

OPTIMA™ 4C

Polyester/UHMWPE Durable Double Braid Winch Line

OPTIMA™ is made of Ultra-High-Molecular-Weight-Polyethylene (UHMWPE) fibers and is the highest strength synthetic fiber rope available made by ROPERS.

Our OPTIMA™ 4C is a double braided rope made of a high-strength UHMWPE core and a wear resistant polyester cover. Functionally, it is as high-strength, light-weight and efficient as other OPTIMA™ series ropes, but has an even longer service life.

OPTIMA™ 4C is an excellent and cost-effective alternative to steel wire rope. Its overall structure is round and firm, with a polyester sheath enhanced by a special wear resistant coating that provides exceptional durability and improved grip, preventing slippage and effectively protecting the bearing core from damage. Additionally, the coordinated double braid structure design minimizes the rope sheath slippage, improving the service life of the rope.



Extremely high bending fatigue strength



Cost-effective



Excellent grip



Great wear resistance



UV and chemical resistance



Technical Information



UHMWPE
CORE



Polyester
COVER



1.03
SPECIFIC GRAVITY



Double Braided
CONSTRUCTION



280°F (140°C)
MELTING POINT



150°F (65°C)
CRITICAL TEMP



3.2%
ELONGATION
AT 30% BREAK



0-1%
WATER
ABSORPTION



| Diameter | Weight | Minimum Breaking Strength | Minimum Strength ISO Unspliced Rope |
|----------|----------|---------------------------|-------------------------------------|
| mm | kg /100m | ton | ton |
| 10 | 8.9 | 9.5 | 10.6 |
| 11 | 10.0 | 11.6 | 12.9 |
| 12 | 13.8 | 15.0 | 16.7 |
| 14 | 17.5 | 19.0 | 21.1 |
| 16 | 25.7 | 24.6 | 27.3 |
| 18 | 33.7 | 32.7 | 36.3 |
| 22 | 46.7 | 46.0 | 51.1 |
| 24 | 55.0 | 52.0 | 57.5 |
| 26 | 67.5 | 61.1 | 67.9 |
| 28 | 79.2 | 68.0 | 75.6 |
| 30 | 87.5 | 77.5 | 86.1 |
| 32 | 101.7 | 91.0 | 101.1 |
| 36 | 123.5 | 103.0 | 114.4 |
| 40 | 156.7 | 134.0 | 147.8 |
| 44 | 191.7 | 147.0 | 163.3 |
| 48 | 213.3 | 164.0 | 182.2 |
| 52 | 261.7 | 198.0 | 220.0 |

Diameter, weight and MBS are determined in accordance with CI1500-02. Custom size and length available by request.



ROPERS ROPE



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