



Axiom
Cordages Limited



- Dan Strong
(POLYPROPYLENE POLYSTEEL)
- Marina Maxi
(COMBINATION DUEL FIBER
POLYPROYLENE POLYESTER)
- Super Flex
(POLYPROYLENE – POLYESTER
MIX)
- Maxi Flex
(INNER POLYPROYLENE OUTER
POLYESTER)
- Aoxi Flex – 100% Polyester
(POLYDACRON POLYESTER)
- Polyamide
(100% NYLON)
- PP Multifilament Rope
(POLYPROYLENE MULTI)
- Polyethylene Flexi
(HDPE /PE/COLOURED)
- Slings
(TAILS – PP / PES / NYLON)





Axiom
Cordages Limited

Company Profile

Most corporate houses or marketing organizations believe that the formula to a product being successful is good quality, competitive pricing, the best after sales service and a little bit of luck. We, at Axiom believe that in addition to the above, a total confidence in the product, a close and personal bond with our customers and keeping to ones commitments is the key to success. It's this foundation, which has made Axiom ropes stand up against major giants back home and to get noticed in the international market.

The production facility is situated close to the financial capital of India, Mumbai, formerly known as Bombay, which is one of the most strategic and important ports in South Asia. Easy access to port facilities and proper infrastructure facilitates faster and timely delivery.

With every new generation come new ideas, fresh talents and a young and vibrant work force. We are one of the new generations of rope manufacturers using latest modern machinery, a fresh marketing strategy and a different outlook towards its product and customer satisfaction. Axiom ropes are manufactured, using the latest hi-tech and state-of-the-art machinery and technical knowhow from Europe. Axiom ropes are available in multi-strand construction and is made from high grade co-polymers making it one of the safest, strongest and most reliable braided and twisted ropes in its category. The use of a fully equipped R & D facility and testing laboratory is a perfect compliment to the high standards of the manufacturing process and equipments in use. This ensures that Axiom ropes meets all international standards and is more than eligible to pass the strict test parameters of inspecting agencies like Bureau Veritas, DNV and Lloyds register of shipping, SGS, Germanischer Lloyds etc.

Axiom Cordages is one of the largest exporter of Synthetic Ropes in the country, exports Ropes made using Hi-Tech and state-of-the-art machinery and technical knowhow from proven people who has vast and long number of years experience in the field of manufacturing Ropes. The Ropes acquired have manufacturing facilities called as the 'Generation Next', taking into consideration the changing needs as per progress of time with fully equipped Testing and R&D facilities. The Ropes supplied are all recognized and passed under the eye of internationally recognized agencies like Germanischer Lloyds.

Axiom Cordages once committed to order ensures prompt delivery with best quality as per International Standards and fulfilling other conditions as per the buyer's order at most competitive price.



Polypropylene Polysteel



Product Description

Dan-strong Ropes combine a higher breaking strength, dimensional stability and economical price. It has been produced keeping in mind its various applications in fishing, shipping, used as mooring ropes and heavy industrial handling. To add further strength 4-strand ropes are made. While 8-strand ropes are mainly used for mooring applications in shipping and other heavy load applications. 3 & 4 strand ropes are used for Air sea rescue lines, Blasting Mats, Buoy line, Car tow ropes, Control ropes, Crap rope, Ducting draw cords, Foot ropes, Ladder ropes, General Industrial & marine use, Head lines, Mooring line etc. While 8 & 12 strand ropes are used for Shipping industry, Heavy industries (material handling), Ship Mooring Lines, Deep Sea Towing, Target Tow Ropes, Oceanographic Mooring, Harbour Towing, Supply Vessel, Supply Mooring Systems, Lifting Slings etc.

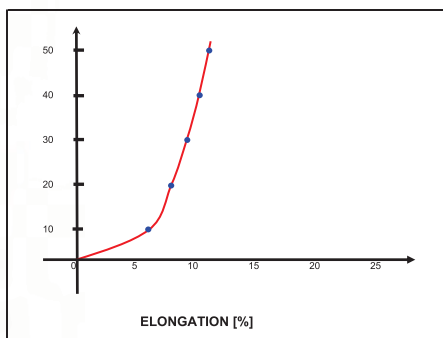
DAN-STRONG



Axiom
Cordages Limited

Polypropylene Polysteel

PERCENTAGE ELONGATION (STRETCH) OF POLYPROPYLENE ROPE



Characteristics

- Higher breaking strength
- Abrasion resistance
- Excellent shock absorption
- Better grip
- Minimal elongation
- Durable and ultraviolet stabilized
- Excellent shape retention
- Fully balanced and torque free

Properties

- Material: Polypropylene
- Construction: 3-4-8-12 Strand
- Colour: Any Colour
- Marker: Any Colour
- Specific Gravity: 0.91
- Melting Point: 165 °c
- U.V Resistance: Stabilised (as per customer request)
- Dry & Wet conditions: Identical Wet & Dry Strengths
- Abrasion: Resistance Good
- Classification: GL & Mills
- Shock Absorption: Very Good
- Elongation: Moderate 18% At Break
- Water Absorption: None
- Floating Ropes
- Chemical Resistance
- Acids: Excellent
- Alkalis: Excellent
- Oil/Gas: Very Good



• GREEN 101



• GREEN 102



• GREEN 103



• GREEN 104



• ORANGE 105



• ORANGE 106



• RED 1



• BLUE 1



• TIGER 1



• GRAY 1



• BLACK 1



• YELLOW 1

PP- DAN-STRONG / POLYPROPYLENE POLYSTEEL 3 STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.
6	1/4	3/4	3.67	3.34	8.07	7.34
8	5/16	1	6.60	6.00	14.52	13.20
10	3/8	1-1/4	10.00	9.09	22.00	20.00
12	1/2	1-1/2	14.50	13.18	31.90	29.00
14	9/16	1-3/4	20.00	18.18	44.00	40.00
16	5/8	2	25.50	23.18	56.10	51.00
18	3/4	2-1/4	32.50	29.55	71.50	65.00
20	13/16	2-1/2	40.00	36.36	88.00	80.00
22	7/8	2-3/4	48.50	44.09	106.70	97.00
24	1	3	57.00	51.82	125.40	114.00
26	1-1/13	3-1/4	67.60	61.45	148.72	135.20
28	1-1/8	3-1/2	78.00	70.91	171.60	156.00
30	1-1/4	3-3/4	90.00	81.82	198.00	180.00
32	1-5/16	4	101.00	91.82	222.20	202.00
34	1-3/8	4-1/4	115.60	105.09	254.32	231.20
36	1-7/16	4-1/2	129.00	117.27	283.80	258.00
40	1-5/8	5	158.00	143.64	347.60	316.00
44	1-3/4	5-1/2	193.50	175.91	425.70	387.00
48	1-15/16	6	229.00	208.18	503.80	458.00
52	2-1/16	6-1/2	268.00	243.64	589.60	536.00
56	2-1/4	7	312.00	283.64	686.40	624.00
60	2-3/8	7-1/2	358.00	325.45	787.60	716.00
64	2-1/2	8	407.00	370.00	895.40	814.00
68	2-15/16	8-1/2	460.00	418.18	1012.00	920.00
70	2-3/4	8-11/16	486.00	441.82	1069.20	972.00
72	2-7/8	9	514.00	467.27	1130.80	1028.00
76	3	9-1/2	574.00	521.82	1262.80	1148.00
80	3-5/32	10	638.00	580.00	1403.60	1276.00
84	3-1/2	10-1/2	705.00	640.91	1551.00	1410.00
88	3-15/16	11	772.00	701.82	1698.40	1544.00
96	3-3/4	12	917.00	833.64	2017.40	1834.00
100	4	12-1/2	994.00	903.64	2186.80	1988.00

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to ± 5% variation.

PP- DAN-STRONG / POLYPROPYLENE POLYSTEEL 8 STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.
40	1-5/8	5	158.00	143.64	347.60	316.00
44	1-3/4	5-1/2	193.60	176.00	425.92	387.20
48	1-15/16	6	229.00	208.18	503.80	458.00
52	2-1/16	6-1/2	270.40	245.82	594.88	540.80
56	2-1/4	7	312.00	283.64	686.40	624.00
60	2-3/8	7-1/2	359.00	326.36	789.80	718.00
64	2-1/2	8	407.00	370.00	895.40	814.00
68	2-15/16	8-1/2	460.00	418.18	1012.00	920.00
72	2-7/8	9	515.00	468.18	1133.00	1030.00
76	3	9-1/2	574.00	521.82	1262.80	1148.00
80	3-1/4	10	638.00	580.00	1403.60	1276.00
84	3-1/2	10-1/2	703.00	639.09	1546.60	1406.00
88	3-15/16	11	772.00	701.82	1698.40	1544.00
92	3-7/8	11-1/2	846.00	769.09	1861.20	1692.00
96	3-3/4	12	916.00	832.73	2015.20	1832.00
100	4	12-1/2	1000.00	909.09	2200.00	2000.00
104	4-1/2	13	1078.00	980.00	2371.00	2155.45
*112	1-7/8	14	-	1026.40	-	2258.00
*116	4-3/4	14-1/2	-	1008.60	-	2218.00
*120	5	15	-	1047.00	-	2303.00

*112 MM available only in 180 mtrs Length. *116 MM available only in 170 mtrs Length. *120 MM available only in 160 mtrs Length
 Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to ± 5% variation.

*Manufactured in accordance with 'OCIMF' guidelines.

Mtr/Kg	Feet/Kg	MBL			Maximum Length-Mtr
		Kgf	Lbs	KN	
1.39	4.57	28000	61600	274.51	270
1.14	3.73	33750	74250	330.88	220
0.96	3.15	39500	86900	387.25	520
0.81	2.67	45750	100650	448.53	450
0.71	2.31	52000	114400	509.80	380
0.61	2.01	59500	130900	583.33	330
0.54	1.77	67550	148610	662.25	290
0.48	1.57	76000	167200	745.10	260
0.43	1.40	84500	185900	828.43	450
0.38	1.26	94000	206800	921.57	400
0.34	1.13	104000	228800	1019.61	350
0.31	1.03	114000	250800	1117.65	320
0.28	0.93	125000	275000	1225.49	300
0.26	0.85	136000	299200	1333.33	270
0.24	0.79	148000	325600	1450.98	250
0.22	0.72	159166	350165.2	1560.45	220
0.20	0.67	169500	372900	1661.76	220
0.17	0.55	195600	430320	1917.65	*180
0.16	0.52	207030	455466	2029.71	*170
0.15	0.49	224600	494120	2201.96	*160



Tiger Rope – Polypropylene Polysteel

PP- DAN-STRONG / POLYPROPYLENE POLYSTEEL 12 STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg
52	2-1/16	6-1/2	274.00	249.09	602.80	548.00	0.80
56	2-1/4	7	316.00	287.27	695.20	632.00	0.70
60	2-3/8	7-1/2	364.00	330.91	800.80	728.00	0.60
64	2-1/2	8	413.00	375.45	908.60	826.00	0.53
68	2-15/16	8-1/2	470.00	427.27	1034.00	940.00	0.47
72	2-7/8	9	523.00	475.45	1150.60	1046.00	0.42
76	3	9-1/2	586.00	532.73	1289.20	1172.00	0.38
80	3-5/32	10	648.00	589.09	1425.60	1296.00	0.34
84	3-1/2	10-1/2	716.00	650.91	1575.20	1432.00	0.31
88	3-7/16	11	787.00	715.45	1731.40	1574.00	0.28
96	3-13/16	12	934.00	849.09	2054.80	1868.00	0.24
104	4-1/2	13	1095.00	995.45	2409	2190.00	0.20
108	4-15/16	13-1/2	1166.00	1060.0	2565.2	2332.00	0.19
*112	1-7/8	14	-	1124.5	-	2474	0.17
*120	5	15	-	1200	-	2640	0.15

* 112 MM available only in 200 mtrs Length. *120 MM available only in 180 mtrs Length.

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to $\pm 5\%$ variation.

DAN-STRONG

Polypropylene Polysteel



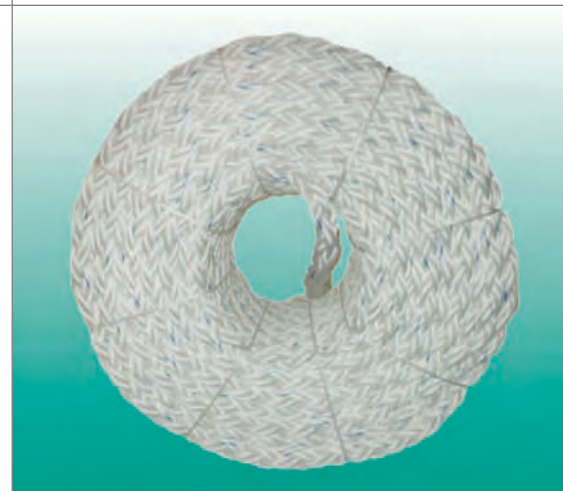
Axiom
Cordages Limited

Specifications to note while placing the order

- Type of Fiber: Polypropylene
- Length: Meter, Foot, Yard
- Packing: Coil, Reel / Flange / Spool
- Number of Strands: 3, 4, 8 & 12 Strands
- Diameter, Circumference, number of Ply
- Direction of Twist: 'Z' Twist / 'S' Twist
- Lay: Soft, Medium, Hard, Extra Hard
- Colours of Rope & tracer yarn required
- Packing, Marking: HDPE / Raffia Cloth / Clear Shrink Wrap
- Type Of Test Certificate required: Mills Compliance Certificate / Germanischer Lloyds Certificate
- Minimum Order Quantity: 9.5 Tons - 1 x 20' Container,

20 Tons - 1 x 40' Standard Container,

22 Tons - 1 x 40' High Cube Container



Available in 8 & 12 strand constructions with covered eyes.

***3 & 4 strand can be provided in plastic & wooden reels palletized, if required, at extra cost.**

Feet/Kg	MBL			Maximum Length-Mtr
	Kgf	Lbs	KN	
2.63	47400	104280	464.71	900
2.28	55100	121220	540.20	800
1.98	61700	135740	604.90	700
1.75	70500	155100	691.18	600
1.54	79800	175560	782.35	550
1.38	89200	196240	874.51	500
1.23	98500	216700	965.69	450
1.11	108400	238480	1062.75	400
1.01	117800	259160	1154.90	350
0.92	127700	280940	1251.96	320
0.77	150800	331760	1478.43	270
0.66	171700	377740	1683.33	220
0.62	186000	409200	1823.52	220
0.56	200200	440440	1962.74	*200
0.49	231600	509520	2270.58	*180

Combination Duel Fiber (Polypropylene Polyester)

Product Description

Marina Maxi is far technologically superior, it surpasses the strength and other properties of normal polypropylene rope. With very high Strength/Weight ratio, it allows substantial size reduction, ease in handling and provides overall economy. Marina Maxi rope retains superior breaking Strength originated from technically reinforced composition of High Grade Synthetic Compound with Polyester and Polypropylene. In addition to the other superior properties, this ideal composition and construction creates extremely low elongation that offers stability during usage.

The Company

Axiom Cordages Limited is the Company in India that supply Ropes under OCIMF Guidelines.

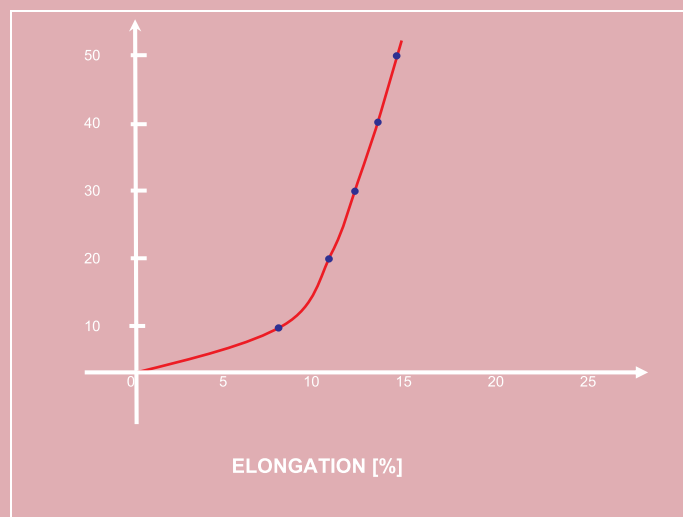
Cyclical loading test

The test equipment is designed to be used for cyclic loading tests of ropes made of synthetic materials which will be used in applications exposed to cyclic loading in service. The procedure of prototype rope testing for determination of the TCLL value is specified in OCIMF (OIL COMPANIES MARINE FORUM) guidelines.

Test Procedure

The cyclic loading test is performed at defined levels of loading in wet conditions. The rope sample is loaded with the prescribed number of cycles at individual levels of loading at a prescribed rate until the sample breaks or 2000 cycles at an 80% level of loading is achieved. The achieved number of cycles is used to calculate the TCLL level of loading at which the rope would break at 1000 cycles. The test course is continuously recorded by means of a computer and the final test report is based on this computerized record.

PERCENTAGE ELONGATION (STRETCH) OF PP POLYESTER ROPE



MARINA MAXI



Axiom
Cordages Limited

Combination Dual Fiber (Polypropylene-Polyester)

Elongation Test

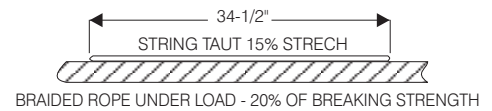
Total stretch represents the entire length change in a new rope when placed under a given stress (load) and includes the non-recoverable, recoverable overtime and immediately recoverable portions of extension.

One of the variables affecting percentages of elongation is intermittent loading vs. sustained loading; plotted graphically, the curves are somewhat different.

Two marks are made on Marina Maxi Rope 30 inches apart, then tightly knot up a piece of string or twine made of same material through the strands at these marks. The string measure 34-1/2 inches between knots. When the rope is put under load of 20% of its breaking strength it is elongated less than 15% between the two knots 30" apart when relaxed will now be 34-1/2" apart ($30" + 0.15 \times 30 = 34-1/2"$) and the string is taut.

Conclusion

If the string would have snapped out then it is to be believed that the rope has been loaded more than the breaking strength as well as if the distance have been more than 34-1/2" then the elongation is more than 15% which is not the case in our sample.



8 - STRAND MARINA MAXI

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length- Mtr
									Kgf	Lbs	KN	
40	1-5/8	5	174	158.18	382.80	348.00	1.26	4.15	31100	68420	304.90	250
44	1-3/4	5-1/2	213	193.64	468.60	426.00	1.03	3.39	37100	81620	363.73	220
48	1-15/16	6	252	229.09	554.40	504.00	0.87	2.86	43600	95920	427.45	400
52	2-1/16	6-1/2	295.00	268.18	649.00	590.00	0.75	2.45	50600	111320	496.08	375
56	2-1/4	7	343.00	311.82	754.60	686.00	0.64	2.10	58100	127820	569.61	300
60	2-3/8	7-1/2	395.00	359.09	869.00	790.00	0.56	1.83	66100	145420	648.04	275
64	2-1/2	8	448.00	407.27	985.60	896.00	0.49	1.61	74600	164120	731.37	250
68	2-15/16	8-1/2	505.00	459.09	1111.00	1010.00	0.44	1.43	83700	184140	820.59	425
72	2-7/8	9	566.00	514.55	1245.20	1132.00	0.39	1.27	93300	205260	914.71	400
76	3	9-1/2	633.00	575.45	1392.60	1266.00	0.35	1.14	104150	229130	1021.08	350
80	3-1/4	10	701.00	637.27	1542.20	1402.00	0.31	1.03	115000	253000	1127.45	325
84	3-1/2	10-1/2	775.00	704.55	1705.00	1550.00	0.28	0.93	126500	278300	1240.20	275
88	3-15/16	11	850.00	772.73	1870.00	1700.00	0.26	0.85	138000	303600	1352.94	250
96	3-3/4	12	1007.00	915.45	2215.40	2014.00	0.22	0.72	163000	358600	1598.04	220
*100	4	12-1/2	-	998.00	-	2196.00	0.20	0.66	176550	388410	1730.88	*200
*104	4-1/2	13	-	1026.00	-	2257.20	0.18	0.59	190100	418220	1863.73	*190
*112	1-718	14	-	1003.00	-	2206.60	0.15	0.49	215160	473352	2109.41	*160
*120	5	15	-	1008.00	-	2217.60	0.13	0.42	247000	543400	2421.57	*140

*100 MM available only in 200 mtrs Length. *104 MM available only in 190 mtrs Length *112 MM available only in 160 mtrs Length *120 MM available only in 140 mtrs Length
*Manufactured in accordance with 'OCIMF' guidelines.

12 - STRAND MARINA MAXI

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length- Mtr
									Kgf	Lbs	KN	
52	2-1/16	6-1/2	304	276.36	668.80	608.00	0.72	2.37	51865	114103	508.48	850
56	2-1/4	7	353.00	320.91	776.60	706.00	0.62	2.04	59553	131017	583.85	750
60	2-3/8	7-1/2	407.00	370.00	895.40	814.00	0.54	1.77	67753	149057	664.25	650
64	2-1/2	8	461.00	419.09	1014.20	922.00	0.48	1.57	76465	168223	749.66	580
68	2-15/16	8-1/2	520.00	472.73	1144.00	1040.00	0.42	1.39	85793	188745	841.11	500
72	2-7/8	9	583.00	530.00	1282.60	1166.00	0.38	1.24	95633	210393	937.58	450
76	3	9-1/2	652.00	592.73	1434.40	1304.00	0.34	1.11	106754	234859	1046.61	400
80	3-1/4	10	722.00	656.36	1588.40	1444.00	0.30	1.00	117875	259325	1155.64	350
88	3-15/16	11	876.00	796.36	1927.20	1752.00	0.25	0.82	141450	311190	1386.76	300
96	3-3/4	12	1037.00	942.73	2281.40	2074.00	0.21	0.70	167075	367565	1637.99	250
104	4-1/2	13	1224.00	1112.73	2692.80	2448.00	0.18	0.59	194853	428677	1910.32	220
*108	4-15/16	13-1/2	-	1197.00	-	2633.00	0.16	0.52	206400	454080	2023.53	*200
*112	1-7/8	14	-	1130	-	2486	0.15	0.49	221000	486200	2166.67	*180
*120	5	15	-	1160	-	2552	0.13	0.42	252000	554400	2470.59	*160

*108 MM available only in 200 mtrs Length *112MM available only in 180 mtrs Length. *120MM available only in 160 mtrs Length

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to $\pm 5\%$ variation.

Properties

- Construction: 8-12 Strand
- Colour: Orange
- Maker: 2 Blue Marker Yarn
- Specific Gravity: 0.96
- Melting Point: 185 °c
- U.V Resistance: Stabilised (as per customer request)
- Dry & Wet Conditions: Identical Wet & Dry Strengths
- Abrasion Resistance: Good as per customer request
- Classification: GL & Mills
- Bending Ratio: 0%
- Elongation at Breaking Point: 18%
- Water Absorption: 0%
- Floats/Sinks: Floats

Distinctive Advantages

- Float On Water
- High Breaking Strength
- High Abrasion Resistance
- High Shock Absorption
- No Loss Of Strength When Wet
- Low Weight-Easy Handling
- Very Low Snap-Back Effect
- Low Elongation

Applications

- Mooring Lines For 0.1 Tanker
- Towing Lines
- Anchoring Lines
- SPM Hawsers
- Messenger Lines
- Offshore Applications

Polypropylene – Polyester Mix

Material

High tenacity
polypropylene & polyester
composite fibres.

SUPER FLEX 3 & 4 - STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length- Mtr
									Kgf	Lbs	KN	
6	1/4	3/4	3.92	3.56	8.62	7.84	59.95	196.62	808	1778	7.92	700
8	5/16	1	7.06	6.42	15.53	14.12	33.33	109.33	1412	3107	13.85	800
10	3/8	1-1/4	10.70	9.73	23.54	21.40	22.00	72.16	2100	4620	20.59	550
12	1/2	1-1/2	15.51	14.10	34.12	31.02	15.17	49.77	2982	6560	29.24	500
14	9/16	1-3/4	21.40	19.45	47.08	42.80	11.00	36.08	4100	9021	40.20	2000
16	5/8	2	27.28	24.80	60.02	54.56	8.63	28.30	5145	11319	50.44	1550
18	3/4	2-1/4	34.77	31.61	76.49	69.54	6.77	22.20	5775	12705	56.62	1200
20	13/16	2-1/2	42.80	38.91	94.16	85.60	5.50	18.04	7896	17371	77.41	1000
22	7/8	2-3/4	53.50	48.64	117.70	107.00	4.54	14.88	8873	19520	86.99	800
24	1	3	60.99	55.45	134.18	121.98	3.86	12.66	10710	23562	105.00	950
26	1-1/16	3-1/4	72.33	65.75	159.13	144.66	3.25	10.67	12464	27420	122.19	800
28	1-1/8	3-1/2	83.46	75.87	183.61	166.92	2.82	9.25	14217	31277	139.38	700
30	1-1/4	3-3/4	96.30	87.55	211.86	192.60	2.44	8.02	16256	35763	159.37	600
32	1-5/16	4	107.06	97.33	235.53	214.12	2.18	7.14	18296	40252	179.38	550
34	1-3/8	4-1/4	123.69	112.45	272.12	247.38	1.90	6.24	20225	44495	198.29	500
36	1-7/16	4-1/2	138.03	125.48	303.67	276.06	1.71	5.59	22155	48741	217.21	450
40	1-5/8	5	169.06	153.69	371.93	338.12	1.39	4.57	26229	57704	257.15	350
44	1-3/4	5-1/2	207.04	188.22	455.49	414.08	1.14	3.73	31673	69681	310.52	1000
48	1-15/16	6	242.74	220.67	534.03	485.48	0.96	3.15	38405	84491	376.00	950
52	2-1/16	6-1/2	284.08	258.25	624.98	568.16	0.81	2.67	45136	99299	442.51	800
56	2-1/4	7	330.72	300.65	727.58	661.44	0.71	2.31	51376	113027	503.69	700
60	2-3/8	7-1/2	379.42	344.93	834.72	758.84	0.61	2.01	58448	128586	573.02	600
64	2-1/2	8	431.42	392.20	949.12	862.84	0.54	1.77	66664	146661	653.57	550
68	2-15/16	8-1/2	487.60	443.27	1072.72	975.20	0.48	1.57	75088	165194	736.16	500
70	2-3/4	8-11/16	515.16	468.33	1133.35	1030.32	0.45	1.48	79248	174346	776.94	450
72	2-7/8	9	544.84	495.31	1198.65	1089.68	0.43	1.40	83408	183498	776.94	400
76	3	9-1/2	608.44	553.13	1338.57	1216.88	0.38	1.26	92872	204318	910.51	350
80	3-5/32	10	676.28	614.80	1487.82	1352.56	0.34	1.13	102336	225139	1003.29	350
84	3-1/2	10-1/2	747.30	679.36	1644.06	1494.60	0.31	1.03	112632	247790	1104.24	300
88	3-15/16	11	818.32	743.93	1800.30	1636.64	0.26	0.85	123448	271586	1210.27	250
96	3-3/4	12	972.02	883.65	2138.44	1944.04	0.24	0.79	146224	321693	1433.57	220
100	4	12-1/2	1053.64	957.85	2318.01	2107.28	0.22	0.72	157248	345946	1541.65	220

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to ± 5% variation.

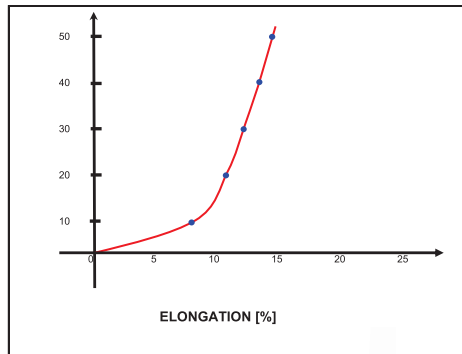
SUPER FLEX



Axiom
Cordages Limited

POLYPROYLENE – POLYESTER MIX

PERCENTAGE ELONGATION (STRETCH) OF PP POLYESTER ROPE



Characteristics

- Wet strength equal to dry strength.
- High strength weight ratio for ease of handling.
- Excellent abrasion resistance against internal and external friction.
- Exceptional resistance to frictional heat damage.
- Manufactured in accordance with OCIMF guidelines
- TCLL value of 73%. TCLL is the actual breaking load of a wet rope after 1000 cyclical loadings. This is expressed as a percentage of the original wet breaking strength.
- Excellent shoke - load absorption, yeilding low snapback at break.
- Remains flexible & easy to splice in use.
- Does not absorb water.
- Excellent chemical resistance, except in the presence of alkalis.



SUPER FLEX 8 - STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length-Mtr
									Kgf	Lbs	KN	
36	1-7/16	4-1/2	132.00	120.00	290.40	264.00	1.67	5.47	24800	54560	243	300
40	1-5/8	5	192.50	175.00	423.50	385.00	1.14	3.75	34200	75240	335	250
44	1-3/4	5-1/2	228.80	208.00	503.36	457.60	0.96	3.15	40800	89760	400	800
48	1-15/16	6	264.00	240.00	580.80	528.00	0.83	2.73	47400	104280	465	450
52	2-1/16	6.5	310.20	282.00	682.44	620.40	0.71	2.33	55500	122100	544	375
56	2-1/4	7	345.40	314.00	759.88	690.80	0.64	2.09	63200	139040	620	350
60	2-3/8	7.5	402.60	366.00	885.72	805.20	0.55	1.79	72400	159280	710	300
64	2-1/2	8	453.20	412.00	997.04	906.40	0.49	1.59	81600	179520	800	250
68	2-15/16	8.5	510.40	464.00	1122.88	1020.80	0.43	1.41	91800	201960	900	400
72	2-7/8	9	567.60	516.00	1248.72	1135.20	0.39	1.27	102000	224400	1000	350
76	3	9.5	622.60	566.00	1369.72	1245.20	0.35	1.16	112000	246400	1098	350
80	3-1/4	10	701.80	638.00	1543.96	1403.60	0.31	1.03	125000	275000	1225	300
88	3-15/16	11	836.00	760.00	1839.20	1672.00	0.26	0.86	148000	325600	1451	250
96	3-3/4	12	983.40	894.00	2163.48	1966.80	0.22	0.73	174000	382800	1706	240
104	4-1/2	13	1155.00	1050.00	2541.00	2310.00	0.19	0.62	198300	436260	1944	220
*112	1-7/8	14	-	1254.00	-	2758.80	0.18	0.58	230800	507760	2263	*180
*120	5	15	-	1120	-	2464	0.20	0.64	263000	578600	2578.43	*160

*112 MM available only in 180 mtrs, Length *120MM available only in160 mtrs Length. *Manufactured in accordance with 'OCIMF' guidelines.

SUPER FLEX 12 - STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length-Mtr
									Kgf	Lbs	KN	
52	2-1/16	6-1/2	327.00	297.27	719.40	654.00	0.67	2.21	64300	141460	630	800
56	2-1/4	7	371.00	337.27	816.20	742.00	0.59	1.95	72800	160160	714	700
60	2-3/8	7-1/2	417.00	379.09	917.40	834.00	0.53	1.73	81200	178640	796	600
64	2-1/2	8	463.00	420.91	1018.60	926.00	0.48	1.56	90400	198880	886	500
68	2-15/16	8-1/2	540.00	490.91	1188.00	1080.00	0.41	1.34	104100	229020	1021	490
72	2-7/8	9	586.00	532.73	1289.20	1172.00	0.38	1.23	113100	248820	1109	450
76	3	9-1/2	692.00	629.09	1522.40	1384.00	0.32	1.04	134100	295020	1315	380
80	3-1/4	10	765.00	695.45	1683.00	1530.00	0.29	0.94	148100	325820	1452	340
88	3-15/16	11	912.00	829.09	2006.40	1824.00	0.24	0.79	175100	385220	1717	275
96	3-3/4	12	1075.00	977.27	2365.00	2150.00	0.20	0.67	205100	451220	2011	240
104	4-1/2	13	1237.00	1124.55	2721.40	2474.00	0.18	0.58	235100	517220	2305	220
*112	1-7/8	14	-	1310.00	-	2882.00	0.15	0.49	268000	589600	2627	*200
*120	5	15	-	1350.00	-	2970.00	0.13	0.42	307500	676500	3014	*180

*112 MM available only in 200 mtrs Length *120MM available only in180 mtrs Length.

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to ± 5% variation.

Applications

- Towing stretchers.
- Single Point moorings.
- Mooring lines.
- Mooring Jaws

Properties :

- Construction: 3-4-8-12 Strand
- Colour: White
- Maker: 2 Blue Marker Yarn
- Specific Gravity: 0.99 - 1.14
- Melting Point: 265 °c / 165 °c
- U.V Resistance: Good (as per customer request)
- Dry & Wet Conditions: Identical Wet & Dry Strengths
- Abrasion Resistance: Excellent
- Classification: GI & Mills
- Bending Ratio: Equally Dry & Wet
- Elongation At Breaking Point: 18%
- Floats/sinks: As Per Special Request



Inner Polypropylene Outer Polyester

Product Description

Made from high tenacity co-polymer yarns & available in 8 and 12 strand. A competitive alternative to Nylon and staple Polypropylene.

Maxi Flex 8 STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length- Mtr
									Kgf	Lbs	KN	
40	1-5/8	5	157.96	143.60	347.51	315.92	1.39	4.57	27400	60280	268.63	275
44	1-3/4	5-1/2	193.82	176.20	426.40	387.64	1.14	3.72	34000	74800	333.33	220
48	1-15/16	6	228.80	208.00	503.36	457.60	0.96	3.15	39600	87120	388.24	550
52	2-1/16	6.5	267.96	243.60	589.51	535.92	0.82	2.69	45800	100760	449.02	400
56	2-1/4	7	311.96	283.60	686.31	623.92	0.71	2.31	52400	115280	513.73	350
60	2-3/8	7.5	358.82	326.20	789.40	717.64	0.61	2.01	60000	132000	588.24	300
64	2-1/2	8	407.00	370.00	895.40	814.00	0.54	1.77	67900	149380	665.69	275
68	2-15/16	8.5	460.90	419.00	1013.98	921.80	0.48	1.57	76700	168740	751.96	450
72	2-7/8	9	515.02	468.20	1133.04	1030.04	0.43	1.40	85200	187440	835.29	425
80	3-1/4	10	638.00	580.00	1403.60	1276.00	0.34	1.13	105000	231000	1029.00	350
88	3-15/16	11	770.22	700.20	1694.48	1540.44	0.29	0.94	126000	277200	1235.00	275
96	3-3/4	12	916.96	833.60	2017.31	1833.92	0.24	0.79	149000	327800	1460.00	240
104	4-1/2	13	1078.00	980.00	2371.60	2156.00	0.20	0.67	170000	374000	1666.67	220
*112	1-7/8	14	-	1026.00	-	2257.20	0.17	0.56	196000	431200	1921.57	*180
*120	5	15	-	1047.00	-	2303.4	0.15	0.49	225000	495000	2205.88	*160

*112 mm available only in 180 mtrs . * 120 mm available only in 160 mtrs.
Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to ± 5% variation.
*Manufactured in accordance with 'OCIMF' guidelines.

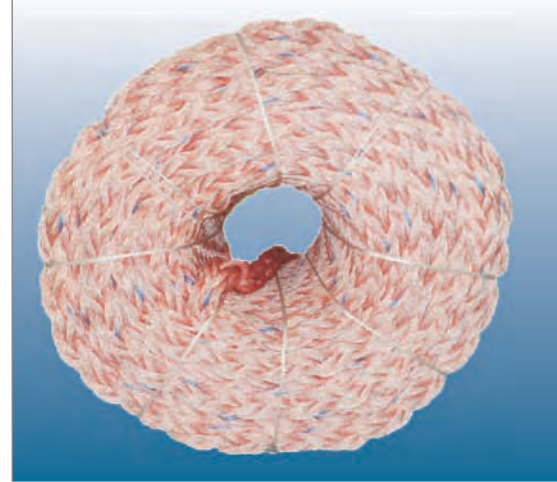
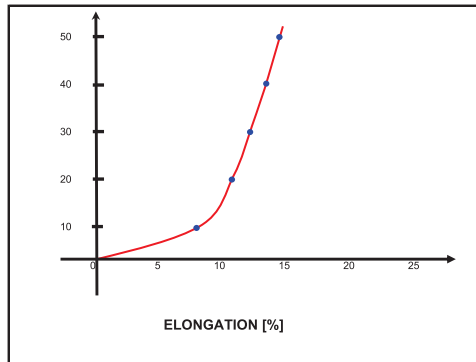
MAXI FLEX

Inner Polypropylene Outer Polyester



Axiom
Cordages Limited

PERCENTAGE ELONGATION (STRETCH) OF PP POLYESTER ROPE



Characteristics :

- Excellent abrasion resistance
- Excellent strength
- Flexible and easy to handle
- Protected spliced eye at each end.
- Tremendous range of uses
- Characteristics hi-vis yellow colour with two black marker yarns.

Properties :

- Construction: 8-12 Strand
- Colour: White
- Maker: Red
- Specific Gravity: 0.95
- Melting Point: 165 °c / 265 °c
- U.V Resistance: Good (as per customer request)
- Dry & Wet conditions: Equally Dry & Wet
- Abrasion Resistance: Good
- Classification: GL & Mills
- Floats/Sinks: As Per Special Request

Applications

- Ideal for a variety of marine applications.
- Ideal in fishing application as a general multi-purpose hard working rope.
- Mooring
- Towing
- Securing
- Lifting
- Messenger lines

Maxi Flex 12 STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length-Mtr
									Kgf	Lbs	KN	
52	2-1/16	6-1/2	276.00	250.91	607.20	552.00	0.80	2.61	46700	102740	457.84	420
56	2-1/4	7	321.00	291.82	706.20	642.00	0.69	2.25	53450	117590	524.02	317
60	2-3/8	7-1/2	370.00	336.36	814.00	740.00	0.59	1.95	61200	134640	600.00	320
64	2-1/2	8	419.00	380.91	921.80	838.00	0.53	1.72	69250	152350	678.92	275
72	2-7/8	9	530.00	481.82	1166.00	1060.00	0.42	1.36	86900	191180	851.96	420
80	3-1/4	10	657.00	597.27	1445.40	1314.00	0.33	1.10	107100	235620	1050.00	350
88	3-15/16	11	793.00	720.91	1744.60	1586.00	0.28	0.91	128500	282700	1259.80	390
96	3-3/4	12	944.00	858.18	2076.80	1888.00	0.23	0.76	152000	334400	1490.20	240
104	4-1/2	13	1110.00	1008.00	2442.00	2217.00	0.19	0.62	172900	380380	1695.10	220
*112	1-7/8	14	-	1167.00	-	2567.00	0.22	0.56	200490	441078	1965.59	*200
*120	5	15	-	1210.00	-	2662.00	0.22	0.49	229000	503800	2245.10	*180

*112 mm available only in 200 mtrs . * 120 mm available only in 180 mtrs.

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to $\pm 5\%$ variation.

Polydacron Polyester

Applications :

- Block lines
- Pulling lines
- Slings and mooring pendants
- Mooring and tie-up lines
- Floating tow lines

AOXIFLEX 3 - STRAND POLYESTER ROPE

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length- Mtr
									Kgf	Lbs	KN	
6	1/4	3/4	5.90	5.36	12.98	11.80	37.29	122.31	600	1320	5.88	660
8	5/16	1	10.50	9.55	23.10	21.00	20.95	68.72	1020	2244	10.00	440
10	3/8	1-1/4	16.70	15.18	36.74	33.40	13.17	43.21	1600	3520	15.69	330
12	1/2	1-1/2	24.20	22.00	53.24	48.40	9.09	29.82	2300	5060	22.55	220
14	9/16	1-3/4	32.50	29.55	71.50	65.00	6.77	22.20	3200	7040	31.37	1200
16	5/8	2	43.00	39.09	94.60	86.00	5.12	16.78	4100	9020	40.20	900
18	3/4	2-1/4	54.00	49.09	118.80	108.00	4.07	13.36	5100	11220	50.00	700
20	13/16	2-1/2	66.60	60.55	146.52	133.20	3.30	10.83	6300	13860	61.76	650
22	7/8	2-3/4	80.70	73.36	177.54	161.40	2.73	8.94	7600	16720	74.51	650
24	1	3	96.00	87.27	211.20	192.00	2.29	7.52	9100	20020	89.22	550
26	1-1/13	3-1/4	112.50	102.27	247.50	225.00	1.96	6.41	10700	23540	104.90	500
28	1-1/8	3-1/2	130.50	118.64	287.10	261.00	1.69	5.53	12200	26840	119.61	450
30	1-1/4	3-3/4	150.00	136.36	330.00	300.00	1.47	4.81	13700	30140	134.31	350
32	1-5/16	4	171.00	155.45	376.20	342.00	1.29	4.22	15700	34540	153.92	300
34	1-3/8	4-1/4	192.70	175.18	423.94	385.40	1.14	3.74	17400	38280	170.59	300
36	1-7/16	4-1/2	216.00	196.36	475.20	432.00	1.02	3.34	19400	42680	190.20	250
40	1-5/8	5	267.00	242.73	587.40	534.00	0.82	2.70	24000	52800	235.29	220
42	1-21/32	5-1/4	293.00	266.36	644.60	586.00	0.75	2.46	25900	56980	253.92	800
44	1-3/4	5-1/2	322.80	293.45	710.16	645.60	0.68	2.24	28400	62480	278.43	700
48	1-15/16	6	385.00	350.00	847.00	770.00	0.57	1.87	36670	80674	359.51	600
50	2	6-1/4	417.00	379.09	917.40	834.00	0.53	1.73	34390	75658	337.16	500
52	2-1/16	6-1/2	451.00	410.00	992.20	902.00	0.49	1.60	42750	94050	419.12	400
56	2-1/4	7	524.00	476.36	1152.80	1048.00	0.42	1.38	48920	107624	479.61	400
60	2-3/8	7-1/2	600.00	545.45	1320.00	1200.00	0.37	1.20	55570	122254	544.80	300
64	2-1/2	8	684.00	621.82	1504.80	1368.00	0.32	1.05	63270	139194	620.29	300
68	2-15/16	8-1/2	772.00	701.82	1698.40	1544.00	0.28	0.93	70680	155496	692.94	250
70	2-3/4	8-11/16	817.00	742.73	1797.40	1634.00	0.27	0.88	64690	142318	634.22	220
72	2-7/8	9	865.00	786.36	1903.00	1730.00	0.25	0.83	78850	173470	773.04	220
76	3	9-1/2	966.00	878.18	2125.20	1932.00	0.23	0.75	87870	193314	861.47	220
80	3-1/4	10	1067.00	970.00	2347.40	2134.00	0.21	0.68	96900	213180	950.00	220
84	3-1/2	10-1/2	1179.00	1071.82	2593.80	2358.00	0.19	0.61	106400	234080	1043.14	220
88	3-15/16	11	1291.00	1173.64	2840.20	2582.00	0.17	0.56	115900	254980	1136.27	220
90	3- 9/16	11-1/8	1350.00	1227.27	2970.00	2700.00	0.16	0.53	105300	231660	1032.35	220
*96	3-3/4	12	-	1398.00	-	3076.00	0.14	0.47	119100	262020	1167.65	200

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/9. Specifications subject to ± 5% variation.

AOXI FLEX – 100% Polyester



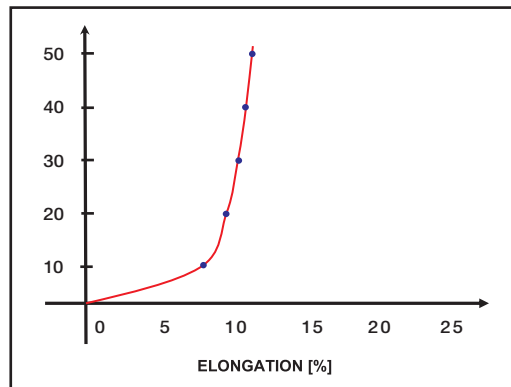
Axiom
Cordages Limited

Polydacron Polyester

Aoxi Flex Ropes are the result of the continuous efforts of our R & D. This Eight strand rope offers high tenacity. Aoxi Flex Ropes are produced from exclusive high tensile man-made fibre polydacron which yields 70 to 75% higher strength than standard polypropylene ropes.

Aoxi Flex Ropes have higher abrasion resistance and longer life span. With excellent wear life and performance characteristics, Aoxi Flex Ropes have become the accepted economical replacement to traditional eight strand polypropylene.

PERCENTAGE ELONGATION (STRETCH) OF POLYESTER ROPE



Available in 8 & 12 strand constructions with covered eyes.

***3 & 4 strand can be provided in plastic & wooden reels palletized, if required, at extra cost.**

AOXIFLEX 8 - STRAND POLYESTER ROPE

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length-Mtr
									Kgf	Lbs	KN	
48	1-15/16	6	385.00	350.00	847.00	770.00	0.57	1.87	38600	84920	378.43	350
52	2-1/16	6-1/2	451.00	410.00	992.20	902.00	0.49	1.60	45000	99000	441.18	300
56	2-1/4	7	523.60	476.00	1151.92	1047.20	0.42	1.38	51500	113300	504.90	250
60	2-3/8	7-1/2	600.00	545.45	1320.00	1200.00	0.37	1.20	58500	128700	573.53	220
64	2-1/2	8	684.20	622.00	1505.24	1368.40	0.32	1.05	66600	146520	652.94	450
68	2-15/16	8-1/2	772.20	702.00	1698.84	1544.40	0.28	0.93	74400	163680	729.41	420
72	2-7/8	9	864.60	786.00	1902.12	1729.20	0.25	0.83	83000	182600	813.73	375
76	3	9-1/2	965.80	878.00	2124.76	1931.60	0.23	0.75	92500	203500	906.86	300
80	3-1/4	10	1067.00	970.00	2347.40	2134.00	0.21	0.68	102000	224400	1000.00	300
84	3-1/2	10-1/2	1179.00	1071.82	2593.80	2358.00	0.19	0.61	112000	246400	1098.04	275
88	3-15/16	11	1291.00	1173.64	2840.20	2582.00	0.17	0.56	122000	268400	1196.08	250
92	3-7/8	11-1/2	1413.00	1284.55	3108.60	2826.00	0.16	0.51	133000	292600	1303.92	220
96	3-3/4	12	1537.00	1398.00	3381.40	3075.00	0.14	0.46	144000	316800	1411.76	220
100	4	12-1/2	1545.00	1405.00	3399.00	3091.00	0.14	0.46	155500	342100	1524.51	220
*104	4-1/2	13	-	1640.00	-	3608.00	0.12	0.39	167000	367400	1637.25	*200
*112	1-7/8	14	-	1615.00	-	3553.00	0.10	0.32	192000	422400	1882.35	*170

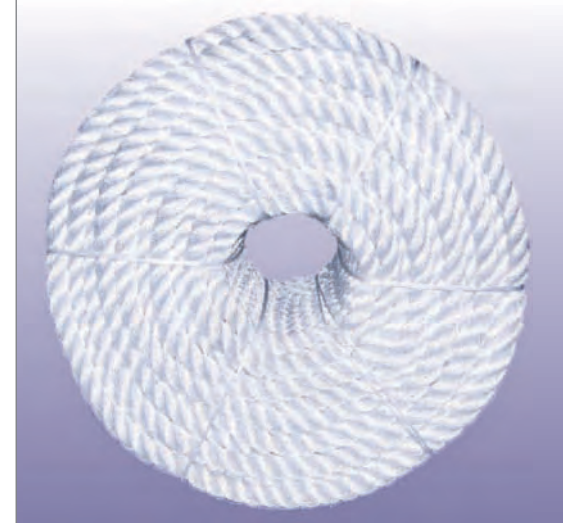
*104 mm available only in 200 mtr length. *112 mm available only in 170 mtr length. *Manufactured in accordance with 'OCIMF' guidelines.

AOXIFLEX 12 - STRAND POLYESTER ROPE

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length-Mtr
									Kgf	Lbs	KN	
52	2-1/16	6-1/2	451.00	410.00	992.20	902.00	0.49	1.60	48200	106040	472.55	700
56	2-1/4	7	524.00	476.36	1153.00	1048.18	0.42	1.38	55600	122320	545.10	600
60	2-3/8	7-1/2	600.00	545.45	1320.00	1200.00	0.37	1.20	63000	138600	617.65	500
64	2-1/2	8	684.20	622.00	1505.00	1368.18	0.32	1.05	71000	156200	696.08	450
68	2-15/16	8-1/2	772.20	702.00	1698.00	1543.64	0.28	0.93	80200	176440	786.27	400
72	2-7/8	9	864.60	786.00	1901.00	1728.18	0.25	0.83	89500	196900	877.45	370
76	3	9-1/2	965.80	878.00	2123.00	1930.00	0.23	0.75	99400	218680	974.51	325
80	3-1/4	10	1067.00	970.00	2347.00	2133.64	0.21	0.68	110000	242000	1078.43	300
84	3-1/2	10-1/2	1179.00	1071.82	2594.00	2358.18	0.19	0.61	118500	260700	1161.76	250
88	3-15/16	11	1292.00	1174.55	2842.00	2583.64	0.17	0.56	129300	284460	1267.65	220
92	3-7/8	11-1/2	1413.00	1284.55	3109.00	2826.36	0.16	0.51	140800	309760	1380.39	220
96	3-3/4	12	1537.00	1390.00	3380.00	3058.00	0.14	0.46	154000	338800	1509.80	220
100	4	12-1/2	1545.00	1404.00	3399.00	3091.00	0.13	0.43	166000	365200	1627.45	220
104	4-1/2	13	1800.00	1640.00	3960.00	3608.00	0.12	0.39	178200	392040	1747.10	220
*112	1-7/8	14	-	1710.00	-	3762.00	0.10	0.32	205440	451968	2014.10	*180

*112 mm available only in 180 mtr length.

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/9. Specifications subject to ± 5% variation.



Characteristics :

70-75% stronger

Excellent wear life i.e. high abrasion

Superior sunlight resistance due to

SL-5 ultraviolet inhibitors

Excellent visibility and identification

Properties :

- Material: 100% Polyester
- Construction: 3-4-8-12 Strand
- Colour: White
- Specific Gravity: 1.38
- Melting Point: 256 °c
- U.V Resistance: Excellent (as per customer request)
- Dry & Wet conditions: Excellent
- Abrasion Resistance: Good
- Classification: GL & Mills
- Floats/Sinks: SINKS

100% Nylon

Nylon Ropes from Axiom are strong, durable and commonly used in the industry. These ropes, high in strength, with longer wear life, are developed for high energy absorbing applications. Flexible, with maximum bearing surface for superior handling, these ropes are specially used for peak dynamic loads during mooring and towing operations.

Characteristics :

High strength

Shock absorbent

Excellent well strength retention

Torque free

Balanced and easy to handle

Superior working in rigorous conditions

Excellent abrasion resistance

Applications :

Mooring and pendant lines

Towing and shock lines

Deep water buoy lines

Available in 3, 4, 8 & 12 strand construction.

Available with covered eyes.

POLYAMIDE / NYLON ROPE 3 - STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length- Mtr
									Kgf	Lbs	KN	
6	7/32	3/4	5.20	4.73	11.44	10.40	42.31	138.77	749	1648	7.34	660
8	5/16	1	9.20	8.36	20.24	18.40	23.91	78.43	1346	2961	13.20	440
10	3/8	1-1/4	14.30	13.00	31.46	28.60	15.38	50.46	2080	4576	20.39	330
12	1/2	1-1/2	20.61	18.74	45.34	41.22	10.67	35.01	2999	6598	29.40	260
14	9/16	1-3/4	28.10	25.55	61.82	56.20	7.83	25.68	4100	9020	40.20	1200
16	5/8	2	36.50	33.18	80.30	73.00	6.03	19.77	5304	11669	52.00	900
18	3/4	2-1/4	46.20	42.00	101.64	92.40	4.76	15.62	6732	14810	66.00	700
20	13/16	2-1/2	57.20	52.00	125.84	114.40	3.85	12.62	8262	18176	81.00	650
22	7/8	2-3/4	69.00	62.73	151.80	138.00	3.19	10.46	9996	21991	98.00	800
24	1	3	82.00	74.55	180.40	164.00	2.68	8.80	12036	26479	118.00	650
28	1-1/8	3-1/2	112.00	101.82	246.40	224.00	1.96	6.44	15810	34782	155.00	500
30	1-1/4	3-3/4	128.00	116.36	283.14	257.40	1.72	5.64	17900	39380	175.49	450
32	1-5/16	4	146.00	132.73	321.20	292.00	1.51	4.94	19992	43982	196.00	350
34	1-3/8	4-1/4	165.00	150.00	363.66	330.60	1.33	4.37	22500	49500	220.59	330
36	1-7/16	4-1/2	176.00	160.00	387.20	352.00	1.25	4.10	24000	52800	235.29	300
40	1-5/8	5	218.00	198.18	479.60	436.00	1.01	3.31	29100	64020	285.29	250
44	1-3/4	5-1/2	264.00	240.00	580.80	528.00	0.83	2.73	34200	75240	335.29	800
48	1-15/16	6	312.00	283.64	686.40	624.00	0.71	2.31	40300	88660	395.10	750
52	2-1/16	6-1/2	364.00	330.91	800.80	728.00	0.60	1.98	47000	103400	460.78	650
56	2-1/4	7	424.00	385.45	932.80	848.00	0.52	1.70	53400	117480	523.53	550
60	2-3/8	7-1/2	486.00	441.82	1069.20	972.00	0.45	1.48	61500	135300	602.94	500
64	2-1/2	8	554.00	503.64	1218.80	1108.00	0.40	1.30	69000	151800	676.47	450
70	2-3/4	8-11/16	664.00	603.64	1460.00	1327.27	0.33	1.09	82000	180400	803.92	350
72	2-7/8	9	700.00	636.36	1540.00	1400.00	0.31	1.03	85500	188100	838.24	350
80	3-1/4	10	866.00	787.27	1905.20	1732.00	0.25	0.83	104000	228800	1019.61	300
88	3-15/16	11	1048.00	952.73	2305.60	2096.00	0.21	0.69	124500	273900	1220.59	220
90	3-9/16	11-1/8	1096.00	996.36	2411.20	2192.00	0.20	0.66	130200	286440	1276.47	220

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to ± 5% variation.

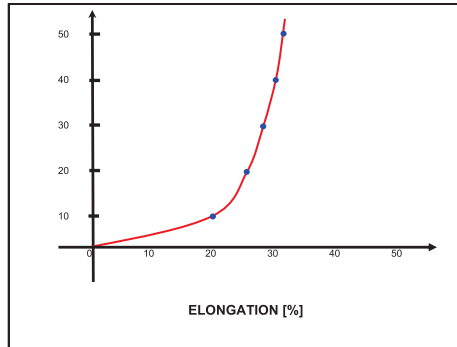
POLYAMIDE

100% Nylon

Axiom Cordages is acknowledged as one of the world's largest manufacturers of synthetic ropes and twines. Today it has become the preferred choice of buyers in 52 countries worldwide. This is the direct result of an active R & D program and a relentless multi-stage quality control system. along with internationally proven technology.

Axiom Cordages is committed to delivering the best quality ropes, at the most competitive prices, in the quickest possible time.

PERCENTAGE ELONGATION (STRETCH) OF POLYAMIDE (NYLON) ROPE



*3 & 4 strand can be provided in plastic & wooden reels palletized, if required, at extra cost.

POLYAMIDE / NYLON ROPE 8 - STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length- Mtr
									Kgf	Lbs	KN	
36	1-7/16	4-1/2	185.30	168.45	407.66	370.60	1.19	3.89	25000	55000	245.10	300
40	1-5/8	5	228.00	207.27	501.60	456.00	0.96	3.16	30000	66000	294.12	250
44	1-3/4	5-1/2	277.00	251.82	609.40	554.00	0.79	2.61	36000	79200	352.94	900
48	1-15/16"	6	330.00	300.00	726.00	660.00	0.67	2.19	42000	92400	411.76	750
52	2-1/16	6-1/2	387.00	351.82	851.40	774.00	0.57	1.86	49000	107800	480.39	650
56	2-1/4	7	449.00	408.18	987.80	898.00	0.49	1.61	56000	123200	549.02	550
60	2-3/8	7-1/2	512.00	465.45	1126.40	1024.00	0.43	1.41	64000	140800	627.45	500
64	2-1/2	8	579.00	526.36	1273.80	1158.00	0.38	1.25	72000	158400	705.88	450
68	2-15/16	8-1/2	666.00	605.45	1465.20	1332.00	0.33	1.08	81000	178200	794.12	400
70	2-3/4	8-11/16	702.00	638.18	1544.40	1403.99	0.33	1.09	85000	187000	803.92	350
72	2-7/8	9	739.00	671.82	1625.80	1478.00	0.30	0.98	90000	198000	882.35	350
76	3	9-1/2	822.00	747.27	1808.40	1644.00	0.27	0.88	100000	220000	980.39	300
80	3-1/4	10	913.00	830.00	2008.60	1826.00	0.24	0.79	110000	242000	1078.43	300
84	3-1/2	10-1/2	1005.00	913.64	2211.00	2010.00	0.22	0.72	120000	264000	1176.47	250
88	3-15/16	11	1100.00	1000.00	2420.00	2200.00	0.20	0.66	131000	288200	1284.31	220
92	3-7/8	11-1/2	1221.00	1110.00	2686.00	2442.00	0.18	0.59	143179	314994	1403.72	220
96	3-3/4	12	1300.00	1181.00	2860.00	2598.00	0.16	0.52	154000	338800	1509.80	220
*104	4-1/2	13	-	1400.00	-	3058.00	0.15	0.49	178000	391600	1745.10	*200
*112	1-7/8	14	-	1295	-	2849.00	0.12	0.39	207200	455840	2031.37	*160
*120	5	15	-	1403	-	3086.00	0.10	0.33	235800	518760	2311.76	*150

*104 mm available only in 200 mtr Length . *112 mm available only in 160 mtr Length *120 mm available only in 150 mtr Length

*Manufactured in accordance with 'OCIMF' guidelines.

POLYAMIDE / NYLON ROPE 12 - STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	Mtr/Kg	Feet/Kg	MBL			Maximum Length- Mtr
									Kgf	Lbs	KN	
52	2-1/16	6-1/2	387.00	351.82	851.00	773.64	0.57	1.86	54000	118800	529.41	650
56	2-1/4	7	449.00	408.18	988.00	898.18	0.49	1.61	61200	134640	600.00	550
60	2-3/8	7-1/2	512.00	465.45	1126.00	1023.64	0.43	1.41	70400	154880	690.20	500
64	2-1/2	8	579.00	526.36	1274.00	1158.18	0.38	1.25	79200	174240	776.47	450
68	2-15/16	8-1/2	666.00	605.45	1465.00	1331.82	0.33	1.08	89000	195800	872.55	400
72	2-7/8	9	739.00	671.82	1626.00	1478.18	0.30	0.98	98900	217580	969.61	350
76	3	9-1/2	822.00	747.27	1808.00	1643.64	0.27	0.88	110000	242000	1078.43	300
80	3-5/32	10	913.00	830.00	2009.00	1826.36	0.24	0.79	121000	266200	1186.27	300
84	3-1/2	10-1/2	1000.00	909.09	2200.00	2000.00	0.22	0.72	132000	290400	1294.12	250
88	3-7/16	11	1100.00	1000.00	2420.00	2200.00	0.20	0.66	144100	317020	1412.75	220
92	3-7/8	11-1/2	1110.00	1009.09	2686.00	2441.82	0.20	0.65	157000	345400	1539.22	220
96	3-13/16	12	1339.00	1217.00	2945.00	2677.00	0.16	0.52	169000	371800	1656.86	220
100	3-15/16	12-3/8	1420.00	1290.91	3124.00	2840.00	0.15	0.49	176000	387200	1725.49	220
*104	4-1/2	13	-	1400.00	-	3080.00	0.14	0.45	181300	398860	1777.45	*200
*112	1-7/8	14	-	1304.00	-	2868.00	0.12	0.39	208000	457600	2039.22	*160
*120	5	15	-	1403.00	-	3086.00	0.10	0.32	238076	523767	2334.08	*150

*104 mm available only in 200 mtr Length . *112 mm available only in 160 mtr Length *120 mm available only in 150 mtr Length

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/9. Specifications subject to $\pm 5\%$ variation.



Properties :

- Material: Polyamide
- Construction: 3-4-8-12 Strand
- Colour: White
- Specific Gravity: 1.14
- Melting Point: 220 °c
- U.V Resistance: Average
(as per customer request)
- Dry & Wet conditions: Strength
Declines When Wet
- Abrasion Resistance: Good
- Classification: GL & Mills
- Floats/Sinks: Sinks

Polypropylene Multi

Product Description

Polypropylene multifilament ropes are soft , hold knots well, and are suitable both for leisure (camping, yachting) and for work. Because they are soft and ,they are also suitable as ropes for cable railings and other industrial use .

A stronger kind of polypropylene composed of thin, soft fibers which makes it look similar to nylon. The basic colour is natural white. Available in twisted as well as braided rope.

Applications

- Mooring, Haswer
- Tow-Line
- Marine Works
- Safety Net
- Tug-line
- Various Fishing Industries
- Chemicals

POLYPROPYLENE MULTIFILAMENT ROPES 8 STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	MBL		
							Kgf	Lbs	KN
40	1-19/32	5	171.60	156.00	377.52	343.20	15600	34320	153.00
42	1-21/32	5-1/4	188.10	171.00	413.82	376.20	17000	37400	167.00
44	1-3/4	5-1/2	206.14	187.40	453.51	412.28	18500	40700	181.50
45	1-13/16	5-5/8	215.60	196.00	474.32	431.20	19400	42680	190.00
48	1-7/8	6	246.40	224.00	542.08	492.80	21700	47740	213.00
50	2	6-1/4	267.30	243.00	588.06	534.60	23500	51700	231.00
52	2-1/16	6-1/2	288.20	262.00	634.04	576.40	25100	55220	246.00
55	2-5/32	6-7/8	322.30	293.00	709.06	644.60	28100	61820	276.00
56	2-1/4	7	334.40	304.00	735.68	668.80	28800	63360	283.00
60	2-3/8	7-1/2	383.90	349.00	844.58	767.80	33100	72820	325.00
64	2-1/2	8	444.40	404.00	977.68	888.80	37200	81840	365.00
65	2-9/16	8-1/16	451.00	410.00	992.20	902.00	38400	84480	377.00
70	2-3/4	8-11/16	523.60	476.00	1151.92	1047.20	44000	96800	432.00
72	2-7/8	9	554.40	504.00	1219.68	1108.80	46200	101640	453.00
75	3	9-1/4	600.60	546.00	1321.32	1201.20	50100	110220	491.00
80	3-5/32	10	683.10	621.00	1502.82	1366.20	56500	124300	554.00
85	3-3/8	10-1/2	771.10	701.00	1696.42	1542.20	63200	139040	620.00
88	3-7/16	11	827.20	752.00	1819.84	1654.40	65500	144100	659.00
90	3-9/16	11-1/8	864.60	786.00	1902.12	1729.20	70200	154440	689.00
95	3-3/4	11-3/4	962.50	875.00	2117.50	1925.00	77800	171160	763.00
96	3-13/16	12	983.40	894.00	2163.48	1966.80	78700	173140	772.00
100	3-15/16	12-3/8	1067.00	970.00	2347.40	2134.00	85400	187880	838.00

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to $\pm$ 5% variation.

*Manufactured in accordance with 'OCIMF' guidelines.

PP MULTIFILAMENT ROPE



Axiom
Cordages Limited

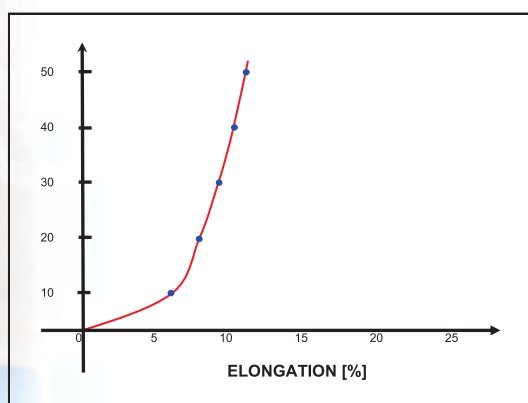
Polypropylene Multi

Properties

- Construction: 3 & 8 Strand
- Colour: White Colour
- Specific Gravity: 0.91
- Melting Point: 165 °c
- U.V Resistance: Stabilised As Per Customer Request
- Dry & Wet conditions: Identical Wet & Dry Strengths
- Abrasion Resistance: Average
- Classification: GL & Mills
- Floats/Sinks: Floats



PERCENTAGE ELONGATION (STRETCH) OF POLYPROPYLENE ROPE



Polypropylene Multifilament Ropes 3 STRAND

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 220 Mtrs. in Lbs.	Wt. Per 200 Mtrs. in Lbs.	MBL		
							Kgf	Lbs	KN
6	1/4	3/4	3.92	3.56	8.62	7.83	400	880	4.31
7	9/32	7/8	5.35	4.86	11.76	10.69	600	1320	5.69
8	5/16	1	6.97	6.34	15.34	13.95	700	1540	7.35
9	3/8	1-1/8	8.82	8.02	19.41	17.64	900	1980	9.12
10	13/32	1-1/4	10.89	9.90	23.96	21.78	1100	2420	11.10
11	7/16	1-3/8	13.20	12.00	29.04	26.40	1300	2860	13.20
12	15/32	1-1/2	15.73	14.30	34.61	31.46	1700	3740	16.30
13	1/2	1-5/8	18.04	16.40	39.69	36.08	1900	4180	18.70
14	9/16	1-3/4	20.90	19.00	45.98	41.80	2200	4840	21.70
16	5/8	2	27.50	25.00	60.50	55.00	2800	6160	27.80
18	23/32	2-1/4	34.65	31.50	76.23	69.30	3500	7700	34.50
19	3/4	2-3/8	38.72	35.20	85.18	77.44	3900	8580	38.30
20	13/16	2-1/2	42.90	39.00	94.38	85.80	4300	9460	42.10
22	7/8	2-3/4	52.25	47.50	114.95	104.50	5100	11220	50.20
24	15/16	3	62.15	56.50	136.73	124.30	6000	13200	59.00
25	1	3-1/8	67.10	61.00	147.62	134.20	6500	14300	63.30
26	1-1/32	3-1/4	72.60	66.00	159.72	145.20	7000	15400	68.50
28	1-1/8	3-1/2	84.70	77.00	186.34	169.40	8000	17600	78.60
30	1-3/16	3-3/4	96.25	87.50	211.75	192.50	9100	20020	89.30
32	1-1/4	4	110.00	100.00	242.00	220.00	10300	22660	101.00
34	1-11/32	4-1/4	124.30	113.00	273.46	248.60	11500	25300	113.00
35	1-3/8	4-11/32	130.90	119.00	287.98	261.80	12100	26620	119.00
36	1-7/16	4-1/2	138.60	126.00	304.92	277.20	12800	28160	126.00
38	1-1/2	4-3/4	155.10	141.00	341.22	310.20	14100	31020	138.00
40	1-19/32	5	171.60	156.00	377.52	343.20	15600	34320	153.00
42	1-21/32	5-1/4	188.10	171.00	413.82	376.20	17000	37400	167.00
44	1-3/4	5-1/2	206.14	187.40	453.51	412.28	18500	40700	181.50
45	1-13/16	5-5/8	215.60	196.00	474.32	431.20	19400	42680	190.00
48	1-7/8	6	246.40	224.00	542.08	492.80	21700	47740	213.00
50	2	6-1/4	267.30	243.00	588.06	534.60	23500	51700	231.00
52	2-1/16	6-1/2	288.20	262.00	634.04	576.40	25100	55220	246.00
55	2-5/32	6-7/8	322.30	293.00	709.06	644.60	28100	61820	276.00
56	2-1/4	7	334.40	304.00	735.68	668.80	28800	63360	283.00
60	2-3/8	7-1/2	383.90	349.00	844.58	767.80	33100	72820	325.00
64	2-1/2	8	444.40	404.00	977.68	888.80	37200	81840	365.00
65	2-9/16	8-1/16	451.00	410.00	992.20	902.00	38400	84480	377.00
70	2-3/4	8-11/16	523.60	476.00	1151.92	1047.20	44000	96800	432.00
72	2-7/8	9	554.40	504.00	1219.68	1108.80	46200	101640	453.00
75	3	9-1/4	600.60	546.00	1321.32	1201.20	50100	110220	491.00
80	3-5/32	10	683.10	621.00	1502.82	1366.20	56500	124300	554.00
85	3-3/8	10-1/2	771.10	701.00	1696.42	1542.20	63200	139040	620.00
88	3-7/16	11	827.20	752.00	1819.84	1654.40	65500	144100	659.00
90	3-9/16	11-1/8	864.60	786.00	1902.12	1729.20	70200	154440	689.00
95	3-3/4	11-3/4	962.50	875.00	2117.50	1925.00	77800	171160	763.00
96	3-13/16	12	983.40	894.00	2163.48	1966.80	78700	173140	772.00

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to $\pm 5\%$ variation.

Characteristics

- water resistant, floatable on water, zero absorption
- high strength and abrasion resistance
- excellent knotability
- resistant to uv radiation
- resistant in chemically active environments
- excellent insulation capacity.
- it is easy to handle as it is smooth and flexible by manufacturing The rope with strands that are microscopically thin at 0.05mm Using the latest precision extruding technologies
- it has satisfactory energy absorption, shock resistance and restoration ability
- it is floats on water as it's lightest among synthetic fiber ropes and most resistant to acid, alkaline, oil and solvent, etc



HDPE / PE / COLOURED

Product Description

High density polyethylene ropes are durable and find widespread usage in the fishing and maritime industry. These ropes are heavier than polypropylene ropes and are manufactured from virgin quality raw materials under strict quality control to international standards. The range includes 3 and 4 strand ropes.

Applications

Fishing and others commercial applications

Availability

Available in 3 & 4 strand construction

***3 & 4 strand can be provided in plastic & wooden reels palletized, if required, at extra cost.**

POLYETHYLENE FLEXI



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HDPE / PE / COLOURED

Characteristics

- Higher Abrasion resistance
- Shock absorption
- Excellent wet strength retention
- Torque free
- Balanced and easy to handle
- Superior working in rigorous conditions
- Excellent abrasion resistance



3 strand polyethylene flexi / HDPE / PE

Dia (mm)	Dia (Inch)	Cir. (Inch)	Wt. Per 220 Mtrs. in Kgs.	Wt. Per 200 Mtrs. in Kgs.	Wt. Per 200 Yard	Mtr/Kg	Feet/Kg	MBL			Maximum Length- Mtr
								Kgf	Lbs	KN	
6	7/32	3/4	4.09	3.72	3.40	53.79	176.43	380	836	3.73	800
8	5/16	1	7.27	6.61	6.00	30.26	99.26	650	1430	6.37	660
10	3/8	1-1/4	11.30	10.27	9.40	19.47	63.86	990	2178	9.71	450
12	1/2	1-1/2	16.36	14.87	13.60	13.45	44.11	1420	3124	13.92	330
14	9/16	1-3/4	22.27	20.25	18.60	9.88	32.40	1990	4378	19.51	1800
16	5/8	2	28.90	26.27	24.10	7.61	24.97	2430	5346	23.82	1350
18	3/4	2-1/4	36.81	33.46	30.78	5.98	19.60	3030	6666	29.71	1100
20	13/16	1-1/2	45.45	41.32	38.00	4.84	15.88	3680	8096	36.08	850
22	7/8	2-3/4	55.00	50.00	46.00	4.00	13.12	4400	9680	43.14	700
24	1	3	65.45	59.50	54.74	3.36	11.03	5170	11374	50.69	850
26	1-1/13	3-1/4	77.00	70.00	64.40	2.86	9.37	6025	13255	59.07	700
28	1-1/8	3-1/2	89.09	80.99	74.50	2.47	8.10	6880	15136	67.45	600
30	1-1/4	3-3/4	102.27	92.97	85.53	2.15	7.06	7850	17270	76.96	550
32	1-5/16	4	116.36	105.78	97.20	1.89	6.20	8820	19404	86.47	500
34	1-3/8	4-1/4	132.00	120.00	110.00	1.67	5.47	9910	21802	97.16	400
36	1-7/16	4-1/2	147.27	133.88	123.00	1.49	4.90	11000	24200	107.84	350
38	1-1/2	4-3/4	164.00	149.09	136.00	1.34	4.40	12300	27060	120.59	330
40	1-5/8	5	181.00	164.55	150.00	1.22	3.99	13400	29480	131.37	300
44	1-3/4	5-1/2	222.00	201.82	184.60	0.99	3.25	16100	35420	137.80	220
48	1-15/16	6	261.81	238.01	217.77	0.84	2.76	18800	41360	184.31	220
50	2	6-1/4	289.00	262.73	240.00	0.76	2.49	22000	48400	215.69	220
52	2-1/16	6-1/2	312.00	283.64	259.00	0.71	2.31	22900	50380	224.51	220
56	2-1/4	7	362.00	329.09	301.00	0.61	1.99	26400	58080	258.82	220
60	2-3/8	7-1/2	415.00	377.27	345.00	0.53	1.74	30300	66660	297.06	220
64	2-1/2	8	462.00	420.00	384.00	0.48	1.56	35400	77880	347.06	220
68	2-15/16	8-1/2	517.00	470.00	430.00	0.43	1.40	38000	83600	372.55	220
70	2-3/4	8-11/16	548.00	498.18	455.00	0.40	1.32	40350	88770	395.59	220
72	2-7/8	9	577.00	524.55	480.00	0.38	1.25	42600	93720	417.65	220

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6. Specifications subject to $\pm$ 5% variation.



Tails – PP / PES / Nylon



Product Description

11 meters finished length (from eye to eye) with 1.8 meters eye splice at both ends, with five tucks covered with canvas.

SLINGS

Tails – Pp / Pes / Nylon



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MOORING TAILS (Slings)

8 strand Nylon

Size	Weight OF 11 Meter Mooring Tail			
	Kgs.	Lbs.	Cir"	Mbl in Kgf
48	25.00	55	6"	42000
56	35.00	77	7"	56000
64	45.00	99	8'	72000
72	60.00	132	9"	90000
80	75.00	165	10'	110000
88	95.00	209	11'	131000
96	125.00	275	12"	154000

8 strand PP

Size	Weight OF 11 Meter Mooring Tail			
	Kgs.	Lbs.	Cir"	Mbl in Kgf
48	18.00	39.60	6"	39500
56	25.00	53.90	7"	52000
64	32.00	70.40	8'	67550
72	41.00	88.88	9"	84500
80	50.00	110.00	10'	104000
88	61.00	132.88	11'	125000
96	72.00	157.08	12"	148000

8 strand Marina Maxi

Size	Weight OF 11 Meter Mooring Tail			
	Kgs.	Lbs.	Cir"	Mbl in Kgf
48	20.00	44.00	6"	43600
56	28.00	61.60	7"	58100
64	36.00	79.20	8'	74600
72	45.00	99.00	9"	93300
80	56.00	123.20	10'	115000
88	67.00	147.40	11'	138000
96	79.00	173.80	12"	163000

8 strand Polyester

Size	Weight OF 11 Meter Mooring Tail			
	Kgs.	Lbs.	Cir"	Mbl in Kgf
48	30.00	66.00	6"	38600
56	40.00	88.00	7"	51500
64	56.00	123.20	8'	66600
72	73.00	160.60	9"	83000
80	89.00	195.80	10'	10200
88	111.00	244.20	11'	122000
96	146.00	321.20	12"	144000

8 strand Super Flex

Size	Weight OF 11 Meter Mooring Tail			
	Kgs.	Lbs.	Cir"	Mbl in Kgf
48	21.00	46.20	6"	47400
56	29.00	63.80	7"	63200
64	39.00	85.80	8'	81600
72	48.00	105.60	9"	102000
80	59.00	129.80	10'	125000
88	70.00	154.00	11'	148000
96	85.00	187.00	12"	174000

All also available in 12 strand

Note: The MBL should never be considered as the safe working load of Rope. For the method of calculating safe working load please refer factor of safety = Breaking force/6 & 9. Specifications subject to $\pm 5\%$ variation.

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[illegible]

Mooring Raw Material

Different Fibers, Different Characteristics, Different Result

FIBER	NYLON POLYAMIDE	POLYESTER AOXI FLEX	PP DAN STRONG	PE POLYETHYLENE	MIXED PP + PES
TANCITY (GF/DENIER)	7.5 TO 9.0	7.5 TO 8.5	6.5 TO 8.0	3.5 TO 5.5	
SPECIFIC GRAVITY KG/DM3	1.14	1.38	0.91	0.96	0.99 - 1.14
ELONGATION AT BREAK %	20 TO 34 %	12 TO 18 %	10 TO 18 %	16 TO 24 %	12 TO 18 %
CREEP RESISTANCE	Moderate	Low	High	High	Moderate
SHOCK LOAD ABSORPTION	Excellent	Good	Good	Fair	Good
MELTING POINT APP .OC	220 °c	265 °c	165 °c	150 °c	165 °c / 265 °c
WATER ABSORPTION %	4%	<1%	No	No	Very Low
WET STRENGTH COMPARED TO DRY STRENGTH	85 - 90 %	100%	100%	100%	100%
UV RESISTANCE	Good	Good	Good	Fair	Good
RESISTANCE TO ABRASION	Very Good	Very Good	Good	Fair	Very good

FIBER ROPES

Fiber	Specific Gravity	Melting Point
Polyamide (Nylon)	1.14	220 °c
PP/PE- MIXED ROPE	0.91	165 °c
Polyester- Aoxi Flex	1.38	265 °c
Melt Mixture (Marina Maxi) High Modulus	0.99	185 °c
Polyethylene	0.96	150°c
Super Flex PP & Polyester	0.91 - 1.38	165 – 265 °c

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Industrial Services GmbH.

Certificate No. GLIS/14/RR/04/7-01

Test Certificate

This is to certify that, at the request of **M/s. AXIOM CORDAGES LTD.**, the undersigned surveyor to this society attended their Approved works, on 07.01.2014 for the purpose of inspection of the below mentioned items.

GLIS order No. : 0860-13-11028-403
Manufacturer : M/s. AXIOM CORDAGES LTD., Maharashtra, India.
 (ACL Ref: BO/ACL/T/M/14 Dt. 06.01.2014)
Place of inspection : M/s Axiom Cordages Ltd, Boisar, Maharashtra.

Materials / Items : 8 – STRANDS POLYPROPYLENE, MONOFILAMENTS, PLAITED, SOFT LAY ULTRA VIOLET RESISTANCE NATURAL WHITE COLOUR WITH TWO BROWN T.Y. ROPES WITH 6 – FEET CANVAS COVERED & SIX TUCKS EYES SPLICED AT BOTH ENDS.

Items Inspected

Size	No. of Coils	Coil Bale No	Length (as confirmed by manufacturer)	Minimum required Breaking Strength (in Kg/L)	Breaking strength of samples (in Kg/L)
12" CIR	01	7015	200 Mtrs.	136000	137904

Inspection /

Verification Performed: Selection of random samples, Witnessing Breaking Load Testing.

Identification : By Name of the Client /Item/ Bale No /Size –CIR for 200 Mtrs. and has been hard stamped on Lead seal As “611”.

Results : The test gave no reason for objection, it is confirmed that the ropes comply with the Minimum Guaranteed breaking strength requirement of M/s. AXIOM CORDAGES LTD.

Note : Testing performed as per BS EN ISO 2307: 2010. Certificate issued based on test results of randomly drawn sample no. 7018 from Coil Bale no. 7015 TO 7020.

The inspection performed and certificate issued without prejudice to whomsoever it may concern.



Surveyor Mr. Pravin Wadkar

Arjun Kapartiwar
ARUN KAPARTIWAR
 For Germanischer Lloyd
 Industrial Services GmbH

Date:
 08.01.2014

Subject to the latest general terms of the Institute of Germanischer Lloyd Industrial Services GmbH

Current Address: 4th Floor, Industrial Building, Sector 13, Gurgaon, New Gurgaon and G.T. Road, V-12, Delhi - 122002

Managing Director: Late Wilsingh Deshpande / Arundhanu Sahasrabudhe

Germanischer Lloyd Industrial Services GmbH, Registered Office: Bundesstrasse 40, 20077 Hamburg / Germany

Place of performance and jurisdiction is in Hamburg. The latest edition of the General Terms and Conditions of Germanischer Lloyd Industrial Services GmbH is applicable. German law applies.

Certificate

GL 
GL Systems Certification

GL Systems Certification herewith certifies, that the company

Axiom Cordages Ltd
Gal 114B & 120C, Mahapeon Road, Bolegaon Village, Bosair (East), Taluka Palghar, Dist. Thane 401 501

has established and maintains a Management System relevant for

**"Manufacture and supply of Polypropylene Ropes & Yarn,
High Density Polyethylene Ropes & Yarn, Nylon Ropes &
Yarn, Polyester Ropes & Yarn and Polypropylene -
Polyester Mixed Ropes."**

GL Systems Certification confirms that the Management System of the above mentioned company has been assessed and found to be in accordance with the requirements of the following standard

ISO 9001:2008

The validity of this certificate is subject to the company applying and maintaining its Management System in accordance with the standard indicated. This will be monitored by GL Systems Certification.

The certificate is valid from **16.08.2012** until **15.08.2015**

GL Systems Certification Hub India

Certificate No. **QS-7231HH**


Kaushik Seal

 **DAkkS**
Deutsche
Akkreditierungsstelle
D-24106 KIEL

Germanischer Lloyd AG, Competence Centre Systems Certification, Brookstone 18, D-20467 Hamburg

UTILITY & FUNCTIONS OF ROPES

• ROPE INSPECTION

This is a very critical role and you need to have some degree of expertise to ascertain the quality and attribute of the rope

- 1) Some rope on the face of it shows the aging and wear and tear, such ropes must be avoided.
- 2) Rope should be inspected regularly for evidence of chemical attack, kinking, and surface abrasion including major yarn or strand cuts and heat fusion indicated by glazed or heavy fuzzed areas.
- 3) Braided ropes should be examined along their entire length for areas of stiffening or inconsistent diameter, which can be sign of internal damage or core failure due to overloading or severe shock loads. Both outer and inner rope fiber contribute to be strength of the rope and when either is worn, rope is naturally weakened.

- 4) No type of visual inspection is a guarantee to an accurate determination of residual strength. When the fibers show wear in any given area. If limited to one small section the damaged area may be cut out and the re spliced, otherwise the rope should be downgraded or replaced.

• BENDING RADIUS

Sharp bends around any place of equipment should be avoided as, under load, it decreases rope strength substantially and may cause premature damage and failure. The diameter on fixed pin termination should be at least 3 times the rope diameter and on rotating sheave blocks, it should be 10 times the rope diameter for twisted ropes and 8 times the rope diameter for braided ropes.

• SPLICING & KNOTS

Below are some general suggestion around SPLICING & KNOTS

- 1) The use of knots can reduce rope strength over fifty percent so whenever possible splices should be used instead. Variations up to twenty five percent can occur with poor splicing or very short length. According to each situation always take into consideration the corresponding reduction to the rope strength adjusting the working loads accordingly. When splices are used always use recommended splicing procedure of the manufacturer.
- 2) The length of an eye in rope should be minimum of three times, and preferably five times the diameter of the item around which it is to be used. This will ensure that the angle between the two legs of the eye will not cause a tearing action to the throat of the eye. For instance if the eye of a mooring line is a passing around a 600 mm diameter bollard then the eye should be minimum of 1.8 meters.

• STORAGE

For the long life and to maintain the effectiveness of the rope below measure are highly recommended:

- 1) Ropes should be stored on a clean and dry place without exposing it to the direct sunlight or any other potential substance or form that can cause damage to the rope.

UTILITY & FUNCTIONS OF ROPES

- 2) It is advisable not to keep Ropes on the floor and should be kept at some distance away from metal walls or steam pipes to avoid the risk of possible corrosion or the typical wear and tear.
- 3) To maintain the longevity of the ropes, it should never be stored on concrete and dirty floors and never to be dragged through the rough surface or else the sand accumulated on the rope will cause damage to the inside fibers.
- 4) In case of long term storage, ropes should be cleaned with fresh water to reduce salt crystals that may affect its life and efficiency

- **HANDLING**

Handling is very important criteria to maintain the life and quality of the ropes, below are some pre-requisites for effective handling of the ropes:

- 1) When a rope is supplied in a coil it should always be uncoiled from the inside so that the first turn comes off from the bottom in a counter- clockwise direction.
- 2) When supplied on reels, it must be allowed to freely rotate so that the rope can be drawn off the top layer. Never take a rope from reel lying on its side.
- 3) A wrong coil or uncoil on a twisted rope will provoke kinking and hockling. Three and four strand ropes should be coiled in clockwise direction (In lay's direction) and uncoiled in a counter –clockwise direction to avoid hockling and kinking.
- 4) Braided ropes cannot be kinked or hockled, however, twist can be produced in to ropes during service. Excessive twist may cause an imbalance between the right and left hand strands and should be removed as soon as possible by counter rotating the rope when it is relaxed. The best method for storing both braided and twisted ropes is in an eight figure fashion.

- **ROPE SAFETY**

Rope Handling is also an important aspect, if not handles properly it may cause grievous injuries, below is some guidance on rope safety:

- 1) Always follow correct safety procedure; basically never stand in line with a rope under tension. If a rope fails it can be drawn back with sufficient force to cause serious injuries.
- 2) It is always advisable to train the staff with the correct procedure and equip them with the right tools for appropriate handling and storage of the ropes

- **WORKING LOADS**

Working loads are the loads that a rope is subjected to when in activity. They are normally expressed as a percentage of new rope strength and should not exceed 20% of published strengths (many industries are subject to special working loads regulations that supersede manufacturer's recommendations)

- ROPE INSPECTION
- BENDING RADIUS
- SPLICING & KNOTS
- STORAGE
- HANDLING
- ROPE SAFETY
- WORKING LOADS

When sever overloaded or shock loads takes place, rope can suffer damages and consequently strength losses without any visible indication, which may weaken the rope causing it to break on next use, even if used under normal working loads. Sharp bends should be avoided as, under load, it decreases rope strength substantially and can cause premature failure

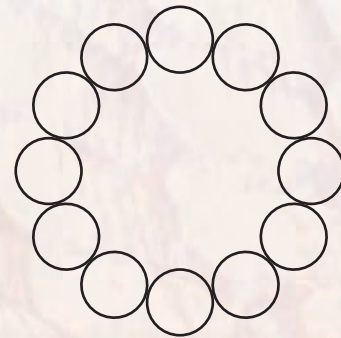
ROPE STRAND CONSTRUCTIONS

Rope construction plays an important role in resistance to wear and abrasion. Braided ropes have a basically round, smooth construction that tends to flatten out some-what on a bearing surface. This distributes the wear over a much greater area, as opposed to the crowns of a three-stand.

All ropes should be protected against sharp and abrasive surface. Wire ropes tend to score and gouge chocks and bitts creating cutting edges that can damage synthetic ropes. Weld beads on repaired capstands, fairleads, etc. are equally damaging unless dressed down smoothly.

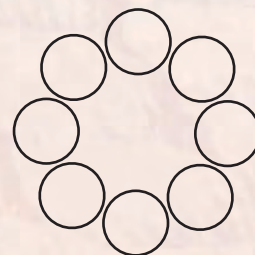
12 Strand Braided

12 Strands ropes are constructed of left and right-hand laid Strands to give a torque-free balanced construction and its round shape provides excellent abrasion resistance due to a greater surface of contact and may offer higher breaking strengths over conventional constructions. They are easily spliceable and provide a good rope structure for mooring lines.



8 Strand Braided

8 Strand ropes also called square braided or plaited are constructed of left and right-hand laid strands to give a torque-free rope. They are easily spliceable and provide an excellent rope structure for mooring lines.



3 or 4 Strand Twisted

3 or 4 Strands is the oldest and simplest rope construction, consisting of 3 or 4 twisted strands laid together. Twisted construction may retain some torque, and therefore tend to kink up, and to rotate under load. Twisted ropes are hard wearing and easily spliced.





Axiom
Cordages Limited





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