

OPTIMA 4S

Off-road Winch Line

Optima is made of ultra-high-molecular-weight polyethylene (UHMWPE) fiber and is the highest strength synthetic fiber rope available made by ROPERS. Comprised of high strength UHMWPE as its core and a UHMWPE overbraided cover for wear resistance, the Optima 4S is the ultimate synthetic winch line. Optima 4S is a great wire rope alternative, it can be neatly arranged on the winch. The cover with a special coating can further increase wear resistance, and effectively protect the bearing, core from wear cause by dirt and sand getting, lodged in between the fibers.



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
STRUCTURE



280°F (140°C)
MELTING POINT



150°F (65°C)
CRITICAL TEMP



3.5%~3.8%
FIBER
ELONGATION



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.

