



PHILLYSTRAN

X-TREMA LINE®



X-Trema Line is a twelve-strand HMPE (High Modulus Polyethylene) rope made from 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 orange 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. X-Trema line is also ideal in logging applications such as logging truck tie downs and hauling line utilized with drones. Other general purpose industry benefits:

- Non-conductive
- Minimal moisture absorption
- Resistant to fuels and cleaning solutions
- Excellent abrasion resistance
- Excellent UV resistance
- No broken wire hazards
- Easy single operator installation
- No kink damage design
- Safety orange for high visibility
- Easy visual inspection criteria...no internal hidden wear or corrosion
- Same strength whether wet or dry
- Minimal moisture absorption...will not freeze-up in cold wet weather
- Excellent chemical resistance

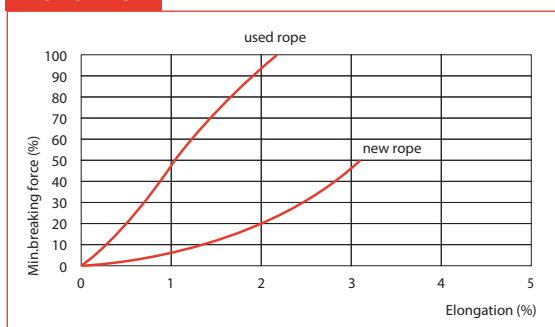
	SPECIFIC GRAVITY	0.98 (floating)
	UV-RESISTANCE	excellent
	ABRASION RESISTANCE	excellent
	CHEMICAL RESISTANCE	excellent
	MELTING POINT	145°C (293°F)
	CONSTRUCTION	12 strand
	TCLL VALUE	100%
	COLOR	orange
	WATER ABSORPTION	0%
	ELONGATION @50% LOAD	1%



nominal diameter inch	mm	weight		minimum breaking strength		
		lb/100ft	kg/100m	lbs	t (metric)	kN
1/8	3	0.51	0.76	3,000	1.36	13.3
3/16	5	1.0	1.5	6,000	2.72	26.7
1/4	6	1.5	2.2	7,500	3.37	33
5/16	8	2.4	3.6	12,100	5.51	54
3/8	10	3.9	5.8	20,000	9.08	89
1/2	12	5.8	8.7	32,100	14.58	143
9/16	14	6.9	10.2	37,500	17.03	167
5/8	16	9.5	14.1	51,600	23.45	230
3/4	18	11.7	17.4	63,300	28.78	282
13/16	20	13.8	20.6	75,700	34.39	337
7/8	22	17.5	26.1	94,900	43.06	422
1	24	20.8	30.9	110,000	50.00	490
1 1/16	26	24.9	37	129,000	58.78	576
1 1/8	28	29.0	43.2	148,000	67.04	657
1 1/4	30	32.5	48.4	164,000	74.39	729
1 5/16	32	37.2	55.3	184,000	83.57	819
1 3/8	34	41.8	62.2	204,000	92.76	909
1 1/2	36	46	68	220,000	100.10	981
1 9/16	38	51	76	245,000	111.05	1,089
1 5/8	40	57	85.1	270,000	122.57	1,202
1 3/4	44	70	104	322,000	145.92	1,431
2	48	83	124	382,000	173.05	1,697
2 1/8	52	103	153	457,000	207.41	2,034
2 1/4	56	114	170	500,000	227.19	2,228
2 1/2	60	134	200	581,000	263.90	2,588
2 5/8	64	153	228	651,500	295.71	2,898
2 3/4	68	171	254	718,000	325.80	3,195
3	72	192	285	794,000	360.50	3,533
3 1/8	76	206	307	850,000	385.45	3,780
3 1/4	80	226	336	920,000	417.45	4,091
3 5/8	88	272	405	1,088,000	494.08	4,842

Diameter, weight and MBF (as well as other mechanical and physical properties) are determined according to CI specifications. The MBF refers to the breaking strength in the rope with splices. This is the terminated strength of the rope.

ELONGATION:



**PERFORMANCE WITH
A COMPETITIVE EDGE**



151 Commerce Drive
Montgomeryville PA 18936

Phone: (215) 368-6611
Email: information@phillystran.com

WWW.PHILLYSTRAN.COM