

# 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
mm	mm	ton	m	ton	ton	ton
10	30	15.7	0.7	3.1	2.5	6.3
12	36	24.8	0.9	5.0	4.0	9.9
14	42	31.4	1.0	6.3	5.0	12.5
16	48	40.6	1.2	8.1	6.5	16.2
18	54	54.0	1.3	10.8	8.6	21.6
22	66	75.9	1.6	15.2	12.1	30.3
24	72	85.8	1.7	17.2	13.7	34.3
26	78	100.8	1.9	20.2	16.1	40.3
28	84	112.2	2.0	22.4	18.0	44.9
30	90	127.9	2.2	25.6	20.5	51.2
32	96	150.2	2.3	30.0	24.0	60.1
36	108	170.0	2.4	34.0	27.2	68.0
40	120	219.5	2.6	43.9	35.1	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. Minimum D:d>3:1.



ROPER ROPE



sales@ropers.com.tw



www.ropersrope.com