

# 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.



Multi-purpose hoisting design



Durable: multiple layers of wear-resistant protection



High strength and light weight



Corrosion resistant, safer and lower maintenance cost



### Technical Information

Type: Endless Grommet 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

| 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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