

Polyester Double Braid

Polyester Double Braid is a versatile and durable option, with high strength, moderate stretch, excellent weather resistance, and easy handling. Of all the popular fibres polyester has the best weathering characteristics and the best wet abrasion resistance. Polyester ropes are built with durability and service life in focus.

Polyester demonstrates superior capability compared to nylon in maintaining its elongation even over extended durations.

Polyester is perfect for towing and mooring applications in demanding environments.

Features

- High Abrasion resistance
- Moderate Elongation
- Excellent elastic retention
- Excellent UV Resistance
- Low Water Absorption
- Excellent towing and mooring line for high demand environments

Nominal Diameter		Size Circ.	Approximate Weight	Minimum Tensile Strength Spliced	Minimum Tensile Strength ISO Unspliced
Inch	MM	Inches	Kg/ 100m	Tonnes (Te)	Tonnes (Te)
1/4"	6	3/4"	2.9	0.9	1.0
5/16"	8	15/16"	4.2	1.4	1.6
3/8"	10	1 1/8"	7.5	2.4	2.7
1/2"	12	1 1/2"	10.0	3.3	3.6
9/16"	14	1 3/4"	13.5	4.2	4.6
5/8"	16	2"	19.0	5.6	6.2
3/4"	18	2 1/4"	24.0	6.9	7.7
13/16"	20	2 1/2"	30.0	9.3	10.3
7/8"	22	2 3/4"	37.3	10.1	11.2
1"	24	3"	43.4	11.7	13.0
1 1/16"	26	3 1/4"	51.0	13.8	15.3
1 1/8"	28	3 1/2"	59.0	16.1	17.9
1 1/4"	30	3 3/4"	68.0	18.2	20.2
1 5/16"	32	4"	78.0	20.2	22.4
1 3/8"	34	4 1/8"	88.0	22.9	25.5
1 1/2"	36	4 1/2"	99.0	26.7	29.7
1 9/16"	38	4 3/4"	110.0	29.0	32.3
1 5/8"	40	5"	121.0	33.2	36.9
1 11/16"	42	5 1/4"	133.0	35.2	39.1
1 3/4"	44	5 1/2"	147.0	38.7	43.1
1 7/8"	46	5 5/8"	161.0	41.8	46.5
2"	48	6"	177.0	46.4	51.6
2 1/8"	52	6 1/2"	204.0	54.6	60.6
2 1/4"	56	7"	239.0	63.7	70.8
2 1/2"	60	7 1/2"	274.0	72.9	81.0
2 5/8"	64	8"	313.0	82.6	91.8
2 3/4"	68	8 1/2"	353.0	90.8	100.8
3"	72	9"	394.0	99.6	110.7
3 1/4"	80	10"	487.0	127.0	141.1
3 5/8"	88	11"	591.0	153.0	170.0
4"	96	12"	701.0	180.5	200.5
4 1/4"	104	13"	823.0	211.6	235.1
4 5/8"	112	14"	955.0	244.2	271.4
5"	120	15"	1095.0	279.4	310.4

Technical Information

Specific gravity	1.38
Melting point	225°C
Critical temp.	150°C
Elongation at break	12.5%
Coefficient of friction	0.10*
Floats/Sinks	Sinks
UV resistance	excellent
Wet abrasion	excellent
Dry abrasion	excellent

* value based on data supplied by the fibre manufacturer for new, dry fibre

Polyester Double Braid Elongation (%)

