Crafted from premium HMPE-fibers, the OPTIMA™ 5 Round Sling is the strongest synthetic fiber rope produced by ROPERS.
It weighs over 80% less than steel wire slings of equivalent strength while offering unmatched flexibility, convenience and safety. The OPTIMA™ 5 round sling is precision-engineered with matched lengths and tight tolerances, ensuring reliability in marine, industrial and heavy duty applications.

This sling combines the benefits of both round and endless slings, providing strength and durability while maintaining a soft exterior to prevent damage to lifted objects. It features a fully covered, wear-resistant webbed sheath for maximum protection against wear, cutting and snagging, thereby extending its lifespan and reducing costs. Every sling is proof loaded and equipped with a scannable tag for full traceability.

OPTIMA™ 5 BRS

Economical HMPE Rope Braid Round Sling

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

ROPERS
RELIABLE TO THE CORE

TECHNICAL INFORMATION

Construction	Braided Round 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
- DNV·GL Certified proof load test record on file
- Low stretch and minimal creep
- Durable: Wear-resistant protective sleeve design
- Cost-effective:Corrosion-resistant, safer & lower maintenance cost
- High-visibility design: Safer operation
- Uniform load distribution, no stress concentration

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	15,700	34,500	0.7	2.3	3,100	6,800	2,500	5,500	6,300	13,900	5,360	11,790	4,340	9,550	3,100	6,800
12	1/2	24,800	54,600	0.9	3.0	5,000	11,000	4,000	8,800	9,900	21,800	8,650	19,030	7,000	15,400	5,000	11,000
14	9/16	31,400	69,100	1.0	3.3	6,300	13,900	5,000	11,000	12,500	27,500	10,900	23,980	8,820	19,400	6,300	13,900
16	5/8	40,600	89,300	1.2	3.9	8,100	17,800	6,500	14,300	16,200	35,600	14,010	30,820	11,340	24,950	8,100	17,800
18	3/4	54,000	118,800	1.3	4.3	10,800	23,800	8,600	18,900	21,600	47,500	18,680	41,100	15,120	33,260	10,800	23,800
22	7/8	75,900	167,000	1.6	5.3	15,200	33,400	12,100	26,600	30,300	66,700	26,300	57,860	21,280	46,820	15,200	33,400
24	1	85,800	188,800	1.7	5.6	17,200	37,800	13,700	30,100	34,300	75,500	29,760	65,470	24,080	52,980	17,200	37,800
26	1 1/16	100,800	221,800	1.9	6.3	20,200	44,400	16,100	35,400	40,300	88,700	34,950	76,890	28,280	62,220	20,200	44,400
28	1 1/8	112,200	246,800	2.0	6.6	22,400	49,300	18,000	39,600	44,900	98,800	38,750	85,250	31,360	68,990	22,400	49,300
30	1 1/4	127,900	281,400	2.2	7.2	25,600	56,300	20,500	45,100	51,200	112,600	44,290	97,440	35,840	78,850	25,600	56,300
32	1 5/16	150,200	330,400	2.3	7.6	30,000	66,000	24,000	52,800	60,100	132,200	51,900	114,180	42,000	92,400	30,000	66,000
38	1 1/2	170,000	374,000	2.4	7.9	34,000	74,800	27,200	59,800	68,000	149,600	58,820	129,400	47,600	104,720	34,000	74,800
40	1 5/8	219,500	482,900	2.6	8.6	43,900	96,600	35,100	77,200	87,800	193,200	75,950	167,090	61,460	135,210	43,900	96,600

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.