

X-Trema Line



X-Trema Line is a twelve-strand HMPE (High Modulus Polyethylene) rope made from SK75 Dyneema® fibers. Our X-Trema Line has an unmatched weight-to-strength ratio. Compared to a steel wire rope of the same size, it will match the breaking strength at only 15% of the weight.

The high-visibility green coating is intended as a safety feature to maintain line visibility even after heavy use. With a specific gravity of 0.98 it is the lightest/strongest rope available and even floats on water. It also features excellent resistance to abrasion, UV, salt water, bending and tension fatigue. X-Trema Line is widely used in both surface and deep mining operations including recovery lines, tow lines, shield hawing lines, winch lines or almost any man-handled wire rope application where reduced weight will be of benefit.

Characteristics

Melting point:
293 °F (145 °C)

Specific gravity:
0.98

Abrasion Resistance:
excellent

Elongation at break:
approximately 2.5%

X-Trema Line elongations at a given load factor, as a percentage of the minimum breaking force of the rope:

MBF	Elongation
20%	0.5%
30%	0.7%
40%	0.8%
50%	1.0%

IMPERIAL				METRIC		
Diameter (in)	Circumference (in)	Weight (lb/100ft)	MBF Spliced (lb)	Diameter (mm)	Weight (kg/100 m)	MBF Spliced (kN)
1/8	3/8	0.5	3,400	3	0.8	15.1
3/16	9/16	1.0	6,500	5	1.5	28.9
1/4	3/4	1.6	9,500	6	2.3	42.3
5/16	1	2.6	15,300	8	3.9	68.1
3/8	1 1/4	3.6	20,800	10	5.4	92.5
7/16	1 1/4	4.7	26,200	11	7.0	117
1/2	1 1/2	6.5	35,500	12	9.7	158
9/16	1 3/4	8.6	45,800	14	12.8	204
5/8	2	10.9	57,100	16	16.2	254
3/4	2 1/4	11.7	63,300	18	17.4	282
13/16	2 1/2	13.8	75,700	20	20.6	337
7/8	2 3/4	17.5	94,900	22	26.1	422
1	3	20.8	110,000	24	30.9	490
1 1/16	3 1/4	24.9	129,000	26	37.0	576
1 1/8	3 1/2	29.0	148,000	28	43.2	657
1 1/4	3 3/4	32.5	164,000	30	48.4	729
1 5/16	4	37.2	184,000	32	55.3	819
1 3/8	4 1/8	41.8	204,000	34	62.2	909
1 1/2	4 1/2	45.7	220,000	36	68.0	981
1 9/16	4 3/4	51.1	245,000	38	76.0	1090
1 5/8	5	57.2	271,000	40	85.1	1210
1 3/4	5 1/2	69.9	322,000	44	104	1430
2	6	83.3	382,000	48	124	1700
2 1/8	6 1/2	103	456,000	52	153	2030

Larger sizes available. Contact Phillystran for more details

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Seller shall not be liable under any circumstances for consequential or incidental damages or secondary charges including but not limited to personal injury, labor costs, a loss of profits resulting from the use of said products or from said products being incorporated in or becoming a component of any other product.