



The engineers at Timm have managed to design a unique 12-strand polyester rope, which delivers over twice the strength of conventional polyester ropes – with a breaking strength 150% above ISO standard.

Timm has produced great ropes since 1772, and constructed our first polyester rope in 1952. Polyester is a particularly reliable fiber, and has proven to be the most durable of the conventional fibers used in ropes.

Rope testing with DNV GL – at the Ormen Lange testlab in Norway – also proved that the subsea breaking strength (MBL) transcends the MBL from the standard ISO 2307 dry test procedure.

The peak performance of the Terraline 12 is obtained mainly through three key elements:

1. Super HT polyester fibers
2. Single yarn marine coating
3. Unique 12-strand MaxLoad design

The Timm engineers have combined the experience from Acera™ high performance HMPE ropes, with an innovative 12-strand rope construction.

This MaxLoad design is based on a set of unconventional yarn twist/strand laying/rope design ratios, and the use of new tools for simultaneous tensioning of all filaments, yarns and strands respectively.

The result is an unparalleled high performance solution which outperforms other traditional polyester ropes.

SUITABLE



Fishery



Mooring



Towing

PRODUCT FEATURES

Construction	12-strand plaited
Fiber	Polyethylene Terephthalate - Super HT Polyester Super High Tenacity and high adhesive
Specific gravity	1,37 (sinking)
Colours	White
UV resistance	Excelent
Abbrasion resistance	Excelent
Acid resistance	Good
Alkali resitance	Good
Cold & frost resistance	Very Good +
Water resistance	Excellent (<0,5% absorption)
Heat resistance	Excellent (260° melting)
Elongation	Moderate (10% at break)
Cold & frost resistance	Very Good +

KEY BENEFITS

- High strength, both wet and dry
- Great abrasion and UV resistance
- Easy to splice and repair
- Low bending ratio
- Lower elongation
- Available in very long lengt
- Low coefficient of friction
- High melting point (260°C)

CERTIFICATE



diameter	MBL	MBL	MBL unspliced	MBL unspliced	diameter	MBL	MBL unspliced	Weight
Nominal	spliced	spliced			DIA.	spliced		
(mm)	*	*	(t)	(kN)	(inch)	*	(lbs)	(kg/m)
10	4	39	4.4	43	13/32"	8.767	9.667	0.075
12	5.6	55	6.3	62	1/2"	12.364	13.938	0.109
14	7.7	75	8.5	83	9/16"	16.860	18.659	0.148
16	9.8	96	10.9	107	5/8"	21.580	24.054	0.194
18	12.3	121	13.7	134	3/4"	27.201	30.124	0.245
20	15.1	148	16.7	164	13/16"	33.271	36.869	0.303
22	18.2	178	20.1	197	7/8"	40.016	44.287	0.367
24	21.4	210	23.8	233	1"	47.142	52.380	0.437
26	25	245	27.7	272	1 1/16"	55.033	61.148	0.513
28	28.8	282	32	314	1 1/8"	63.531	70.590	0.595
30	32.9	322	36.5	358	1 1/4"	72.433	80.481	0.683
32	37.2	365	41.3	405	1 5/16"	81.943	91.047	0.777
34	41.8	410	46.4	455	1 3/8"	92.059	102.288	0.877
36	46.6	457	51.8	508	1 1/2"	102.782	114.203	0.983
38	51.7	507	57.5	564	1 9/16"	114.113	126.792	1.095
40	57.1	560	63.4	622	1 5/8"	125.848	139.831	1.214
44	68.6	672	76.2	747	1 3/4"	151.139	167.932	1.468
46	74.6	732	83	814	1 7/8"	164.695	182.994	1.605
48	81	795	90	883	2"	178.655	198.506	1.821
50	87.6	859	97.4	955	2 1/16"	193.223	214.692	1.896
52	94.5	927	105	1030	2 1/8"	208.397	231.553	2.051
56	108.9	1068	121	1187	2 1/4"	240.163	266.848	2.378
58	116.6	1143	129.5	1270	2 3/8"	256.956	285.507	2.551
60	124.4	1220	138.2	1355	2 1/2"	274.154	304.615	2.730
64	140.8	1381	156.4	1534	2 5/8"	310.370	344.856	3.106
68	158.2	1551	175.8	1724	2 3/4"	348.813	387.570	3.506
72	176.5	1731	196.2	1924	3"	389.278	432.531	3.931
76	195.8	1921	217.6	2134	3 1/8"	431.767	479.741	4.380
80	216.2	2120	240.1	2355	3 1/4"	476.481	529.424	4.853
84	237.4	2328	263.8	2587	3 1/2"	523.421	581.579	5.350
88	259.6	2546	288.5	2829	3 5/8"	572.385	635.983	5.872
92	282.8	2773	314.2	3081	3 3/4"	623.371	692.635	6.418
96	306.8	3009	340.9	3343	4"	676.381	751.534	6.988
100	331.8	3254	368.7	3616	4 1/16"	731.616	812.907	7.582
102	344.8	3381	383	3756	4 1/8"	759.942	844.380	7.888
106	371.2	3640	412.4	4044	4 3/8"	818.213	909.125	8.519
110	398.5	3908	442.8	4342	4 1/2"	878.499	976.110	9.174
112	412.5	4046	458.3	4495	4 5/8"	909.455	1.010.505	9.510

* MBL guaranteed only for ropes spliced by TIMMROPES