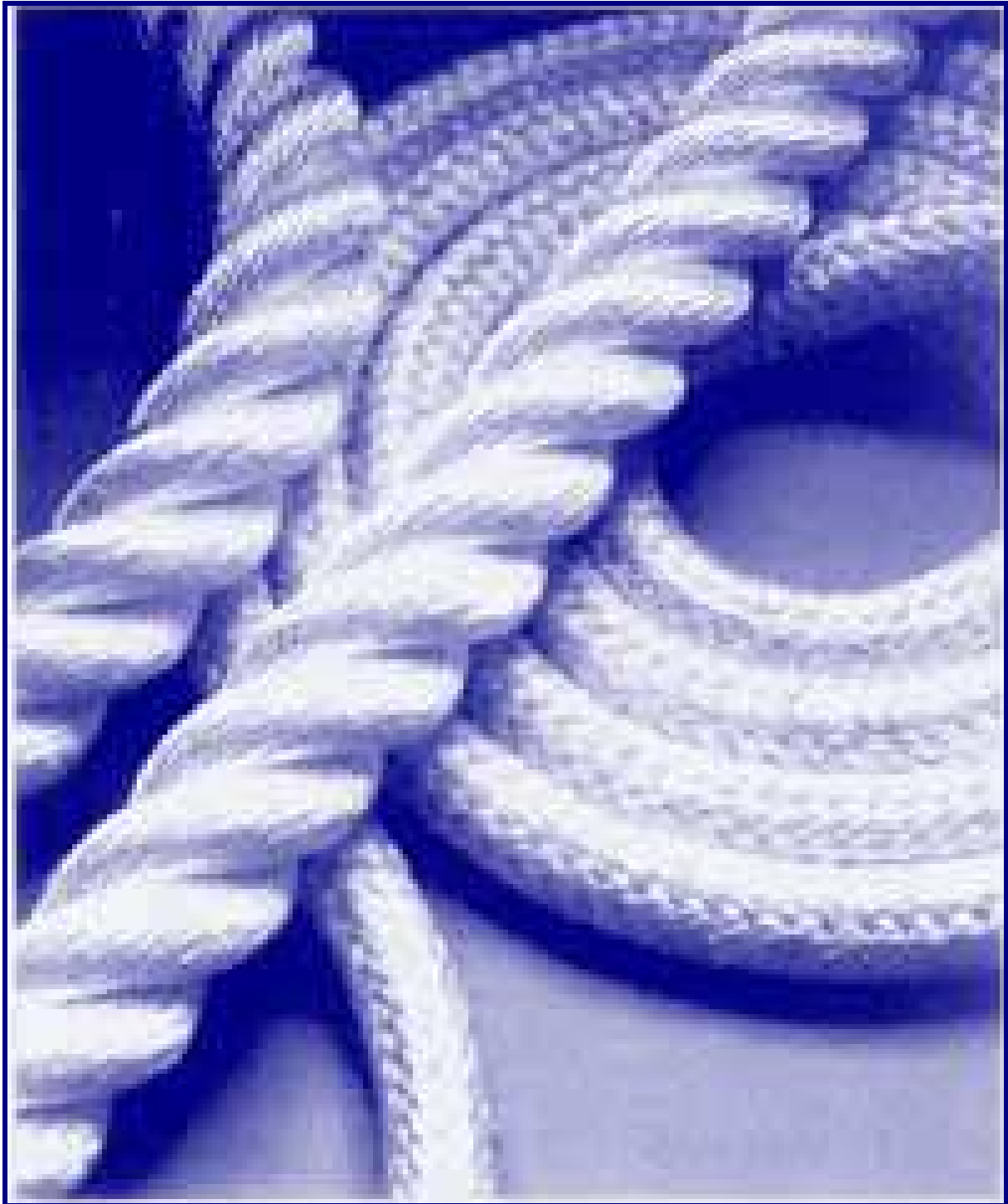


# ROPES



**SEDRA MARINE**

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# ROPES

## Steelite rope

Steelite ropes are available in either 3-strand, 8-strand Multiplait or Superline circular braided constructions.

### Extension :

20 % breaking load, 1,4 % extension

40 % breaking load, 1,8 % extension

80 % breaking load, 2,8 % extension

Breaking load 3,5 % extension

**Relative density :** HMPE fibre 0,97

**Temperature resistance :** 145°C-155°C

**Resistance :** ultraviolet and chemicals

**Typical Applications :** towing, ROV and submersible lift ropes, ship's mooring hawsers, oceanographic cables, winch lines, fishing ropes, heavy duty slings, tethers.

B-Strand Multiplait Steelite					Superline Circular Braided Steelite		
Dia. mm	Size No.	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes
24	3	28.0	32.6	35.8			
28	3½	38.0	44.0	48.4	50.5	47.5	52.3
32	4	49.0	56.5	62.1	64.2	60.4	66.4
36	4½	62.0	71.2	78.3	81.4	73.6	81.0
40	5	76.0	86.7	95.3	92.8	90.0	99.0
44	5½	92.0	104	114	122	107	118
48	6	110	124	136	167	126	139
52	6½	129	145	159	192	147	162
56	7	150	167	183	210	169	186
60	7½	172	189	207	229	193	212
64	8	196	215	236	271	243	267
68	8½	221	240	264	292	269	296
72	9	248	269	295	310	302	332
80	10	306	331	364	372	373	410
88	11	367	401	441	467	453	498
96	12	440	477	524	529	533	586
104	13	514	560	616	599	626	689
112	14	598	650	715	681	733	806
120	15	687	747	821	762	839	923
128	16	783	849	933	887	946	1041
136	17	885	959	1050	979	1066	1173
144	18	992	1070	1180	1084	1199	1319
160	20	1220	1330	1460	1300	1479	1627
168	21	1350	1460	1600	1424	1639	1803
176	22	1480	1600	1760	1547	1800	1980
184	23	1610	1760	1930	1675	1950	2145
192	24	1750	1910	2100	1815	2120	2332

## Aramid rope

Aramid ropes are available in Superline circular braided construction.

### Extension :

20 % breaking load, 2 % extension

40 % breaking load, 3,7 % extension

80 % breaking load, 5 % extension

Breaking load 6 % extension

**Relative density :** 1.4 (varies subject to sheathing)

**Temperature resistance :** 500°C (except outside sheath 150°C)

**Resistance :** ultraviolet and chemicals

**Typical Applications :** buoy moorings, cable recovery ropes (deep ocean), fishing, tanker mooring, tethers.

Superline Circular Braided Aramid				
Dia. mm	Size No.	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes
16	2	19.0	12.2	13.4
18	2½	24.0	15.4	16.9
20	2½	29.0	18.6	20.5
22	2¾	35.0	22.4	24.6
24	3	42.0	27.0	29.7
28	3½	57.0	37.0	40.7
32	4	75.0	48.0	52.8
36	4½	95.0	61.0	67.1
40	5	113	73.0	80.3
44	5½	137	88.0	96.8
48	6	161	105	116
52	6½	190	123	135
56	7	225	145	160
64	8	286	185	204
72	9	360	232	255
80	10	450	290	319
88	11	545	351	386
96	12	648	418	460
104	13	760	491	540
112	14	880	558	614
120	15	1010	641	705
128	16	1150	713	784
136	17	1300	805	886
144	18	1460	884	972
160	20	1800	1067	1174
168	21	1980	1176	1294
176	22	2180	1262	1388

# ROPES

## Supermix rope

Supermix ropes are available in 3-strand or 8-strand Multiplait constructions

### Extension :

20 % breaking load, 10 % extension

40 % breaking load, 15 % extension

80 % breaking load, 20 % extension

Breaking load 24 % extension

**Relative density :** 1.10

**Temperature resistance :** high resistance to heat generated by friction

**Resistance :** chemicals except alkalis

**Typical Applications :** ocean and harbour towage, towing springs, ship's mooring, tension winch moorings, fish cage moorings.

## Hypamix rope

Hypamix is available for heavy duty offshore applications and is a 8-strand multiplait construction.

### Extension :

20 % breaking load, 10 % extension

40 % breaking load, 15 % extension

80 % breaking load, 20 % extension

Breaking load 24 % extension

**Relative density :** 1.10

**Temperature resistance :** high resistance to heat generated by friction

**Resistance :** ultraviolet and chemicals except alkalis

**Typical Applications :** ocean and harbour towage, towing springs, ship's mooring, tension winch moorings, fish cage moorings, single point moorings.

Supermix 3-Strand and 8-Strand Multiplait					Hypamix 8-Strand Multiplait		
Dia. mm	Size No.	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes
12		9.10	2.47	2.72			
14		12.5	3.46	3.81			
16	2	15.4	4.47	4.92			
18	2 1/4	18.5	5.56	6.12			
20	2 1/2	24.0	6.87	7.56			
22	2 3/4	28.4	8.28	9.11			
24	3	34.0	9.92	10.9			
28	3 1/2	47.0	13.3	14.6			
32	4	61.0	17.1	18.8			
36	4 1/2	76.0	21.0	23.1			
40	5	95.0	26.1	28.7			
44	5 1/2	115	31.0	34.1			
48	6	136	36.5	40.2	150	49.3	54.7
52	6 1/2	160	42.6	46.9	176	57.8	64.2
56	7	185	48.7	53.6	203	64.5	71.6
60	7 1/2	212	54.3	59.7	233	74	82.2
64	8	242	63.1	69.4	265	84.7	94.1
72	9	306	78.6	86.4	336	104.5	116
80	10	378	96.4	106	415	129	143
88	11	457	116	127	501	156	173
96	12	545	136	150	597	185.5	206
104	13	640	158	174	700	220	244
112	14	740	180	198	810	254	282
120	15	850	207	228	930	291	323
128	16	970	234	258	1060	329	365
136	17	1095	264	290	1200	371	412
144	18	1220	294	324	1340	414	460
152	19	1359	328	361	1500	463	514
160	20	1510	360	396	1660	513	570
168	21	1660	398	438	1830	566	628
176	22	1830	436	480	2010	621	690
184	23	2000	480	528	2200	679	754
192	24	2180	512	563	2400	739	821

# ROPES

## Polyester rope

Polyester ropes are available in either Hercules 3-strand and 8-strand Multiplait or Superline circular braided constructions

### Extension :

20 % breaking load, 12 % extension

40 % breaking load, 20 % extension

80 % breaking load, 27 % extension

Breaking load 30 % extension

Relative density : 1.38

Temperature resistance : - 40°C to 260°C

Resistance : ultraviolet and chemicals (except Alkalis)

Typical Applications : towing springs, buoys moorings, deep sea cable recovery ropes, Capstan hauling rope.

Hercules 3-Strand and 8-Strand Multiplait Polyester					Superline Circular Braided Polyester		
Dia. mm	Size No.	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes
6		3.00	0.78	0.85			
8		5.10	1.32	1.45			
10		8.10	2.06	2.29			
12		11.6	3.11	3.45			
14		15.7	3.98	4.42			
16	2	20.5	5.45	6.06	18.4	7.00	7.70
18	2 1/4	26.0	6.39	7.10	23.3	8.70	9.57
20	2 1/2	32.0	7.34	8.16	28.1	10.2	11.2
22	2 3/4	38.4	8.46	9.40	34.0	12.3	13.5
24	3	46.0	11.2	12.5	40.7	15.0	16.5
28	3 1/2	63.0	13.9	15.4	55.3	19.0	20.9
32	4	82.0	17.5	19.5	72.8	24.0	26.4
36	4 1/2	104	22.2	25.7	92.2	34.0	37.4
40	5	128	27.9	31.0	118	38.0	41.8
44	5 1/2	155	36.0	39.6	144	46.0	50.6
48	6	185	42.8	47.1	181	56.0	61.6
52	6 1/2	215	49.7	55.3	219	65.0	71.5
56	7	251	54.4	59.8	240	75.0	82.5
60	7 1/2	288	61.8	68.6	262	86.0	94.6
64	8	328	73.9	81.3	297	98.0	108
72	9	415	93.3	103	387	123	135
80	10	512	113	146	456	153	168
88	11	614	136	167	560	185	204
96	12	736	163	204	652	220	242
104	13	860	190	235	743	258	284
112	14	1000	222	271	836	293	322
120	15	1150	253	313	952	336	370
128	16	1310	284	355	1110	375	413
136	17	1480	323	397	1230	423	465
144	18	1660	358	439	1370	465	512
160	20	2040	443	527	1650	562	618
168	21	2250	486	600	1810	620	682
176	22	2470	533	642	1970	664	730
184	23	2700	579	694	2160	725	798
192	24	2930	630	752	2350	790	869



# ROPES

## Nylon rope

Nylon ropes are available in 3-strand or 8-strand Multi-plait Nylon and superline circular braided nylon.

**Extension :**

20 % breaking load, 10 % extension

40 % breaking load, 15 % extension

80 % breaking load, 20 % extension

Breaking load 34 % extension

**Relative density :** 1.14

**Temperature resistance :** 250°C

**Resistance :** good to alkalis at normal temperatures but limited resistance to acids

**Typical Applications :** towing, ship's moorings, single point mooring hawsers, fish cage moorings, lifting, cargo handling, general purpose.

Cornwall 3-Strand and 8-Strand Multiplait Nylon					Superline Circular Braided Nylon		
Dia. mm	Size No.	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes
6		2.37	0.75	0.83			
8		4.20	1.35	1.49			
10		6.50	2.08	2.29			
12		9.40	3.00	3.30			
14		12.8	4.10	4.51			
16	2	16.6	5.30	5.83	16.0	5.29	5.88
18	2½	21.0	6.70	7.37	19.2	6.82	7.58
20	2½	26.0	8.30	9.13	22.5	8.58	9.53
22	2¾	31.5	10.0	11.0	26.3	10.5	11.7
24	3	37.5	12.0	13.2	32.8	12.7	14.1
28	3½	51.0	15.8	17.4	46.9	17.7	19.7
32	4	66.5	20.0	22.0	59.4	23.7	26.3
36	4½	84.0	24.8	27.3	85.6	30.6	34.0
40	5	104	30.0	33.0	90.9	38.4	42.7
44	5½	126	35.8	39.4	111	47.3	52.5
48	6	150	42.0	46.2	132	58.2	64.7
52	6½	175	48.8	53.7	176	68.2	75.0
56	7	203	56.0	61.6	198	78.7	86.6
60	7½	233	63.9	70.3	229	90.3	99.3
64	8	265	72.0	79.2	243	103	113
72	9	336	90.0	99.0	335	129	142
80	10	415	110	121	398	161	177
88	11	502	131	144	463	195	215
96	12	598	154	169	534	232	255
104	13	700	180	198	641	271	298
112	14	810	210	231	689	308	339
120	15	930	240	264	821	353	388
128	16	1060	270	297	916	394	433
136	17	1197	305	336	1050	444	488
144	18	1340	340	374	1150	488	537
152	19	1493	379	417	1280	544	598
160	20	1660	420	462	1430	590	649
168	21	1830	460	506	1520	650	715
176	22	2010	510	561	1660	697	767
184	23	2190	560	616	1800	762	838
192	24	2390	620	682	1958	840	924

# ROPES

## Polypropylene rope

Nelson and Sturdee are available in 3-strand and 8-strand Multiplait constructions. Nelson 90 is available in 8-strand Multiplait only

### Extension :

20 % breaking load, 7 % extension  
 40 % breaking load, 10 % extension  
 80 % breaking load, 16 % extension  
 Breaking load 20 % extension

**Relative density :** 0.91

**Temperature resistance :** - 30°C to 100°C ; melts at 170°C

**Resistance :** ultraviolet and chemicals (acids, oils and alkalis)

**Typical Applications :** mooring, towing, fishing, life saving equipment, lighterage, cargo lashing and nets, safety nets, lifting slings, general purpose use.

Sturdee and Nelson 3-Strand and 8-Strand Multiplait					Nelson 90 8-Strand Multiplait		
Dia. mm	Size No.	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes	Nominal Mass kg/100m	Minimum Strength tonnes	Average Strength tonnes
6		1.70	0.55	0.61			
8		3.00	0.96	1.06			
10		4.50	1.43	1.57			
12		6.50	2.03	2.23			
14		9.00	2.79	3.07			
16	2	11.5	3.50	3.85			
18	2 1/4	14.8	4.50	4.95			
20	2 1/2	18.0	5.40	5.94			
22	2 3/4	22.0	6.50	7.15			
24	3	26.0	7.60	8.36			
28	3 1/2	35.5	10.1	11.1	38.2	12.2	13.4
32	4	46.0	12.8	14.1	49.5	15.7	17.3
36	4 1/2	58.5	16.1	17.7	62.9	19.3	21.2
40	5	72.0	19.4	21.3	77.2	23.9	26.3
44	5 1/2	88.0	23.4	25.7	94.6	28.4	31.2
48	6	104	27.2	29.9	112	33.5	36.9
52	6 1/2	122	31.5	34.7	122	39.1	43.0
56	7	142	36.0	39.6	142	44.7	49.2
60	7 1/2	163	41.2	45.3	163	49.8	54.8
64	8	185	46.6	51.3	185	57.0	62.7
72	9	234	58.5	64.4	234	72.0	79.2
80	10	290	72.0	79.2	290	88.0	96.8
88	11	351	86.4	95.0	351	106	117
96	12	417	102	112	417	125	138
104	13	490	120	132			
112	14	570	135	149			
120	15	650	155	171			
128	16	740	175	193			
144	18	940	220	242			
160	20	1160	270	297			
168	21	1280	300	330			
176	22	1400	325	358			
184	23	1530	360	396			
192	24	1670	390	429			

# ROPES

## DYNEEMA HMPE High Modulus PolyEthylene



Dyneema® 8 strand					
Diam. mm	Circ. mm	MBL		Poids	
		tf	kN	kg/100m	kg/rlx
22	2 3/4	49.5	486	26.7	49.4
24	3	60.7	595	33.1	58.8
26	3 1/4	66.5	652	36.4	72.8
28	3 1/2	75.4	740	41.8	80.1
30	3 3/4	85.4	838	47.6	92.0
32	4	105	1029	60.2	105
36	4 1/2	123	1211	74.3	132
40	5	148	1447	89.9	163
44	5 1/2	171	1680	107	198
48	6	199	1953	126	235
52	6 1/2	226	2219	146	276
56	7	259	2538	167	320
60	7 1/2	289	2831	190	368
64	8	320	3139	215	418
68	8 1/2	354	3470	241	472
72	9	388	3806	268	530
76	9 1/2	427	4188	297	590
80	10	499	4896	360	654
88	11	576	5650	428	791
96	12	645	6325	502	942
104	13	740	7263	582	1280
112	14	838	8220	668	1470
120	15	941	9231	760	1672
128	16	1050	10297	858	1888
136	17	1164	11417	962	2117
144	18	1283	12590	1072	2358
152	19	1408	13817	1188	2613
160	20	1539	15096	1310	2881

Dyneema® 12 strand					
Diam. mm	Circ. mm	MBL		Poids	
		tf	kN	kg/100m	kg/rlx
6	3/4	7.6	74.6	3.8	8.4
8	1	10.1	99.1	5.0	11.0
10	1 1/4	14.2	139.3	7.4	16.3
12	1 1/2	18.5	181.5	9.6	21.1
14	1 3/4	24.6	241	12.8	28.2
16	2	30.7	301	16.0	35.2
18	2 1/4	36.9	362	19.3	42.5
20	2 1/2	43.1	423	22.5	49.5
22	2 3/4	49.5	486	26.7	58.7
24	3	60.7	595	33.1	72.8
26	3 1/4	66.5	652	36.4	80.1
28	3 1/2	75.4	740	41.8	92.0
30	3 3/4	85.4	838	47.6	105
32	4	105	1029	60.2	132
36	4 1/2	123	1211	74.3	163
40	5	148	1447	89.9	198
44	5 1/2	171	1680	107	235
48	6	199	1953	126	277
52	6 1/2	226	2219	146	321
56	7	259	2538	167	367
60	7 1/2	289	2831	190	418
64	8	320	3139	215	473
68	8 1/2	354	3470	241	530
72	9	388	3806	268	590
76	9 1/2	427	4188	297	653
80	10	499	4896	360	792
88	11	576	5650	428	942
96	12	645	6325	502	1104
104	13	740	7263	582	1280
112	14	838	8220	668	1470
120	15	941	9231	760	1672
128	16	1050	10297	858	1888

Coil length :	220m
Weight and length tolerance :	+/-5%
Diameter :	+/-2%
MBL :	Conform ISO 2307
Other sizes available upon request.	

# ROPES

## Natural fibre ropes

These are natural fibres ropes 3-strand hawser laid. These are Grade 1 Manila and Sisal ropes from best quality fibres, suitable for general applications.



Diameter (mm)	Nominal Mass (kg/100 m)	Minimum Strength	
		GRADE 1 Manila (tons)	Sisal (tons)
7	3.50	0.37	0.33
8	5.40	0.54	0.48
10	6.80	0.71	0.64
12	10.50	1.07	0.95
14	14.00	1.45	1.28
16	19.00	2.03	1.80
18	22.00	2.44	2.14
20	27.50	3.25	2.85
22	33.00	3.86	3.40
24	40.00	4.57	4.07
28	53.20	6.10	5.33
32	70.00	7.90	6.86