

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	± 0.3%
Length Tolerance, Matched Pairs	± 0.15%



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

Sling Detail				Rated Capacity (WLL)		
Diameter	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.



ROPERS ROPE



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