8	345	695	58.1	570.0	52.3	513.0
2-1/4	56	7	355	715	59.0	579.0	53.1	521.1
2-3/8	60	7-1/2	400	806	67.0	657.0	60.3	591.3
2-1/2	64	8	447	902	76.0	746.0	68.4	671.4
2-9/16	65	8-1/8	461	929	78.3	768.0	70.5	691.2
2-11/16	68	8-1/2	505	1,018	85.6	840.0	77.0	756.0
2-3/4	70	8-3/4	535	1,078	90.8	891.0	81.7	801.9
2-7/8	72	9	567	1,144	95.0	932.0	85.5	838.8
2-31/32	75	9-3/8	615	1,240	103.0	1,011.0	92.7	909.9
3-5/32	80	10	696	1,404	115.0	1,127.8	103.5	1,015.0
3-3/8	85	10-5/8	786	1,584	129.8	1,274.0	116.8	1,146.6
3-7/16	88	11	836	1,686	140.0	1,372.9	126.0	1,235.6
3-9/16	90	11-1/4	874	1,762	146.4	1,437.0	131.8	1,293.3
3-3/4	95	11-7/8	974	1,963	163.1	1,601.0	146.8	1,440.9
3-13/16	96	12	1,000	2,016	166.0	1,627.9	149.4	1,465.1
4	100	12-1/2	1,085	2,187	180.1	1,768.0	162.1	1,591.2
4-1/8	104	13	1,172	2,362	191.0	1,873.1	171.9	1,685.8
4-3/20	105	13-1/8	1,195	2,409	194.6	1,910.0	175.1	1,719.0
4-5/16	110	13-3/4	1,312	2,645	213.5	2,096.0	192.2	1,886.4
4-7/16	112	14	1,345	2,712	219.0	2,147.6	197.1	1,932.8
4-9/16	115	14-3/8	1,418	2,859	230.8	2,266.0	207.7	2,039.4
4-3/4	120	15	1,548	3,121	252.0	2,471.3	226.8	2,224.12

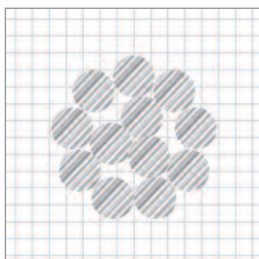
• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

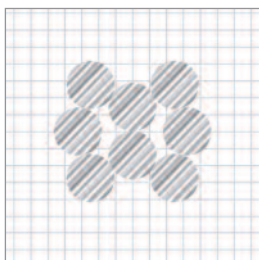
8 S/T, 12 S/T T-FLEX

High Tenacity Polyolefin & Polyester Mixed

Structure



12-STRAND CONSTRUCTION



8-STRAND CONSTRUCTION

Fiber Content

 High Tenacity Polyolefin & Polyester Mixed

Characteristics

- Maximizing strength & Abrasion resistance under the optimal mixture ratio of raw materials
- Easy to handle
- High flexibility
- Non-Floating

Dia		Circ.	Weight		UNSPliced MBL		LDBF, SPliced MBL	
inch	mm	inch	kg/200m	lb/600ft	MBL(ton)	kN	MBL(ton)	kN
1-9/16	40	5	206	415	44.5	436.5	40.1	392.9
1-3/4	44	5-1/2	250	504	53.3	522.9	48.0	470.6
1-7/8	48	6	298	601	63.0	618.0	56.7	556.2
2-1/16	52	6-1/2	350	706	73.5	721.0	66.2	648.9
2-1/4	56	7	406	818	84.7	830.9	76.2	747.8
2-3/8	60	7-1/2	466	939	96.9	950.6	87.2	855.5
2-1/2	64	8	532	1,072	109.2	1,071.3	98.3	964.1
2-11/16	68	8-1/2	598	1,205	123.2	1,208.6	110.9	1,087.7
2-7/8	72	9	670	1,351	137.3	1,346.9	123.6	1,212.2
3	76	9-1/2	748	1,508	153.0	1,500.9	137.7	1,350.8
3-5/32	80	10	830	1,673	167.6	1,644.2	150.8	1,479.7
3-5/16	84	10-1/2	916	1,847	184.7	1,811.9	166.2	1,630.7
3-7/16	88	11	1,004	2,024	202.2	1,983.6	182.0	1,785.2
3-10/16	92	11-1/2	1,098	2,213	220.9	2,167.0	198.8	1,950.3
3-13/16	96	12	1,192	2,403	238.9	2,343.6	215.0	2,109.2
4	100	12-1/2	1,294	2,609	259.2	2,542.8	233.3	2,288.5
4-1/8	104	13	1,392	2,806	277.8	2,725.2	250.0	2,452.7
4-7/16	112	14	1,622	3,270	321.0	3,149.0	288.9	2,834.1
4-3/4	120	15	1,864	3,758	365.3	3,583.6	328.8	3,225.2

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

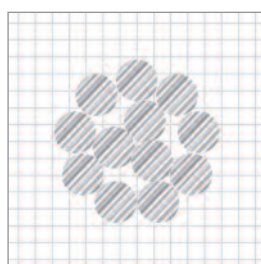
8 S/T, 12 S/T ENDUWINFLEX

High Tenacity Polyolefin & Polyester Mixed

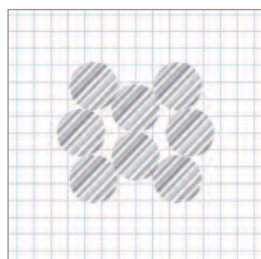
Characteristics

- High tenacity polyolefin & High tenacity Polyester, Remarkable abrasion resistance
- Superior Flexibility & Easy to handle
- Excellent wear life
- Superior to stability in shape
- Good UV resistance
- No Water Absorption

Structure



12-STRAND CONSTRUCTION



8-STRAND CONSTRUCTION

Fiber Content

- High Tenacity Polyolefin & Polyester Mixed

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	inch	kg/200m	lb/600ft	MBL(ton)	kN	MBL(ton)	kN
7/8	22	2-3/4	55	111	10.9	106.9	9.8	96.2
15/16	24	3	66	133	13.0	127.5	11.7	114.8
1-1/32	26	3-1/4	77	155	15.3	150.1	13.8	135.1
1-1/8	28	3-1/2	89	179	17.8	174.6	16.0	157.2
1-3/16	30	3-3/4	102	206	20.5	201.1	18.5	181.8
1-1/4	32	4	116	234	23.4	229.6	21.1	206.6
1-11/32	34	4-1/4	131	264	26.5	260.0	23.9	234.0
1-7/16	36	4-1/2	147	296	29.8	292.3	26.8	263.1
1-1/2	38	4-3/4	164	331	33.3	326.7	30.0	294.0
1-9/16	40	5	182	367	37.0	363.0	33.3	326.7
1-11/16	42	5-1/4	201	405	40.7	399.3	36.6	359.3
1-3/4	44	5-1/2	218	439	44.7	438.5	40.2	394.7
1-7/8	48	6	264	532	53.3	522.9	48.0	470.6
2-1/16	52	6-1/2	300	605	62.5	613.1	56.3	551.8
2-5/32	55	6-7/8	345	695	69.9	685.7	62.9	617.1
2-1/4	56	7	357	720	72.5	711.2	65.3	640.1
2-3/8	60	7-1/2	401	808	83.2	816.2	74.9	734.6
2-1/2	64	8	452	911	94.7	929.2	85.2	836.1
2-9/16	65	8-1/8	466	939	97.6	957.5	87.8	861.7
2-11/16	68	8-1/2	510	1,028	106.9	1,048.7	96.2	943.8
2-3/4	70	8-3/4	541	1,091	113.2	1,110.5	101.9	999.4
2-7/8	72	9	567	1,143	119.8	1,175.2	107.8	1,057.7
2-31/32	75	9-3/8	615	1,240	129.9	1,274.3	116.9	1,146.9
3-5/32	80	10	696	1,403	147.9	1,450.9	133.1	1,305.8
3-3/8	85	10-5/8	786	1,584	166.9	1,637.3	150.2	1,473.6
3-9/16	90	11-1/4	881	1,776	187.1	1,835.5	168.4	1,651.9
3-3/4	95	11-7/8	982	1,980	208.4	2,044.4	187.6	1,840.0
4	100	12-1/2	1,088	2,193	230.9	2,265.1	207.8	2,038.6
4-3/20	105	13-1/8	1,200	2,419	254.5	2,496.6	229.1	2,247.0
4-5/16	110	13-3/4	1,317	2,655	279.3	2,739.9	251.4	2,465.9
4-7/16	112	14	1,368	2,750	290.0	2,844.9	261.0	2,560.4

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

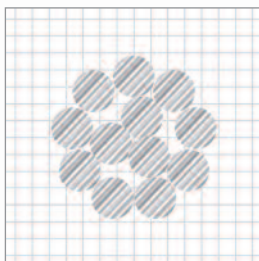
8 S/T, 12 S/T ENDUWIN

High Tenacity Polyolefin

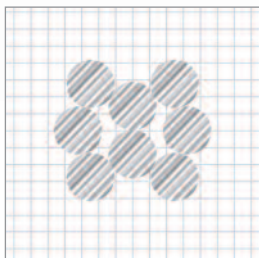
Characteristics

- High tenacity polyolefin, Remarkable abrasion resistance
- Superior Flexibility & Easy to handle
- Excellent wear life
- Superior to stability in shape
- Good UV resistance
- No Water Absorption

Structure



12-STRAND CONSTRUCTION



8-STRAND CONSTRUCTION

Fiber Content

 High Tenacity Polyolefin

Applications

- Fishing / Aquaculture
- Mooring / Tie-up lines
- Floating Tow line

Dia		Circ.	Weight		UNSPliced MBL		LDBF, SPliced MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	160	323	35.2	345.3	31.7	310.8
1-3/4	44	5-1/2	194	390	42.1	413.0	37.9	371.7
1-25/32	45	5-5/8	203	409	44.0	431.6	39.6	388.4
1-7/8	48	6	231	465	49.3	483.6	44.4	435.2
2	50	6-1/4	251	506	53.4	523.9	48.1	471.5
2-1/16	52	6-1/2	271	545	57.1	560.2	51.4	504.2
2-5/32	55	6-7/8	303	611	63.8	625.9	57.4	563.3
2/1-4	56	7	314	633	66.2	649.4	59.6	584.5
2-3/8	60	7-1/2	360	726	76.0	745.6	68.4	671.0
2-1/2	64	8	410	826	86.4	847.6	77.8	762.8
2-9/16	65	8-1/8	423	853	89.1	874.1	80.2	786.7
2-11/16	68	8-1/2	463	933	103.3	1,013.4	93.0	912.1
2-3/4	70	8-3/4	491	990	106.3	1,042.8	95.7	938.5
2-7/8	72	9	519	1,046	109.4	1,073.2	98.5	965.9
2-31/32	75	8-3/4	563	1,135	118.7	1,164.4	106.8	1,048.0
3	76	9-1/2	578	1,165	121.9	1,195.8	109.7	1,076.2
3-5/32	80	10	641	1,291	135.1	1,325.3	121.6	1,192.8
3-5/16	84	10-1/2	706	1,423	149.0	1,461.7	134.1	1,315.5
3-3/8	85	10-5/8	723	1,457	152.5	1,496.0	137.3	1,346.4
3-7/16	88	11	775	1,562	163.4	1,603.0	147.1	1,442.7
3-9/16	90	11-1/4	811	1,634	170.9	1,676.5	153.8	1,508.9
3-3/4	95	11-7/8	904	1,822	190.4	1,876.8	171.4	1,689.1
3-13/16	96	12	922	1,859	194.5	1,908.0	175.1	1,717.2
4	100	12-1/2	1,001	2,017	211.0	2,069.0	189.9	1,862.1
4-1/8	104	13	1,082	2,182	228.3	2,239.6	205.5	2,015.6
4-3/20	105	13-1/8	1,103	2,224	232.7	2,282.8	209.4	2,054.5
4-5/16	110	13-3/4	1,211	2,441	255.3	2,504.5	229.8	2,254.1
4-7/16	112	14	1,255	2,531	264.7	2,596.7	238.2	2,337.0
4-9/16	115	14-3/8	1,323	2,667	279.0	2,737.0	251.1	2,463.3
4-3/4	120	15	1,441	2,905	303.7	2,979.3	273.3	2,681.4

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

8 S/T, 12 S/T

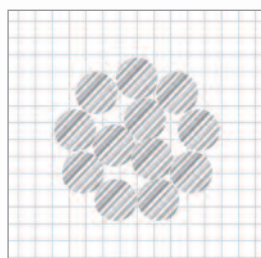
NEW MEGA PP

High Tenacity Polyolefin

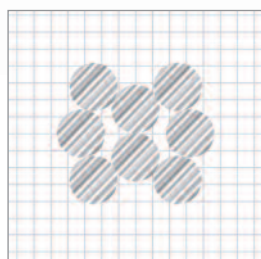
Characteristics

- Excellent breaking strength
- Remarkable abrasion resistance
- Superior to stability in shape
- No water absorption
- Easy to handle

Structure



12-STRAND CONSTRUCTION



8-STRAND CONSTRUCTION

Fiber Content

High Tenacity Polyolefin

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPliced MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	121.6	245.3	26.4	259.0	23.8	233.1
1-11/16	42	5-1/4	134.2	270.7	28.9	284.0	26.0	255.6
1-3/4	44	5-1/2	147.4	297.3	31.6	310.0	28.4	279.0
1-25/32	45	5-5/8	154.3	311.3	32.8	321.6	29.5	289.4
1-7/8	48	6	175.6	354.2	37.0	363.0	33.3	326.7
2	50	6-1/4	190.5	384.3	39.9	391.0	35.9	351.9
2-1/16	52	6-1/2	206.0	415.5	42.8	419.9	38.5	377.9
2-5/32	55	6-7/8	232.0	468.4	48.3	473.8	43.5	426.4
2-1/4	56	7	242.5	489.2	50.5	495.4	45.5	445.7
2-3/8	60	7-1/2	278.5	561.8	58.0	569.0	52.2	512.1
2-1/2	64	8	317.5	640.5	66.0	647.5	59.4	582.8
2-9/16	65	8-1/8	333.7	673.1	69.4	681.3	62.5	613.2
2-11/16	68	8-1/2	372.0	750.4	77.5	760.3	69.8	684.3
2-3/4	70	8-3/4	385.6	777.8	80.3	787.6	72.2	708.8
2-7/8	72	9	398.8	804.5	83.0	814.2	74.7	732.8
2-31/32	75	9-3/8	431.9	871.2	89.9	881.5	80.9	793.3
3-5/32	80	10	490.5	989.5	102.0	1,000.6	91.8	900.5
3-3/8	85	10-5/8	554.8	1,119.2	115.4	1,132.3	103.9	1,019.1
3-7/16	88	11	595.7	1,201.7	124.0	1,216.4	111.6	1,094.8
3-9/16	90	11-1/4	619.4	1,249.5	129.0	1,265.2	116.1	1,138.7
3-3/4	95	11-7/8	690.2	1,392.3	143.7	1,409.6	129.3	1,268.6
3-13/16	96	12	700.7	1,413.5	145.9	1,431.3	131.3	1,288.2
4	100	12-1/2	760.3	1,533.7	157.3	1,552.9	141.6	1,397.6
4-1/8	104	13	822.3	1,658.8	171.2	1,679.5	154.1	1,511.6
4-3/20	105	13-1/8	838.2	1,690.8	174.5	1,711.7	157.0	1,540.5
4-5/16	110	13-3/4	920.0	1,855.9	191.5	1,878.6	172.4	1,690.7
4-7/16	112	14	953.8	1,924.0	198.5	1,947.3	178.7	1,752.6
4-9/16	115	14-3/8	1,005.6	2,028.5	209.3	2,053.0	188.4	1,847.7
4-3/4	120	15	1,094.9	2,208.7	227.9	2,235.4	205.1	2,011.9

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

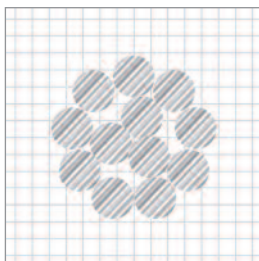
TERA PP

High strength floating rope

Characteristics

- High strength floating rope
- Good UV resistance
- Flexible Non-rotating rope
- Superior wear life

Structure



12-STRAND CONSTRUCTION

Fiber Content

- High Tenacity Polypropylene

Applications

- Mooring lines
- Floating tow lines
- Tie-Up lines

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	158	319	30.0	294.0	27.0	264.6
1-3/4	44	5-1/2	195	392	36.0	353.0	32.4	317.7
1-7/8	48	6	229	462	43.0	422.0	38.7	379.8
2	50	6-1/4	248	500	46.6	457.0	41.9	411.3
2-1/16	52	6-1/2	268	541	48.5	476.0	43.7	428.4
2-5/32	55	6-7/8	299	603	53.8	528.0	48.4	475.2
2-1/4	56	7	312	629	55.5	545.0	50.0	490.5
2-3/8	60	7-1/2	359	724	65.0	638.0	58.5	574.2
2-1/2	64	8	407	821	72.0	707.0	64.8	636.3
2-9/16	65	8-1/8	420	847	74.0	726.0	66.6	653.4
2-3/4	70	8-3/4	487	982	85.0	834.0	76.5	750.6
2-7/8	72	9	515	1,039	91.0	893.0	81.9	803.7
2-31/32	75	9-3/8	559	1,127	98.0	962.0	88.2	865.8
3-5/32	80	10	638	1,286	111.0	1,089.0	99.9	981.0
3-3/8	85	10-5/8	720	1,451	125.0	1,227.0	112.5	1,104.3
3-7/16	88	11	772	1,556	135.0	1,324.0	121.5	1,192.5
3-9/16	90	11-1/4	807	1,627	141.0	1,384.0	126.9	1,245.6
3-13/16	96	12	916	1,847	158.0	1,550.0	142.2	1,395.9
4-1/8	104	13	1,071	2,158	185.0	1,815.0	166.5	1,634.4
4-7/16	112	14	1,254	2,528	214.0	2,010.0	192.6	1,809.0
4-3/4	120	15	1,430	2,883	245.0	2,403.0	220.5	2,164.5

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

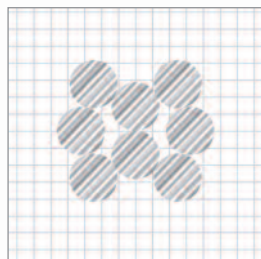
MEGA PP

Higher strength than polypropylene

Characteristics

- Higher strength than polypropylene
- Excellent flex wear resistance
- Floats
- Good UV resistance
- Non-Torque construction

Structure



8-STRAND CONSTRUCTION

Fiber Content

- High Tenacity Polypropylene

Applications

- Floating tow lines
- Mooring and tie-up lines
- Mooring pick-up lines

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	158	319	30.0	294.0	27.0	264.6
1-3/4	44	5-1/2	195	392	36.0	353.0	32.4	317.7
1-25/32	45	5-5/8	204	411	37.6	369.0	33.8	332.1
1-7/8	48	6	229	462	43.0	422.0	38.7	379.8
2	50	6-1/4	248	500	46.6	457.0	41.9	411.3
2-1/16	52	6-1/2	268	541	48.5	476.0	43.7	428.4
2-5/32	55	6-7/8	300	605	54.2	532.0	48.8	478.8
2-1/4	56	7	312	629	55.5	545.0	50.0	490.5
2-3/8	60	7-1/2	359	724	65.0	638.0	58.5	574.2
2-1/2	64	8	407	821	72.0	707.0	64.8	636.3
2-9/16	65	8-1/8	420	847	74.2	728.0	66.8	655.2
2-11/16	68	8-1/2	460	927	81.2	797.0	73.1	717.3
2-3/4	70	8-3/4	487	982	86.0	844.0	77.4	759.6
2-7/8	72	9	515	1,039	91.0	893.0	81.9	803.7
2-31/32	75	9-3/8	559	1,127	98.7	969.0	88.8	872.1
3-5/32	80	10	638	1,286	111.0	1,089.0	99.9	981.0
3-3/8	85	10-5/8	720	1,451	125.3	1,230.0	112.8	1,107.0
3-7/16	88	11	772	1,556	135.0	1,324.0	121.5	1,192.5
3-9/16	90	11-1/4	807	1,627	141.2	1,386.0	127.1	1,247.4
3-3/4	95	11-7/8	899	1,812	157.3	1,544.0	141.6	1,389.6
3-13/16	96	12	916	1,847	158.0	1,550.0	142.2	1,395.9
4	100	12-1/2	994	2,004	171.4	1,683.0	154.3	1,514.7
4-1/8	104	13	1,071	2,158	185.0	1,814.0	166.5	1,635.3
4-3/20	105	13-1/8	1,092	2,201	188.5	1,849.0	169.7	1,665.9
4-5/16	110	13-3/4	1,198	2,415	206.8	2,028.0	186.1	1,827.0
4-7/16	112	14	1,245	2,510	214.0	2,099.0	192.6	1,890.9
4-9/16	115	14-3/8	1,313	2,647	225.6	2,213.0	203.0	1,993.5
4-3/4	120	15	1,430	2,883	245.6	2,409.0	221.0	2,169.9

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

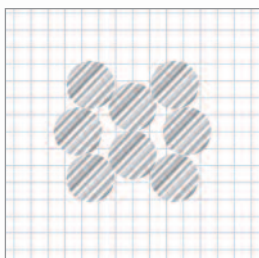
8S/T PP ROPE

Good strength & Float

Characteristics

- Good strength
- Good UV resistance
- Floats
- Non-Torque construction

Structure



8-STRAND CONSTRUCTION

Fiber Content

- Polypropylene

Applications

- Floating tow lines
- Mooring and tie-up lines
- Mooring pick-up lines

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
15/16	24	3	55	111	8.0	78.5	7.2	70.7
1-1/32	26	3-1/4	64	129	9.2	90.3	8.3	81.3
1-1/8	28	3-1/2	74	149	10.6	104.0	9.5	93.7
1-3/16	30	3-3/4	86	173	12.0	117.8	10.8	106.0
1-1/4	32	4	97	196	13.5	132.6	12.2	119.3
1-11/32	34	4-1/4	110	222	15.1	148.2	13.6	133.5
1-7/16	36	4-1/2	122	246	17.0	166.9	15.3	150.2
1-1/2	38	4-3/4	135	272	19.0	186.5	17.1	167.9
1-9/16	40	5	143	288	23.5	230.7	21.2	207.7
1-11/16	42	5-1/4	161	325	26.0	255.3	23.4	229.8
1-25/32	45	5-5/8	184	371	29.5	289.6	26.6	260.7
1-7/8	48	6	208	419	33.0	324.0	29.7	291.6
2	50	6-1/4	226	456	36.0	353.4	32.4	318.2
2-1/16	52	6-1/2	244	492	38.0	373.4	34.2	335.8
2-5/32	55	6-7/8	274	552	43.0	422.2	38.7	380.0
2-3/8	60	7-1/2	326	657	51.0	500.0	45.9	450.7
2-9/16	65	8-1/8	370	746	57.0	559.7	51.3	503.7
2-3/4	70	8-3/4	440	887	68.0	667.7	61.2	600.9
2-7/8	72	9	460	927	72.0	706.9	64.8	636.3
2-31/32	75	9-3/8	508	1,024	79.0	775.7	71.1	698.1
3-5/32	80	10	580	1,169	88.0	864.1	79.2	777.7
3-3/8	85	10-5/8	655	1,320	98.0	962.3	88.2	866.1
3-9/16	90	11-1/4	734	1,480	110.0	1,080.1	99.0	972.1
3-3/4	95	11-7/8	817	1,647	123.0	1,207.7	110.7	1,087.0
4	100	12-1/2	905	1,824	135.0	1,325.6	121.5	1,193.0
4-3/20	105	13-1/8	998	2,012	150.0	1,472.9	135.0	1,325.6
4-5/16	110	13-3/4	1,095	2,207	165.0	1,620.2	148.5	1,458.2
4-9/16	115	14-3/8	1,197	2,413	180.0	1,767.4	162.0	1,590.8
4-3/4	120	15	1,300	2,621	195.0	1,914.7	175.5	1,723.3

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

8 S/T, 12 S/T PP MULTI

Similar touch & appearance to nylon

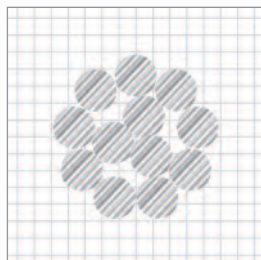
Characteristics

- Similar touch & appearance to nylon
- Good resistance to chemical
- Easy to handle
- Floats (Specific gravity : 0.91)

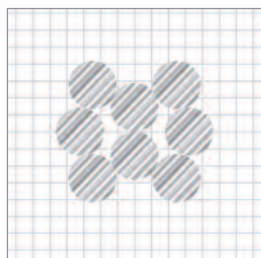
Applications

- Mooring lines
- Floating tow lines
- Tie-up lines

Structure



12-STRAND CONSTRUCTION



8-STRAND CONSTRUCTION

Fiber Content

● PP Multi

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	151	304	20.0	196.0	18.0	176.4
1-3/4	44	5-1/2	185	374	24.0	235.0	21.6	211.5
1-25/32	45	5-5/8	194	391	25.1	246.0	22.6	221.4
1-7/8	48	6	219	442	28.0	274.0	25.2	246.6
2	50	6-1/4	238	480	30.3	297.0	27.3	267.3
2-1/16	52	6-1/2	256	517	33.0	324.0	29.7	291.6
2-5/32	55	6-7/8	286	577	36.9	362.0	33.2	325.8
2-1/4	56	7	298	604	37.0	363.0	33.3	326.7
2-3/8	60	7-1/2	343	691	43.0	422.0	38.7	379.8
2-1/2	64	8	389	784	49.0	481.0	44.1	432.9
2-9/16	65	8-1/8	401	808	50.5	495.0	45.5	445.5
2-11/16	68	8-1/2	439	885	55.2	542.0	49.7	487.8
2-3/4	70	8-3/4	465	937	58.5	574.0	52.7	516.6
2-7/8	72	9	492	991	61.0	599.0	54.9	539.1
2-31/32	75	9-3/8	534	1,076	66.1	649.0	59.5	584.1
3-5/32	80	10	609	1,228	75.0	736.0	67.5	662.4
3-3/8	85	10-5/8	688	1,387	84.6	830.0	76.1	747.0
3-7/16	88	11	736	1,484	90.0	883.0	81.0	794.7
3-9/16	90	11-1/4	770	1,552	94.1	924.0	84.7	831.6
3-3/4	95	11-7/8	858	1,730	104.8	1,029.0	94.3	926.1
3-13/16	96	12	875	1,763	107.0	1,050.0	96.3	945.0
4	100	12-1/2	949	1,913	116.0	1,139.0	104.4	1,025.1
4-1/8	104	13	1,029	2,074	122.0	1,198.0	109.8	1,078.2
4-3/20	105	13-1/8	1,049	2,115	124.3	1,220.0	111.9	1,098.0
4-5/16	110	13-3/4	1,151	2,320	136.4	1,339.0	122.8	1,205.1
4-5/16	112	14	1,196	2,412	141.0	1,385.0	126.9	1,246.1
4-9/16	115	14-3/8	1,261	2,542	148.6	1,459.0	133.7	1,313.1
4-3/4	120	15	1,373	2,768	161.8	1,588.0	145.6	1,429.2

· ±5% tolerance according to ISO 2307

· LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

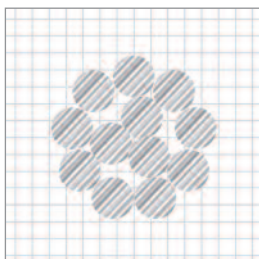
12 S/T NYLON

Superior strength

Characteristics

- Excellent shock mitigation
- Superior strength
- Non-Torquing
- Fast, Easy splicing

Structure



12-STRAND CONSTRUCTION

Fiber Content

● Nylon

Applications

- Anchor lines
- Deep water mooring lines
- Slings
- Mooring pendants

Dia		Circ.	Weight		UNSPLICED		SPLICED MBL	LDBF
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	ton
1-9/16	40	5	198	400	42.0	411.6	37.8	32.1
1-3/4	44	5-1/2	240	484	50.4	493.9	45.3	38.6
1-7/8	48	6	284	572	58.2	570.3	52.3	44.5
2	50	6-1/4	308	621	63.1	618.5	56.8	48.3
2-1/16	52	6-1/2	332	669	67.8	664.4	61.0	51.9
2-5/32	55	6-7/8	372	750	75.8	743.2	68.2	58.0
2-1/4	56	7	400	806	76.8	752.6	69.1	58.8
2-3/8	60	7-1/2	445	898	86.4	846.7	77.7	66.1
2-1/2	64	8	504	1,015	99.0	970.2	89.1	75.7
2-9/16	65	8-1/8	520	1,048	102.0	999.6	91.8	78.0
2-3/4	70	8-3/4	603	1,216	118.2	1,158.3	106.3	90.4
2-7/8	72	9	660	1,330	122.4	1,199.5	110.1	93.6
2-31/32	75	9-3/8	716	1,443	132.7	1,300.6	119.4	101.5
3-5/32	80	10	800	1,613	150.0	1,470.0	135.0	114.8
3-3/8	85	10-5/8	903	1,820	169.2	1,658.1	152.2	129.4
3-7/16	88	11	954	1,922	177.6	1,740.4	159.8	135.9
3-9/16	90	11-1/4	998	2,012	185.7	1,820.4	167.1	142.1
3-13/16	96	12	1,136	2,291	207.6	2,034.4	186.8	158.8
4-1/8	104	13	1,332	2,685	246.0	2,410.8	221.4	188.2
4-7/16	112	14	1,544	3,112	270.0	2,646.0	243.0	206.6
4-3/4	120	15	1,773	3,574	309.8	3,036.4	278.8	237.0

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

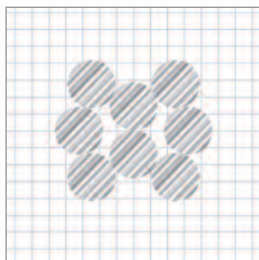
8S/T NYLON

Superior strength

Characteristics

- Well balanced construction
- High strength
- Excellent wear life
- Fast, Easy splicing

Structure



8-STRAND CONSTRUCTION

Fiber Content

● Nylon

Applications

- Mooring lines
- Shock and tow lines
- Mooring pendants
- Anchor lines

Dia		Circ.	Weight		UNSPLICED		SPLICED MBL	LDBF
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	ton
1-9/16	40	5	191	385	42.0	411.6	37.8	32.1
1-3/4	44	5-1/2	234	470	50.4	493.9	45.3	38.6
1-25/32	45	5-5/8	245	494	52.6	516.2	47.4	40.2
1-7/8	48	6	277	558	58.2	570.3	52.3	44.5
2	50	6-1/4	301	607	63.1	618.5	56.8	48.3
2-1/16	52	6-1/2	328	661	67.8	664.4	61.0	51.9
2-5/32	55	6-7/8	367	740	75.8	743.2	68.2	58.0
2-1/4	56	7	380	766	76.8	752.6	69.1	58.8
2-3/8	60	7-1/2	438	883	86.4	846.7	77.7	66.1
2-1/2	64	8	498	1,002	99.0	970.2	89.1	75.7
2-9/16	65	8-1/8	513	1,035	102.0	999.6	91.8	78.0
2-11/16	68	8-1/2	561	1,132	111.6	1,093.6	100.4	85.4
2-3/4	70	8-3/4	596	1,202	118.2	1,158.3	106.3	90.4
2-7/8	72	9	631	1,273	122.4	1,199.5	110.1	93.6
2-31/32	75	9-3/8	683	1,378	132.7	1,300.6	119.4	101.5
3-5/32	80	10	777	1,566	150.0	1,470.0	135.0	114.8
3-3/8	85	10-5/8	875	1,765	169.2	1,658.1	152.2	129.4
3-7/16	88	11	937	1,889	177.6	1,740.4	159.8	135.9
3-9/16	90	11-1/4	980	1,977	185.7	1,820.4	167.1	142.1
3-3/4	95	11-7/8	1,092	2,202	206.8	2,027.4	186.1	158.2
3-13/16	96	12	1,103	2,224	207.6	2,034.4	186.8	158.8
4	100	12-1/2	1,197	2,415	225.2	2,207.3	202.7	172.3
4-1/8	104	13	1,298	2,618	246.0	2,410.8	221.4	188.2
4-3/20	105	13-1/8	1,323	2,669	250.6	2,456.6	225.6	191.7
4-5/16	110	13-3/4	1,452	2,929	264.4	2,591.9	238.0	202.3
4-7/16	112	14	1,505	3,036	270.0	2,646.0	243.0	206.6
4-9/16	115	14-3/8	1,587	3,201	284.6	2,789.4	256.1	217.7
4-3/4	120	15	1,728	3,486	309.8	3,036.4	278.8	237.0

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

12 S/T

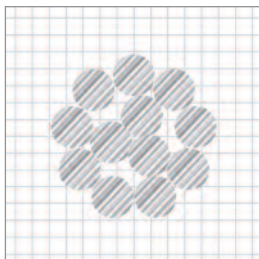
POLYESTER

Non-torquing Non-rotational

Characteristics

- Low stretch
- Non-torquing Non-rotational
- Excellent abrasion resistance
- Fast, Easy splicing

Structure



12-STRAND CONSTRUCTION

Fiber Content

- Polyester

Applications

- Pulling lines
- Deep water mooring lines
- Slings
- Tow lines

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	243	489	34.0	333.0	30.6	299.7
1-3/4	44	5-1/2	294	592	39.0	383.0	35.1	344.7
1-7/8	48	6	350	706	47.0	461.0	42.3	414.9
2	50	6-1/4	380	766	50.9	499.0	45.8	449.1
2-1/16	52	6-1/2	410	824	56.0	549.0	50.4	494.1
2-5/32	55	6-7/8	459	925	62.4	612.0	56.2	550.8
2-1/4	56	7	476	960	64.0	628.0	57.6	565.2
2-3/8	60	7-1/2	546	1,101	76.0	746.0	68.4	671.4
2-1/2	64	8	622	1,254	84.0	824.0	75.6	741.6
2-9/16	65	8-1/8	642	1,294	86.0	844.0	77.4	759.6
2-3/4	70	8-3/4	745	1,502	99.0	972.0	89.1	874.8
2-7/8	72	9	786	1,585	109.0	1,069.0	98.1	962.0
2-31/32	75	9-3/8	853	1,720	118.0	1,158.0	106.2	1,042.0
3-5/32	80	10	970	1,955	133.0	1,304.0	119.7	1,175.4
3-3/8	85	10-5/8	1,095	2,207	150.0	1,472.0	135.0	1,324.8
3-7/16	88	11	1,174	2,366	159.0	1,561.0	143.1	1,404.9
3-9/16	90	11-1/4	1,228	2,475	166.0	1,630.0	149.4	1,467.0
3-13/16	96	12	1,395	2,818	191.0	1,873.0	171.9	1,685.7
4-1/8	104	13	1,640	3,306	221.0	2,167.0	198.9	1,950.0
4-7/16	112	14	1,900	3,830	256.0	2,511.0	230.4	2,259.0
4-3/4	120	15	2,180	4,395	293.0	2,874.0	263.7	2,586.0

• ±5% tolerance according to ISO 2307

• LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

8 S/T

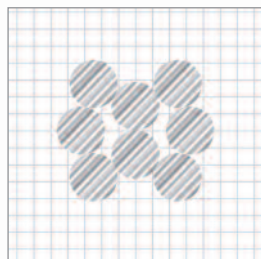
POLYESTER

High Strength and low stretch

Characteristics

- High Strength and low stretch
- Balanced, non-rotational construction
- Excellent wear life
- Fast, Easy splicing

Structure



8-STRAND CONSTRUCTION

Fiber Content

Polyester

Applications

- Mooring and Tie-up lines
- Mooring pendants
- For navy

Dia		Circ.	Weight		UNSPLICED MBL		LDBF, SPLICED MBL	
inch	mm	Inch	kg/200m	lb/600ft	ton	kN	ton	kN
1-9/16	40	5	243	489	32.0	314.0	28.8	282.6
1-3/4	44	5-1/2	294	592	38.0	373.0	34.2	335.7
1-25/32	45	5-5/8	308	621	40.0	392.0	36.0	352.8
1-7/8	48	6	350	706	46.0	451.0	41.4	405.9
2	50	6-1/4	380	766	49.9	490.0	44.9	441.0
2-1/16	52	6-1/2	410	827	54.0	530.0	48.6	477.0
2-5/32	55	6-7/8	459	925	60.4	593.0	54.4	533.7
2-1/4	56	7	476	960	62.0	608.0	55.8	547.2
2-3/8	60	7-1/2	546	1,101	73.0	716.0	65.7	644.4
2-1/2	64	8	622	1,254	83.0	814.0	74.7	733.5
2-9/16	65	8-1/8	642	1,294	85.6	840.0	77.0	756.0
2-11/16	68	8-1/2	703	1,417	93.6	919.0	84.2	827.1
2-3/4	70	8-3/4	745	1,502	99.2	974.0	89.3	876.6
2-7/8	72	9	786	1,585	103.0	1,011.0	92.7	909.9
2-31/32	75	9-3/8	853	1,720	111.7	1,096.0	100.5	986.4
3-5/32	80	10	970	1,955	127.0	1,246.0	114.3	1,122.3
3-3/8	85	10-5/8	1,095	2,207	143.3	1,407.0	129.0	1,266.3
3-7/16	88	11	1,174	2,366	152.0	1,491.0	136.8	1,342.8
3-9/16	90	11-1/4	1,228	2,475	158.9	1,560.0	143.0	1,404.0
3-3/4	95	11-7/8	1,368	2,758	177.0	1,738.0	159.3	1,564.2
3-13/16	96	12	1,398	2,818	181.0	1,775.0	162.9	1,599.3
4	100	12-1/2	1,517	3,058	196.3	1,927.0	176.7	1,734.3
4-1/8	104	13	1,640	3,306	208.0	2,042.0	187.2	1,837.8
4-3/20	105	13-1/8	1,672	3,371	212.0	2,081.0	190.8	1,872.9
4-5/16	110	13-3/4	1,835	3,699	232.6	2,284.0	209.3	2,055.6
4-7/16	112	14	1,900	3,830	243.0	2,383.0	218.7	2,147.4
4-9/16	115	14-3/8	2,003	4,038	256.1	2,514.0	230.5	2,262.6
4-3/4	120	15	2,181	4,397	278.8	2,737.0	250.9	2,463.3

· ±5% tolerance according to ISO 2307

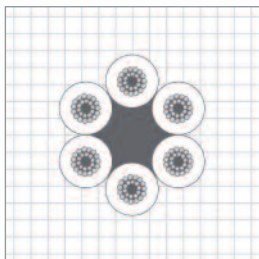
· LDBF=Line Design Break Force according to OCIMF Mooring Equipment Guidelines 4 (MEG4)

COMPOUND ROPE

Characteristics

- Good anti-corrosion
- Easier to set up

Structure



Fiber Content

- Wire Strand
- PP or Kuralon

Applications

- Trawl
- Tie-up lines
- Fishing equipment
- Other industries

Size		Kuralon	PP
Rope Dia	Wire Strand Dia	Wire Strand 1X24	
mm	mm	kg/200m	kg/200m
16	2.00	52	47
18	2.67	73	68
20	3.33	103	92
22	4.00	138	124
24	4.67	179	164
26	5.33	225	210
28	6.00	275	261
30	6.67	333	317
32	7.33	393	376
34	8.00	457	439
36	8.00	483	445
36	8.67	530	511
38	8.00	503	450
38	8.67	550	518
40	8.00	523	460
40	8.67	570	528
42	8.00	543	470
42	8.67	590	536
45	8.00	563	485
45	8.67	610	552
50	8.00	583	505
50	8.67	630	580

Size		PP	
Rope Dia	Wire Strand Dia	Wire Strand 1X12	Wire Strand 1X24
mm	mm	kg/500m	kg/500m
22	3.00	199	223
22	3.33	221	251
22	4.00	273	315
22	4.67	333	391
22	5.33	404	479
24	3.33	241	271
24	4.00	293	335
24	4.67	353	411
24	5.33	424	499
26	4.00	314	356
26	4.67	374	432
26	5.33	445	521
28	4.00	337	379
28	4.67	407	455
28	5.33	468	543
28	6.00	544	641
28	6.67	631	751
30	4.00	361	403
30	4.67	421	479
30	5.33	492	568
30	6.00	568	666
30	6.67	655	775

· ± 5% tolerance according to ISO 2307

3 STRAND ROPE

DONGYANG STANDARD FOR 3S/T ROPE

	PP		ENDUWIN		NYLON		PP MULTI		PS		LEADED ROPE		PS SPUN		MANILA	
Dia (MM)	WEIGHT kg/200m	MBL ton	WEIGHT kg/200m	MBL ton	WEIGHT kg/200m	MBL ton	WEIGHT kg/200m	MBL ton	WEIGHT kg/200m	MBL ton	WEIGHT kg/200m	MBL ton	WEIGHT kg/200m	MBL ton	WEIGHT kg/200m	MBL ton
4	1.5	0.21	1.5	0.23	1.95	0.33	1.5	0.12					2.0	0.15		
5	2.3	0.32	2.3	0.35	3.0	0.6	2.3	0.32			3.5	0.20	3.0	0.23		
6	3.5	0.60	3.5	0.65	4.5	1.2	3.5	0.55	5.5	0.7	5.3	0.28	4.5	0.33	5.0	0.29
7	4.8	0.75	4.8	0.86					7.5	0.9					7.0	0.37
8	6.2	1.06	6.2	1.27	7.8	1.7	6.2	0.96	9.6	1.3	9.5	0.47	7.8	0.60	9.5	0.55
9	7.8	1.19	7.8	1.52	9.8	1.9	7.8	1.19	12.3	1.5	12.0	0.59	10.0	0.70	10.1	0.62
10	9.6	1.56	9.6	1.79	12.1	2.4	9.6	1.43	15.2	1.9	15.0	0.72	12.0	0.95	12.8	0.71
12	13.9	2.21	13.9	2.52	17.6	3.4	13.9	2.03	22.0	2.8	21.0	1.01	17.6	1.37	19.0	1.07
14	18.8	3.05	18.8	3.36	23.9	4.5	18.8	2.79	29.6	3.8	28.5	1.34	24.0	1.83	26.3	1.46
16	24.2	3.78	24.2	4.26	30.8	5.8	24.2	3.50	39.0	5.0	37.5	1.72	31.0	2.34	33.8	2.03
18	30.8	4.82	30.8	5.26	38.7	7.2	30.8	4.45	49.0	6.2	48.0	2.14	39.0	2.92	41.3	2.44
20	38.0	5.80	38.0	6.30	48.0	9.5	38.0	5.37	61.0	7.4	59.0	2.61	48.0	3.55	53.0	3.25
22	46.0	6.90	46.0	7.70	57.9	12.2	46.0	6.50	74.0	8.6	71.0	3.11	59.0	4.24	63.8	3.66
24	54.7	8.10	54.7	9.10	69.5	14.3	54.7	7.60	87.0	10.0	82.5	3.66	70.0	5.00	75.0	4.57
26	63.8	9.40	63.8	10.5	81.3	15.8	63.8	8.80	103.0	12.0	99.0	4.24	82.0	5.80	94.0	5.33
28	73.6	10.70	73.6	11.9	95.3	17.8	73.6	10.1	119.0	15.0	115.0	4.87	95.0	6.64	106.0	6.10
30	85.2	12.20	85.2	13.1	108.0	20.0	85.2	11.4	136.0	17.0	127.5	5.54	108.0	7.60	125.0	6.90
32	96.7	13.50	96.7	14.8	123.0	22.0	96.7	12.8	155.0	19.5	142.5	6.30	124.0	8.51	140.0	7.90
34	110.0	14.40	110.0	16.6	139.0	24.5	110.0	14.4	175.0	21.0	163.0	7.00	140.0	9.53	159.0	8.80
36	122.0	16.90	122.0	18.6	155.0	28.0	122.0	16.1	196.0	24.0	172.5	7.80	157.0	10.60	178.0	9.65
38	135.0	17.70	135.0	20.4	174.0	31.0	135.0	17.7	221.0	26.0	203.0	8.60	175.0	11.70	199.0	10.80
40	152.0	20.50	152.0	22.2	191.0	34.0	152.0	19.4	243.0	30.0	225.0	9.70	194.0	12.90	220.0	12.00
42	167.0	21.40	167.0	24.6	213.0	37.0	167.0	21.4	268.0	33.0	248.0	10.70	213.0	14.10	243.0	13.10
45	191.0	24.90	191.0	27.8	244.0	42.0	191.0	24.4	308.0	38.0	285.0	12.50	245.0	16.10	278.0	15.00
48	218.0	28.60	218.0	31.1	277.0	47.0	218.0	27.2	350.0	43.0	324.0	13.80	278.0	18.00	317.0	16.83
50	236.0	29.30	236.0	33.6	302.0	50.0	236.0	29.3	380.0	47.0	352.0	14.70	302.0	19.50	345.0	18.22
52	256.0	33.10	256.0	36.2	328.0	55.0	256.0	31.5	410.0	52.0	381.0	15.80	322.0	21.10		
55	286.0	37.00	286.0	39.9	367.0	60.0	286.0	34.9	458.0	57.0	426.0	17.60	355.0	23.30		
60	340.0	43.20	340.0	47.0	438.0	70.0	340.0	41.2	546.0	71.0	507.0	20.70	432.0	27.40		
65	392.0	50.70	392.0	54.9	513.0	81.0	392.0	48.1	640.0	82.0	595.0	24.00	508.0	31.80		
70	455.0	58.80	455.0	63.8	596.0	93.0	455.0	55.8	741.0	93.0	691.0	27.60	589.0	36.50		
75	522.0	67.50	522.0	72.8	683.0	106.0	522.0	63.5	853.0	105.0	793.0	31.30	675.0	42.00		
80	594.0	75.60	594.0	82.9	777.0	122.0	594.0	72.0	970.0	124.0			767.0	46.80		

· ± 5% tolerance according to ISO 2307

Repair-Kit



REPAIR KIT Instructional video



Contents

Products	Purpose
DYU 1000	Coating Material
DYU 600	Liquid Hardener
Braid Rope	For surface repair
Paint Brush	Painting coating mixture
Wooden Stick	For Mixing DYU 1000 & DYU 600
Scissors & Tape	Need for repair process

How to use Repair-Kit

1. First, locate and mark two opposite points 50mm from the part externally damaged in both directions.
2. A rope in the repair kit shall be tightly fixed on the surface by using a tape at 50mm length away from the marked points to seize for repair in both sides.
3. The rope shall be tightly wound in sequential order from the point marked in the left. It's important to keep the seizing very hard during work. This work should be done by the marked part in the opposite side. After winding, the end of the rope shall be cut in proper length considering putting it inside the seized part.
4. The rope shall come out from the seized part after putting it in the loop and pulling the rope in the opposite side. After making the whole seized part hard enough, please cut rope ends in both sides.
5. The last work is for coating. To complete the repair, DYU 1000 and DYU 600 shall be mixed in the percentage of 60% : 40% respectively. If the mixed material shows high viscosity, please paint it on the repair part by using a brush contained in the repair kit. Especially, it is advisable to apply in a thick even layer over the repair part including the existing rope surface.
6. It takes 24 hours to dry up in natural dry conditions.



NEW PROTECTOR

UHMWPE Fiber / PP+PS Mixed Yarn



NEW PROTECTOR (UHMWPE)

- Protects a rope and reduces its abrasion in use
- Longer life time in service
- Improves abrasion resistance through special coating
- Velcro type available



NEW PROTECTOR (PP+PS Mixed Yarn)

- Protects a rope and reduces its abrasion in use
- Longer life time in service
- High performance at a reasonable price



Abrasion Test Result	
Protector Type	Cycle(times)
Polytector	1,698
Netech	2,683
New Protector(HMPE)	38,596

SIZE	ROPE SIZE	COLOR		APPLICABLE
		HMPE	PP+PS MIX	
P1	14~18mm	Grey Yellow Blue	MIX	ROPE BODY & EYE
P2	20~28mm			
P3	30~42mm			
P4	44~70mm			
P5	71~80mm			

CUSTOMER SERVICE

BEFORE and ON DELIVERY

- Meeting with buyers and users before/on delivery
- Training crew members for installation and management upon request



AFTER DELIVERY

- DONGYANG can get onboard for rope check-ups on a regular basis if required. After checking all of the mooring lines in service, a check-up report will be provided as a part of our service that enables to use our ropes more safely and even longer.



MOORING TAILS

Made of various materials, especially Nylon, Polyester, UHMWPE yarns which have higher elasticity than other normal materials.

- Tails can maintain the ship to respond more favorably during various working conditions.



NYLON TAIL ROPE



PP+PS MIXED TAIL ROPE

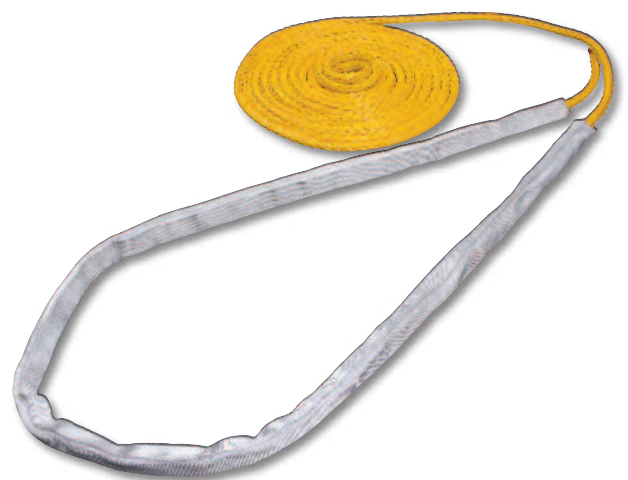
Material	Construction	Type
Nylon	8-Strand 12-Strand	Eye to Eye Endless
Teracore/Megacore Teraflex/Megaflex (PP+PS mixed)	8-Strand 12-Strand	

MOORING TAILS

POLYTECTOR

Velcro Type Rope/Eye Protector

- Made from polyester texture, DONGYANG polytector has excellent cut resistance and doesn't easily split or crack when bunched or compressed.



Material : POLYESTER For Eye • For Line

Rope Dia	Width	Rope Dia	Width	Length
Under 40mm	200mm	71 ~ 80mm	400mm	1m ~ 20m
41 ~ 50mm	250mm	81 ~ 90mm	450mm	
51 ~ 60mm	300mm	91 ~ 100mm	500mm	
61 ~ 70mm	350mm	101 ~ 110mm	550mm	

NETECH

Net Type Rope/Eye Protector

- Helps a rope's service life longer by protecting a rope exposed to sharp & rough surfaces of bollards, cleats, chocks, fairleads or other deck equipment. It provides an excellent abrasion resistance and enables users to see if there's damage on the rope thanks to its net type structure.



Material : 2 Types (UHMWPE / POLYESTER)

For Eye

Size	Rope Size	
	Dia(mm)	Cir(inch)
Small	Under 50mm	Under 6"
Medium	50 ~ 70mm	6" up to 9"
Large	70 ~ 80mm	9" up to 10"

For Line

Size	Rope Size	
	Dia(mm)	Cir(inch)
Small	Under 50mm	Under 6"
Medium	50 ~ 70mm	6" up to 9"
Large	70 ~ 80mm	9" up to 10"

For Rope

- It depends on each rope size & length. Need for more detailed information to quote.

ROPE TOTAL SOLUTION

TERAMAX



- CHARACTERISTIC
- 12-Strand braided rope made of UHMWPE (Ultra High Molecular Weight Polyethylene) Yarns with special coating
 - Light weight (1/7 of wire rope weight), stronger than wire rope
 - Excellent resistance to UV (Ultra Violet) and chemicals
 - No difference in tensile strength wet or dry
 - Strongest fiber rope in the world
 - Specific gravity : 0.97 (Floating)
 - Easy to splice & handle
 - Kink/Torque free
 - Superior wear life
 - Superior abrasion resistance

10p

SOFT SHACKLE

- CHARACTERISTIC
- Mandal shackle or Tonsberg Link is heavy and hard to handle.
Soft Shackle made of UHMWPE is stronger than others in weight and easy to handle.
- Stronger than other steel-made Shackles in weight
 - Easy to handle
 - High flexibility / Light weight
 - No damage to mooring rope and ship



MOORING TAILS



- For UHMWPE Rope, it is recommended that you use a tail rope together since elongation is less than 4~5%



Nylon Rope : Recommended MBL is 137% of Mooring Line MBL
PP + PS mixed rope : Recommended MBL is 125 % of Mooring Line MBL

41p



ROPE TOTAL SOLUTION

Towing Rope



ROPE PROTECTOR

- Use of rope protector
- Depending on whether or not a rope protector is used, the difference in damage directly applied to a rope is very large and has a huge influence on its durability.



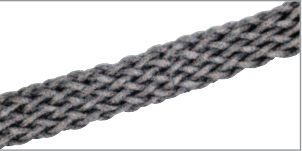
- Without rope protector
- Abrasion exposed to rope surface
 - Directly leads to large damage



- With rope protector
- No direct contact to rope surface
 - Only small damage
 - High strength and resistance to abrasion



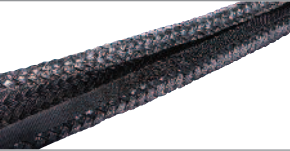
POLYECTOR



NETECH



NEW PROTECTOR TUBE



NEW PROTECTOR VELCRO

42, 47p

Maintenance of Repair-Kit



- If you are using Teramax Plus or other Double Braid winchline and the rope surface has external damage, you could repair the rope with DONGYANG Repair Kit. It contains everything needed for repair.



Contents

Product	Purpose	Product	Purpose
DYU 1000	Coating Material	Paint Brush	Painting coating mixture
DYU 600	Liquid Hardener	Wooden Stick	For Mixing DYU 1000 & DYU 600
Braid Rope	For surface repair	Scissors & Tape	Need for repair process

40p



Handling Storage Guideline

1. Please check if there's an internal or external damage prior to starting to use. A lifetime of fiber ropes could be affected by a variety of factors such as 'working environments' 'how long it's used', 'how to use' and 'load condition' etc. So, it is important to choose and use a proper rope suitable for application.
2. You are required to be cautious when carrying a rope.
3. A rope shall be used considering working conditions in conformance with safety working loads (hereinafter S.W.L.). It is very dangerous for people to work near the ropes loading. If possible, do not let workers close to the rope and especially be careful of snap back that might happen when a rope breaks.
4. When it comes to 3 strand rope, it shall be untied in a correct direction not to cause a kink, technically S-Twist rope in a clockwise direction and Z-Twist in a counter-clockwise.
5. If a rope is exposed to sunlight in the long term, it will lead to life shortening and decline in strength. Moreover, nylon rope could be discolored under UV rays.
6. A fiber rope should be stored under clean, cool and arid environments. Especially, now that nylon rope is very vulnerable to water, humid and chemicals, it should be more carefully handled and stored.
7. Works for eyes spliced shall be done in an accurate method.
8. Please do not make a rope reach to a sharp or rough surface.
9. A rope shall not be close to chemicals. If it is stained with oil, paint, thinner or other chemicals, please remove them from the rope as clean as it can be.
10. Breaking strength does not mean S.W.L.
 - ※ The life expectancy of fiber ropes depends on how to handle & store a rope. When using it, the afore-mentioned guideline must be observed. Otherwise, some of damage such as strength decline, lower performance or life shortening etc. could occur.



DONGYANG MFG. CO., LTD.

Dasan-ro 147, Saha-gu, Busan

Sales Department T. 051-260-2600 F. 051-260-2666

Trade Department T. 051-260-2703~7 F. 051-260-2777

www.ropes.co.kr

E. sales@ropes.co.kr

E. overseas@ropes.co.kr

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