



Timm has produced great ropes since 1772, and we constructed the 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.

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

Rope testing with DNV – 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 Duodec is obtained mainly through two key elements:

1. Super HT polyester bers
2. Unique 12-strand MaxLoad design
– twisting and laying of yarn and strands

The Timm engineers have combined the experience from Acera™ high performance HMPE ropes, with an innovative “twist” of the traditional 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 laments, yarns and strands respectively.

The outer cover of the rope together with the inner sand filter helps to significantly reduce the negative impact of UV radiation on the rope and also increases the resistance to abrasion from the outside as well as from the inside.

SUITABLE



Fishery



Mooring



Towing

PRODUCT FEATURES

Construction	12-strand plaited 24/32-braided cover
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)
Colours polyester cover	White
Cold & frost resistance	Very Good +

KEY BENEFITS

- High strength, both wet and dry
- Increased abrasion resistance
- Easy to handle
- Well balanced; 6 left and 6 right strands
- Low bending ratio
- 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	0.125
12	5.61	55	6.3	62	1/2"	12.364	13.938	0.164
14	7.7	75	8.5	83	9/16"	16.860	18.659	0.208
16	9.8	96	10.3	107	5/8"	21.580	24.054	0.259
18	12.3	121	13.7	134	3/4"	27.201	30.124	0.316
20	15.1	148	16.7	164	13/16"	33.271	36.869	0.378
22	18.2	178	20.1	197	7/8"	40.016	44.287	0.447
24	21.4	210	23.8	233	1"	47.142	52.380	0.521
26	25	245	27.7	272	1 1/16"	55.033	61.148	0.602
28	28.8	282	32	314	1 1/8"	63.531	70.590	0.689
30	32.9	322	36.5	358	1 1/4"	72.433	80.481	0.782
32	37.2	365	41.3	405	1 5/16"	81.943	91.047	0.880
34	41.8	410	46.4	455	1 3/8"	92.059	102.288	0.985
36	46.6	457	51.8	508	1 1/2"	102.782	114.203	1.096
38	51.7	507	57.5	564	1 9/16"	114.113	126.792	1.213
40	57.1	560	63.4	622	1 5/8"	125.848	139.831	1.336
44	68.6	672	76.2	747	1 3/4"	151.139	167.932	1.599
46	74.6	732	83	814	1 7/8"	164.695	182.994	1.740
48	81	795	90	883	2"	178.655	198.506	1.887
50	87.6	859	97.4	955	2 1/16"	193.223	214.692	2.040
52	94.5	927	105	1030	2 1/8"	208.397	231.553	2.199
56	108.9	1068	121	1187	2 1/4"	240.163	266.848	2.535
58	116.6	1143	129.5	1270	2 3/8"	256.956	285.507	2.712
60	124.4	1220	138.2	1355	2 1/2"	274.154	304.615	2.895
64	140.8	1381	156.4	1534	2 5/8"	310.370	344.856	3.279
68	158.2	1551	175.8	1724	2 3/4"	348.813	387.570	3.687
72	176.5	1731	196.2	1924	3"	389.278	432.531	4.119
76	195.8	1921	217.6	2134	3 1/8"	431.767	479.741	4.576
80	216.2	2120	240.1	2355	3 1/4"	476.481	529.424	5.056
84	237.4	2328	263.8	2587	3 1/2"	523.421	581.579	5.560
88	259.6	2546	288.5	2829	3 5/8"	572.385	635.983	6.089
92	282.8	2773	314.2	3081	3 3/4"	623.371	692.635	6.642
96	306.8	3009	340.9	3343	4"	676.381	751.534	7.218

* MBL guaranteed only for ropes spliced by TIMM ROPES