

# OPTIMA 5X

## Permanent Twist Identification 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 5X 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 5X Grommet Sling is encased in an abrasion resistant braided 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
- ▶ High strength and light weight, operate flexibly
- ▶ Easy to handle and install, less labor intensive
- ▶ Multiple wear-resistant protection and durable
- ▶ Soft and burr-free, and would not damage the object
- ▶ Corrosion resistant, safer and lower maintenance cost



### 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	lbs	ton	lbs	ton
1/2	12	1 1/2	36	54,600	24.8	3.0	0.9	9,100	4.1	7,300	3.3	18,200	8.3
9/16	14	1 3/4	42	66,000	29.9	3.3	1.0	11,000	5.0	8,800	4.0	22,000	10.0
5/8	16	2	48	89,400	40.7	3.9	1.2	14,900	6.8	11,900	5.4	29,800	13.6
3/4	18	2 1/4	54	118,800	53.9	4.3	1.3	19,800	9.0	15,800	7.2	39,600	18.0
13/16	20	2 1/2	60	129,000	58.7	4.6	1.4	21,500	9.8	17,200	7.8	43,000	19.6
7/8	22	2 3/4	66	159,000	72.2	5.3	1.6	26,500	12.0	21,200	9.6	53,000	24.1
1	24	3	72	187,800	85.2	5.6	1.7	31,300	14.2	25,000	11.4	62,600	28.4
1 1/16	26	3 1/4	78	215,400	98.0	6.3	1.9	35,900	16.3	28,700	13.1	71,800	32.7
1 1/8	28	3 1/2	84	243,600	110.8	6.6	2.0	40,600	18.5	32,500	14.8	81,200	36.9
1 1/4	30	3 3/4	90	275,400	125.2	7.2	2.2	45,900	20.9	36,700	16.7	91,800	41.7

▶ 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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## High Performance Synthetic Fiber Grommet Sling



### 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	lbs	ton	lbs	ton
1 5/16	32	4	96	311,400	141.5	7.6	2.3	51,900	23.6	41,500	18.9	103,800	47.2
1 1/2	36	4 1/2	108	375,600	170.6	7.9	2.4	62,600	28.4	50,100	22.8	125,200	56.9
1 5/8	40	5	120	433,200	196.9	8.6	2.6	72,200	32.8	57,800	26.3	144,400	65.6
1 3/4	44	5 1/2	132	513,600	233.4	9.2	2.8	85,600	38.9	68,500	31.1	171,200	77.8
2	48	6	144	617,400	280.7	10.2	3.1	102,900	46.8	82,300	37.4	205,800	93.6
2 1/8	52	6 1/2	156	720,000	327.3	10.9	3.3	120,000	54.5	96,000	43.6	240,000	109.1
2 1/4	56	7	168	829,800	377.2	11.8	3.6	138,300	62.9	110,600	50.3	276,600	125.7
2 1/2	60	7 1/2	180	940,200	427.2	12.5	3.8	156,700	71.2	125,300	57.0	313,400	142.4
2 5/8	64	8	192	1,069,800	486.3	13.5	4.1	178,300	81.1	142,700	64.8	356,600	162.1
2 3/4	68	8 1/2	204	1,203,000	546.9	14.5	4.4	200,500	91.2	160,400	72.9	401,000	182.3
3	72	9	216	1,336,800	607.5	15.1	4.6	222,800	101.3	178,200	81.0	445,600	202.5
3 1/8	76	9 1/2	228	1,467,000	666.8	16.1	4.9	244,500	111.1	195,600	88.9	489,000	222.3
3 1/4	80	10	240	1,503,000	683.1	16.8	5.1	250,500	113.9	200,400	91.1	501,000	227.7
3 5/8	88	11	264	1,796,400	816.5	18.8	5.7	299,400	136.1	239,500	108.9	598,800	272.2
4	96	12	288	2,134,200	969.9	20.7	6.3	355,700	161.6	284,500	129.3	711,400	323.3
4 1/8	100	12 1/2	300	2,269,800	1,031.5	21.4	6.5	378,300	171.9	302,600	137.5	756,600	343.8
4 1/4	104	13	312	2,405,400	1,093.3	22.4	6.8	400,900	182.2	320,700	145.8	801,800	364.4
4 1/2	108	13 1/2	324	2,542,200	1,155.5	23.0	7.0	423,700	192.6	339,000	154.1	847,400	385.2
4 5/8	112	14	336	2,679,600	1,217.8	24.3	7.4	446,600	203.0	357,300	162.4	893,200	405.9
5	120	15	360	3,014,400	1,370.1	26.0	7.9	502,400	228.3	401,900	182.7	1,004,800	456.7
5 1/8	124	15 1/2	372	3,205,200	1,456.8	27.0	8.2	534,200	242.8	427,400	194.2	1,068,400	485.6

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