

OPTIMA EES

Eye & Eye Sling



Crafted from premium UHMWPE fibers, the Optima 5 EES is the strongest synthetic fiber rope produced by ROPERS. Weighing over 80% less than steel wire slings of equivalent strength, it offers unmatched flexibility, convenience, and safety. The Optima 5 EES is precision-engineered with matched lengths and tight tolerances, ensuring reliability in marine, industrial, and heavy lifting applications.

Equipped with extensive wear protection, this sling maximizes lifespan and reduces costs. Both eyes are permanently fitted with wear resistant Cordura sleeves, while a removable, highly visible pangolin sleeve offers additional protection against wear, cutting, and snagging. The design also allows for easy inspection and maintenance.



Multi purpose of hoisting design



Multiple wear-resistant protection and durable



High strength and light weight, operate flexibly



Traceable product information



Corrosion resistant, safer and lower maintenance cost



Technical Information

Construction: Eye & Eye Sling

Rope Material: UHMWPE

Safety: Proof Loaded

Safety Factor: According to Customer Specifications

Length Tolerance: ± 0.3%

Length Tolerance, Matched Pairs: ± 0.15%



Vertical Lift rating to ASME B30.9-2021 5:1WLL

Approximate Diameter	Sling Detail				Rated Capacity (WLL)								
	Circle		Minimum Breaking Load		Minimum Sling Length		Vertical		Choker		Basket		
inch	mm	inch	mm	lbs	ton	ft	m	lbs	ton	lbs	ton	lbs	ton
3/8	10	1 1/8	30	21,000	9.5	2.3	0.7	4,200	1.9	3,400	1.5	8,400	3.8
1/2	12	1 1/2	36	33,000	15.0	3.0	0.9	6,600	3.0	5,300	2.4	13,200	6.0
9/16	14	1 3/4	42	44,000	20.0	3.3	1.0	8,800	4.0	7,000	3.2	17,600	8.0
5/8	16	2	48	54,000	24.6	3.9	1.2	10,800	4.9	8,600	3.9	21,600	9.8
3/4	18	2 1/4	54	72,000	32.7	4.3	1.3	14,400	6.5	11,500	5.2	28,800	13.1
7/8	22	2 3/4	66	108,000	49.0	5.3	1.6	21,600	9.8	17,300	7.8	43,200	19.6
1	24	3	72	114,500	52.0	5.6	1.7	22,900	10.4	18,300	8.3	45,800	20.8
1 1/16	26	3 1/4	78	134,500	61.1	6.3	1.9	26,900	12.2	2,1500	9.8	53,800	24.4
1 1/8	28	3 1/2	84	149,500	68.0	6.6	2.0	29,900	13.6	23,900	10.9	59,800	27.2
1 1/4	30	3 3/4	90	170,500	77.5	7.2	2.2	34,100	15.5	27,300	12.4	68,200	31.0
1 5/16	32	4	96	200,000	91.0	7.6	2.3	40,000	18.2	32,000	14.6	80,000	36.4
1 1/2	36	4 1/2	108	226,500	103.0	7.9	2.4	45,300	20.6	36,200	16.5	90,600	41.2
1 5/8	40	5	120	292,500	133.0	8.6	2.6	58,500	26.6	46,800	21.3	117,000	53.2

The product complies with ASME: B30.9-2021 standards. Minimum Breaking Load (MBL) is determined using spliced test samples in accordance with Cordage Institute 1500-02 - Test Method for Fiber Ropes.





ROPERS
RELIABLE TO THE CORE



OPTIMA 5 BRS

Braid Round Sling

- Two load-bearing sling legs
- Fully webbing sheath covered with coating



OPTIMA 5 EES

Eye & Eye Sling

- One load bearing leg
- Removable and replaceable Cordura sheath
- Easy to inspect



OPTIMA 5 EGS

Endless Grommet Sling

- Two load-bearing sling legs
- Removable and replaceable Cordura sheath
- Easy to inspect



ROPERS ROPE



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