

OPTIMA™ 5

EGS

Endless Grommet Sling

Crafted from premium UHMWPE fibers, the OPTIMA™ 5 EGS is the strongest synthetic fiber rope produced by ROPERS. Weighing over 80% less than equivalent steel wire slings, it offers enhanced flexibility, convenience, and safety. The OPTIMA™ 5 EGS features precision-matched lengths and tight tolerances, making it an ideal solution for marine, industrial, and heavy lifting environments.

The sling achieves higher strength with the support of its two legs while maintaining the same diameter. Fully covered with wear resistant Cordura sheath, it provides maximum protection against wear, cutting, and snagging. The removable middle section sheath allows for easy inspection and maintenance, with the option to replace the sheath as needed.



<i>Multi-purpose hoisting design</i>	<i>Durable: multiple layers of wear-resistant protection</i>	<i>High strength and light weight</i>	<i>Corrosion resistant, safer and lower maintenance cost</i>



Technical Information

Type	Endless Grommet 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

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

