

# OPTIMA BRS

## Braid Round Sling



Crafted from premium UHMWPE fibers, the Optima5 BRS 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 Optima5 BRS is precision-engineered with matched lengths and tight tolerances, ensuring reliability in marine, industrial, and heavy lifting 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 webbing sheath for maximum protection against wear, cutting, and snagging, thereby extending its lifespan and reducing costs.



High strength and high resistance



Removable and replaceable sheath



Tight length tolerance



Traceable product information



Versatile lifting design



### Technical Information

Construction: Braid Round Sling

Rope Material: UHMWPE

Safety: Proof Loaded

Safety Factor: According to Customer Specifications

Length Tolerance: ± 0.3%

Length Tolerance, Matched Pairs: ± 0.15%



ISO 9001

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			lbs	ton	ft	m	lbs	ton	lbs	ton	
3/8	10	1 1/8	30	34,500	15.7	2.3	0.7	6,900	3.1	5,500	2.5	13,800	6.3
1/2	12	1 1/2	36	54,500	24.8	3.0	0.9	10,900	5.0	8,700	4.0	21,800	9.9
9/16	14	1 3/4	42	72,500	33.0	3.3	1.0	14,500	6.6	11,600	5.3	29,000	13.2
5/8	16	2	48	89,500	40.6	3.9	1.2	17,900	8.1	14,300	6.5	35,800	16.2
3/4	18	2 1/4	54	118,500	54.0	4.3	1.3	23,700	10.8	19,000	8.6	47,400	21.6
7/8	22	2 3/4	66	178,000	80.9	5.3	1.6	35,600	16.2	28,500	12.9	71,200	32.3
1	24	3	72	189,000	85.8	5.6	1.7	37,800	17.2	30,200	13.7	75,600	34.3
1 1/16	26	3 1/4	78	222,000	100.8	6.3	1.9	44,400	20.2	35,500	16.1	88,800	40.3
1 1/8	28	3 1/2	84	247,000	112.2	6.6	2.0	49,400	22.4	39,500	18.0	98,800	44.9
1 1/4	30	3 3/4	90	281,500	127.9	7.2	2.2	56,300	25.6	45,000	20.5	112,600	51.2
1 5/16	32	4	96	330,500	150.2	7.6	2.3	66,100	30.0	52,900	24.0	132,200	60.1
1 1/2	36	4 1/2	108	374,000	170.0	7.9	2.4	74,800	34.0	59,800	27.2	149,600	68.0
1 5/8	40	5	120	483,000	219.5	8.6	2.6	96,600	43.9	77,300	35.1	193,200	87.8

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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