

OPTIMA™ 4S

Offroad Winch Line

OPTIMA™ 4S UHMWPE/HMPE Winch Line sets the benchmark for synthetic winch lines with its exceptional strength and performance. Constructed with ultra-high-molecular-weight polyethylene (UHMWPE) fiber, this rope stands as the pinnacle of synthetic alternatives, proudly manufactured by ROPERS. It is widely embraced in the Oil & Gas, Offshore, Mining, and Energy sectors for its outstanding capabilities.

Designed to be a remarkable wire rope substitute, UHMWPE/HMPE OPTIMA™ 4S offers several advantages. Its high-strength UHMWPE core, combined with a wear-resistant UHMWPE over braided cover, ensures optimal performance in the most demanding conditions. Additionally, the cover is specially coated to enhance wear resistance and shield the bearing core from the detrimental effects of dirt and sand.



Extremely high bending fatigue strength	Minimize sliding between core and cover in design	Smooth and tight	Good wear resistance	UV and chemical resistance



Technical Information

0.98
SPECIFIC GRAVITY

Double Braid
CONSTRUCTION

280°F (140°C)
MELTING POINT

150°F (65°C)
CRITICAL TEMP

3.2%
ELONGATION
AT 30% BREAK

0
WATER
ABSORPTION



Diameter	Weight	Minimum Strength Spliced Rope	Minimum Strength ISO Unspliced Rope
inch	lbs/100ft	lbs	lbs
3/8	4.4	19,800	22,000
7/16	4.9	24,200	26,800
1/2	6.5	27,500	30,600
9/16	7.4	30,800	34,300
5/8	10.1	40,500	44,900
3/4	13.8	53,200	59,100

Custom size and length available by request.



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