ROPERS
RELIABLE TO THE CORE

OPTIMA™ 5

HMPE Rope Eye & Eye Sling

Crafted from premium HMPE fibers, the OPTIMA™ 5 Eye & Eye Sling is the strongest synthetic fiber rope produced by ROPERS. It weighs over 80% less than steel wire slings of equivalent strength and offers unmatched flexibility, convenience as well as safety. The OPTIMA™ 5 Eye & Eye Sling is precision-engineered with matched lengths and tight tolerances, ensuring reliability in maritime, industrial and heavy lifting applications.

Equipped with extensive wear protection, this sling maximizes its lifespan and reduces cost. Both eyes are permanently fitted with wear-resistant Cordura sleeves. Our removable, highly visible Pangolin sleeves offer additional protection against wear, cutting, and snagging. This design also allows for easy inspection and maintenance. Every sling is proof-loaded and equipped with a scannable tag for full traceability.

OPTIMA™ 5 EES

Economical HMPE Rope Eye & Eye Sling

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

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TECHNICAL INFORMATION

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

Scannable tag for quick traceability via phone

Certified proof load test record on file

Low stretch and minimal creep

Durable: Wear-resistant protective sleeve design

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

High-visibility design: Safer operation

Complies with ASME B30.9-2021
Working Load Limits for different lifting modes, Safety factor 5:1

Sling Detail						Rated Capacity (WLL)											
Approximate Diameter		Minimum Breaking Load		Minimum Sling Length		Vertical		Choker		Basket		60°		45°		30°	
mm	inch	kgf	lbs	m	ft	kgf	lbs	kgf	lbs	kgf	lbs	kgf	lbs	kgf	lbs	kgf	lbs
10	3/8	9,500	21,000	1.1	3.6	1,900	4,200	1,500	3,400	3,800	8,400	3,300	7,260	2,700	5,940	1,900	4,180
12	1/2	15,000	33,000	1.3	4.3	3,000	6,600	2,400	5,300	6,000	13,200	5,200	11,440	4,200	9,240	3,000	6,600
14	9/16	19,000	42,000	1.5	4.9	3,800	8,400	3,000	6,600	7,600	16,800	6,600	14,520	5,300	11,660	3,800	8,360
16	5/8	24,600	54,000	1.7	5.8	4,900	10,800	3,900	8,600	9,800	21,600	8,500	18,700	6,900	15,180	4,900	10,780
18	3/4	32,700	72,000	2.0	6.6	6,500	14,400	5,200	11,500	13,100	28,800	11,200	24,640	9,100	20,020	6,500	14,300
22	7/8	46,000	101,200	2.4	7.9	9,200	20,200	7,400	16,200	18,400	40,500	15,900	34,980	12,900	28,380	9,200	20,240
24	1	52,000	114,500	2.7	8.9	10,400	22,900	8,300	18,300	20,800	45,800	18,000	39,600	14,600	32,120	10,400	22,880
26	1 1/16	61,100	134,500	3.0	9.8	12,200	26,900	9,800	21,500	24,400	53,800	21,100	46,420	17,100	37,620	12,200	26,840
28	1 1/8	68,000	149,500	3.2	10.5	13,600	29,900	10,900	23,900	27,200	59,800	23,500	51,700	19,000	41,800	13,600	29,920
30	1 1/4	77,500	170,500	3.4	11.2	15,500	34,100	12,400	27,300	31,000	68,200	26,800	58,960	21,700	47,740	15,500	34,100
32	1 5/16	91,000	200,000	3.6	11.8	18,200	40,000	14,600	32,000	36,400	80,000	31,500	69,300	25,500	56,100	18,200	40,040
38	1 1/2	103,000	226,500	4.0	13.2	20,600	45,300	16,500	36,200	41,200	90,600	35,600	78,320	28,800	63,360	20,600	45,320
40	1 5/8	133,000	292,500	4.4	14.5	26,600	58,500	21,300	46,800	53,200	117,000	46,000	101,200	37,200	81,840	26,600	58,520

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
Warning: Do not exceed the rated capacity. Sling strength decreases as the angle from horizontal is reduced. When using slings, a minimum sling angle of 30° from horizontal must be maintained.

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