

OPTIMA 3X




High Performance Synthetic Fiber Grommet Sling

Optima is made of Ultra-High Molecular Weight Polyethylene (UHMWPE) fiber and is the highest strength synthetic fiber rope available made by ROPERS. Optima 3X is a grommet sling made of optima series ropes, with very high strength and low elongation. As an alternative to the traditional wire rope, it can more easily cope with challenging lifting situations. Optima 3X Grommet Sling is encased in a light weight and abrasion resistant sleeve to protect potential friction areas from abrasion, cutting, or snagging. Two unique movable abrasion resistant coating sheaths provide additional protection for different contact parts.

- ▶ Multi purpose of hoisting design
- ▶ Multiple wear-resistant protection and durable
- ▶ Easy to handle and install, less labor intensive
- ▶ High strength and light weight, operate flexibly
- ▶ Soft and burr-free, and would not damage the object
- ▶ Corrosion resistant, safer and lower maintenance cost



Specification

Approximate Diameter		Circle		Minimum Breaking Load		Minimum Sling Length		Rated Capacity (WLL)					
inch	mm	inch	mm	lbs	ton	ft	m	Vertical	Choker	Basket			
													
								lbs	ton	lbs	ton	lbs	ton
1/4	6	3/4	18	14,160	6.4	1.6	0.5	2,360	1.1	1,900	0.9	4,720	2.1
5/16	8	15/16	24	21,900	9.9	2.0	0.6	3,650	1.7	2,900	1.3	7,300	3.3
3/8	10	1 1/8	30	30,900	14.0	2.3	0.7	5,150	2.3	4,100	1.9	10,300	4.7
1/2	12	1 1/2	36	51,900	23.6	3.0	0.9	8,650	3.9	6,900	3.1	17,300	7.9
9/16	14	1 3/4	42	63,600	28.5	3.3	1.0	10,600	4.8	8,500	3.8	21,200	9.5
5/8	16	2	48	85,200	38.8	3.9	1.2	14,200	6.5	11,400	5.2	28,400	12.9
3/4	18	2 1/4	54	112,800	51.4	4.3	1.3	18,800	8.6	15,000	6.9	37,600	17.1
7/8	22	2 3/4	66	152,400	69.1	5.3	1.6	25,400	11.5	20,300	9.2	50,800	23.0
1	24	3	72	181,200	82.3	5.6	1.7	30,200	13.7	24,200	11.0	60,400	27.4
1 1/16	26	3 1/4	78	214,800	97.6	6.3	1.9	35,800	16.3	28,700	13.0	71,600	32.5
1 1/8	28	3 1/2	84	226,200	102.8	6.6	2.0	37,700	17.1	30,200	13.7	75,400	34.3
1 1/4	30	3 3/4	90	255,000	115.7	7.2	2.2	42,500	19.3	34,000	15.4	85,000	38.6
1 5/16	32	4	96	300,600	136.6	7.6	2.3	50,100	22.8	40,100	18.2	100,200	45.5

▶ Vertical Lift rating to BS EN1492-2:2000 (6:1WLL)
 The product complies with both BSEN and ASME standards. Minimum Breaking Load (MBL) is determined using spliced test sample
 Larger Available By Request






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Specification

Sling Detail								Rated Capacity (WLL)					
Approximate Diameter		Circle		Minimum Breaking Load		Minimum Sling Length		Vertical	Choker		Basket		
inch	mm	inch	mm	lbs	ton	ft	m				lbs	ton	
1 1/2	36	4 1/2	108	339,600	154.1	7.9	2.4	56,600	25.7	45,300	20.6	113,200	51.4
1 5/8	40	5	120	423,000	192.2	8.6	2.6	70,500	32.0	56,400	25.6	141,000	64.1
1 3/4	44	5 1/2	132	508,800	231.1	9.2	2.8	84,800	38.5	67,900	30.8	169,600	77.0
2	48	6	144	595,800	270.7	10.2	3.1	99,300	45.1	79,500	36.1	198,600	90.2
2 1/8	52	6 1/2	156	711,600	323.4	10.9	3.3	118,600	53.9	94,900	43.1	237,200	107.8
2 1/4	56	7	168	801,600	364.3	11.8	3.6	133,600	60.7	106,900	48.6	267,200	121.4
2 1/2	60	7 1/2	180	873,600	396.9	12.5	3.8	145,600	66.2	116,500	52.9	291,200	132.3
2 5/8	64	8	192	988,200	448.9	13.5	4.1	164,700	74.8	131,800	59.9	329,400	149.6
2 3/4	68	8 1/2	204	1,093,200	496.7	14.5	4.4	182,200	82.8	145,800	66.2	364,400	165.6
3	72	9	216	1,126,800	512.0	15.1	4.6	187,800	85.3	150,300	68.3	375,600	170.7
3 1/8	76	9 1/2	228	1,243,800	565.3	16.1	4.9	207,300	94.2	165,900	75.4	414,600	188.4
3 1/4	80	10	240	1,375,800	625.2	16.8	5.1	229,300	104.2	183,500	83.4	458,600	208.4
3 5/8	88	11	264	1,663,800	756.0	18.8	5.7	277,300	126.0	221,900	100.8	554,600	252.0
4	96	12	288	1,976,400	898.1	20.7	6.3	329,400	149.7	263,600	119.8	658,800	299.4
4 1/8	100	12 1/2	300	2,101,800	955.2	21.4	6.5	350,300	159.2	280,300	127.4	700,600	318.4
4 1/4	104	13	312	2,227,200	1,012.3	22.4	6.8	371,200	168.7	297,000	135.0	742,400	337.4
4 1/2	108	13 1/2	324	2,354,400	1,069.9	23.0	7.0	392,400	178.3	314,000	142.7	784,800	356.6
4 5/8	112	14	336	2,481,000	1,127.7	24.3	7.4	413,500	188.0	330,800	150.4	827,000	375.9
5	120	15	360	2,791,200	1,268.6	26.0	7.9	465,200	211.4	372,200	169.2	930,400	422.9
5 1/8	124	15 1/2	372	2,968,200	1,349.0	27.0	8.2	494,700	224.8	395,800	179.9	989,400	449.7

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