

Plasma LoCo 12 Strand HMPE – Low Coefficient of Friction Plasma

Plasma® LoCo 12-Strand rope offers all the benefits of standard Plasma ropes with the added advantage of a reduced coefficient of friction coating. This coating enhances UV resistance, minimizes internal heat build-up, and reduces abrasion during constant tension, movement against surfaces, and bending.

Plasma rope has the added advantage of DNV and ABS class type approval throughout its range.

Features

- Highest strength to weight ratio of any fibre
- Low Creep
- Excellent UV & chemical resistance
- Easy to splice
- Safer than wire
- High flex fatigue and abrasion resistance
- Excellent durability

Technical Information

Specific gravity	.98*
Melting point	140°C
Critical temp.	65°C
Elongation at break	3%-4%
Floats/Sinks	floats
UV resistance	good
Wet abrasion	superior
Dry abrasion	superior

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

Nominal Diameter		Size Circ.	Approximate Weight	Minimum Tensile Strength Spliced	Minimum Tensile Strength ISO Unspliced
Inch	MM	Inches	Kg/ 100m	Tonnes (Te)	Tonnes (Te)
0.04"	1	0.12	0.1	0.1	0.13
0.05"	1.25	0.15	0.1	0.2	0.20
0.06"	1.5	0.18	0.1	0.2	0.23
0.07"	1.75	0.21	0.2	0.3	0.38
0.1"	2.5	0.3	0.4	0.6	0.7
1/8"	3	3/8"	0.8	1.3	1.4
3/16"	5	9/16"	1.7	2.5	2.8
1/4"	6	3/4"	2.4	3.6	4.0
5/16"	8	15/16"	3.7	5.3	5.9
3/8"	9	1 1/8"	5.5	7.9	8.8
7/16"	11	1 1/4"	6.3	9.5	10.6
1/2"	12	1 1/2"	9.5	14.2	15.8
9/16"	14	1 3/4"	11.8	17.2	19.1
5/8"	16	2"	15.8	23.3	25.9
3/4"	18	2 1/4"	19.8	31.1	34.6
13/16"	20	2 1/2"	23.7	33.6	37.2
7/8"	22	2 3/4"	29.2	42.0	46.7
1"	24	3"	34.8	49.9	55.4
1 1/16"	26	3 1/4"	40.9	58.6	65.1
1 1/8"	28	3 1/2"	47.5	66.7	74.1
1 1/4"	30	3 3/4"	53.9	74.9	83.1
1 5/16"	32	4"	62.1	88.9	98.8
1 1/2"	36	4 1/2"	76.9	100.3	111.3

