

OPTIMA™ 5

EES

Eye & Eye Sling

Crafted from premium UHMWPE fibers, the OPTIMA™ 5 EES 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 EES is precision-engineered with matched lengths and tight tolerances, ensuring reliability in marine, industrial, and heavy lifting applications.

Equipped with extensive wear protection, this sling maximizes lifespan and reduces costs. Both eyes are permanently fitted with wear resistant Cordura sleeves, while a removable, highly visible pangolin sleeve offers additional protection against wear, cutting, and snagging. The design also allows for easy inspection and maintenance.



Multi-purpose hoisting design



Durable: multiple layers of wear-resistant protection



High strength and light weight



Cost-effective: Corrosion resistant, safer and lower maintenance cost



Technical Information

| | |
|---------------------------------|---------------------------------------------|
| Type | Eye & Eye 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) | | |
|----------------------|--------|-----------------------|----------------------|----------------------|--------|--------|
| Approximate Diameter | Circle | Minimum Breaking Load | Minimum Sling Length | Vertical | Choker | Basket |
| mm | mm | ton | m | ton | ton | ton |
| 10 | 30 | 9.5 | 1.1 | 1.9 | 1.5 | 3.8 |
| 12 | 36 | 15.0 | 1.3 | 3.0 | 2.4 | 6.0 |
| 14 | 42 | 19.0 | 1.5 | 3.8 | 3.0 | 7.6 |
| 16 | 48 | 24.6 | 1.7 | 4.9 | 3.9 | 9.8 |
| 18 | 54 | 32.7 | 2.0 | 6.5 | 5.2 | 13.1 |
| 22 | 66 | 46.0 | 2.4 | 9.2 | 7.3 | 18.4 |
| 24 | 72 | 52.0 | 2.7 | 10.4 | 8.3 | 20.8 |
| 26 | 78 | 61.1 | 3.0 | 12.2 | 9.8 | 24.4 |
| 28 | 84 | 68.0 | 3.2 | 13.6 | 10.9 | 27.2 |
| 30 | 90 | 77.5 | 3.4 | 15.5 | 12.4 | 31.0 |
| 32 | 96 | 91.0 | 3.6 | 18.2 | 14.6 | 36.4 |
| 36 | 108 | 103.0 | 4.0 | 20.6 | 16.5 | 41.2 |
| 40 | 120 | 133.0 | 4.4 | 26.6 | 21.3 | 53.2 |

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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