

OPTIMA™ 5 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 hoisting design



Durable: multiple layers of wear-resistant protection



High strength and light weight



Cost-effective: Corrosion resistant, safer and lower maintenance cost



Technical Information

Type	Eye & Eye Sling
Rope Material	Premium UHMWPE
Safety	Proof Loaded
Safety Factor	5:1 or according to customer specifications
Length Tolerance	± 0.3%
Length Tolerance, Matched Pairs	± 0.15%



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

Sling Detail				Rated Capacity (WLL)		
Approximate Diameter	Circle	Minimum Breaking Load	Minimum Sling Length	Vertical	Choker	Basket
inch	inch	lbs	ft	lbs	lbs	lbs
3/8	1 1/8	21,000	3.6	4,200	3,400	8,400
1/2	1 1/2	33,000	4.3	6,600	5,300	13,200
9/16	1 3/4	42,000	4.9	8,400	6,600	16,800
5/8	2	54,000	5.8	10,800	8,600	21,600
3/4	2 1/4	72,000	6.6	14,400	11,500	28,800
7/8	2 3/4	101,200	7.9	20,200	16,200	40,500
1	3	114,500	8.9	22,900	18,300	45,800
1 1/16	3 1/4	134,500	9.8	26,900	21,500	53,800
1 1/8	3 1/2	149,500	10.5	29,900	23,900	59,800
1 1/4	3 3/4	170,500	11.2	34,100	27,300	68,200
1 5/16	4	200,000	11.8	40,000	32,000	80,000
1 1/2	4 1/2	226,500	13.2	45,300	36,200	90,600
1 5/8	5	292,500	14.5	58,500	46,800	117,000

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. Minimum D:d>3:1.





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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