

OPTIMA™ 5

BRS

Braid Round Sling

Crafted from premium UHMWPE fibers, the OPTIMA™ 5 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 OPTIMA™ 5 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
light weight



Removable and
replaceable sheath



Tight length tolerance



Versatile lifting design



Technical Information

Type Braid Round Sling

Rope Material Premium UHMWPE

Safety Proof Loaded

Safety Factor 5:1 or according to
customer specifications

Length Tolerance $\pm 0.3\%$

Length Tolerance,
Matched Pairs $\pm 0.15\%$



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

Diameter	Sling Detail			Rated Capacity (WLL)		
	Circle	Minimum Breaking Load	Minimum Sling Length	Vertical	Choker	Basket
inch	inch	lbs	ft	lbs	lbs	lbs
3/8	1 1/8	34,500	2.3	6,900	5,500	13,800
1/2	1 1/2	54,500	3.0	10,900	8,700	21,800
9/16	1 3/4	69,000	3.3	13,800	11,000	27,600
5/8	2	89,500	3.9	17,900	14,300	35,800
3/4	2 1/4	118,500	4.3	23,700	19,000	47,400
7/8	2 3/4	167,000	5.3	33,400	26,700	66,800
1	3	189,000	5.6	37,800	30,200	75,600
1 1/16	3 1/4	222,000	6.3	44,400	35,500	88,800
1 1/8	3 1/2	247,000	6.6	49,400	39,500	98,800
1 1/4	3 3/4	281,500	7.2	56,300	45,000	112,600
1 5/16	4	330,500	7.6	66,100	52,900	132,200
1 1/2	4 1/2	374,000	7.9	74,800	59,800	149,600
1 5/8	5	483,000	8.6	96,600	77,300	193,200

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 ROPE



sales@ropers.com.tw



www.ropersrope.com



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



sales@ropers.com.tw



www.ropersrope.com