



TJM WINCH ROPE

TJM Winch Rope is made using the world's strongest synthetic rope, Dyneema (SK-75)

TJM winch rope is only a fraction of the weight of steel cable, but is impressively up to 45% stronger. This makes the TJM winch rope more convenient and safer than conventional steel wire cable, and unlike wire cable, synthetic winch rope has minimal snapback on weight limit exceeded breakages. Due to the rope's light weight, TJM winch rope handles easily and even floats on water. This makes the M-P winch rope great for rescues in water, on steep hills or in mountains, where weight really matters. More advantages include no curls, kinks, wire splinters or sore fingers.

TJM synthetic winch rope comes with stainless steel thimble and a 10 ft. heat guard to protect the rope from winch overheating.

Cable Facts 5/16":

TJM Syn Winch Rope	5/16"	13,000lb.
Wire STEEL cable	5/16"	9,800lb.

Cable Facts 3/8"

TJM Syn Winch Rope	3/8"	18,000lb.
Wire STEEL cable	3/8"	14,400lb.

Safety: Both steel and synthetic lines give a very small amount of stretch, the equivalent of less than 1% at breaking pressure. This tiny amount of stretch stores kinetic energy that is released when the line breaks. Since steel winch line is much heavier than synthetic line, the force of that stored energy is devastatingly powerful, particularly dangerous with people near. The synthetic line is so light and therefore stores less kinetic energy, which when released, the winch line virtually falls to the ground with a fraction of the force of steel. For this reason, Of-Road racing sanctioning bodies do not allow steel cables because of their inherent danger. Synthetic winch lines are now mandatory.

Ease of Handling: Steel winch cables have a tendency to kink, rust, and have very sharp strands once nicked. They also tend to straighten by the nature of the material making them harder to spool back on the winch properly. Our synthetic winchlines have none of these problems. However, synthetic lines are more susceptible to sharp edges (bumpers in particular) and heat, but they are much stronger, safer and easier to work with.

Strength: Dyneema® synthetic winch line fiber is up to 15 times stronger than quality steel and 45% stronger than Aramid fibers on weight for weight basis. This means the replacement synthetic winch line is typically 45% stronger than steel cable! Steel cables are typically sized to match the strength of a winch. For example a 9,500 lb capacity winch will have roughly a 9,500-10,000 lb capacity steel cable. The replacement synthetic line would be 5/16" (7.9mm) or 3/8" (9.5mm). TJM Trail Lines are rated at 13,000 lb (4.6 metric ton) for the 5/16" and 19,600 lb (6.2 metric ton) for 3/8", making them approximately 27% and 49% stronger on the conservative side.