

OPTIMA 3X

High Performance Synthetic Fiber Eye To Eye Sling

Optima is made of Ultra-High Molecular Weight Polyethylene (UHMWPE) fiber and is the highest strength synthetic fiber rope available made by ROPERS. Optima 3X is an eye to eye sling made of optima series ropes, providing a more reliable and efficient solution. Compared with the steel wire sling of the same strength, the weight can be reduced by more than 80%, more flexible and safer.

Optima 3X Eye To Eye Sling is encased in abrasion resistant knitted sleeve with smooth and tight surface, which can protect the potential friction areas from abrasion, cutting, or snagging. An unique wear-resistant coating cover is added in the middle to provide additional protection for special lifting requirements of users.

- ▶ Multi purpose of hoisting design
- ▶ High strength and light weight, operate flexibly
- ▶ Excellent bending fatigue resistance
- ▶ Easy to handle and install, less labor intensive
- ▶ Multiple wear-resistant protection and durable
- ▶ Torque-free to minimize rotation under loaded



Specification

| Sling Detail | | | | | | | | Rated Capacity (WLL) | | | | | | |
|----------------------|----|--------|----|-----------------------|-------|----------------------|-----|----------------------|------|--------|------|---------|------|--|
| Approximate Diameter | | Circle | | Minimum Breaking Load | | Minimum Sling Length | | Vertical | | Choker | | Basket | | |
| inch | mm | inch | mm | lbs | ton | ft | m | lbs | ton | lbs | ton | lbs | ton | |
| 1/4 | 6 | 3/4 | 18 | 14,160 | 6.4 | 1.6 | 0.5 | 2,360 | 1.1 | 1,900 | 0.9 | 4,720 | 2.1 | |
| 5/16 | 8 | 15/16 | 24 | 21,900 | 9.9 | 2.0 | 0.6 | 3,650 | 1.7 | 2,900 | 1.3 | 7,300 | 3.3 | |
| 3/8 | 10 | 1 1/8 | 30 | 30,900 | 14.0 | 2.3 | 0.7 | 5,150 | 2.3 | 4,100 | 1.9 | 10,300 | 4.7 | |
| 1/2 | 12 | 1 1/2 | 36 | 51,900 | 23.6 | 3.0 | 0.9 | 8,650 | 3.9 | 6,900 | 3.1 | 17,300 | 7.9 | |
| 9/16 | 14 | 1 3/4 | 42 | 63,600 | 28.5 | 3.3 | 1.0 | 10,600 | 4.8 | 8,500 | 3.8 | 21,200 | 9.5 | |
| 5/8 | 16 | 2 | 48 | 85,200 | 38.8 | 3.9 | 1.2 | 14,200 | 6.5 | 11,400 | 5.2 | 28,400 | 12.9 | |
| 3/4 | 18 | 2 1/4 | 54 | 112,800 | 51.4 | 4.3 | 1.3 | 18,800 | 8.6 | 15,000 | 6.9 | 37,600 | 17.1 | |
| 7/8 | 22 | 2 3/4 | 66 | 152,400 | 69.1 | 5.3 | 1.6 | 25,400 | 11.5 | 20,300 | 9.2 | 50,800 | 23.0 | |
| 1 | 24 | 3 | 72 | 181,200 | 82.3 | 5.6 | 1.7 | 30,200 | 13.7 | 24,200 | 11.0 | 60,400 | 27.4 | |
| 1 1/16 | 26 | 3 1/4 | 78 | 214,800 | 97.6 | 6.3 | 1.9 | 35,800 | 16.3 | 28,700 | 13.0 | 71,600 | 32.5 | |
| 1 1/8 | 28 | 3 1/2 | 84 | 226,200 | 102.8 | 6.6 | 2.0 | 37,700 | 17.1 | 30,200 | 13.7 | 75,400 | 34.3 | |
| 1 1/4 | 30 | 3 3/4 | 90 | 255,000 | 115.7 | 7.2 | 2.2 | 42,500 | 19.3 | 34,000 | 15.4 | 85,000 | 38.6 | |
| 1 5/16 | 32 | 4 | 96 | 300,600 | 136.6 | 7.6 | 2.3 | 50,100 | 22.8 | 40,100 | 18.2 | 100,200 | 45.5 | |

▶ Vertical Lift rating to BS EN1492-2:2000 (6:1WLL)
 The product complies with both BSEN and ASME standards. Minimum Breaking Load (MBL) is determined using spliced test sample
 Larger Available By Request



ROPERS ROPE

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
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Specification

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|----------------------|-----|--------|-----|-----------------------|---------|----------------------|-----|--|-------|--|-------|--|-------|
| Approximate Diameter | | Circle | | Minimum Breaking Load | | Minimum Sling Length | | Vertical  | | Choker  | | Basket  | |
| inch | mm | inch | mm | lbs | ton | ft | m | lbs | ton | lbs | ton | lbs | ton |
| 1 1/2 | 36 | 4 1/2 | 108 | 339,600 | 154.1 | 7.9 | 2.4 | 56,600 | 25.7 | 45,300 | 20.6 | 113,200 | 51.4 |
| 1 5/8 | 40 | 5 | 120 | 423,000 | 192.2 | 8.6 | 2.6 | 70,500 | 32.0 | 56,400 | 25.6 | 141,000 | 64.1 |
| 1 3/4 | 44 | 5 1/2 | 132 | 508,800 | 231.1 | 9.2 | 2.8 | 84,800 | 38.5 | 67,900 | 30.8 | 169,600 | 77.0 |
| 2 | 48 | 6 | 144 | 595,800 | 270.7 | 10.2 | 3.1 | 99,300 | 45.1 | 79,500 | 36.1 | 198,600 | 90.2 |
| 2 1/8 | 52 | 6 1/2 | 156 | 711,600 | 323.4 | 10.9 | 3.3 | 118,600 | 53.9 | 94,900 | 43.1 | 237,200 | 107.8 |
| 2 1/4 | 56 | 7 | 168 | 801,600 | 364.3 | 11.8 | 3.6 | 133,600 | 60.7 | 106,900 | 48.6 | 267,200 | 121.4 |
| 2 1/2 | 60 | 7 1/2 | 180 | 873,600 | 396.9 | 12.5 | 3.8 | 145,600 | 66.2 | 116,500 | 52.9 | 291,200 | 132.3 |
| 2 5/8 | 64 | 8 | 192 | 988,200 | 448.9 | 13.5 | 4.1 | 164,700 | 74.8 | 131,800 | 59.9 | 329,400 | 149.6 |
| 2 3/4 | 68 | 8 1/2 | 204 | 1,093,200 | 496.7 | 14.5 | 4.4 | 182,200 | 82.8 | 145,800 | 66.2 | 364,400 | 165.6 |
| 3 | 72 | 9 | 216 | 1,126,800 | 512.0 | 15.1 | 4.6 | 187,800 | 85.3 | 150,300 | 68.3 | 375,600 | 170.7 |
| 3 1/8 | 76 | 9 1/2 | 228 | 1,243,800 | 565.3 | 16.1 | 4.9 | 207,300 | 94.2 | 165,900 | 75.4 | 414,600 | 188.4 |
| 3 1/4 | 80 | 10 | 240 | 1,375,800 | 625.2 | 16.8 | 5.1 | 229,300 | 104.2 | 183,500 | 83.4 | 458,600 | 208.4 |
| 3 5/8 | 88 | 11 | 264 | 1,663,800 | 756.0 | 18.8 | 5.7 | 277,300 | 126.0 | 221,900 | 100.8 | 554,600 | 252.0 |
| 4 | 96 | 12 | 288 | 1,976,400 | 898.1 | 20.7 | 6.3 | 329,400 | 149.7 | 263,600 | 119.8 | 658,800 | 299.4 |
| 4 1/8 | 100 | 12 1/2 | 300 | 2,101,800 | 955.2 | 21.4 | 6.5 | 350,300 | 159.2 | 280,300 | 127.4 | 700,600 | 318.4 |
| 4 1/4 | 104 | 13 | 312 | 2,227,200 | 1,012.3 | 22.4 | 6.8 | 371,200 | 168.7 | 297,000 | 135.0 | 742,400 | 337.4 |
| 4 1/2 | 108 | 13 1/2 | 324 | 2,354,400 | 1,069.9 | 23.0 | 7.0 | 392,400 | 178.3 | 314,000 | 142.7 | 784,800 | 356.6 |
| 4 5/8 | 112 | 14 | 336 | 2,481,000 | 1,127.7 | 24.3 | 7.4 | 413,500 | 188.0 | 330,800 | 150.4 | 827,000 | 375.9 |
| 5 | 120 | 15 | 360 | 2,791,200 | 1,268.6 | 26.0 | 7.9 | 465,200 | 211.4 | 372,200 | 169.2 | 930,400 | 422.9 |
| 5 1/8 | 124 | 15 1/2 | 372 | 2,968,200 | 1,349.0 | 27.0 | 8.2 | 494,700 | 224.8 | 395,800 | 179.9 | 989,400 | 449.7 |

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