

Plasma LoCo 12x12 Strand HMPE – Low Coefficient of Friction Plasma

The 12x12 construction addresses the most critical properties of the fibres to provide a very high strength translation efficiency for larger ropes. This design allows for long lay lengths, making rope that is more flexible for bending applications, easy to inspect, and can be quickly spliced using Jeyco's recommended splicing techniques for low co-efficient of friction ropes.

Plasma LoCo 12x12 retains all the features & benefits of standard Plasma ropes with the added characteristic of reduced coefficient of friction to reduce internal heat build-up and abrasion associated with constant tension-tension fatigue and relative movement between the rope and fixed surfaces.

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
- Safer than wire
- Low Creep
- High flex fatigue and abrasion resistance
- Excellent UV & chemical resistance
- Excellent durability
- Easy to splice

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 5/8"	40	5"	98	132	147
1 3/4"	44	5 1/2"	117	142	158
2"	48	6"	136	161	178
2 1/8"	52	6 1/2"	162	194	216
2 1/4"	56	7"	182	218	242
2 1/2"	60	7 1/2"	220	240	267
2 5/8"	64	8"	249	270	300
2 3/4"	68	8 1/2"	278	299	333
3"	72	9"	319	354	393
3 1/8"	76	9 1/2"	350	386	428
3 1/4"	80	10"	388	426	474
3 1/2"	84	10 1/2"	443	503	559
3 5/8"	88	11"	482	567	630
3 3/4"	92	11 1/2"	510	598	664
4"	96	12"	586	690	766
4 1/8"	100	12 1/2"	679	736	818
4 1/4"	104	13"	765	770	856
4 1/2"	108	13 1/2"	789	829	921
4 5/8"	112	14"	812	853	948
4 3/4"	116	14 1/2"	873	874	971
5"	120	15"	902	939	1043
5 1/8"	124	15 1/2"	978	1004	1115
5 1/4"	128	16"	1046	1069	1187
5 1/2"	132	16 1/2"	1114	1133	1259
5 5/8"	136	17"	1210	1198	1331
5 3/4"	140	17 1/2"	1296	1262	1403

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

Plasma LoCo 12X12 Strand Elongation (%)

